Tronox LLC, Columbus

MASTERFILE RELATED STATUS ATTACHMENTS TASKS

ID	Branch	SIC	County	Basin	Start	End
1696	Chemical	2491	Lowndes	Tombigbee River	10/27/1992	

Physical Address (Primary)	Mailing Address
2300 14th Avenue North	PO Box 268859
Columbus, MS 39701	Oklahoma City, OK 731268859

Telecom Type	Address or Phone
Work Phone Number	(405) 775-5129

Alt ID	Alt Name	Alt Type		End Date
2808700020	Tronox LLC, Columbus	Air-AIRS AFS	10/12/2000	06/01/2002
16000000	Kerr McGee Chemical Corporation, Columbus	Air-Construction	06/12/1998	
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/06/1997	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/12/1998	06/01/2002
MSR220010	Kerr McGee Chemical Corporation, Columbus	GP-Wood Treating	10/27/1992	07/13/1997
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-EPA ID	10/12/2000	
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-TSD	06/11/2001	
MSD990866329	Tronox LLC, Columbus	Hazardous Waste-TSD	04/13/2006	05/31/2011
1696	Kerr McGee Chemical Corporation	Historic Site Name	10/27/1992	04/10/2006
1696	Tronox, LLC	Official Site Name	04/10/2006	
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water - Pretreatment	10/11/1994	10/10/1999
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water - Pretreatment	08/23/2000	07/31/2005
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water - Pretreatment		04/12/2006
MSP090021	Tronox LLC, Columbus	Water - Pretreatment	04/13/2006	09/30/2010

Program	SubProgram	Start Date End Date
Air	NSPS Subpart Dc	09/12/1990 06/01/2002

Air	SM	06/06/1997	06/01/2002
Hazardous Waste	Large Quantity Generator	04/01/1997	
Hazardous Waste	TSD - Not Classified	06/11/2001	
Water	PT CIU	10/11/1994	09/01/2003
Water	PT CIU - Timber Products Processing (Subpart 429)	10/11/1994	09/01/2003
Water	PT NCS	09/01/2003	
Water	PT SIU	10/11/1994	

Latitude	Longitude	Metadata		Map Links
33 ° 30 '	88 ° 24 '	Point Desc: PG - Plant entrance	1	SWIMS
	34 .02	(General) Data collected by Louis		Google Maps
(033.510697)			Range:	<u>MapQuest</u>
(Entrance (General) Data collected by		
i.i.		Clift Jeter on 6/13/02. LAT 33deg		
		30min 36.6sec LON 88deg 24min		
		35.1sec	=	
	=	Method: GPS Code (Psuedo Range)	20	
		Differential		
11 11		Datum: NAD83		
		Type: MDEQ		

5/8/2008 2:57:11 PM

KMCC - FPD Facility - Columbus, MS

Month:

December. 07

Permit Requirem Unit of Measurer		0&	G	PHEN	DLS	рН
ome or modouror		(XXXXXXXX	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XXXXXXXXXX	XXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	35,433					
2	35,434					
3	34,900					6.7
4	35,300					
. 5	35,500					
6	36,400					
7	35,666	7	2.08	10.9	3.24	
8	35,667					
9	35,667					
10	34,600					6.6
11	35,200					
12	35,400	Ų.			,	
13	33,800					
14	34,234					
15	34,233	E.		1		
16	34,233				_	
17	34,400					6.6
18	34,700					
19	33,100					
20	34,800		. =		1	<u> </u>
21	34,366	6	1.72	14.85	4.25	
22	34,367		ь			
23	34,367					
24	34,650			· ·		6.6
25	34,650					
26	34,800					<u> </u>
27	35,600					
28	35,133		· · · · · · · · · · · · · · · · · · ·	1		
29	35,133			†		
30	35,135					
31	35,200					6.6
Avg.	34,905	6.5	1.9	12.88	3.75	6.62
Max.	36,400	7	2.08	14.85	4.25	6.7
Min.	33,100	6	1.72	10.9	3.24	6.6

Jan. 7, 2008

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS000023

3107 Tabernacle Road Columbus, MS 39702 Attn: Roland Hill TRONOX, LLC

-						
	4038			3915		Lab 10 #
	Effluent			Effluent		Sample Description
	12/21/2007			12/7/2007		Date Received
OIL & GREASE	TOTAL PHENOLS		OIL & GREASE	TOTAL PHENOLS	a s	Parameter
6 mg/l	14.85 mg/l		7 mg/l	10.90 mg/l		Sample Result
		**				Result of Standard
					2.	Acceptable Range of Standard
1664	420.1		1664	420.1		Method

Approveds

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL AWALYSES AND/OR STANDARD METHODS 20th EDITION

	ml vial Ice Preserv Proper Contain	G A 40	Receipt: Temp	mple Condition Upon
HISO4, NAOH, HUO		C b 172	N	Thiosulfate Present Y
H2SO4, NaOH, HVO		C b 520		
HZSO4, NaOH, HUO		C b 200		
ONH ,HOSN , FOSTE		Type Siz	Quantity ?	mple Container:
	DEGGGGG	42 0T		
	mq ms	eniT 91	B.O.	eived by:
				Client:
			30.53	(For Lab use only)
1'8 /01/01	947	J1:8 L	0/11	WIN
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Date/Time	ceived by:	Time Re	: Datel	d behinpnileft
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116 69421 ~	MIN WINE	rath oxid Co-r	ter dil	81
	0.1	2007	ram (T	Kd bəhziupniləA
Date/Time	. V . : A pakið:	Alime Rec		A bodoinzaile
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		3118 184 I		M
Time:	DO Meter: Date	e: Time:	Buffers Dat	librations: pH Meter
	(Description)	\triangle		
	Lester alleral	Other of	Wastewater	atrix: Water
1. 数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数数				
	Skin Irritant	Hazard mmable		Hazard Ide

	Specify Date	usny	InmoN :smiT ban	Turn aro
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ud ur on	J:9miT 7 <u>0-7/4</u> 1:	Lile Date	11-1	Collected by:
2	Flow	DO Ten	H _d	Residual Cl
		VI met		- 8
(Grab)	Comp. Hr.	Lien Thesol?	scription: التراورا	ad aloms2
The contract of the second				
		X No L. J.	11-,,,,,,,,	

Return Client

Disposal by Lab

Sample Disposal:

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 4038

Cli	ent: Thedox	L.L.C.		
Sample Descript	ion: <u>FFF/vevT</u>	weiR Com	pHr.	Grab
Residual Cl	pH DO	Тетр	Flow	
Collected by:	1. P. Ilul	_ Date: <u>(之:</u>	الم Time: الم	o am pm
Turn around Tir	ne: Normal	Rush	Specify Date	
Hazard Identificat	ion: Non HazardFlammable	Skin Unki	Irritant 10wn	
Matrix: Water/Waste	water Other	Jan D Descri	- 1 - 5 t st 1 (
Calibrations: pH Meter Buffe	ersDate:]	4 C. F.	Meter: Date	Time:
Requested Lab Ana	alyses:		Metals	Other
Hq	Carb BOD	TKN	1/201415	Other
DO	Fecal	TOP		
BOD	Ammonia-N	Nitrate		
TSS	Qil & Grease	Phenois		
COD	Alkalinity	Res Cl		
Relinquished by:	Date/Time	Received b	y: (\)	Date/Time
LP./lu	e 13/207	Nie	2012-	14/2/1076:50
Relinquished by:	Date/Time	Received i	by:	Date/Time
MM	12/2/09 8:35		AS	12/2/078:35
(For Lab use only)	100			
Client:				
Received by:	Date	Time	am pm	
	antity Type G P	Size 1 L	Preserve Ice Ice& H2S	04, NaOH, HNO3
	G P	500 ml		O4, NaOH, HNO3
Thiosulfate Present Y N	G P	250 ml		O4, NaOH, HNO3
I mosumate present I in	G P G A	125 ml 40 ml vial	Ice; Ice & H2S	O4, NaOH, HNO3
Sample Condition Upon Receipt	: Temp Deg. C. <u> —</u>	<u> </u>	Preserved Proper Container	ON N
Sample Disposal: Return to	ient Disposal by Lab	Archi	v (

TRONOX LLC - Columbus, Ms

2007 Metals & Organics Yearly Report

	mit Requirements t of Measurement		nic	Сорр	oer	Chromium Pentachlo		rophenol	
Date	Flow	· mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs
3/1/2007	49,900	0.0138	0.0057	NODI-B	NODI-B	NODI-B	NODI-B	NODI-B	NODI-B
5/8/2 0 07	41,660	0.0128	0.0044	NODI-B	NODI-B	NODI-B	NODI-B	0.022	0.076
7/25/2007	41,000	NODI-B	NODI-B	0.0023	0.0008	NODI-B	NODI-B	0.029	0.099
12/4/2007	35,300			Ė		18		0.024	0.0071
									Ĺ
Avg.		0.0089	0.0034	0.00077	0.00026	NODI-B	NODI-B	0.019	0.046
Max.		0.0138	0.0057	0.0023	0.0008	NODI-B	NODI-B	0.029	0.099
Min.		NODI-B	NODI-B	NODI-B	NODI-B	NODI-B	NODI-B	NODI-B	NODI-B



2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1068204. Samples arrived at the laboratory on Wednesday, December 05, 2007. The PO# for this group is ZSAL4CEOK0A50205.

Client Description Effluent_Weir Grab Water Sample

Lancaster Labs Number 5227806

ELECTRONIC

Tronox LLC

Attn: Sherron Hendricks

COPY TO I COPY TO

Tronox LLC

Attn: Richard Allison

I COPY TO

Tronox LLC

Attn: Robert Pounds

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Chad A. Moline Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. WW 5227806

Effluent_Weir Grab Water Sample Quarterly Wastewater-Columbus, MS

Collected:12/04/2007 06:54

by DA

Account Number: 11947

Submitted: 12/05/2007 09:50 Reported: 12/13/2007 at 12:40

Tronox LLC P.O. Box 268859

Discard: 02/12/2008

Oklahoma City OK 73126-8859

WEIRE

SDG#: KMM91-01*

I 5E w

No.

