TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-63734-1

Job Description: Hattiesburg Carbon Filter MW08 12/2/10

For:
Ashland Inc.
500 Hercules Road
Wilmington, DE 19894

Attention: Timothy Hassett

Approved for release.
Lidya Gulizia
Project Manager I
12/17/2010 4:46 PM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
12/17/2010

cc: Caleb Dana
Mr. Charlie Jordan
Mr. Chris Waters

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Comments
No additional comments.

METHOD SUMMARY

Client: Ashland Inc.

Job Number: 680-63734-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury (CVAA)	TAL SAV	SW846 7471A	
Preparation, Mercury	TAL SAV		SW846 7471A
Matrix Waste			
Metals (ICP)	TAL SAV	SW846 6010B	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury (CVAA)	TAL SAV	SW846 7471A	
Preparation, Mercury	TAL SAV		SW846 7471A
Ignitability, Pensky-Martens Closed-Cup Method	TAL SAV	SW846 1010	
pH	TAL SAV	SW846 9045C	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

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

METHOD / ANALYST SUMMARY

Client: Ashland Inc.

Job Number: 680-63734-1

Method	Analyst	Analyst ID
SW846 6010B	Bland, Brian	BCB
SW846 7471A	Vasquez, Juana	JV
SW846 1010	Jackson, Michelle S	MSJ
SW846 9045C	Robinson, Tiffany	TR

SAMPLE SUMMARY

Client: Ashland Inc.

Job Number: 680-63734-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-63734-1	ASH-MW08-CF-12022010	Solid	12/02/2010 1420	12/04/2010 1023
680-63734-2	ASH-MW08-CF-12022010	Waste	12/02/2010 1435	12/04/2010 1023

SAMPLE RESULTS

Client: Ashland Inc.

Job Number: 680-63734-1

Client Sample ID: **ASH-MW08-CF-12022010**

Lab Sample ID: 680-63734-1
Client Matrix: Solid

Date Sampled: 12/02/2010 1420
Date Received: 12/04/2010 1023

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-188613		Instrument ID:	ICPD
Preparation:	3050B	Prep Batch: 680-188073		Lab File ID:	120910104750.chr
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	12/10/2010 1047			Final Weight/Volume:	100 mL
Date Prepared:	12/06/2010 1457				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		34		1.8
Barium		40		0.92
Cadmium		<0.46		0.46
Lead		1.9		0.92
Selenium		<2.3		2.3
Silver		<0.92		0.92

Method:	6010B	Analysis Batch: 680-189108		Instrument ID:	ICPD
Preparation:	3050B	Prep Batch: 680-188734		Lab File ID:	12141015195.chr
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	12/15/2010 0738			Final Weight/Volume:	100 mL
Date Prepared:	12/13/2010 1003				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Chromium		4.0		0.93

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 680-189039		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-188335		Lab File ID:	b121410a.chr
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Date Analyzed:	12/14/2010 1534			Final Weight/Volume:	50 mL
Date Prepared:	12/08/2010 1405				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		<0.020		0.020

Client: Ashland Inc.

Job Number: 680-63734-1

Client Sample ID: ASH-MW08-CF-12022010

Lab Sample ID: 680-63734-2

Client Matrix: Waste

Date Sampled: 12/02/2010 1435

Date Received: 12/04/2010 1023

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 680-188613		Instrument ID:	ICPD
Preparation:	3050B	Prep Batch: 680-188402		Lab File ID:	120910104750.chr
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Date Analyzed:	12/10/2010 1117			Final Weight/Volume:	100 mL
Date Prepared:	12/09/2010 0841				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Arsenic		<2.0		2.0
Barium		<0.99		0.99
Cadmium		<0.50		0.50
Chromium		<0.99		0.99
Lead		<0.99		0.99
Selenium		<2.5		2.5
Silver		<0.99		0.99

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 680-189039		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-188335		Lab File ID:	b121410a.chr
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Date Analyzed:	12/14/2010 1537			Final Weight/Volume:	50 mL
Date Prepared:	12/08/2010 1405				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		<0.019		0.019

General Chemistry

Client Sample ID: ASH-MW08-CF-12022010

Lab Sample ID: 680-63734-2

Client Matrix: Waste

Date Sampled: 12/02/2010 1435

Date Received: 12/04/2010 1023

Analyte	Result	Qual	Units	Dil	Method
Flashpoint	>140		Degrees F	1.0	1010
	Analysis Batch: 680-189278		Date Analyzed: 12/16/2010 1230		DryWt Corrected: N
pH	7.49		SU	1.0	9045C
	Analysis Batch: 680-188108		Date Analyzed: 12/06/2010 1649		DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Ashland Inc.

Job Number: 680-63734-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-188073					
LCS 680-188073/10-A	Lab Control Sample	T	Solid	3050B	
MB 680-188073/9-A	Method Blank	T	Solid	3050B	
680-63734-1	ASH-MW08-CF-12022010	T	Solid	3050B	
Prep Batch: 680-188335					
MB 680-188335/1-A	Method Blank	T	Solid	7471A	
LCS 680-188335/2-A	Lab Control Sample	T	Waste	7471A	
680-63734-1	ASH-MW08-CF-12022010	T	Solid	7471A	
680-63734-2	ASH-MW08-CF-12022010	T	Waste	7471A	
Prep Batch: 680-188402					
LCS 680-188402/7-A	Lab Control Sample	T	Waste	3050B	
MB 680-188402/6-A	Method Blank	T	Waste	3050B	
680-63734-2	ASH-MW08-CF-12022010	T	Waste	3050B	
Analysis Batch:680-188613					
LCS 680-188073/10-A	Lab Control Sample	T	Solid	6010B	680-188073
MB 680-188073/9-A	Method Blank	T	Solid	6010B	680-188073
LCS 680-188402/7-A	Lab Control Sample	T	Waste	6010B	680-188402
MB 680-188402/6-A	Method Blank	T	Waste	6010B	680-188402
680-63734-1	ASH-MW08-CF-12022010	T	Solid	6010B	680-188073
680-63734-2	ASH-MW08-CF-12022010	T	Waste	6010B	680-188402
Prep Batch: 680-188734					
LCS 680-188734/24-A	Lab Control Sample	T	Solid	3050B	
MB 680-188734/23-A	Method Blank	T	Solid	3050B	
680-63734-1	ASH-MW08-CF-12022010	T	Solid	3050B	
Analysis Batch:680-189039					
MB 680-188335/1-A	Method Blank	T	Solid	7471A	680-188335
LCS 680-188335/2-A	Lab Control Sample	T	Waste	7471A	680-188335
680-63734-1	ASH-MW08-CF-12022010	T	Solid	7471A	680-188335
680-63734-2	ASH-MW08-CF-12022010	T	Waste	7471A	680-188335
Analysis Batch:680-189108					
LCS 680-188734/24-A	Lab Control Sample	T	Solid	6010B	680-188734
MB 680-188734/23-A	Method Blank	T	Solid	6010B	680-188734
680-63734-1	ASH-MW08-CF-12022010	T	Solid	6010B	680-188734

Report Basis
T = Total

Client: Ashland Inc.

Job Number: 680-63734-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:680-188108					
LCS 680-188108/1	Lab Control Sample	T	Waste	9045C	
680-63734-2	ASH-MW08-CF-12022010	T	Waste	9045C	
680-63734-2DU	Duplicate	T	Waste	9045C	
Analysis Batch:680-189278					
LCS 680-189278/2	Lab Control Sample	T	Waste	1010	
MB 680-189278/1	Method Blank	T	Waste	1010	
680-63734-2	ASH-MW08-CF-12022010	T	Waste	1010	
680-63734-2DU	Duplicate	T	Waste	1010	

Report Basis
T = Total

Client: Ashland Inc.

Method Blank - Batch: 680-188073

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 680-188073/9-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/10/2010 0941
Date Prepared: 12/06/2010 1457

Analysis Batch: 680-188613
Prep Batch: 680-188073
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 120910104750.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Arsenic	<2.0		2.0
Barium	<1.0		1.0
Cadmium	<0.50		0.50
Lead	<1.0		1.0
Selenium	<2.5		2.5
Silver	<1.0		1.0

Lab Control Sample - Batch: 680-188073

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 680-188073/10-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/10/2010 0946
Date Prepared: 12/06/2010 1457

Analysis Batch: 680-188613
Prep Batch: 680-188073
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 120910104750.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	200	215	108	75 - 125	
Barium	200	207	103	75 - 125	
Cadmium	5.00	5.51	110	75 - 125	
Lead	50.0	54.5	109	75 - 125	
Selenium	200	216	108	75 - 125	
Silver	5.00	5.38	108	75 - 125	

Client: Ashland Inc.

Method Blank - Batch: 680-188402

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 680-188402/6-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/10/2010 1106
Date Prepared: 12/09/2010 0841

Analysis Batch: 680-188613
Prep Batch: 680-188402
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 120910104750.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Arsenic	<2.0		2.0
Barium	<1.0		1.0
Cadmium	<0.50		0.50
Chromium	<1.0		1.0
Lead	<1.0		1.0
Selenium	<2.5		2.5
Silver	<1.0		1.0

Lab Control Sample - Batch: 680-188402

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 680-188402/7-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/10/2010 1111
Date Prepared: 12/09/2010 0841

Analysis Batch: 680-188613
Prep Batch: 680-188402
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 120910104750.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	200	219	110	75 - 125	
Barium	200	214	107	75 - 125	
Cadmium	5.00	5.81	116	75 - 125	
Chromium	20.0	22.5	113	75 - 125	
Lead	50.0	55.9	112	75 - 125	
Selenium	200	221	111	75 - 125	
Silver	5.00	5.44	109	75 - 125	

Client: Ashland Inc.