As Received

CAT As Received

Method

Dilution

CAS Number

Detection

Units Factor

04678 TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

Analysis Name

87-86-5

3.

ug/l

1

All OC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

		Laboratory	CIIIO	птсте		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846	SW-846 8270C	1	12/09/2007 20:36	Linda M Hartenstine	
00813	Semivolatiles/Waters' BNA Water Extraction	SW-846 3510C	1	12/09/2007 11:00	Mariam G Attalla	1



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Page 1 of 1

Quality Control Summary

Client Name: Tronox LLC

Reported: 12/13/07 at 12:41 PM

Group Number: 1068204

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 07342WAA026 Pentachlorophenol	Sample nu N.D.	umber(s):	5227806 ug/l	98		48-108		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 07342WAA026 Pentachlorophenol	Sample n	number(s)	: 5227806 9-130	UNSPK:	P2277	94			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batten num	Der: 07342WAA026 2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
5227806 Blank LCS MS MSD	67 64 74 55	47 39 50 36 40	94 103 106 98 100	
Limits:	10-103	10-82	20-159	

*- Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acci. # 1947

Group# | Dulany Sample #5 37 80 C For Lancaster Laboratories use only

COC # 0079651

(1)	 instructions on reverse side correspond with circled numbers. 	numbers.		
Client: 1/2020 X C.C. Acct. #;	くうこと	Z Z	Analyses Routherlad	I ob the Oat.
193			NATIONAL PROBLEMS OF THE PARKET	FSC:
Herris BO#	17 10 10 10 10 10 10 10 10 10 10 10 10 10	//		
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e samples were collected: (2/wakus 1/5	NOO	/		ewiban Kawee
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Ettlest were 124/17 0654 X	×	-		
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Turnaround Time Requested (TAT) (please circle). Normal Rush Relinguished by	bed by: *	Date Time	Received by:	м
Date results are needed:	100	~>		JAC/H/H/S
Rush results requested by (please circle): Phone Fax E-mail Relinquished by:		Date Time	Z Z	1
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	had by:	Date Time	Received by:	Oate Time
e Option	/	_		_
OC Summary Type VI (Raw Data) Yes No Relinquished by:	hed by:	Date Time	Received by:	Date Time
Other (if yes, indicate QC sample and submit triplicate volume.)				
ed. Del.)		State Time	Received by:	Date Time
Iype IV (CLP)			人では「	INST PRIS

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meg	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ī	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of guantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A B C	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS	B E M	Value is <crdl, but="" ≥idl<br="">Estimated due to interference Duplicate injection precision not met</crdl,>
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
j	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits Correlation coefficient for MSA <0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

603 GILLESPIE STREET ENVIRO-LABS, INC.

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) P. O. BOX 1096

Oct. 29, 2007

USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacie Road
Columbus, MS 39702

Sample Date Sample Sample Description Received Parameter Result
d Parameter
Sample Result
Range of Standard

	3516		3428
	Effluent		Effluent
	10/19/2007		10/5/2007
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS
7 mg/l	9.95 mg/l	6 mg/1	6.45 mg/l
	300 17.7324252623	8181718181	3 BEST 189 1077 72 189 189 189 189 189 189 189 189 189 189
1664	420,1	1664	420.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMIÇAL AMALYSES AND/OR STANDARD METHODS 20th EDITION Approved

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 3428

Sample Descri	intion: FFF	DET WEIR Com	n. Hr.	Grab
5	peron. <u>/C / / 10</u>	WI JOE IN COM		
Residual Cl	pH DO		Flow	
25/	1016	Date: 10/3	a = 7 Timos (7/s	3 am
Conected by:	16-6. Jun	Date: 7 0/3	-67 Time: 1.0	<u>Z</u> am pm
Turn around	Time: Normal	Rush	Specify Date	
Hazard Identifi			Irritant	
	Flamma	ible Unk	nown	
Matrix: Water/Wa	ıstewater	Otherologun	Werel	
		(Descri	ption)	
Calibrations: pH Meter B	uffers Date:	Time: De) Meter: Date	Time:
Requested Lab A	Analyses:			
•	•		Metals	Othe
pH	Carb BOD_			
DO	Fecal_	TOP		
BOD	Ammonia-N			
TSS COD	Oil & Grease_ Alkalinity			
СОБ	Alkalility_	Res Ci		
Relinquished by:	Date/Time	Received	by:	Date/Ti
20			1 mil-0	11-12
1.1.	lui 10:507	7. gothar JA	chely 1-10-	195/07
Relinquished by:	Date/Time	Received	by:	Date/Tin
M. M	. delat d	136	1/12 h	10/5/07
14/M	10/5/07 8			10/5/01
(For Lab use only)				
Client:	59			
Received by:	Date	Time	am pm	
Sample Container:	Quantity	ype Size	Preserve	
	<u> 2</u> (G	P 1L	lee; Ice& H2S Ice; Ice & H2S	
	G	P 500 ml	Ice; Ice & H2S	
Thiosulfate Present Y N	G	P 125 ml	Ice; Ice & H2S	
	G		Ice	
	ceipt: Temp Deg.	c A	Preserved Proper Container	(V N
Sample Condition Upon Rec	eint Temn Hea	. –	E (CAE (VC))	- A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Lab I.D. # 35/6 Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Client: There's LLC Sample Description: EFF West west Comp. Hr. DO _____ Flow Residual Cl Collected by: LA. 1/w Date: 1219-07 Time: 700 mm pm Turn around Time: Normal Rush Specify Date Hazard Identification: Non Hazard Skin Irritant Flammable Unknown Matrix: Water/Wastewater Other Tlours WETEL (Description) Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Requested Lab Analyses: Metals Other рH Carb BOD TKN DO Fecal TOP BOD Ammonia-N Nitrate TSS Oil & Grease Phenols? COD Alkalinity Res Cl Relinquished by: Date/Time Received by: Date/Time Received by: Date/Time Relinquished by: Date/Time 10/19/07 8:50 (For Lab use only) Client:____ Received by: Date Time am pm Sample Container: Quantity Size 1 L Ice; Ice& H2SO4, NaOH, HNO3 500 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 Thiosulfate Present Y N P 125 ml Ice; Ice & H2SO4, NaOH, HNO3

40 ml vial

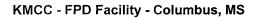
Preserved

Proper Container

Sample Disposal: Return Disposal by Lab Arch Arch

Sample Condition Upon Receipt:

Temp Deg. C. 4



Month:

Min.

32,500

6

October. 07



ermit Requirement nit of Measurement		O&G		PHEN	pН	
		XXXXXXXXX	xxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	34,600					6
2	35,500					
3	34,900					
4	34,400		-			
5	35,166	6	1.76	6.45	1.89	4
6	35,167					
7	35,167					6
8	34,600					
9	33,100					
10	35,900					
11	34,400					
12	34,533					
13	34,533			=		
14	34,534					
15	34,100	-				6
16	34,500	Ť.				
17	32,500					
18	33,000					
19	34,000	7	1.98	9.95	2.82	
20	34,000					
21	34,000					
22	34,400					6
23	34,400					
24	35,900	=				
25	37,000					
26	37,200					
27	37,200					
28	37,200					
29	37,400					
30	37,400					
31	36,900				 	
Avg.	35,084	6.5	1.87	8.2	2.36	6
Max.	37,400	7	1.98	9.95	2.82	
						

1.76

6.45

1.89

KMCC - FPD Facility - Columbus, MS

Month:

September. 07

ermit Requirement nit of Measurement		0&0	9	PHENC	LS	рН
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	36,200					
2	36,200					
3	35,600					6.
4	36,000					
5	35,200					
6	34,300					
7	34,533	8	2.3	15.5	4.46	
8	34,533					
9	34,534				1181920273	
10	36,100	2		18		6.
11	35,000			13,	Sall Sall	12
12	34,600			12	131 Va	No.
13	35,300			्रंट		8
14	37,166			5	10.00	\\\
15	37,167			150	· PER	7
16	37,167				CE 21-10	
17	36,500					6.
18	36,300					
19	36,600					
20	35,500	7	2.07	7.7	2.28	
21	35,700					
22	35,700					
23	35,700					
24	34,900			11		6.
25	36,000					
26	35,300					
27	36,600					
28	36,233					
29	36,233					
30	36,234					
31						
Avg.	35,770	7.5	2.19	11.6	3.37	6.5
Max.	37,167	8	2.3	15.5	4.46	6
Min.	34,300	7	2.07	7.7	2.28	6.

Oct. 9, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> 3107 Tabernacie Road Columbus, MS 39702 Attn: Roland Hill TRONOX, LLC

Lab ID#
Sample Description
Date Received
Parameter
Sample Result
Result of Standard
Acceptable Range of Standard
Method Usad

	3307		3196
	Effluent		Effluent
	9/20/2007		9/7/2007
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS
7 mg/l	7.70 mg/l	8 mg/l	15.50 mg/l
	150203031 - 150200000000000000000000000000000000000	89 1011 TO	15 16 17 18 19 20
1664	420.1	1664	420.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD MENHODS 20th EDITION

Enviro-Labs, Inc. 603 Gillespie St.

16	7	*	TD.	qeŢ
	-	-		

Disposal by Lab Sample Disposal: Returp to Client Proper Container Preserved Temp Deg. C. Sample Condition Upon Receipt: ь Laiv lat 04 Ice; Ice & H2SO4, NhOH, HNO3 im 221 Thiosuffate Present Y N Ice; Ice & H2SO4, NaOH, HNO3 1m 02s Ice: Ice & H2SO4, NaOH, HNO3 la 002 Ice Iced H2504, NaOH, HNO3 IL Preserve Size Sample Container: am pan _9miT Date Received by: Client: (For Lab use shily) Date/Time Received by: Date/Time Date/Time Relinquished by: Res Cl Alkalinity COD Thenols Oil & CTease SSL Nitrate M-sinommA BOD TOP Fecal DO LKN Carb BOD Hq 19410 Medals Requested Lab Analyses: DO Meter: Date रांकर: Dates Calibrations: pH Meter Buffers (Description) Water/Waslewater Matrix: MYOUND Flammable Skin lrritant Hazard Identification: Specify Date Kush Mormal Turn around Time: Date: May Time: Z. ang ans Collected by: Flow _dms_T 00 Hq Residual Cl Grab .hH Sample Description: [-[-[-]-] Starkville, MS 39759

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	Proper Contain	,	Temp weg. c	าส์เอาอา	ample Condition Upon I
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H2SO4, NAOH, HUO3		[m 022	C b		
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n (8		Kes CI	Alkalinity	,	
	- -				COD
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1005#1	I.i da.i				Enviro-Labs, In

KMCC - FPD Facility - Columbus, MS

Month:

August. 07

mit Requirem t of Measuren		08	G	PHEN	ULS :	pH	
OI MEASULEI	XX	XXXXXXXX	XXXXXXXXXX	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU	
1	38,900						
2	32,200						
3	31,966	6	1.6	9.75	2.59	<u> </u>	
4	31,967					,	
5	31,967						
6	40,200					6	
7	38,900						
8	37,900						
9	37,300						
10	34,133						
11	34,133					,	
12	34,134				_		
13	39,000					6	
14	37,900						
15	37,400						
16	36,000						
17	37,233	6	1.86	9.45	2.93		
18	37,233						
19	37,234						
20	36,200					6	
21	36,400						
22	31,000	611	213141576				
23	37,600	910					
24	35,866	/5	U. (1)				
25	35,867	- (G	TO FILL				
26	35,867	en e	Ö	T .			
27	36,500	12	Á			(
28	36,700	160	74752627282				
29	36,000	(E)	\$257282	N.			
30	36,800						
31	36,200						
Avg.	36,023	6	1.73	9.6	2.76	6.	
Max.	40,200	6	1.86	9.75	2.93		
Min.	31,000	6	1.6	9.45	2.59	(