Job Number: 680-63734-1

Method Blank - Batch: 680-188734

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 680-188734/23-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/15/2010 0516
Date Prepared: 12/13/2010 1003

Analysis Batch: 680-189108
Prep Batch: 680-188734
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 12141015195.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL
Arsenic	<2.0		2.0
Barium	<1.0		1.0
Cadmium	<0.50		0.50
Chromium	<1.0		1.0
Lead	<1.0		1.0
Selenium	<2.5		2.5
Silver	<1.0		1.0

Lab Control Sample - Batch: 680-188734

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 680-188734/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/15/2010 0521
Date Prepared: 12/13/2010 1003

Analysis Batch: 680-189108
Prep Batch: 680-188734
Units: mg/Kg

Instrument ID: ICPD
Lab File ID: 12141015195.chr
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	200	205	102	75 - 125	
Barium	200	207	103	75 - 125	
Cadmium	5.00	5.09	102	75 - 125	
Chromium	20.0	21.2	106	75 - 125	
Lead	50.0	52.3	105	75 - 125	
Selenium	200	204	102	75 - 125	
Silver	5.00	5.19	104	75 - 125	

Client: Ashland Inc.

Job Number: 680-63734-1

Method Blank - Batch: 680-188335

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 680-188335/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/14/2010 1348
Date Prepared: 12/08/2010 1405

Analysis Batch: 680-189039
Prep Batch: 680-188335
Units: mg/Kg

Instrument ID: LEEMAN1
Lab File ID: b121410a.chr
Initial Weight/Volume: 0.50 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	<0.020		0.020

Client: Ashland Inc.

Job Number: 680-63734-1

Method Blank - Batch: 680-189278

Method: 1010
Preparation: N/A

Lab Sample ID: MB 680-189278/1
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/16/2010 1230
Date Prepared: N/A

Analysis Batch: 680-189278
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual
Flashpoint	>140	

NONE

Lab Control Sample - Batch: 680-189278

Method: 1010
Preparation: N/A

Lab Sample ID: LCS 680-189278/2
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/16/2010 1230
Date Prepared: N/A

Analysis Batch: 680-189278
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	80.0	80.0	100	97.53 - 102.47	

Duplicate - Batch: 680-189278

Method: 1010
Preparation: N/A

Lab Sample ID: 680-63734-2
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/16/2010 1230
Date Prepared: N/A

Analysis Batch: 680-189278
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Flashpoint	>140	>140	NC		

Client: Ashland Inc.

Job Number: 680-63734-1

Lab Control Sample - Batch: 680-188108

Method: 9045C
Preparation: N/A

Lab Sample ID: LCS 680-188108/1
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/06/2010 1649
Date Prepared: N/A

Analysis Batch: 680-188108
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	6.970	100	63 - 158	

Duplicate - Batch: 680-188108

Method: 9045C
Preparation: N/A

Lab Sample ID: 680-63734-2
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 12/06/2010 1649
Date Prepared: N/A

Analysis Batch: 680-188108
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.49	7.520	0.4	40	

Serial Number

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☑ TA Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

○ Alternate Laboratory Name/Location:
Phone:
Fax:

PROJECT REFERENCE: Ashland Chemical	PROJECT NO.	PROJECT LOCATION (STATE): MS
(LAB) PROJECT MANAGER: Lidia Gulizia	P. O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 251-342-0700	CLIENT FAX
CLIENT NAME: Ashland Chemical	CLIENT EMAIL: caleb.dana@eco-systemsinc.com	
CLIENT ADDRESS: 500 Hercules Rd, Wilmington, DE 19808		
COMPANY CONTRACTING THIS WORK (if applicable)	SAMPLER'S SIGNATURE: [signature]	

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☑ DATE DUE ____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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

REQUIRED ANALYSES: pH - 9040B (—); TCLP RCRA Metals-6010B Hg 7470A (Nitric Acid); FP - 1010 (—); TCLP RCRA Metals 6010B Hg - 7471A (—)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	pH - 9040B	TCLP RCRA Metals-6010B Hg 7470A	FP - 1010	TCLP RCRA Metals 6010B Hg - 7471A	REMARKS
12-02-2010	1420	ASH-MW08-CF-12022010	G		✓						1	carbon filter solid
12-02-2010	1435	ASH-MW08-CF-12022010	G				✓	1	1	1		carbon filter liquid

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			[signature]	12-02-2010	1600	[signature]	12-3-10	1630
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			FedEx Airbill 873967410138					

LABORATORY USE ONLY 680-63734

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
~~[signature]~~ Beth A Daughty	~~12-3-10~~ 12/4/10	~~8:30~~ 1023	YES ⊗ NO		700 5494	Temp 0.8 ~~3.0°C (5592)~~ NJ 12/3/10

Original - Return to Laboratory with Sample(s)

Login Sample Receipt Check List

Client: Ashland Inc.

Job Number: 680-63734-1

List Source: TestAmerica Savannah

Login Number: 63734
Creator: Daughtry, Beth
List Number: 1

Question	T / F/ NA	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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8 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?	True	
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.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW17-12032010
File #: 1012047-01

	Date		Analyst
Collected:	12/03/2010	0955	Client
Extracted:	12/06/2010	1300	VCT
Analyzed:	12/13/2010	2041	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	3045			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	23.7			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	4.2			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene	*	25.1	10.00	251	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

*High surrogate recovery due to interference

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-RS4-12032010
File #: 1012047-02

	Date		
Collected:	12/03/2010	1005	Client
Extracted:	12/06/2010	1300	VCT
Analyzed:	12/13/2010	2105	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	2.9			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPDUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.5	10.00	75	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW18-12032010
File #: 1012047-03

	Date		
Collected:	12/03/2010	1040	Client
Extracted:	12/08/2010	1300	VCT
Analyzed:	12/13/2010	2128	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	2.6			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	5.6			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.8	10.00	58	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW20-12032010
File #: 1012047-04

	Date		Analyst
Collected:	12/03/2010	1115	Client
Extracted:	12/06/2010	1300	VCT
Analyzed:	12/13/2010	2152	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Spike Amount ug/L	SAMPLE Spike % Recovery	METHOD BLANK Detected Amount ug/L (ppb)	METHOD BLANK Spike Amount ug/L	METHOD BLANK Spike % Recovery	Lab Control Detected Amount ug/mL (ppm)	Lab Control Spike Amount ug/mL	Lab Control Spike % Recovery	MATRIX SPIKE Detected Amount ug/mL (ppm)	MATRIX SPIKE Spike Amount ug/mL	MATRIX SPIKE Spike % Recovery
Dioxenethion	0.400	3.4			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	0.58			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	6.1			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.7	10.00	47	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW21-12032010
File #: 1012047-05

	Date		Analyst
Collected:	12/03/2010	1155	Client
Extracted:	12/06/2010	1300	VCT
Analyzed:	12/13/2010	2216	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	10.2			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		13.7	10.00	137	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW22-12032010
File #: 1012047-06

	Date		Analyst
Collected:	12/03/2010	1300	Client
Extracted:	12/08/2010	1300	VCT
Analyzed:	12/13/2010	2240	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Spike Amount ug/L	SAMPLE Spike % Recovery	METHOD BLANK Detected Amount ug/L (ppb)	METHOD BLANK Spike Amount ug/L	METHOD BLANK Spike % Recovery	Lab Control Detected Amount ug/mL (ppm)	Lab Control Spike Amount ug/mL	Lab Control Spike % Recovery	MATRIX SPIKE Detected Amount ug/mL (ppm)	MATRIX SPIKE Spike Amount ug/mL	MATRIX SPIKE Spike % Recovery
Dioxenethion	0.400	6.2			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		10.3	10.00	103	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW23-12032010
File #: 1012047-07

	Date		Analyst
Collected:	12/03/2010	1220	Client
Extracted:	12/06/2010	1300	VCT
Analyzed:	12/13/2010	2304	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Spike Amount ug/L	SAMPLE Spike % Recovery	METHOD BLANK Detected Amount ug/L (ppb)	METHOD BLANK Spike Amount ug/L	METHOD BLANK Spike % Recovery	Lab Control Detected Amount ug/mL (ppm)	Lab Control Spike Amount ug/mL	Lab Control Spike % Recovery	MATRIX SPIKE Detected Amount ug/mL (ppm)	MATRIX SPIKE Spike Amount ug/mL	MATRIX SPIKE Spike % Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene	*	42.9	10.00	429	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

*High surrogate recovery due to interference

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-FD3-12032010
File #: 1012047-08

Collected: 12/03/2010 Client
Extracted: 12/06/2010 1300 VCT
Analyzed: 12/13/2010 2328 DGA
Date Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	1.9			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	6.4			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.1	10.00	51	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Ashland Chemical

YOUR COMPANY ADDRESS: 5000 Hercules Rd
Wilmington, DE 19808

NAME OF PERSON TO CONTACT: Tim Hassett

CONTACT PERSON'S PHONE: 251-342-0700 FAX:

CONTACT PERSON'S EMAIL: caleb.dana@eco-systemsinc.com

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: Propiconazole 8510/8321 HPLC-PDA	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
1	ASH-MW17-12032010	12-03-2010	0955	GW	✓	1	—	BT
2	ASH-RS4-12032010	12-03-2010	1005	GW	✓	1	—	BT
3	ASH-MW18-12032010	12-03-2010	1040	GW	✓	1	—	BT
4	ASH-MW20-12032010	12-03-2010	1115	GW	✓	1	—	BT
5	ASH-MW21-12032010	12-03-2010	1155	GW	✓	1	—	BT
6	ASH-MW22-12032010	12-03-2010	1300	GW	✓	1	—	BT
7	ASH-MW23-12032010	12-03-2010	1220	GW	✓	1	—	BT
8	ASH-FD3-12032010	12-03-2010	—	GW	✓	1	—	BT
9								BT
10								BT

Turn Around Time: Std.