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

Aug. 20, 2007

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

> TRONOX, LLC
> Attn: Roland Hill
> 3107 Tabernacle Road Columbus, MS 39702

×	3052		2947	e e	Lab ID #
	Effluent		Effluent		Sample Description
	8/17/2007		8/3/2007		Date Received
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS		Parameter
6 mg/l	9.45 mg/l	6 mg/l	9.75 mg/l		Sample Result
1000	\$1213147578	11/18/1920212223			Result of Standard
12345	56282128293	0212223			Acceptable Range of Standard
1664 .	420.1	1664	420.1		Method Used

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL

ANALYSES AND/OR STANDARY METHODS 20th EDITION

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 2947

	Client: Thewox LLC.
	Sample Description: FFF SENT WEILCOMP. Hr. Grab
	Residual Cl pH DO Temp Flow
	Collected by: Let Lil Date: 3/307 Time: 6:15 am pm
	Turn around Time: Normal Rush Specify Date
	Hazard Identification: Non Hazard Skin Irritant Flammable Unknown
	Matrix: Water/Wastewater Other
	(Description) Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
	Requested Lab Analyses:
1	Metals Other Carb BOD TKN
•	Pecal TOP
	BOD Ammonia-N Nitrate
	TSS Phenols Phenols Res Cl
	COD Alkalinity Res Cl_
8	Religionished by: Date/Time Received by: Date/Time
	18 1 live 9/3 p. 7 6:15 For 5 lle Volg w 8/3/07 8:0
	Relinquished by: Date/Time Received by: Date/Time
	MIN 8/3/07 8:30 SAM 8/3/07 8:3
	(For Lab use only)
	Client:
	Received by: Date am pm
	Sample Container: Quantity Type Size Preserve
	G P 1 L Ice; Ice& H2SO4, NaOH, HNO3 G P 500 ml Ice; Ice & H2SO4, NaOH, HNO3
	G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3
	Thiosulfate Present Y N G P 125 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
	Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container N
	Sample Disposal: Return to Client Disposal by Lab Archive

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. #_3052

Client: Thorox LLC
Sample Description: FFF LUENT WELL Comp. Hr. Grab
Residual Cl pH DO Temp Flow
Collected by: Let / Lil Date: 1700 7 Time: 7:00 (am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification: Non Hazard Skin Irritant Unknown
Matrix: Water/Wastewater Other Lower (Description)
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses: Metals Other
Maintain St. 207 7:00 P.M. Valle My 8/17/07 1:3. Relinquished by: Date/Time Received by: Date/Time 8/17/07 9:30 S/17/07 9:30
(For Lab use only)
Client:
Received by: Date Time am pm Sample Container: Quantity Type Size Preserve 2 GP 1 L Ice; (CG& H2SO4, NaOH, HNO3 GP 500 ml Ice; Ice & H2SO4, NaOH, HNO3 GP 250 ml Ice; Ice & H2SO4, NaOH, HNO3 GP 125 ml Ice; Ice & H2SO4, NaOH, HNO3 GA 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container N
Sample Disposal: Return to Client Disposal by Lab Archive



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fex:717-656-2681• www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1048682. Samples arrived at the laboratory on Thursday, July 26, 2007. The PO# for this group is ZSAL4CEOK0A50205.

Client Description

Effluent_Weir_Box Grab Water Sample

Effluent_Weir_Box Composite Water Sample

<u>Lancaster Labs Number</u> 5112460

5112461

I COPY TO

Tronox LLC

Attn: Robert Pounds

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Max E. Snavely Senior Specialist

May E - Lavely



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Page 1 of 1

Lancaster Laboratories Sample No. WW

Effluent_Weir_Box Grab Water Sample Columbus, MS

Collected: 07/25/2007 13:17

by DA

Account Number: 11947

Submitted: 07/26/2007 09:50 Reported: 08/03/2007 at 13:07

Discard: 10/03/2007

04678 TCL SW846 Semivolatiles/Waters

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

SDG#: KMM86-01 COLWG

As Received

Dilution

CAT Analysis Name No.

As Received Result

Limit of Quantitation

Units Factor

03934 Pentachlorophenol

87-86-5 29.

CAS Number

16.

ug/l

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

			Laboraco				
CAT					Analysis		Dilution
No.	Analysis Name	Met	hod	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846	SW-	846 8270C	1	08/02/2007 01:23	Gregory J Drahovsky	1
00813	Semivolatiles/Waters BNA Water Extraction	SW-	846 3510C	1	07/30/2007 11:00	Mariam G Attalla	1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 5112461

Effluent_Weir_Box Composite Water Sample
Columbus, MS

Collected:07/24/2007 13:07

through 07/25/2007 13:07 Submitted: 07/26/2007 09:50

Reported: 08/03/2007 at 13:07

Discard: 10/03/2007

COLWC

SDG#: KMM86-02*

by DA

Account Number: 11947

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

As Received

Limit of Dilution CAT As Received No. Analysis Name CAS Number Result Quantitation Units Factor 07035 Arsenic 7440-38-2 N.D. 0.0200 mg/l 1 7440-47-3 07051 Chromium N.D. 0.0150 mg/11 07053 7440-50-8 Copper 0.0023 J 0.0100 mg/11

All QC is compliant unless otherwise noted. Please refer to the Quality ${\tt Control}$ Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07035	Arsenic	EPA 200.7	1	07/30/2007 15:28	Joanne M Gates	1
07051	Chromium	EPA 200.7	1	07/31/2007 06:33	Tara L Snyder	1
07053	Copper	EPA 200.7	1	07/31/2007 06:33	Tara L Snyder	1
0571.6	EPA 600 ICP Digest (tot	EPA 200.7	1	07/29/2007 19:07	James L Mertz	1
	rec)					



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 *717-656-2300 Fax; 717-656-2681 * www.lancasterlabs.com

Page 1 of 2

Quality Control Summary

Client Name: Tronox LLC

Group Number: 1048682

Reported: 08/03/07 at 01:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOO	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 072085716003 Arsenic Chromium Copper	Sample nu N.D. N.D. 0.0028 J	0.0200 0.0150 0.0100	5112461 mg/l mg/l mg/l	99 99 100		85-115 85-115 85-115		
Batch number: 07209WAF026 Pentachlorophenol	Sample nu N.D.	umber(s):	5112460 ug/l	86		48-108		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD Max
Batch number: 072085716003 Arsenic Chromium Copper	Sample 102 98 98	number(s)	5112461 70-130 81-120 86-122	UNSPK:	P1131	06 BKG: P1 N.D. N.D. 0.0075 J	13106 N.D. N.D. 0.0114	55* (1) 200* (1) 76* (1)	20 20 20
Batch number: 07209WAF026 Pentachlorophenol	Sample 90	number(s) 91	7-136	UNSPK:	P1123 30	29			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
5112460	43	33	90	108
Blank	66	44	104	99
LCS	65	44	102	96
MS	38	26	86	96
MSD	40	28	87	94
Limits:	10-101	10-82	31-148	51-123
	2-Fluorobiphenyl	Terphenyl-d14		

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.



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Page 2 of 2

Quality Control Summary

Client Name: Tronox LLC

Group Number: 1048682

Reported: 08/03/07 at 01:07 PM

Surrogate Quality Control

5112460	64	117
Blank	99	100
LCS	100	135
MS	99	128
MSD	97	98

Limits: 64-112 . 52-151

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acct. # 11947 Group# 1048083 Sample # 51134(50-10)

- COC # 0058151

Please print. Instructions on reverse side correspond with circled numbers

Client: Rows X	Acct. #:		TX (A)		Amal	Analyses Requested		For Lab Use Only
Project Name# Semi-Honcol / Duarfly PWSID#	PWSID#	11%					FSC:	,
Project Manager: Zaker Thinds	P.O.#:) 97.	\	<u> </u>		9
Sampler Wicky Allican	Quote #:		e sea	TO S	M		<u>'</u>	seidi (belse
Name of state where samples were collected:	(SISIPOI		N CI	7	\ *			upen ti
Sample Identification	Date Time	Sodino:)	ientoj Seleci Seleci	73			Remarks	elinperature Pinperature
Effluent Were Dox	1/28/67 1317	×	×××××				No Persenatives of	1055046
CAlvert Lusie Loy	745 1357	×		X			Canoled FUED	1/8/20
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	1/25/67 1367					-	Algest. HNO3	3 64.6
500							8 V	
Turnaround Time Requested (TAT) (please circle): (Normal) (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)	de): (Norma) Rush	Relinatished by:	y Asy:	Date //SS/	M. in	Received by:		Date Time (9
Rush results requested by (please circle): Phone Phone #:	ne Fax E-mail	Relinquished by:	ed by:	Date	Time	Received by:	. /	Date Time
E-mail address:		Relinquished by	:Apps	Date	Time	Received by		Date Time
/ Data Package Option	ပ္ပိ							
iype v GLP	Site-specific QC required? Yes No	Relinquished by:	ed by:	Date	Tine	Received by:	, i	Date Time
Type II (11er II) Other (if yes, indicate QC san Type III (NJ Red. Del.) Internal Chain of C	(if yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No	Relinquished by:	ad by:	Date	Time	Received by:	1	Date Time
							A DIVIVIOR	&7073U

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU	none detected Too Numerous To Count International Units	BMQL MPN CP Units	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	g ram(s)	mg	milligram(s)
ug	microgram(s)	Ĭ	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

Inorganic Qualifiers

۸	TIC is a possible aldel condensation and dest	-	Valuation opposite to the
А	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation \(\)
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1037333. Samples arrived at the laboratory on Wednesday, May 09, 2007. The PO# for this group is ZSAL4CEOK0A50205.

Client Description
Weir_Box_Effluent Grab Water Sample
Weir_Box_Effluent Composite Water Sample

Lancaster Labs Number 5049473 5049474

I COPY TO

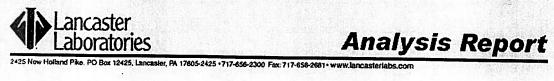
Tronox LLC

Attn: Robert Pounds

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Richard H. Karam Group Leader





2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 5049473

Weir_Box_Effluent Grab Water Sample
Columbus, MS

Collected: 05/08/2007 12:04

through 05/08/2007 12:06 Submitted: 05/09/2007 09:10

Reported: 05/09/2007 09:10 Reported: 05/23/2007 at 13:17

Discard: 07/23/2007

COLEF

SDG#: KMM84-01

by DA Accor

Account Number: 11947

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

CAT No. 00231 02393	Analysis Name Oil & Grease Phenols (water) TCL SW846 Semivolatiles/Waters	CAS Number n.a.	As Received Result 8.8 0.39	As Received Limit of Quantitation 8.0 0.080	Units mg/l mg/l	Dilution Factor 1
03934	Pentachlorophenol	87-86-5	22.	15	ug/l	1

 $\mbox{\sc All}$ QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT		Laboratory	Chro	nicle		
No. 00231 02393 04678	Analysis Name Oil & Grease Phenols (water) TCL SW846 Semivolatiles/Waters	Method EPA 413.1 SW-846 9066 SW-846 8270C	Trial# 1 1 1	Analysis Date and Time 05/16/2007 07:13 05/14/2007 18:37 05/15/2007 01:34	Analyst Valerie J Trout Venia B McFadden Linda M Hartenstine	Dilution Factor 1 2 1
00813 08123	BNA Water Extraction Phenol Distillation (SW- 846)	SW-846 3510C SW-846 9065	1 1	05/11/2007 03:30 05/11/2007 11:20	Sherry L Morrow Carolyn M Mastropietro	1 1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 5049474

Weir_Box_Effluent Composite Water Sample
Columbus, MS

Collected:05/07/2007 13:00 through 05/08/2007 13:00

Submitted: 05/09/2007 09:10 Reported: 05/23/2007 at 13:17

Discard: 07/23/2007

COLCE

SDG#: KMM84-02*

by DA Account Number: 11947

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

CAT No. 07051 07053 07035	Analysis Name Chromium Copper Arsenic	CAS Number 7440-47-3 7440-50-8 7440-38-2	As Received Result N.D. N.D.	As Received Limit of Quantitation 0.0150 0.0100	Units mg/l mg/l	Dilution Factor 1
07033	Arsenic	7440-38-2	0.0128 J	0.0200	mg/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		-aboracory	CITEO	TITCIC		5.0
No.	Analysis Name			Analysis		Dilution
07051		Method	Trial#	Date and Time	Analyst	Factor
	Chromium	EPA 200.7	1	05/18/2007 21:13	Choon Y Tian	ractor
07053	Copper	EPA 200.7		05/18/2007 21:13		
07035	Arsenic	EPA 200.7			Choon Y Tian	1
05732	EPA 600 ICP Digest (total)	ED3 000 5		05/23/2007 12:12	Matthew S Campbell	1
00,02	sin out ice bigest (total)	EPA 200.7	1	05/10/2007 19:40	James L Mertz	1



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Page 1 of 2

Quality Control Summary

Client Name: Tronox LLC

Reported: 05/23/07 at 01:17 PM

Group Number: 1037333

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank LOO	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 071305732002 Arsenic Chromium Copper	Sample n N.D. N.D. N.D.	umber(s): 0.0200 0.0150 0.0100	5049474 mg/l mg/l mg/l	105 100 100		85-115 85-115 85-115		
Batch number: 07130WAF026 Pentachlorophenol	Sample n N.D.	umber(s): 15.	5049473 ug/l	83		48-108		
Batch number: 07131120101A Phenols (water)	Sample n	umber(s):	5049473 mg/l	93		79-104		
Batch number: 07136023101A Oil & Grease	Sample n 4.6 J	umber(s):	50 494 73 mg/l	80	80	61-105	1	12

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 071305732002 Arsenic Chromium Copper	Sample 112 97 105	number 117 96 105	(s): 5049474 80-120 80-120 80-120	UNSPK: 4 1 0	P0496 20 20 20	559 BKG: N.D. N.D. N.D.	P049659 N.D. N.D. N.D.	28* (1) 0 (1) 32* (1)	20 20 20
Batch number: 07130WAF026 Pentachlorophenol	Sample 79	number	(s): 5049473 7-136	UNSPK:	P0495	540			
Batch number: 07131120101A Phenols (water)	Sample 81	number 84	(s): 5049473 51-131	UNSPK:	P0495	540			94

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 07130WAF026

2-Fluorophenol

Phenol-d6

2,4,6-Tribromophenol

5049473

1

85

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

^{*-} Outside of specification



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Page 2 of 2

Quality Control Summary

Client Name: Tronox LLC Group Number: 1037333 Reported: 05/23/07 at 01:17 PM Surrogate Quality Control Blank LCS MS 53 36 43 32 37 105 101 46 93 100 MSD 51 Limits: 10-101 10-82

31-148

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



TO:

Our Valued Clients

SUBJECT: Method Update Rule

Background:

On March 12, 2007, the USEPA published a revision to the Code of Federal Regulations at 40 CFR 136 and 40 CFR 141 in the Federal Register. This Method Update Rule (MUR) contains revised approved methods tables and revised sample collection, preservation and holding time requirements, affecting the testing requirement for both non-potable and drinking water. This Method Update Rule is a final ruling and became effective on April 11, 2007.

A copy of the Method Update Rule is available online: http://www.epa.gov/fedrgstr/EPA-WATER/2007/March/Day-12/w1073.pdf.

Action:

Lancaster Laboratories, Inc. has performed a thorough review of the MUR and has systems in place to analyze samples by the compliant method. In most cases, these methods are being replaced by equivalent methods using the same testing techniques. It is important that you review all of your NPDES Permits and other regulatory mandates to determine if you are required to use one of the outdated (removed) methods. You may continue to use these methods ONLY if you provide a copy of the permit/regulatory mandate to the laboratory to be kept on file. If the requested documentation has not been submitted to Lancaster Laboratories by June 1, 2007, your samples will be analyzed and reported by a method that is listed in the current MUR.

Please contact your Client Service Representative to request a change to the approved methods prior to June 1, 2007.

Please contact your Client Service Representative if you need assistance.

Thank you.

Lancaster Laboratories, Inc. **Environmental Client Services**

April 2007

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acct # 11947 Group# 1037332 Sample # 5049473-74 COC # 0058154

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2102 Rev. 10/27/02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected		BMQL	Below Minimum Quantitation Level	
TNTC	Too Numerous To Coun	t	MPN	Most Probable Number	
IU	International Units		CP Units	cobalt-chloroplatinate units	
umhos/cm	micromhos/cm		NTU	nephelometric turbidity units	
C	degrees Celsius		F	degrees Fahrenheit	
Cal	(diet) calories		lb.	pound(s)	
meq	milliequivalents		kg	kilogram(s)	
g	gram(s)		mg	milligram(s)	
ug	microgram(s)		201	liter(s)	
m!	milliliter(s)		ul	microliter(s)	
m3	cubic meter(s)		fib >5 um/ml	fibers greater than 5 microns in length	n per m

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

Inorganic Qualifiers

1	4	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
E	3	Analyte was also detected in the blank	E	Estimated due to interference
(Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
)	Compound quatitated on a diluted sample	N	Spike amount not within control limits
. E	i t	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
		the instrument		for calculation
٠,	J	Estimated value	U	Compound was not detected
1	1	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
F	כ	Concentration difference between primary and	*	Duplicate analysis not within control limits
		confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
ı	J	Compound was not detected		11 m. 12 m.
Υ,Ζ	<u> </u>	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1027645. Samples arrived at the laboratory on Friday, March 02, 2007. The PO# for this group is ZSAL4CEOK0A50205.

Client Description
Effluent_Weir Composite Water Sample
Effluent_Weir Grab Water Sample

Lancaster Labs Number 4994827 4994828

I COPY TO

Tronox LLC

Attn: Robert Pounds

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Max E. Snavely Senior Specialist

May E Lravely



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by VA

Page 1 of 1

Lancaster Laboratories Sample No. WW 4994827

Effluent Weir Composite Water Sample Columbus, MS

Collected: 02/28/2007 10:37

through 03/01/2007 10:37

Submitted: 03/02/2007 09:35

Reported: 03/13/2007 at 13:03 Discard: 05/13/2007

Tronox LLC

P.O. Box 268859

Account Number: 11947

Oklahoma City OK 73126-8859

SDG#: KMM77-01 EFWEC

			As Received		
		As Received	Limit of		Dilution
Analysis Name	CAS Number	Result	Quantitation	Units	Factor
Chromium	7440-47-3	N.D.	0.0150	mg/l	1
Copper	7440-50-8	N.D.	0.0100	mg/l	1
Arsenic	7440-38-2	0.0138 J	0.0200	mg/l	1
	Chromium Copper	Chromium 7440-47-3 Copper 7440-50-8	Analysis Name CAS Number Result Chromium 7440-47-3 N.D. Copper 7440-50-8 N.D.	Analysis Name CAS Number Result Quantitation Chromium 7440-47-3 N.D. 0.0150 Copper 7440-50-8 N.D. 0.0100	Analysis Name CAS Number Result Quantitation Units Chromium 7440-47-3 N.D. 0.0150 mg/l Copper 7440-50-8 N.D. 0.0100 mg/l

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT			4	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07051	Chromium	EPA 200.7	1	03/09/2007 07:43	Joanne M Gates	1
07053	Copper	EPA 200.7	1	03/09/2007 07:43	Joanne M Gates	1
07035	Arsenic	EPA 200.7	1	03/09/2007 07:43	Joanne M Gates	1
05732	EPA 600 ICP Digest (total)	EPA 200.7	1	03/05/2007 20:25	James L Mertz	1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4994828

Effluent_Weir Grab Water Sample Columbus, MS

Collected: 03/01/2007 10:30

Account Number: 11947

Submitted: 03/02/2007 09:35 Reported: 03/13/2007 at 13:03

Tronox LLC P.O. Box 268859

Oklahoma City OK 73126-8859

Discard: 05/13/2007

SDG#: KMM77-02 EFWEG

As Received

Limit of Dilution

CAT No. Analysis Name

Result

As Received

Quantitation

Units Factor

TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

87-86-5

CAS Number

N.D.

ug/l

10

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile

compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846	SW-846 8270C	1	03/06/2007 01:18	Gregory J Drahovsky	10
00813	Semivolatiles/Waters BNA Water Extraction	SW-846 3510C	1	03/05/2007 04:15	Sherry L Morrow	1



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Page 1 of 1

Quality Control Summary

Client Name: Tronox LLC

Group Number: 1027645

Reported: 03/13/07 at 01:03 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank LOO	Report Units	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 07062WAA026 Pentachlorophenol	Sample no	umber(s): 15.	4994828 ug/l	67	68	48-108	2	30
Batch number: 070645732002 Arsenic Chromium Copper	Sample nu N.D. N.D. N.D.	umber(s): 0.0200 0.0150 0.0100	4994827 mg/l mg/l mg/l	103 99 101		85-115 85-115 85-115		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 070645732002 Arsenic Chromium Copper	Sample 108 98 112	number	(s): 4994827 80-120 80-120 80-120	UNSPK	: P9944	N.D. 0.0026 J 0.0617	N.D.	29* (1) 2 (1) 19	20 20 20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 07062WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4994828	48	40	74	
Blank	63	46	121	
LCS	62	47	106	
LCSD	65	47	105	
Limits:	10-101	10-82	31-148	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

Acct. #

Group# 10376 Sample # 4994827-38 COC # 0142880

Please print. Instructions on reverse Side correspond with circled numbers.