Project Number: 1012047

File ID

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Chris Terrell	12-03-2010	1330	

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-FDI-12012010
File #: 1012024-01

Collected:	12/01/2010		Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1529	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected	Spike		Detected	Spike		Detected	Spike		Detected	Spike	
COMPOUNDS	PQL ug/L (ppb)	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/L (ppb)	Amount ug/L	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	15.5			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.6	10.00	66	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW10-12012010
File #: 1012024-02

	Date		
Collected:	12/01/2010	1055	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1553	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.9	10.00	69	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW04-12012010
File #: 1012024-03

	Date		
Collected:	12/01/2010	1150	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1617	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	22.2			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	6.07	10.0	61
Dioxathion (trans)	0.400	ND			ND			6.84	10.0	88	8.22	10.0	62
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.2	10.00	62	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: M.S. Bonner
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW11-12012010
File #: 1012024-04

	Date		
Collected:	12/01/2010	1230	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1641	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	1.00			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.4	10.00	44	6.77	10.00	66	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-RS2-12012010
File #: 1012024-05

	Date		Analyst
Collected:	12/01/2010	1215	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1705	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.3	10.00	73	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW05-12012010
File #: 1012024-06

	Date		
Collected:	12/01/2010	1300	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1729	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	0.74			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	0.56			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		4.8	10.00	48	6.77	10.00	66	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW12-12012010
File #: 1012024-07

	Date		
Collected:	12/01/2010	1415	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1753	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	0.75			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	6.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	6.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.0	10.00	70	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW06-12012010
File #: 1012024-08

	Date		
Collected:	12/01/2010	1400	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1617	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.9	10.00	69	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW07-12012010
File #: 1012024-09

	Date		Analyst
Collected:	12/01/2010	1445	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1841	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.1	10.00	51	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW24-12012010
File #: 1012024-10

	Date		Analyst
Collected:	12/01/2010	1525	Client
Extracted:	12/02/2010	1300	VCT
Analyzed:	12/14/2010	1905	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	0.46			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	6.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.0	10.00	60	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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2703 Oak Grove Road, Hattiesburg, MS 39402

Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com

WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Ashland Chemical

YOUR COMPANY ADDRESS: 500 Hercules Rd.
Wilmington, DE 19808

NAME OF PERSON TO CONTACT: Tim Hassett

CONTACT PERSON'S PHONE: 251-342-0700 FAX:

CONTACT PERSON'S EMAIL: caleb.dana@eco-systemsinc.com

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: Dissolution 3510/8321 HRL-PDA	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE: Turn Around Time / Project Number / File ID
1	ASH-MW16-12022010	12-02-2010	0950	GW	✓	1	—	BT
2	ASH-MW15-12022010	12-02-2010	1030	GW	✓	1	—	BT
3	ASH-RS3-12022010	12-02-2010	1040	W	✓	1	—	BT
4	ASH-MW14-12022010	12-02-2010	1120	GW	✓	1	—	BT
5	ASH-MW13-12022010	12-02-2010	1200	GW	✓	1	—	BT
6	ASH-MW19-12022010	12-02-2010	1235	GW	✓	1	—	BT
7	ASH-FD2-12022010	12-02-2010	—	GW	✓	1	—	BT
8	ASH-MW09-12022010	12-02-2010	1335	GW	✓	1	—	BT
9	ASH-MW08-12022010	12-02-2010	1410	GW	✓	1	—	BT
10								BT

Turn Around Time: Std.

Project Number: 1012042

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Chris Jewell	12-02-2010	1545	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW03-11302010
File #: 1011357-01

	Date		
Collected:	11/30/2010	1135	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	2009	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.8	10.0	98	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.2	10.00	72	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by: _____
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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-RS1-11302010
File #: 1011357-02

	Date		
Collected:	11/30/2010	1125	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	2033	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Spike Amount ug/L	SAMPLE Spike % Recovery	METHOD BLANK Detected Amount ug/L (ppb)	METHOD BLANK Spike Amount ug/L	METHOD BLANK Spike % Recovery	Lab Control Detected Amount ug/mL (ppm)	Lab Control Spike Amount ug/mL	Lab Control Spike % Recovery	MATRIX SPIKE Detected Amount ug/mL (ppm)	MATRIX SPIKE Spike Amount ug/mL	MATRIX SPIKE Spike % Recovery
Dioxenethion	0.400	0.55			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.2	10.00	72	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW02-11302010
File #: 1011357-03

	Date		
Collected:	11/30/2010	1222	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	2057	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.8	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		8.3	10.00	83	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by: _____
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WWW.BATCO.COM

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YOUR COMPANY NAME: Ashland Chemical

YOUR COMPANY ADDRESS: 5000 Hercules Rd.
Wilmington, DE 19808

NAME OF PERSON TO CONTACT: Tim Hassett

CONTACT PERSON'S PHONE: 251-342-0700 FAX:

CONTACT PERSON'S EMAIL: caleb.dana@eco-systemsinc.com

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	Dioxin/Furan 3510/8321 HPLC/MS	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE: Turn Around Time	Project Number / File ID
1	ASH-MW03-113020010	11-30-2010	1135	GW	✓	1	—	Std.	1011357 BT
2	ASH-RS1-113020010	11-30-2010	1125	W	✓	1	—		BT
3	ASH-MW02-113020010 (MS/MSD)	11-30-2010	1222	GW	✓	3	—		BT
4									BT
5									BT
6									BT
7									BT
8									BT
9									BT
10									BT

PARAMETERS FOR ANALYSIS

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Chris Terrell	11-30-2010	1315	Kerry Roberts

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS

_____ (Signature)

IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-CM05-11292010
File #: 1011344-01

	Date		
Collected:	11/29/2010	1445	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1406	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	1.9			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.8	10.0	98	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.9	10.00	69	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by:

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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-CM04-11292010
File #: 1011344-02

	Date		Analyst
Collected:	11/29/2010	1450	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1429	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	1.5			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	0.62			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		8.3	10.00	83	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-CM03-11292010
File #: 1011344-03

	Date		
Collected:	11/29/2010	1500	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1609	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	0.49			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.9	10.00	69	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-CM02-11292010
File #: 1011344-04

	Date		
Collected:	11/29/2010	1505	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1633	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery
Dioxenethion	0.400	ND			ND			6.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		8.1	10.00	81	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by: _____
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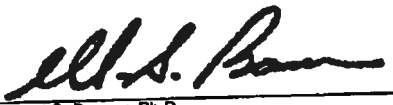
BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-CM01-11292010
File #: 1011344-05

	Date		
Collected:	11/29/2010	1520	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1657	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	98	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.1	10.00	71	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by: 
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-CM00-11292010
File #: 1011344-06

	Date		
Collected:	11/29/2010	1525	Client
Extracted:	12/02/2010	0830	VCT
Analyzed:	12/13/2010	1721	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			8.9	10.0	89	7.1	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.9	10.0	99	8.8	10.0	88
Dioxathion (trans)	0.400	ND			ND			9.6	10.0	96	7.9	10.0	79
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		6.9	10.00	69	7.1	10.00	71	7.2	10.00	72	7.2	10.00	72

Certified by: Michael S. Bonner

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Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com
WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Ashland Chemical
YOUR COMPANY ADDRESS: 500 Hercules Rd.
Wilmington, DE 19808

NAME OF PERSON TO CONTACT: Tim Hassett
CONTACT PERSON'S PHONE: 251-342-0700 FAX:
CONTACT PERSON'S EMAIL: caleb.dana@eco-systemsinc.com

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

	SAMPLE DESCRIPTION	DATE	TIME	MATRIX	Diazinon 3510/8321 HPLC-PDA	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE
								Turn Around Time: Std.
								Project Number: 1011.344
1	ASH-CM05-11292010	11-29-2010	1445	SW	✓	1	—	BT
2	ASH-CM04-11292010	11-29-2010	1450	SW	✓	1	—	BT
3	ASH-CM03-11292010	11-29-2010	1500	SW	✓	1	—	BT
4	ASH-CM02-11292010	11-29-2010	1505	SW	✓	1	—	BT
5	ASH-CM01-11292010	11-29-2010	1520	SW	✓	1	—	BT
6	ASH-CM00-11292010	11-29-2010	1525	SW	✓	1	—	BT
7								BT
8								BT
9								BT
10								BT

PARAMETERS FOR ANALYSIS

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Chris Tewell	11-29-2010	1600	Glenn Roberts

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS
_____ (Signature)
IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

REVISION NO 1.2
03/22/01

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW16-12022010
File #: 1012042-01

Collected: 12/02/2010 0950 Client
Extracted: 12/04/2010 0800 VCT
Analyzed: 12/15/2010 0104 DGA
Date Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	1.6			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.7	10.00	57	6.77	10.00	68	7.71	10.00	77	7.80	10.00	76

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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW15-12022010
File #: 1012042-02

	Date		Analyst
Collected:	12/02/2010	1030	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0127	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE Detected Amount ug/L (ppb)	SAMPLE Spike Amount ug/L	SAMPLE Spike % Recovery	METHOD BLANK Detected Amount ug/L (ppb)	METHOD BLANK Spike Amount ug/L	METHOD BLANK Spike % Recovery	Lab Control Detected Amount ug/mL (ppm)	Lab Control Spike Amount ug/mL	Lab Control Spike % Recovery	MATRIX SPIKE Detected Amount ug/mL (ppm)	MATRIX SPIKE Spike Amount ug/mL	MATRIX SPIKE Spike % Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	2.9			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	2.8			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		8.2	10.00	62	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-RS3-12022010
File #: 1012042-03

	Date		
Collected:	12/02/2010	1040	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0151	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	1.3			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	0.89			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.4	10.00	74	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW14-12022010
File #: 1012042-04

	Date		
Collected:	12/02/2010	1120	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0215	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	5.1			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	1.0			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		7.8	10.00	76	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW13-12022010
File #: 1012042-05

	Date		
Collected:	12/02/2010	1200	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0239	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW848

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	6.6			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	1.5			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	0.60			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		10.0	10.00	100	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW19-12022010
File #: 1012042-06

	Date		
Collected:	12/02/2010	1235	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0303	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	79.6			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	5.1			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		9.9	10.00	99	6.77	10.00	68	7.71	10.00	77	7.80	10.00	78

Certified by: _____
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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-FD2-12022010
File #: 1012042-07

Collected:	12/02/2010	Client
Extracted:	12/04/2010 0800	VCT
Analyzed:	12/15/2010 0327	DGA
	Date	Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/L (ppb)	Spike		Detected Amount ug/mL (ppm)	Spike		Detected Amount ug/mL (ppm)	Spike	
			Amount ug/L	% Recovery		Amount ug/L	% Recovery		Amount ug/mL	% Recovery		Amount ug/mL	% Recovery
Dioxenethion	0.400	6.3			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	ND			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	ND			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		9.4	10.00	94	8.77	10.00	88	7.71	10.00	77	7.80	10.00	78

Certified by: M.S. Bonner
Michael S. Bonner, Ph.D
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BONNER ANALYTICAL TESTING COMPANY
QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: Ashland Chemical
Sample ID: ASH-MW09-12022010
File #: 1012042-08