Time (9 933 1467 130; SAMOIST BURRY 12 he Time Time Time Cool # 40c NON- PRESTEUES Date Date Date T=Thiosulfate B=NaOH 0=Other Preservation Codes Horn Hygut For Lab Use Only HN03 <3 Remarks N=HNO3 S=H₂SO₄ SCR# 1 1 1 1 (5) Antilyses Requested Time Received by: Date Time Received by: Time | Received by: Time | Received by Received by Preservation Codes 3/16/1045 Time Date Bate Date a Relinquished by: Relinguished by: Relinquished by: Relinquished by: Relinquished by: ຕ SDG Complete? 1030 7/28/67 1037 1637 Rush E-mail 2 Name of state where samples were collected: (Study S) ž (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Site-specific QC (MS/MSD/Dup)? Yes Yes Project Name/#: Chyalteck IMECCartawsID #: Turnaround Time Requested (TAT) (please circle)(Normal Acct. #: Funds P.O.# Internal COC Required? Yes / No 3/1/67 Fax Phone Data Package Options (please circle if required) Fax #: TX TRRP-13 Rush results requested by (please circle): Project Managen Kokery Sampler: Wicky Date results are needed: Type I (validation/NJ Reg) Type VI (Raw Data Only) Type III (Reduced NJ) Type IV (CLP SOW) E-mail address: Type II (Tier II) Phone #: (∞)

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the clien

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	de grees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	1	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

Correlation coefficient for MSA < 0.995

- ppb parts per billion
- Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A TIC is a possible aldol-condensation product Value is <CRDL, but ≥IDL В В Analyte was also detected in the blank Ε Estimated due to interference С Pesticide result confirmed by GC/MS М Duplicate injection precision not met Compound quatitated on a diluted sample D N Spike amount not within control limits Ε Concentration exceeds the calibration range of Method of standard additions (MSA) used S the instrument for calculation J Estimated value U Compound was not detected Presumptive evidence of a compound (TICs only) W Post digestion spike out of control limits Ν Concentration difference between primary and P Duplicate analysis not within control limits

U Compound was not detected

confirmation columns >25%

X,Y,Z Defined in case narrative

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

KMCC - FPD Facility - Columbus, MS

Month:

November. 07

rmit Requirement it of Measurement		O&G		PHEN	рН	
. o, modedioi	L_	(XXXXXXXXXX	×××××××××	ı XXXXXXXXXXX	XXXXXXXXXX	XXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	36,700				,	
2	36,700	7	2.14	11.8	3.61	
3	36,700					
4	36,700					
5	37,000	.,				
6	37,000					6
7	35,600					
8	36,500					
9	35,866					1
10	35,867					
11	35,867					
12	34,900					6
13	35,500				,	
14	34,800					
15	33,600					
16	35,266	6	1.76	13.4	3.93	1
17	35,267					
18	35,267				-	
19	34,500					6
20	35,000		5670			
21	34,800	1250	20/5970-		 	
22	34,800	15	R B			
23	34,733	000	2 2 0			
24	34,733	28	22			<u> </u>
25	34,734	12	8 3 6/			<u> </u>
26	34,100	10,	0 V			6
27	34,500	185 25 C	7076			Ť
28	34,500				· · · · · · · · · · · · · · · · · · ·	
29	34,600					+
30	35,433					- 77
31	,	<u>-</u> -				
Avg.	35,384	6.5	1.95	12.6	3.77	6.6
Max.	37,000	7	2.14	13.4	3.93	6.
Min.	33,600	6	1.76	11.8	3.61	6.

Dec. 4, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

3107 Tabemacle Road Columbus, MS 39702 Attn: Roland Hill TRONOX, LLC

	3739		3610	Lab (7 #
	Effluent		Effluent	Sample Description
	11/16/2007		11/2/2007	Date Received
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	Parameter
6 mg/l	13.4O mg/l	7 mg/l	11.8O mg/l	Sample Result
128293037	5678970 PER 2007	771213141516777		Acce Result of Ran Standard Sta
1.63	4201	1.66	41201	Acceptable Range of Standard I
-	-	~	–	Method

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMPCAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab L.D. #_ 3610

		Client	Th. NO	(LLe	•	
	Sample D	escription:	EKFluer	TweiLCon	mpHr.	Grab
	Residual Cl	pH	DO	Temp	Flow	
	Collected by	- So-	P / hie	Date://	207 Time: 7:	o am pm
		und Time:	Normal	Rush	Specify Date	
	Hazard Ide	ntification:	Non Hazard Flammable		n Irritant Known	
	Matrix: Water	Wasterrate	r Oth	er TLOUND		
	Calibrations: pH Meter	Buffers	Date:	Time: Descri	iption) O Meter: Date	Time:
	Requested La	b Analyses	:			
)	pH DO	c	arb BOD	TKN	Metals	Other
	BOD	A =	Fecal	TOP		
	7700		monia-N Grease	Nitrate		
123	45678970COD		Alkalinity	Phenols Res CI_		
	Retinquished by:	•	Date/Time	Received b	_	Date/Time
70.	8	ul .	11-207	7:00 RM W.	Ole Wen	11/2507 7:35
1585 P	Refinquished by:		Date/Time	Received b	y:	Date/Time
	Milain		12/07 10:52		ر ا	11/10 10:50
	(For Lab use only)					
	Client:					
	Received by:		Date	Timea	ım pm	
	Sample Container:	Quantity	Type G P	Size 1 L		NaOH, HNO3
)	Thiosulfate Present Y N		G P G P G A	500 ml 250 ml 125 ml 40 ml vial	Ice; Ice & H2SC	04, NaOH, HNO3 04, NaOH, HNO3 04, NaOH, HNO3
	Sample Condition Upon R	eceipt:	Temp Deg. C. 4	<u>. </u>	Preserved Proper Container	Sn N
	Samule Dienacal· Refur	n to Client	Disnosal by La	b Archi	ye	

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab I.D. # 3739

e principale.		Those			
Sampl	e Description	EFFLUEN	TweinComp	Hr.	(Grab
	CI pH_		Temp		
Collected	l by:	P / low	Date:	(27 Time: 7.	pm
Turi	n around Time:	Normal	Rush	Specify Date	
Hazaro	l Identification:	Non Hazard Flammable	Skin I Unkno	rritant Own	····
Matrix: W	ater/Wastewate	er Othe	TOLOND	WATEL	
Calibrations: pH M	eter Buffers	Date:	(Description DO		Time:
Requested	d Lab Analyse	98:			
Нq	(Carb BOD	TEAN	Metals	Other
DO		Fecal	TKN TOP		
BOD	A :	mmonia-N	Nitrate		
TSS		& Grease)	Phenois	·	
6789 COD_		Alkalinity	Res CI		
03456789707772					
Relinquishe	d by:	Date/Time	Reggived by:	1.	Date/Time
OF THE STATE OF TH	1 low	11-16-07 7	ion will	a Alba	14407 1:15
Relinquished	t by:	Date/Time	Received by:	. [Date/Time
9252425242524		1/16/07/170	Lns	5	11/16/07/11:70
(For Lab use only,					
Client:					
Received by:		Date	Timeam	pm	
Sample Container:	Quantity	Type G P G P			747 NaOH, HNO3 04, NaOH, HNO3
		G P			04, NaOH, HNO3
Thiosulfate Present	Y N	G P G A	125 ml		04, NaOH, HNO3
Sample Condition Up	on Receipt:	Temp Deg. C. 4		Preserved oper Container	N N

KMCC - FPD Facility - Columbus, MS

Month:

July. 07

rmit Requirement it of Measurement		O&G		PHEN	pН	
i or modelin		(XXXXXXXXX	(XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	41,733					
2	40,800				4	
3	41,000					6
4	41,000					
5	40,500	,				
6	40,833	7	2.38	11.75	4	
7	40,833					
8	40,834					
9	41,600					6
10	41,900					
11	39,300					
12	40,100					
13	42,533					
1.4	42,533					
15	42,534					
16	41,100					6
17	43,400		,			
18	43,400					
19	38,600					
20	41,666	. 6	2.08	9	3.12	
21	41,667	/2	223242526		•	
22	41,667	102			·	
23	41,600	2/8	- 100 A	6		6
24	41,600	12	6 Mg	ő a		
25	41,000	191 (State of the state of the	. 8.6	7/		
26	41,100	(Egg	Ä	•/		
27	40,233	FELS	SA CA			
28	40,233		10188 Fa.			
29	40,234					
30	38,600					. 6
31	38,700	2				
Avg.	41,059	6.5	2.23	10.375	3.56	6.
Max.	43,400	7	2.38	11.75	4	6
Min.	38,600	6	2.08	9	3.12	6

608 GILLESPIE STREET ENVIRO-LABS, INC.

P. O. BOX 1096

July 11, 2007

STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> 3107 Tabemacie Road Columbus, MS 39702 Attn: Roland Hill TRONOX, LLC

Sample	Date	Sample	; ;
--------	------	--------	--------

Acceptable Range of Standard

	2704	,		2518
	Effluent			Effluent
12	7/6/2007			6/15/2007
OIL, & GREASE	TOTAL PHENOLS		OIL & GREASE	TOTAL PHENOLS
7 mg/l	11.75 mg/l	•	7 mg/l	9.85 mg/l

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES ANIDIOR STANDARD METHODS 20th EDITION OF THE PROPERTY OF THE PR

40 LS #. G. J ds. J

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

	avidanA X	de I vd lezogzid	sal: Return to Client	ogsid slqms2
Preserved Y N Container	Proper	Temp Deg. C.	ition Upon Receipt:	Sample Cond
TCCCC H2SO4, NaOH, HNO3 ICC & H2SO4, NaOH, HNO3 ICC & H2SO4, NaOH, HNO3 ICC & H2SO4, NaOH, HNO3	1 L les; 500 ml les; 250 ml les;	4 5 4 5 4 5 0 5	Present Y N	= 12
w	Timeam pi	sted		Received by:
		×.	:jt	eli9
	9		(kjuo əsr	ded 10A)
PD:1 10/9/L	147	OP:1 LOPOIL	Wh.	N-
Date/Tune	Received by:	Date/Time	:yd behsinpr	Kell
1 Les Mos Jis	MA A	09.6 629/4	MILIN	-
Date/Time	Received by:	Date/Time	:Aq pəysinbu	Reii
	Res Cl	Alkalinity	ao:	
All the same of th	Phenols	il & Grease		
	Mitrate	N-sinommA		a ~
	——qot	Fecal	DO	
Metals Other	TKN	Carb BOD	Hq	
	f	ses:	ylested Lab Analys	Re
LETE Time:	(Description) (Description)		Water/Wastewa : pH.Meter Buffers	Matrix: eaoiterdileD
ant	Skin Irrit	Non Hazard	Hazard Identification	920212223242526
ecify Date	ds hensh	Mormal	Turn around Tune:	1970
Time: 7,00 cm	Date: //x 27	77/ 7	llected by:	
Flow	duəŢ	oa	idual Cl pH	
Hr. Grab	-dmoJ Alson	The 1/19/3 :	Sample Description	CALITIO1 68 F 3 2 A
	777	1 Telox	nsil)	
			LKAING WZ 33/23	ric