	Date		
Collected:	12/02/2010	1335	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0351	DGA

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

		SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
			Spike			Spike			Spike			Spike	
COMPOUNDS	PQL ug/L (ppb)	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/L (ppb)	Amount ug/L	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery	Detected Amount ug/mL (ppm)	Amount ug/mL	% Recovery
Dioxenethion	0.400	ND			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	6.8			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	1.2			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene		5.2	10.00	52	8.77	10.00	66	7.71	10.00	77	7.80	10.00	78

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QUANTITATIVE RESULTS AND QUALITY ASSURANCE DATA
DIOXATHION/ DIOXENETHION HPLC ANALYSIS DATA

Client: **Ashland Chemical**
Sample ID: ASH-MW08-12022010
File #: 1012042-09

Collected:	12/02/2010	1410	Client
Extracted:	12/04/2010	0800	VCT
Analyzed:	12/15/2010	0415	DGA
	Date		Analyst

Sample Type: Water
Extraction Method: SW846 3510C
Analysis Method: Modified SW846

COMPOUNDS	PQL ug/L (ppb)	SAMPLE			METHOD BLANK			Lab Control			MATRIX SPIKE		
		Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/L (ppb)	Spike Amount ug/L	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery	Detected Amount ug/mL (ppm)	Spike Amount ug/mL	Spike % Recovery
Dioxenethion	0.400	310			ND			9.13	10.0	91	7.11	10.0	71
Dioxathion (cis)	0.400	4.3			ND			9.43	10.0	94	8.07	10.0	81
Dioxathion (trans)	0.400	80.1			ND			8.84	10.0	88	8.22	10.0	82
SURROGATE COMPOUNDS		Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery	Detected Amount	Spiked Amount	% Recovery
Naphthalene	*	35.9	10.00	359	6.77	10.00	68	7.71	10.00	77	7.60	10.00	76

*High surrogate recovery due to interference

Certified by:
Michael S. Bonner, Ph.D
BONNER ANALYTICAL TESTING COMPANY

BONNER ANALYTICAL TESTING COMPANY
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Phone: (601)-264-2854 Fax: (601)-268-7084 Email: batco@batco.com
WWW.BATCO.COM

Testing Your World for a Safer Tomorrow

YOUR COMPANY NAME: Ashland Chemical
YOUR COMPANY ADDRESS: 500 Hercules Rd
Wilmington, DE 19808
NAME OF PERSON TO CONTACT: Tim Hassett
CONTACT PERSON'S PHONE: 251-342-0700 FAX:
CONTACT PERSON'S EMAIL: caleb.dana@eco-systemsinc.com

CLIENT PROJECT NO.	CLIENT P.O.#	CLIENT PROJECT NUMBER

SAMPLE DESCRIPTION	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: Dioxin/Furan 3510/8321 HPLC-PDA	NUMBER OF CONTAINERS	PRESERVATION	LABORATORY USE: File ID
1 ASH-FD1-12012010	12-01-2010	—	GW	✓	1	—	BT
2 ASH-MW10-12012010	12-01-2010	1055	GW	✓	1	—	BT
3 ASH-MW04-12012010	12-01-2010	1150	GW	✓	1	—	BT
4 ASH-MW11-12012010	12-01-2010	1230	GW	✓	1	—	BT
5 ASH-RS2-12012010	12-01-2010	1215	W	✓	1	—	BT
6 ASH-MW05-12012010	12-01-2010	1300	GW	✓	1	—	BT
7 ASH-MW12-12012010	12-01-2010	1415	GW	✓	1	—	BT
8 ASH-MW06-12012010	12-01-2010	1400	GW	✓	1	—	BT
9 ASH-MW07-12012010	12-01-2010	1445	GW	✓	1	—	BT
10 ASH-MW24-12012010	12-01-2010	1525	GW	✓	1	—	BT

LABORATORY USE: Turn Around Time: Std.
Project Number: 1012024

SAMPLE COLLECTOR/RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Chris Tervell	12-01-2010	1600	Pam Thompson

METHOD OF SHIPMENT (If Any)	RELINQUISHED BY:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

DATE	TIME	RECEIVED FOR BATCO BY:	DATE/TIME

REMARKS:

☐ REQUEST BATCO TO DISPOSE OF ALL SAMPLE REMAINDERS
_____ (Signature)
IF SAMPLE IS DETERMINED TO BE HAZARDOUS, A MINIMUM ADDITIONAL CHARGE OF $30.00 PER SAMPLE WILL BE ASSESSED.

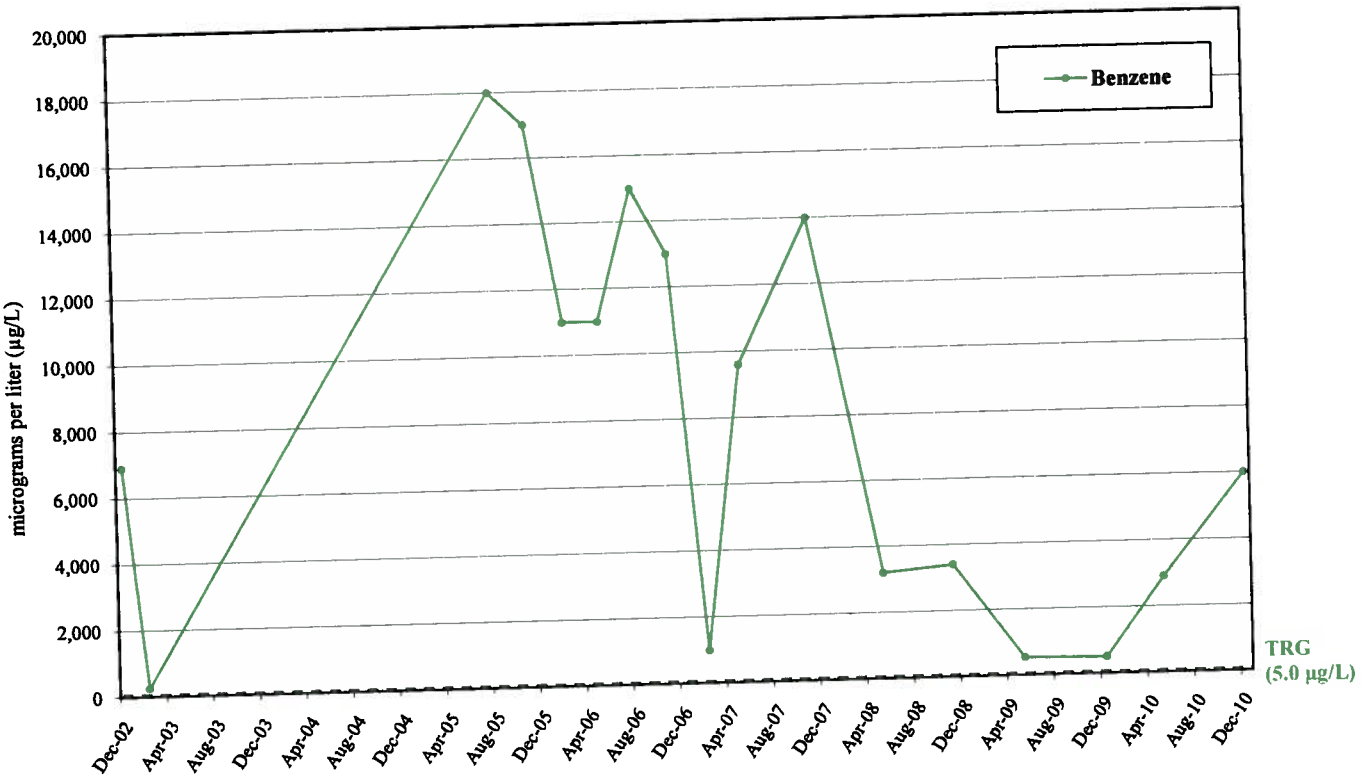
REVISION NO 1.2
03/22/01

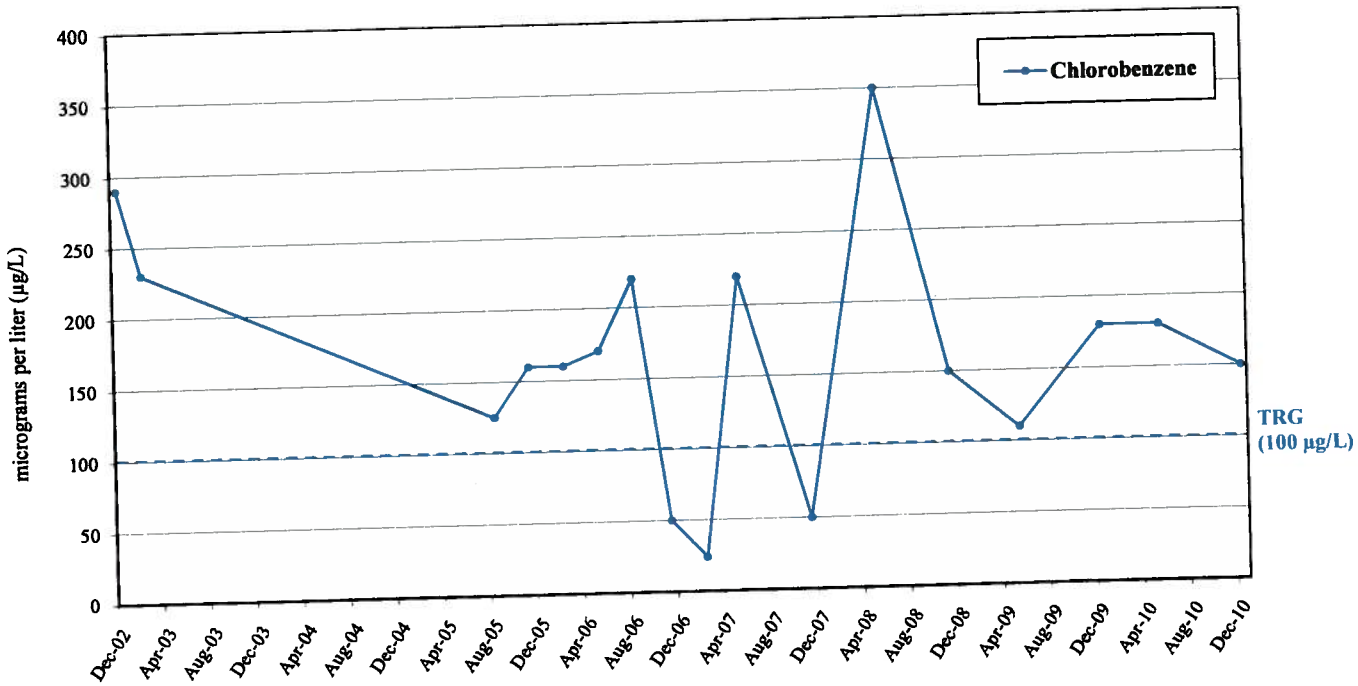
APPENDIX C
CONCENTRATION TREND GRAPHS

VOC CONCENTRATION TRENDS AT MW-08

Hercules Incorporated

Hattiesburg, Mississippi

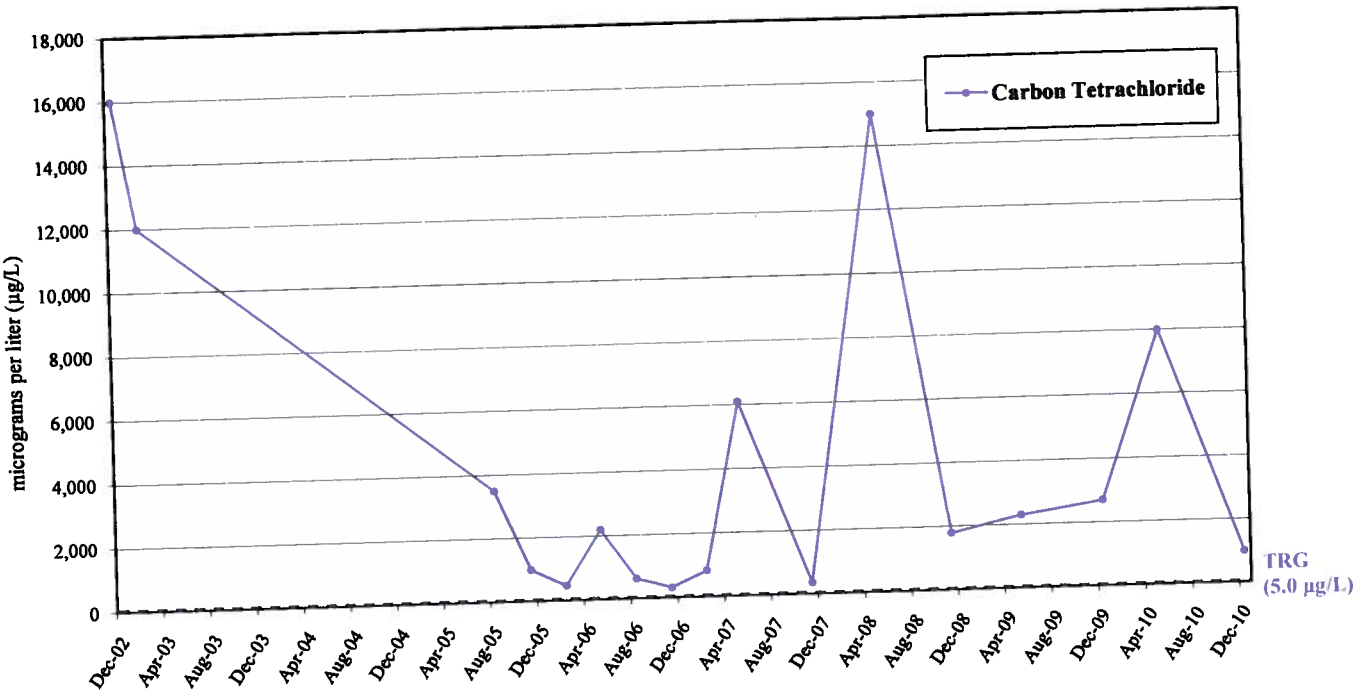


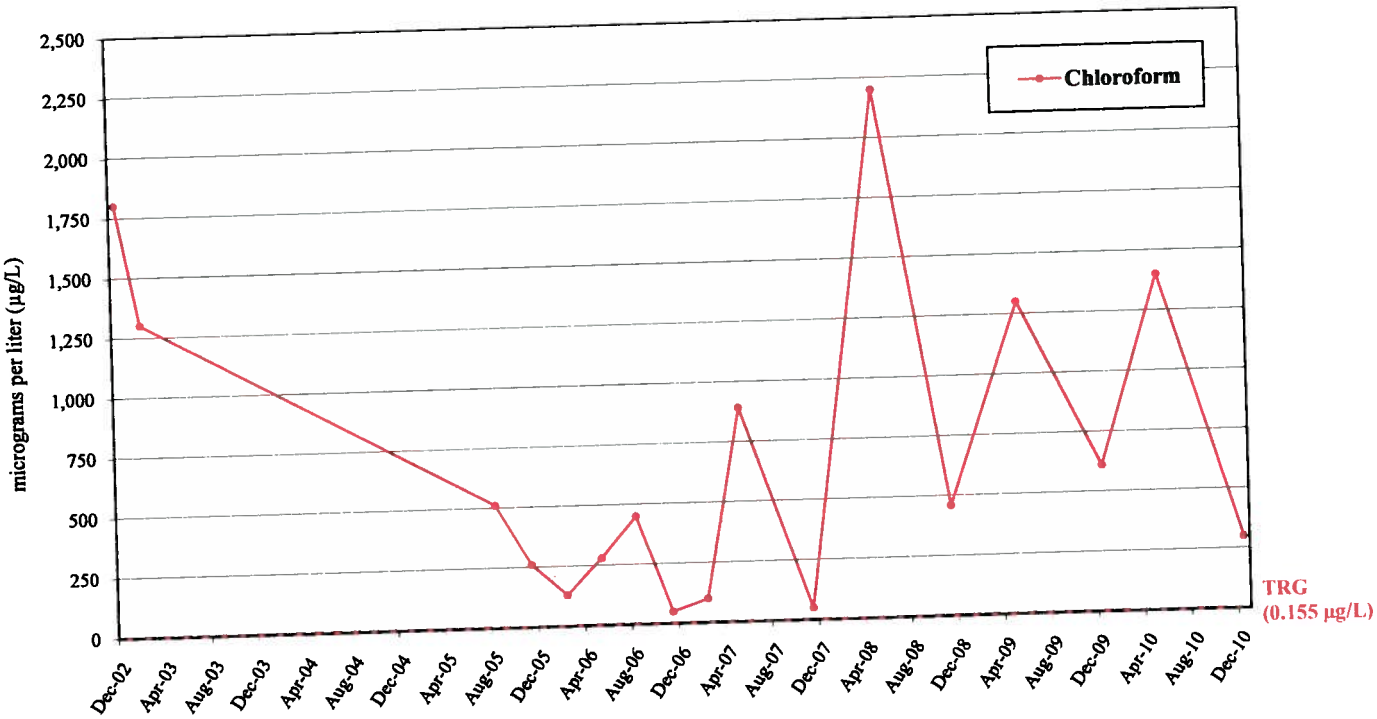


VOC CONCENTRATION TRENDS AT MW-08

Hercules Incorporated