ENVIRO-LABS, INC. 603 GILLESPIK STREET

P. O. BOX 1096

Aug. 20, 2007

STARKVILLE, MS 39760-1096 1-662-323-7744

Attn: Roland Hill 3107 Tabernacie Road TRONOX, LLC

USEPA LABCODE: MS00028

1-662-324-1745 (& FAX) Sample Result Result of Standard Columbus, MS 39702 Acceptable Range of Standard

Method

Rocelyed Date

Effluent 7/20/2007 TOTAL PHENOLS OIL & GREASE 9.00mg/1 6 mg/l 10168L998 E1N 420.1 1664

2841

Sample Disposal:

Return to Client

da.l vd lazoqeiQ

· 4		,			
	Preserver Proper Containe	K .	Temp Deg. C.	:sqi s o	Sample Condition Upon Re
	ээд	laiv im 04	c v	·	
SOUH, HORN , LOSS	lect tee & H	lm 221	C b		Thiosulfate Present Y N
SOA, NaOH, HUO3	He; lee & H	lm 02S	G b		
SOON HOW HOOS	H to sol ;sol	lm 002	A O		<u>a</u>
SOUTH HOWN CEOST		7 T	4 (9)	3	
. = = =	Preserve	svi2	Tabe	Quantity	Ample Container:
	and un	s smi'l	Date	ŷ.	Received by:
4*			<i>f</i>	<u> </u>	Client:
<u> </u>			<u>/</u>		(For Lab use ohly)
ion Lapel -	90	7	51:01 600	40	18 M
Date/Time) :a	Received b	Date/Time		Relinquished by:
1:8 Lapell mi	TE MAIN	m I	40012 Le. 04/L	M	1 2
Date/Time	U. 11 (1)	(d baviasah	_	<i>///</i> ·	· · · · · · · · · · · · · · · · · · ·
	•••	d barinda	Date/Time		Relinquished by:
		Kes CI	Attailanty	•	COD
<u> </u>	·	Phenois	Steard &		SST
<u> </u>		Nitrate	N-sinomn	nA	BOD
		TOP	Fecal		DO
1941() str	Meta	LKN	arb BOD)	Hq
			4	Analyses	Requested Lab
.jmiT	Meter: Date	ne: DQ	Date: Ti	ENTIRE E	Calibrations: pH Meter
		(Descrip	^		
N222324 25 2623	TALHIN	Lound	क्रमां ।	_/ વરફલમત્વદુલ	Matrix: Water/M
E 23	Caro		Flammable		
3037	ja <u>stirr</u> I	nist2	FrexeH goW		despi brasaH
<u> </u>	Specify Date_	Kush	Mormal	. :•miT b	muonn min]
and the state of t	Z :smiT 14	Date: 154	177	1-7/	Collected by:
1016879	4	/~	,,	• :	
		duə_Ţ		—Hq	Residual Cl
1,500	- Flow	•			Sample Dèsc
1.500	- Flow	đươ <u>,</u>			_
1.500	- Flow	đươ <u>,</u>		- _:noitqin	_
	- Flow	đươ <u>,</u>		C <i>llent:</i> _	_
N. Sales	.THq	đươ <u>,</u>		759 Citent:_	Sample Dèsc

KMCC - FPD Facility - Columbus, MS

Month:

June. 07

mit Requirement it of Measurement			&G	PHENO		рН
	XX	XXXXXXX		XXXXXXXXXXXX	XXXXXXXXX	XXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	42,956	6	2.15	15.95	5.71	
2	42,957					
3	42,957					
4	42,600					- 6
5	42,100			,		
6	40,700				<u></u>	
7	42,700					
8	41,600					
9	41,600			· .		
10	41,600			4		
11	42,590					
12	42,210					
13	41,100					
14	40,000	· · · · ·				
15	36,800	7	2.15	9.85	3.02	
16	36,800					
17	36,800					
18	42,600					(
19	40,900					
20	41,100			•		
21	42,000					
22	42,200		(61718	19.2		
23	42,200		10,15 18	*0213		
24	42,200		1	13		
25	41,800			24		(
26	40,600		9 8			
27	39,200			62		
28	37,800		10	40V/		
29	41,733		153	1505erg		
30	41,734	·				
31						
Avg.	41,138	6.5	2.15	12.9	4.37	6.
Max.	42,957	7	2.15	15.95	5.71	
Min.	36,800	6	2.15	9.85	3.02	•

June 11, 2007

ENVIRO-LABS, INC. 603 GILLESPIR STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00028

TRONOX, LLC
Attn: Roland Hill
3107 Tabemacle Road
Columbus, MS 39702

Menthod	. 420.1	1664		
Acceptable Range of Standard	,			Ü
Result of Standard	⊕ =			
Sample Result	16.80mg/l	1∕8m 9	15.95 mg/l	6 mg/l
Parameter	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE
Date Received	5/18/2007		6/1/2007	
Sample Description	69 1011 12 132 Effliction	17 18 19 20 2;	manus 100,000 25	
Lab ID #	229)	1-1E0E6	2363	5.

ANALYSES AND/OR STANDARD METHODS 20th EDITION ***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL Approved:

.



Request & Chain of Custody Record

Lab 1.D. # 2363

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Client: TRUNOX
Sample Description: EFP/VENT Weir Comp. Hr. Grab
Residual Cl pH DO Temp Flow
Collected by: 60.6. Gholson Date: 6-1-07 Time: 7:00 am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification:Non HazardSkin IrritantSkin Unknown
Matrix: Water/Wastewater Other Ghound Water
(Description) Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
Metals Other pH Carb BOD TKN
DO Fecal TOP
BOD Ammonia-N Nitrate
TSS Oil & Grease L Phenois
COD Alkalinity Res Cl
Relinquished by: Date/Time Recgiped by: Date/Time
40.8. Gholson 6-1-07-7000 Am Nilla Nils-16/407 7:30
Refinquished by: Date/Time Received by: Date/Time
19 6/1/07 8:40 LAS 6/1/07 8:40
(For Lab use only)
Client:
Received by: Date Timeam pm
Sample Container: Quantity Type Size Preserve G P 1 L Ice Ged: H2504 NaOH HN03 G P 500 ml Ice; Ice & H2504, NaOH, HN03 G G P 250 ml Ice; Ice & H2504, NaOH, HN03
G P 500 ml kce; kce & H7804, NaOH, HNO3
Thiosulfate Present Y N G P 125 ml Ice; Ice & H2SON NaOH, HNO3
Sample Condition Upon Receipt: Temp Deg. C. Preserved Preserved N
Sample Disposal: Return to Client Disposal by Lab Archive

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-324-1744
1-662-324-1745 (& FAX)
USEPA LABCODE: MS06023

July 11, 2007

TRONOX, LLC
Attr: Roland Hill
3107 Tebemade Road
Columbus, MS 39702

USBPA LABCODE: MEGUOES

*045	Sempto Description	Parts Received	Parameter	Seases.	Result of Standard	Acceptable Range of Standard	Method
2518	Efficent	6/15/2007	TOTAL PHENOLS	9.85 mg/l	5 *		420.1
ts)			OIL & GREASE	7 mg/			1991
				•			
2704	Efficat	7/6/2007	TOTAL PHENOLS	11.75 mg/l			
	*		oil & grease	7 mg/l			



***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL

Annais Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 2518

*		Client:	adox.	L.L.C.		•
	Sample Desc	ription: <i>EFF</i>	VENT WE	Comp	Hr. <i>(</i>	Grab
	Residual Cl	pH	DO	Тетр	Flow	
	Collected by:	14.1	led 1	Date: 15:07	Time: 7.00	ám pm
	Turn aroun	d Time: Normal_	Rus	h Spe	cify Date	
<i>5</i>	Hazard Identi		Hazard nmable	Skin_Irrita	nt \$	
3±2	Matrix: Water/W	⁷ astewater	Other of	(Description)	UATEL	
	Calibrations: pH Meter	Buffers Date	:Time:_		er: Date	Time:
	Requested Lab	Analyses:			34.4.1	Odbar
ينھن _{رر} خ	Hq	Carb BO	D 7	rkn	Metals	Other
فجيب	DO	Feca	d	TOP		
	BOD	Ammonia		trate		
	TSS	Oil & Grea Alkalini		enols) es Cl		
51617181	19203 Relinquished by:	Date/1	ime	Received by:	.1	Date/Time
~ Z	1-11	w 6/507	7:00 BM	Niller	Nh_	6/1477.4
122	Relinquished by:	Date/T	ime	Received by:		Date/Time
9	A TIME	6/15/07	160	1/2	h	Wide 7 855
es,	OF (For Lab use only)		- (-, y)		<u> </u>	7/11/0 / 7:4
1-12	Client:					
	Received by:	Date	Tim	cam p	m	
	Sample Container:	Quantity 2		1 L		NaOH, HNO3
	Thiosulfate Present Y N		G P 2	50 ml lce:	Ice & H2SO	I, NaOH, HNO3 I, NaOH, HNO3
3.3	Sample Condition Upon Re	eceipt: Temp I	eg. C. <u>4</u>	Prope	Preserved r Container	N N
	Sample Disposal: Return	to Client Disp	osal by Lab	Archive	-	

KMCC - FPD Facility - Columbus, MS

Month:

May. 07

		750m _ 107	
Permit Requirement	O&G	PHENOLS	nЦ
Unit of Management	33	THENOLO	, pH
Unit of Measurement			
	WWW.WWW.WW.WW.WW.WW.		
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX

DATE	FLOW	mg/l	lbs.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	lbs.	SU
1	45,360			1		
2	45,190					
3	43,690					
4	44,903	6	2.25	13.5	5.06	-
5	44,903	in .		- N -		,
6	44,904	·····				
7	44,750	,				6.4
8	41,660					
9	47,020					
10	44,980	- ···	=			-
11	44,646					1
12	44,647					
13	44,647	(4	-	 	-	
14	44,280					6.5
15	42,480					0.0
16	41,850					Λ
17	43,410					780
18	44,443	6	2.22	16.8	6.22	
19	44,443				<u> </u>	
20	44,444					
21	44,210	-	8 1			6.5
22	44,360		 		·	0.0
23	43,680					
24	43,740		1			
25	43,460	*				
26	43,460			1.81	**	
27	43,460					
28	41,500				· · · · · · · · · · · · · · · · · · ·	6.4
29	42,780	N .			<u> </u>	0.4
30	41,940				<u> </u>	11
31	42,910	 				
Avg.	43,940	6	2.235	15.15	5.64	6.45
Max.	47,020	6	2.25	16.8	6.22	6.45
Min.	41,500	6	2.22	13.5	5.06	6.4

May 23, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabernacle Road
Columbus, MS 39702

Sample Result of Range of Result	Sample Result of Standard	Sample Result of Standard	Sample Result of Result of Standard
pie Jit		Sample d Parameter Result	e Date Sample don Received Parameter Result
	Parameter		e Date Uon Received

OIL & GREASE

6 mg/l

13.50 mg/l

TOTAL PHENOLS

5/4/2007

Effluent

2171

1664

420.1

AND/OR STANDARD ME ***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES

Approved:

Sample Disposal: Return to Client Disposal by Lab

Enviro-Labs, Inc. 603 Gillespie St.

Starkville, MS 39759		. 2	HIL SALL	VEI 252
Clier	nt: <u>TRONO</u>	X	MUL 3313	2001
Sample Description	n: EFFLUENT	Weir Comp.	Hr. G	rab
Residual Cl pl	H DO	Temp	FlowE	21-12
Collected by: <u>W. E</u>	E. Cholson	Date: <u>5/4/0</u> 7	Time: 7:00 (a)	n pm
Turn around Time	e: Normal	Rush Spe	ecify Date	
Hazard Identificatio	n: X Non Hazard Flammable	Skin Irrit <u>X</u> Unknown		
Matrix: Water/Wasten	vater Other	Ground Wa	TEP	
Calibrations: pH Meter Buffer	s Date: T	(Description) Time: DO Me	ter: DateT	`ime:
Requested Lab Anal	yses:		Metals	Other
pH 🚁	Carb BOD	TKN		
DO	Fecal	TOP		
BOD	Ammonia-N	Nitrate		
	Oil & Grease	Phenois X		
COD	Alkalinity	Res Cl		
Relinquished by:	Date/Time	Reçeived by;	. 11	Date/Time
neunquisited by.			\//-//	
W.E. Gholse	N 5/4/07-	Miller	Il leus,	14/07 9:30
Relinquished by:	Date/Time	Received by:		Date/Time
M	5/4/01 9:55		<u>11 5,</u>	4079.55
(For Lab use only)				
Client:				
Received by:	Date	Timeam	pm	
	ntity Type		Preserve G	P
	\subseteq (G) P		e; Ice& H2SO4,	
	_ GP		e; Ice & H2SO4, e; Ice & H2SO4,	
Thiomifote Busset V N	G P G P		e; Ice & H2SO4, e; Ice & H2SO4,	
Thiosulfate Present Y N	— GA	40 ml vial Ic	•	navil, Ilitos
Sample Condition Upon Receipt:		4	Preserved X	> N > N
		AL .		

June 11, 2007

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

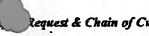
1-862-324-1745 (& FAX) USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Roland Hill
3107 Tabemacie Road
Columbus, MS 39702

Lab ID #	Sample Description	Date Received	Parameter	Sample Result	Result of Standard	Acceptable Range of Standerd	Method
					ě		
2291	Effluent	5/18/2007	TOTAL PHENOLS	16.80 mg/l		,	420.1
			OIL & GREASE	6 mg/l			1664
2363	Effluent	6/1/2007	TOTAL PHENOLS	15.95 mg/l			
			OIL & GREASE	6 mg/l	100 M		

ANALYSES AND/OR STANDARD METHODS 20th EDITION ***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL.

Approved: (Oken the Lolled



Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab LD. # 2291

Client: TRONOX	
Sample Description: EFF/UENT Weir Comp. Hr.	Grab
Residual CtpHDOFlow	
Collected by: W.E. Gholson Date: 5-18-07 Time: 7:	vo (am) pm
Turn around Time: Normal Rush Specify Date	 -
Hazard Identification: Non Hazard Skin Irritant Triammable Unknown	
Matrix: Water/Wastewater Other Ghould Water	
(Description) Calibrations: pH Meter Buffers Date: Time: DO Meter: Date	Time:
Requested Lab Analyses:	
Metal	s Other
pH Carb BOD TKN	
DO Fecal TOP	-
BOD Ammonia-N Nitrate	
TSS Oil & Grease \(\sum_{\text{Phenols}} \(\sum_{\text{Phenols}} \(\sum_{\text{Phenols}} \)	
COD Alkalinity Res Cl	
Relinquished by: Dote/Time Received by:	Date/Time
W.E. Gholson 5-18-07/7:00 Am Nolley Note	s/18/07 9:4s
Relinguished by: Date/Time Received by	Date/Time
Spelor 10:10 LAP	5/18/07 10:1
(For Lab use only)	
Client:	
Received by: Date Time am pm	
Sample Container: Quantity Type Size Preserve 2 G P 1 L Ice: Iced H2	G P NaOH, HNO3
G P 500 ml ke; ke & H2 G P 250 ml ke; ke & H2	SO4, NaOH, HNO3
	SO4, NaOH, HNO3 SO4, NaOH, HNO3
Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container	N N
Sample Disnosal: Return to Client Disnosal by Eab V	

603 GILLESPIE STREET ENVIRO-LABS, INC. P. O. BOX 1096

April 13, 2007

STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> Columbus, MS 39702 3107 Tabernacle Road Attn: Roland Hill TRONOX, LLC

Lab ID # Description Sample Received Date Parameter Sample Result Standard Result of Acceptable Standard Range of Method Used

1744 Effluent 3/16/2007 TOTAL PHENOLS OIL & GREASE 9.70mg/1 6 mg/1 420.1 1664

TOTAL PHENOLS 11.10mg/l 420.1

1926

Effluent

4/6/2007

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL/ANALYSES AND/OR STANDARD METHODS 20th EDITION OIL & GREASE 6 mg/1 21018910112

Approves

603 GILLESPIE STREET ENVIRO-LABS, INC.

May 17, 2008

P. O. BOX 1096

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

3107 Tabemacle Road Columbus, MS 39702 Attn: Roland Hill TRONOX, LLC

2040 Effluent 4/20/2007 TOTAL PHENOLS OIL & GREASE 15.85 mg/l 7 mg/1 420.1 **1564**

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL/ANALYSES AND/OR STAND

726/ #'a1 192 C

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ot, NaOH, HNC		1m 022	G P		-coord overline id'T'
ONH 'HOBN 'PO		500 ml	G b		
ONH 'HOBN (P		ıΓ	d 57	7	
ď	Preserve G	əziZ	Lype	Quantity	sample Container:
		STEELS .			
and the face	wd w	Timean	Date		Seceived by:
			a racia bripta		1270110
					Client:
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Date/Time		Redeived by	Date/Time	eq ph:	hziupnil9A
		Kes_Cl	Alkalinity	Mary Company	COD
	The second secon	Lycuoja	& Grease		The state of the s
		Nitrate			SST
1000000			M-sinomn		BOD_
10 0 10 m		TOP	Fecal	13	OC
121116)	Campazaz	LKN	arb BOD)	_Hq
Other	Metals		- W		
2 4 4 1 1 X 1 1 1 1 X 1 1 1 1 1 1 1 1 1 1				ed Lab Analyses	Requeste
			s, =1 0 1 3		4 4
			TiT :518 G	deter Buffers	Calibrations: pH A
Time:	Meter: Date	-1			
Time:	The second of th	(Descripti			
Time:	The second of th	Description	Joy190 L	ater/Wastewate	Matrix: N
Time:	1374/1) (noi	alouno	Joy10 L	⁷ ater/Wastewate	Mairix: N
Jime:	1374/1) (noi	alouno	Plammable 1	⁷ ૦૧૯૧/Wastewate	Matrix: N
Time:	The second of th	alouno		d Identification: Vater/Wastewate	
Time:	insiprid nwo	Skin	Non Hazard	d Identification:	
Time:	1374/1) (noi	Skin	Flammable	d Identification:	твавН
Time	Specify Date [rritant own]	Kush Skin J	Non Hazard	d Identification:	тваеН
Time:	Specify Date [rritant own]	Kush Skin J	Normal brazard	n around Time:	ruT TezeH
	Specify Date Legitant Own	Kush Skin J	Non Hazard	n around Time:	тваеН
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mq me	Flow Specify Date Critant Own	Temp Skin I Skin I Skin I Skin I	Normal blazard	d by:	Residual O Collected TuT
	Flow Specify Date Critant Own	Temp Skin I Skin I Skin I Skin I	Normal Hazard Flammable	d by:	Residual O Collected TuT
mq me	Flow Flow Specify Date Littlent Own Lond Little and Lond L	Temp Skin J Skin J Skin J	DOG DOCTOR NOT	le Description: J. H. J.	Residual (Collected
mq ms	Flow Flow Specify Date Littlent Own Lond Little and Lond L	Temp Skin I Skin I Skin I Skin I	DOG DOCTOR NOT	d by:	Residual (Collected

Analysis Request & Chain of Custody Record

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N X Toper Container	d <u> </u>	·		
Preserved X		Temp Deg. C.	:dipt:	Sample Condition Upon Rec
		· ·		
ICC	lsiv Im 04	v 9		AT T SEEDING TO SAMESMOOTH T
ice; ice & H2SO4, NaOH, HNO3	im 221	g 5		N Y insest TalluzoidT
Ice; Ice & H2SO4, NaOH, HNO3	Im 022	G P		
Ice; Ice or H2SO4, NaOH, HNOS	lm 002	4 5	7-	
Iceg Iceg HZSO4, NaOH, HNO3	7 T	Type	- Z	Sample Container:
Preserve	əziS	o uvT	Quantity	manistro') alomo:
स्वर्व प्र	Timea	Date		Received by:
			• •	Client:
	*93			(Lylo osn qu'i 10 <u>1</u>)
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1		,		11 / 1/1
y: Date/Time	Keceived b	Date/Time		Relinquished by:
1 Lactor - Miles	My King a	12/2/08/11	NO5/04	D 21PORCA
	00 -11			A namukumar
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-	1/42 / 1	4]kalinity	7	cop—
	Kes Cl			
•	Phenois 1	SEBST J.		SST
	Nitrate	M-sinome	nA :	BOD
	TOP	Fecal		DO
	LKN	вть ВОр	Ö	Hq
Metals Other			_	~-
		.	Analyses	Requested Lab
Meter: Date Time:	ime: DO	T :Date:	uffers	Calibrations: pH Meter B
(uo	tiqinaso(()			
01eh	CHOUNT CO		iəidməist	Matrix: Water/W
	nasia V 🛬	Hammable	<u>.</u>	
rritant	Skin I	brang H noy	ication:	Hazard Identif
Specify Date	yeny	Normal	<i>เลน</i> น :	anuora nruT
ortime: Tico and pm	26-7- : элви	NO5/04=) 0	17000	Collected by:
*			_	
MOLI	duə <u>I</u>	oa —	Hď	Residual Cl
Hr, Grab	Comp	EFFLUENT C	:noitqi	Sample Desci
¥		V1. V 01		
50	8 3		65.	Starkville, MS 397
9				603 Gillespie St.
Lab L.B. # 2000	**			Enviro-Labs, Inc.