Hattiesburg, Mississippi

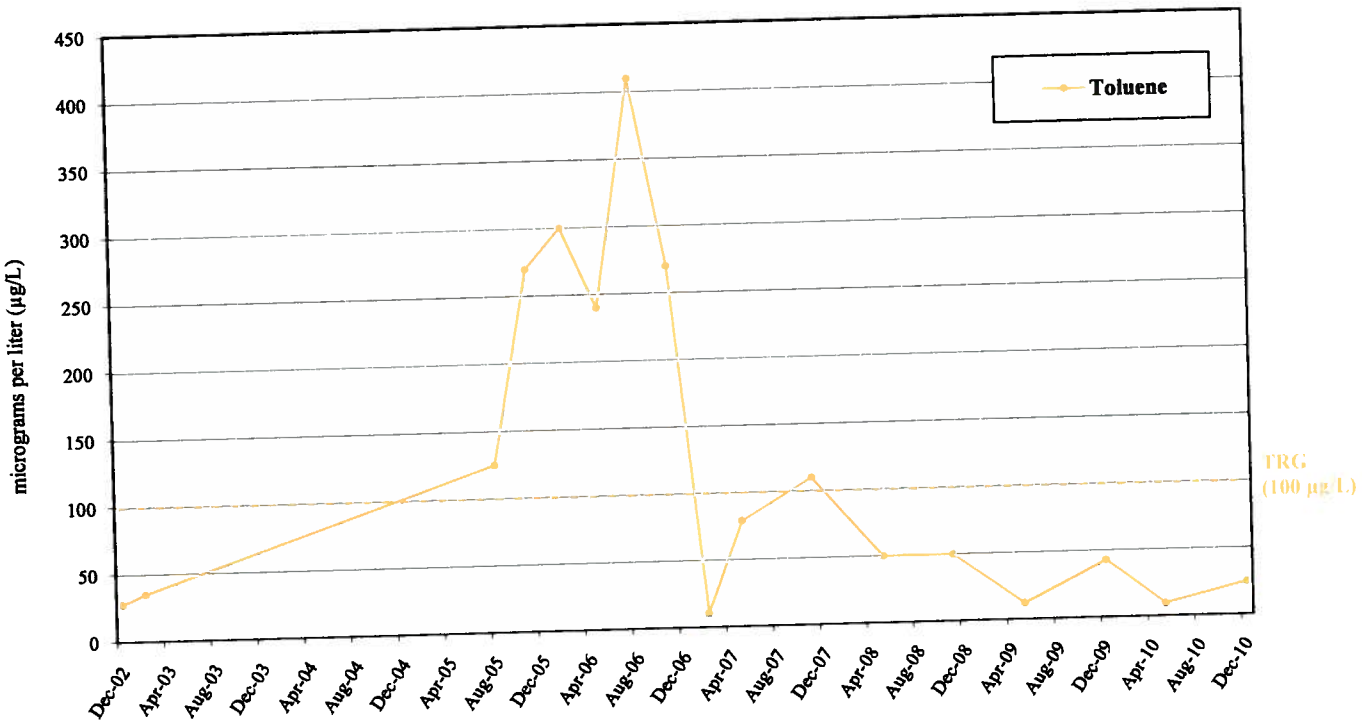


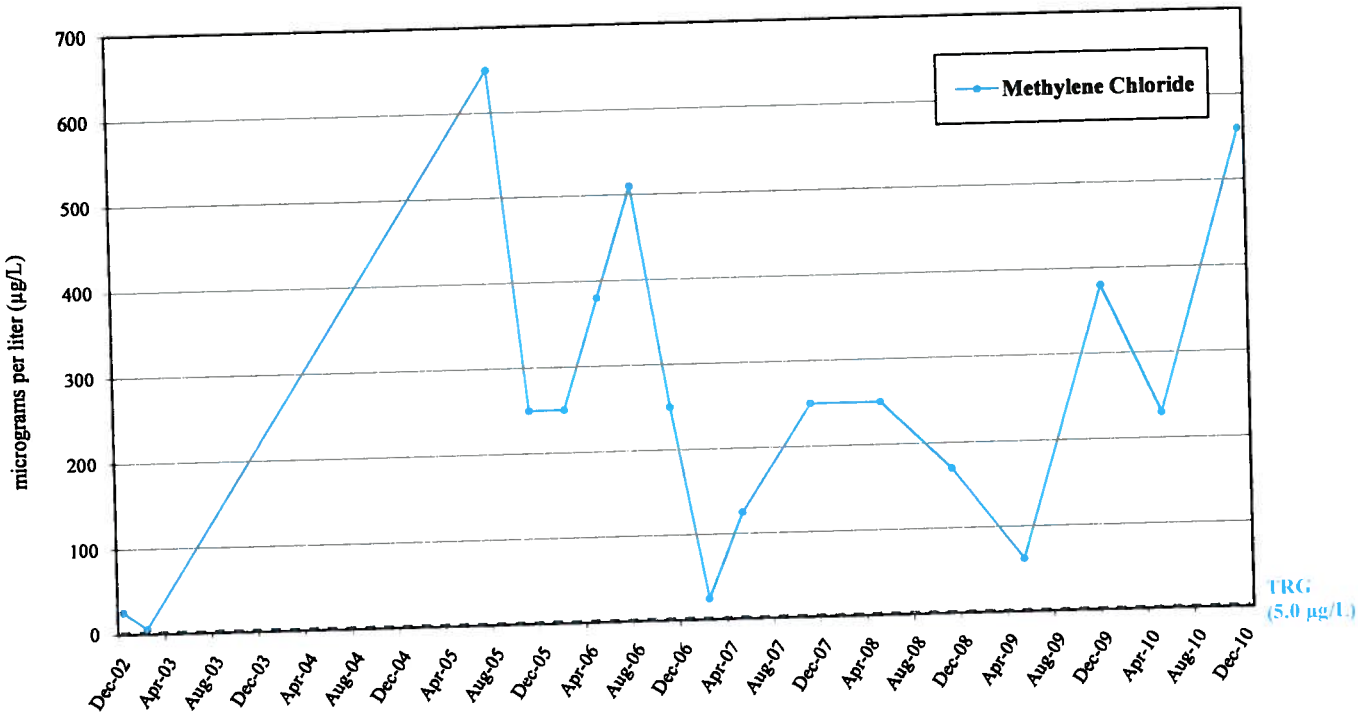


VOC CONCENTRATION TRENDS AT MW-08

Hercules Incorporated

Hattiesburg, Mississippi

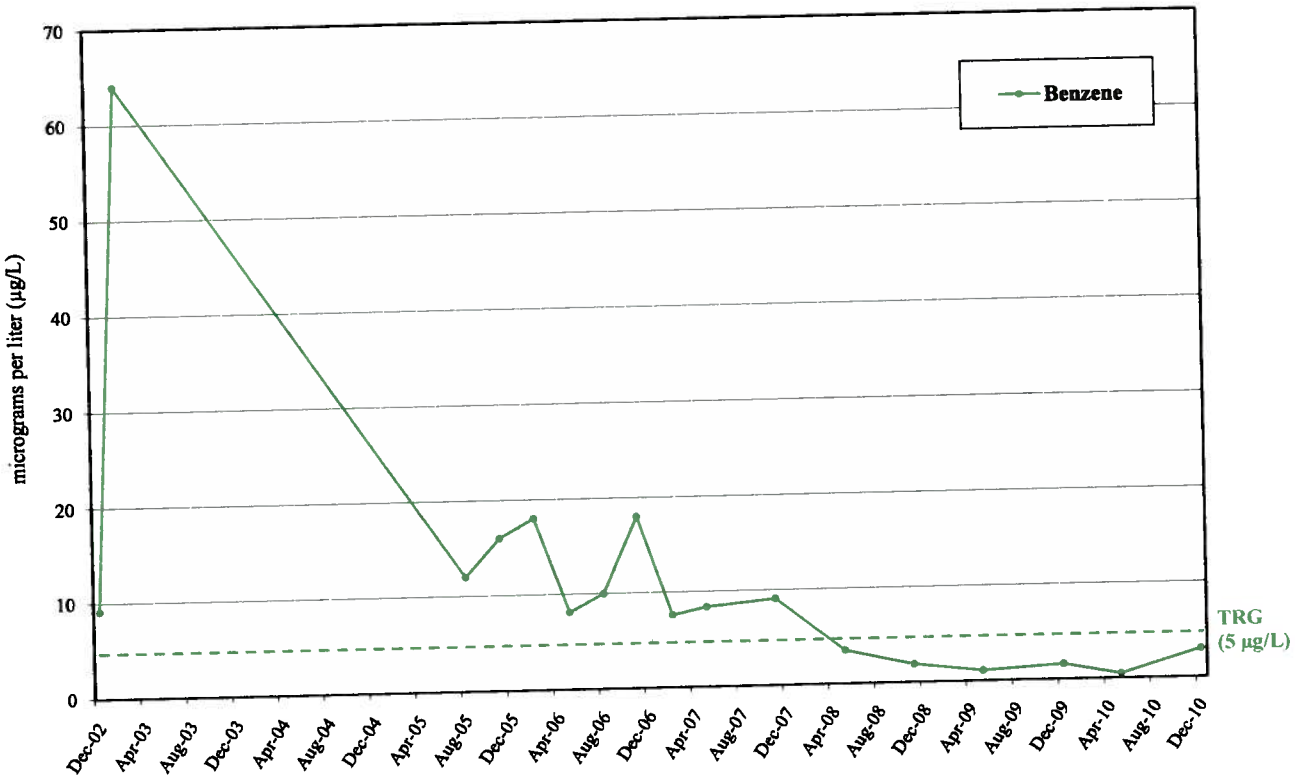




VOC CONCENTRATION TRENDS AT MW-09

Hercules Incorporated

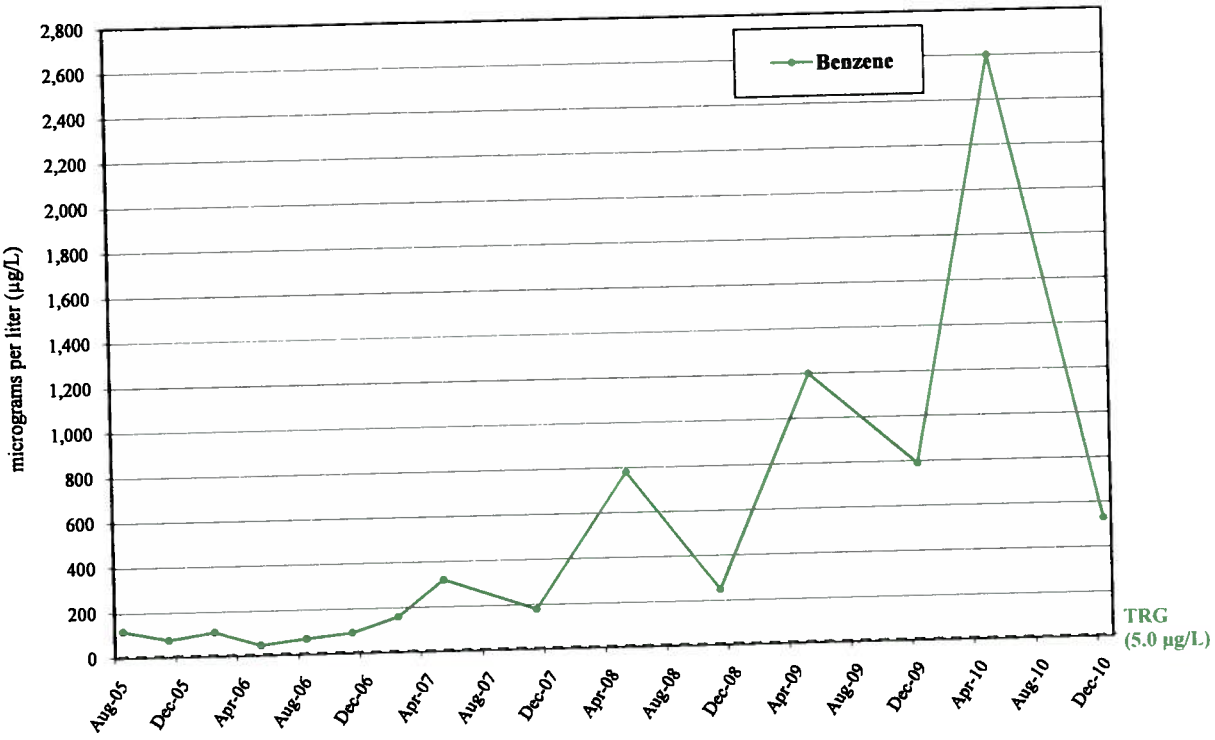
Hattiesburg, Mississippi

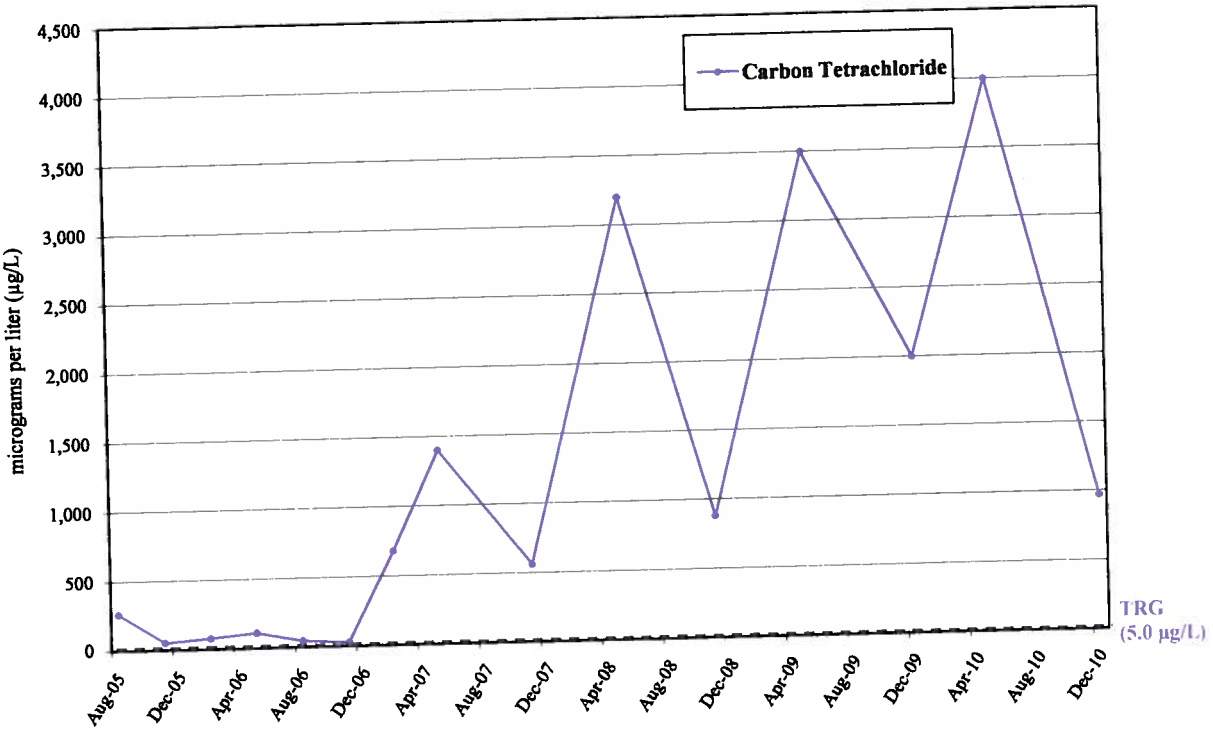


VOC CONCENTRATION TRENDS AT MW-13

Hercules Incorporated

Hattiesburg, Mississippi

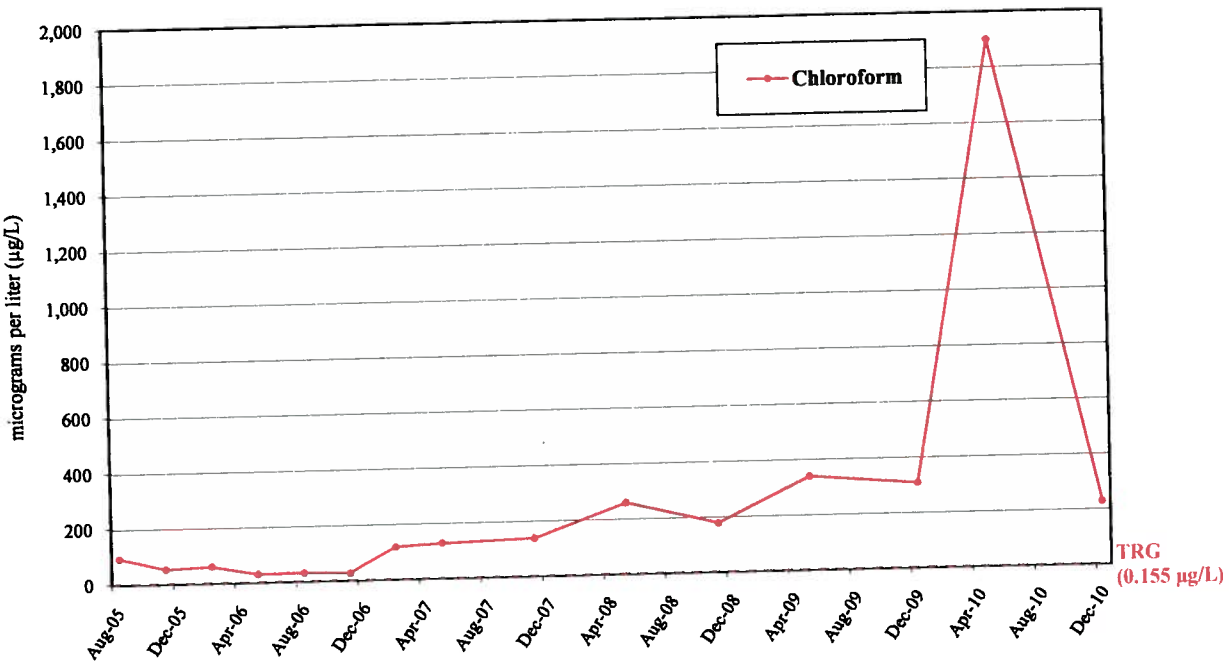




VOC CONCENTRATION TRENDS AT MW-13

Hercules Incorporated

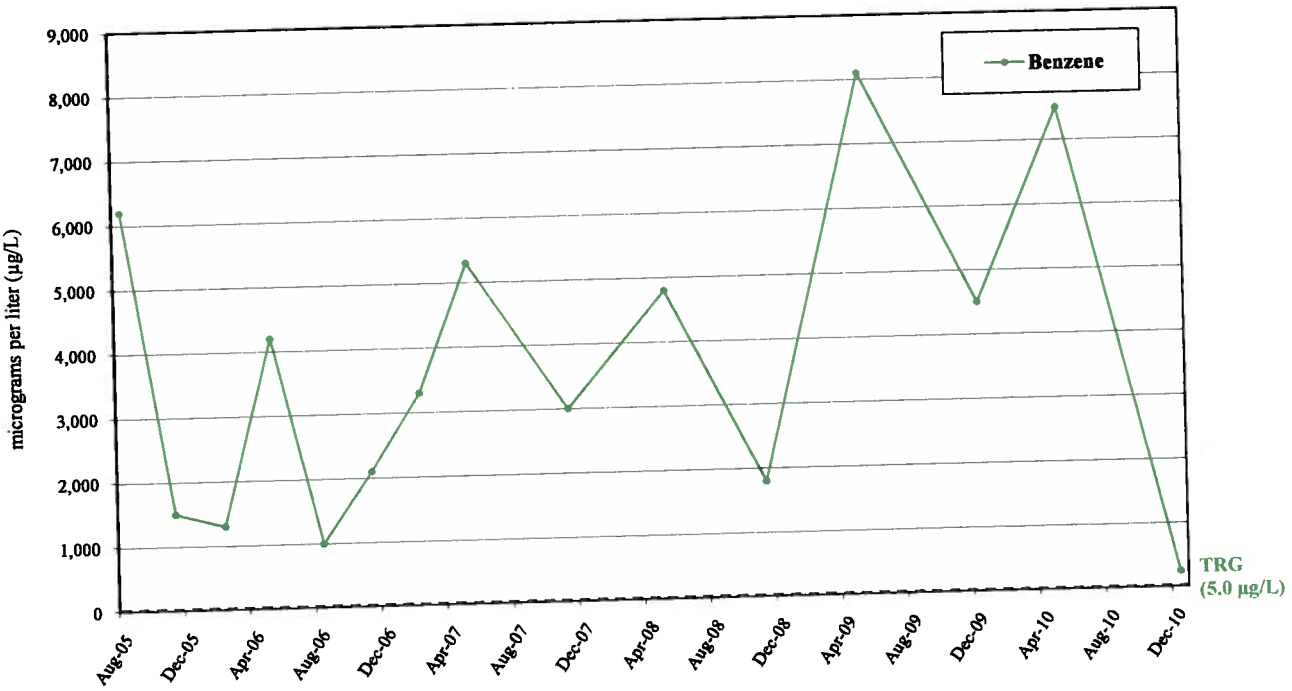
Hattiesburg, Mississippi

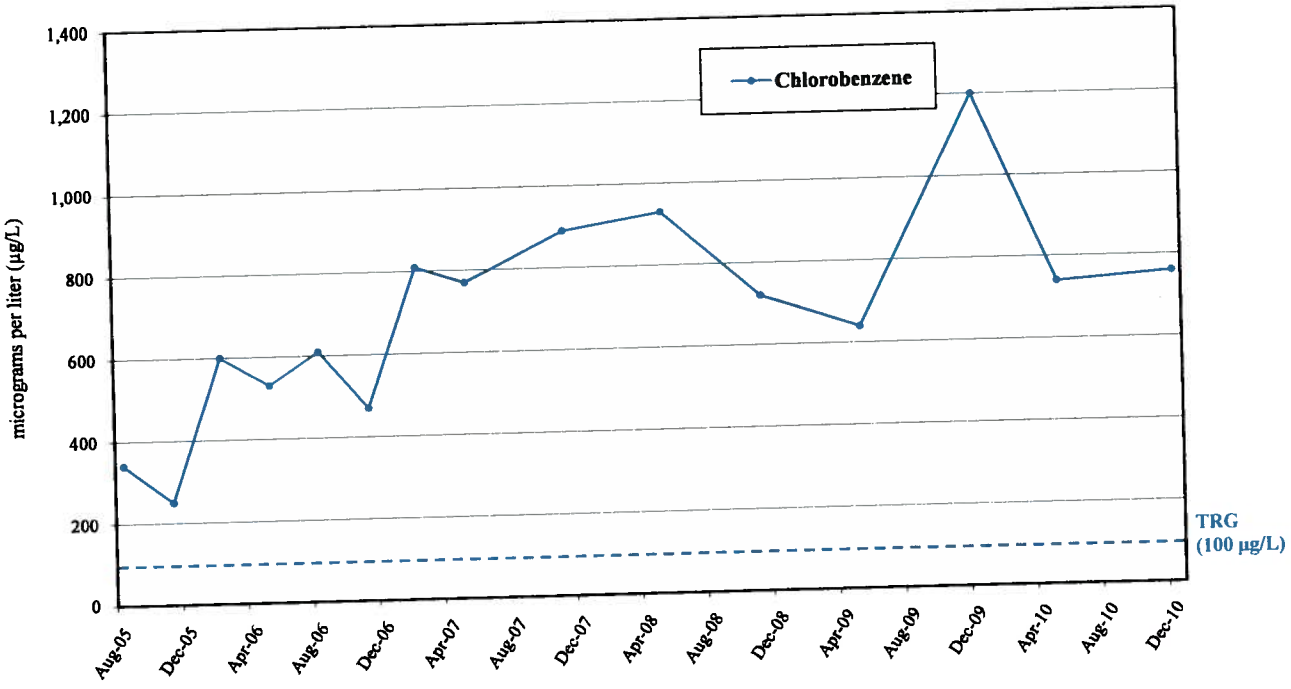


VOC CONCENTRATION TRENDS AT MW-17

Hercules Incorporated

Hattiesburg, Mississippi

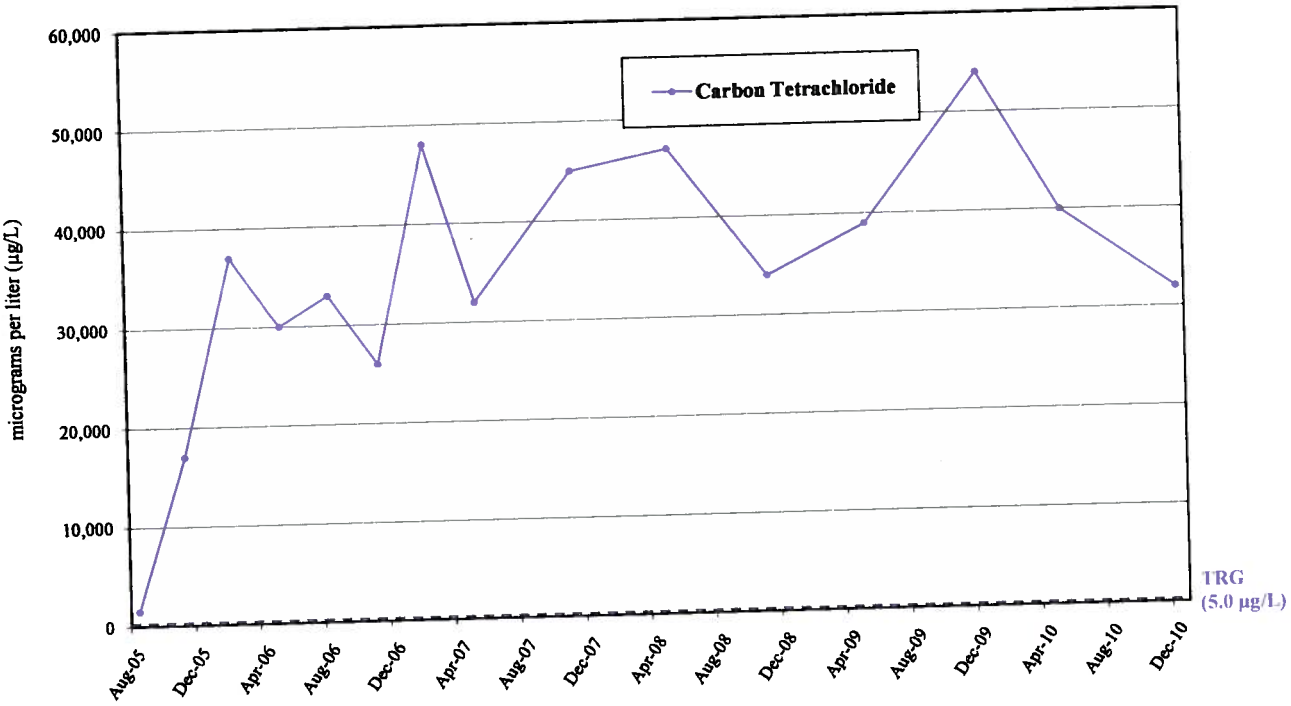


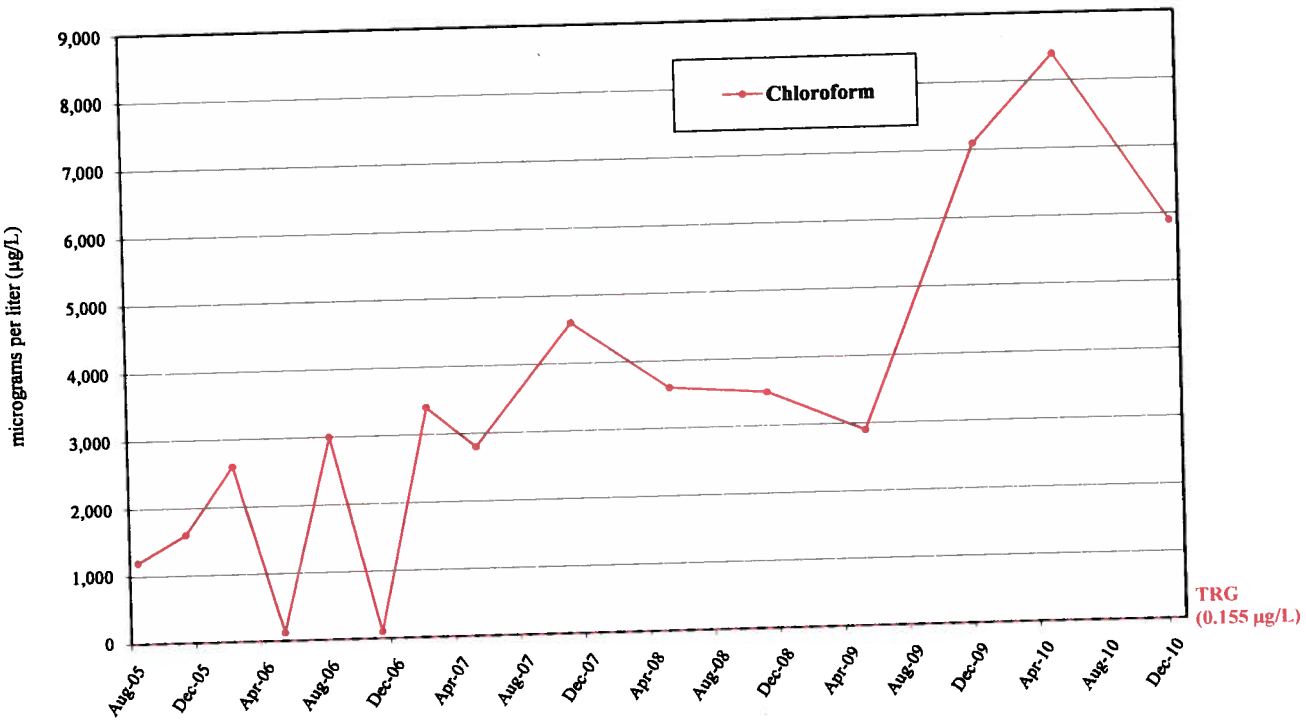


VOC CONCENTRATION TRENDS AT MW-17

Hercules Incorporated

Hattiesburg, Mississippi

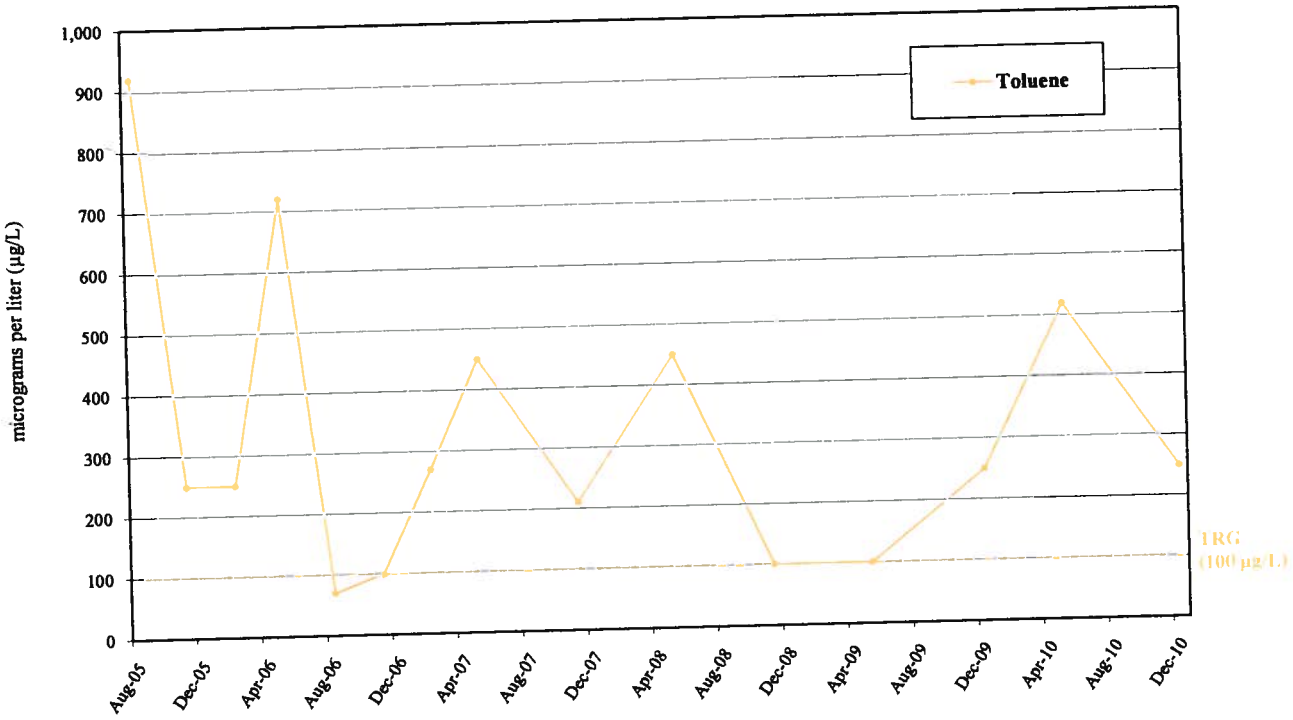




VOC CONCENTRATION TRENDS AT MW-17

Hercules Incorporated

Hattiesburg, Mississippi



VOC CONCENTRATION TRENDS AT MW-19

Hercules Incorporated

Hattiesburg, Mississippi