Sample Disposal: Return to Client



May 18, 2007

Mississippi Department of Environmental Quality Bureau of Pollution Control Attn: Mr. Larry Hamil P.O. Box 10385 Jackson, Ms 39289-0385

Re. April, 2007 - Wastewater DMR Kerr McGee Chemical LLC Columbus, Ms Permit No. MSP090021

Dear Mr. Hamil

Attached please find the Discharge Monitoring Report (DMR) For the month of April, 2007. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Robert Pounds, Project Manager or Richard Allison, Environmental Specialist, as the authorized agent.

Please feel free to contact me, Robert Pounds at (405) 775-5168 if you have any further questions.

Sincerely,

KERR MCGEE CHEMICAL LLC FOREST PRODUCTO DIVISION

Richard D. Allison Environmental Specialist

Cc: Robert Pounds, KMC Oklahoma City, Ok Roland Hill, KMC Columbus, Ms





KMCC - FPD Facility - Columbus, MS

Month:

April. 07

Permit Requirement Init of Measurement		0&0	•	PHEN	OLS	рН
		XXXXXXXXXX	(XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	45,200					
2	44,800					6
3	46,600					
4	46,200					
5	47,500					
6	47,133	6	2.36	11.1	4.36	
7	47,133					8
8	47,134			. "		
9	45,300					6
10	45,000					
11	44,800					
12	46,000					
13	43,833					
14	43,833					
15	43,834					
16	49,200					6
17	46,290					
18	44,470					
19	47,540					
20	43,333	7	2.53	15.85	5.72	
21	43,333		•			
22	43,334					
23	46,450	782 782 10-32				6
24	46,420					
25	45,080					
26	44,570					
27	45,520					
28	45,520					
29	45,520	A 15 16 77 18 32				
30	45,600	2	\			6
31	2	3 -	3			
Avg.	45,549	6.5	2.45	13.48	5.04	6.
Max.	49,200	872	2.53	15.85	5.72	6
Min.	43,333	6	2.36	11.1	4.36	6

Table No. 2-3

KMCC-FPD Facility - Columbus, MS

Month/ March. 07

		0&0	3	PHEN	OLS	भदाउभ
Permit Requ						/V VVVVVVV
Unit of Meas						(X XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	49,900		1 - ,			
2	48,766	7	2.84	7.65	3.11	
3	48,767				<u> - </u>	
4	48,767					
5	49,000					6.6
6	48,400					
7	48,300					
. 8	48,600					
9	49,000					
10	49,000					
11	49,000					
12	49,100					6.5
13	47,700					
14	47,700		9			
15	47,400					
16	45,766	6	2.29	9.70	3.70	
17	45,767					
18	45,767					
19	47,700					6.5
20	48,000					
21	47,800					
22	47,800					
23	47,300					
24	47,300					
25	47,300					
26	49,400					6.6
27	46,700					
28	47,000					
29	47,500					
30	45,200					
31	45,200					
Avg.	47,771	6.5	2.57	8.68	3.41	6.55
Max.	49,900	7	2.84	9.70	3.70	6.6
Min.	45,200	le	2.29	7.45	3.11	6.5

603 GILLESPIE STREET ENVIRO-LABS, INC.

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

3107 Tabernacie Road Columbus, MS 39702 Attn: Ronald Hall TRONOX, LLC

	1	4	1
	Method	Deed	
Acceptable	Range of	Standard	
	Result of	Standard	
	Sample	Result	
		Perameter	
	Darte	Received	
	Sample	Description	
		Lab ID#	

420.1 <u>3</u>8 7 mg/l 7.65 mg/l TOTAL PHENOLS OIL & GREASE 3/2/2007

Effluent

1580

252627282930 Approved

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

March 06, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET

STARKVILLE, MS 39760-1096 P. O. BOX 1096

April 13, 2007

1-662-324-1745 (&FAX) USEPA LABCODE: MS00023 1-062-323-7744

Columbus, MS 39702 3107 Tabemacle Road Attn: Roland HIII TRONOX, LLC

	Method	pesn
Acceptable	Rangle of	Standard
	Result of	Standard
	Sample	Result
		Parametar
	Date	Received
	Cammla	Description
		Lab ID#

Sample Description	Bate Received	Parametar	Sample Result	Standard	Range of Standard	Wethod
E.Muent	3/16/2007	TOTAL PHENOLS	9.70mg/l			420.1
		OIL & GREASE	6 mg/l			1664

174

420.3

6 mg/l

OIL & GREASE

11.10 mg/l

TOTAL PHENOLS

4/6/2007

Effluent

1926

27 26272829303 27 26272829303 ***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 2011 EDITION

Sample Container:

Quantity

GP

1 L

Ice; Ced H2SO4, NaOH, HNO3

GP

500 ml

Ice; Ice & H2SO4, NaOH, HNO3

GP

Thiosulfate Present Y N

GP

125 ml

Ice; Ice & H2SO4, NaOH, HNO3

GP

125 ml

Ice; Ice & H2SO4, NaOH, HNO3

GA

40 ml vial

Ice

G A 40 ml vial

Sample Condition Upon Receipt:

Preserved N Proper Container N

Sample Disposal: Return to Client Disposal by Lab Archive

Temp Deg. C. 4

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab I.D. # 1744

					W. Carlotte
	Client:7	LONOX	LLC.	<u> </u>	ئرد- د
Sample Desc	ription:	FF/VENT	WALK Comp	oHr.	(Grab_
Residual Cl	pH	DO	Temp	Flow	
Collected by:	14.	· lui	Date: 3/1	<u>√</u> 7 Time: <u>7ċ</u> 6	am pm
Turn aroun	d Time: Norn	nal	Rush	Specify Date	
Hazard Identi	fication:	Non Hazard Flammable	Skin Vaka	Irritant own	
	'astewater		(Descrip	-	
Calibrations: pH Meter	Buffers	Date: Tir	ne: DO	Meter: Date	Time:
Requested Lab	•			Metals	Other
pH DO		BOD Fecal	TKN TOP		2 T+16
BOD	Ammo	200	Nitrate		200
TSS	Oil & G		Phenois		· ·
COD	Alk	alinity	Res Ci	•	***
Relinquished by:	D	ate/Time	Received by	. A.	Date/Time
1-8.1	Lik 3/4	6-07 7:00 R	m Mil	Kepiller	3/14/07 8:16
Relinquished by:	Da	nte/Time	Received b	y:	Date/Time
11 11	3/4/	11 9:05		МР	3/4/01 9:6:
(For Lab use only)					
Client:	~~~				
Received by:		Date	Timea	m pm	
Sample Container:	Quantity	Type	Size		G P
150	7_	G P	1 L 500 ml		04, NaOH, HNO3 04, NaOH, HNO3
Thiosulfate Present Y N		G P G P G A	250 ml 125 ml 40 ml vial		04, NaOH, HNO3 04, NaOH, HNO3
Sample Condition Upon Re	ceipt: Ter	mp Deg. C. 4	- 1	Preserved Proper Container	ON N
Sample Disposal: Return	to Client	Disposal by Lab	Archi	ve	

KMCC - FPD Facility - Columbus, MS

Month:

February. 07

Permit Requirement Unit of Measurement O&G CPHE

pH

mili di Measurei	lion			/2	15 -41 C)	
DATE	51.014				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
DATE	FLOW	mg/l	lbs.	mg/l	5181 LABS.	SU
1	51,000				All Y	<u> </u>
2	49,000	.7	2.86	9.8	4	
3	49,000	d				
4	49,000	E⊣.				
5	49,300		额			6.
6	49,300					
7	50,400					
8	50,200					
9	49,334	*				
10	49,333	N.				
11	49,333					
12	49,500					7.
13	48,400			,		
14	49,000					
15	48,300	150				
16	49,266	7	2.87	6.7	2.75	9
17	49,267					
18	49,267			14		2 8
19	48,800			_220		6.5
20	49,900		of and			
21	48,900	· · · · · · · · · · · · · · · · · · ·			z	
22	48,300			<u> </u>		
23	48,800					35.
24	48,800		- //			
25	48,800					30
26	48,400		**		III.	6.6
27	48,600				3	0.0
28	48,800	· ·				
29	1,376,300	-			 	
30	1,070,000	. 4				34
31	*	m, le	(9)	* 1	1	
Avg.	49,154	7	2.865	8.25	2 275	6.00
Max.	51,000	7		*****	3.375	6.83
Min.			2.87	9.8	4	7.3
IVIIII.	48,300	7	2.86	6.7	2.75	6.5

March 06, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET

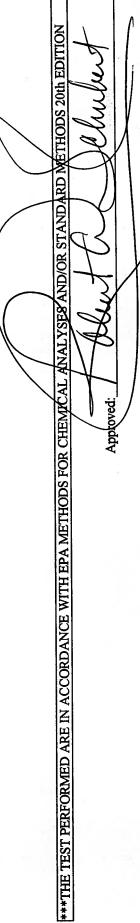
P. O. BOX 1096 STARKVILLE, MS 39760-1096

1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

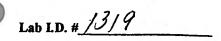
TRONOX, LLC
Attn: Ronald Hall
3107 Tabernacle Road
Columbus, MS 39702

Acceptable Sample Result of Range of Result Standard Standard	Result of Standard	Result of Standard		Method	Nsed
Ξ. W	Ξ. W	<u>κ</u> ν	Acceptable	Range of	Standard
Sample Result	Sample Parameter Result	Date Sample Received Parameter Result		Result of	Standard
	Parameter	Date Received Parameter		Sample	Result
Sample Date Description Received	Sample Description				ab ID #

_	e	1	_
420.1	1664	420.1	1664
9.80mg/l	7 mg/l	6.70mg/l	7 mg/l
TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE
2/2/2007		2/16/2007	
Effluent		Effluent	
1319		14,76	

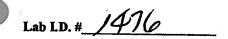


Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759



Client	: Thous	XL	L C 2031-12	
Sample Description	EFF VENT	weik Com	p. 1829 30 Hr.	6 rab
Residual Cl pH_	DO	<i>Temp</i>	Flore	3910
Collected by:	P. flee	_ Date: 3/2	Time: Alix	pm pm
Turn around Time:	Normal	Rush	Specify Date 9	GIAIL
Hazard Identification:	Non Hazard Flammable		Irritant nown	
Matrix: Water/Wasteway	ter Other	Ylov NS (Descri	CURTEL	
Calibrations: pH Meter Buffers	Date:		Meter: Date	Time:
Requested Lab Analys	es:	d		
DO BOD	Carb BOD Fecal Ammonia-N if & Grease Alkalinity	TKN TOP Nitrate Phenois Res Cl	Metals	Other
Relinquished by:	Date/Time	Received b	Cell Cen	Date/Time 2/101 8:30
Relinquished by:	Date/Time 2/2/07 8:30	Received	by:	Date/Time 2/2/07 8/30
(For Lab use only)	11	9.		
Client:			n Jě	
Received by:	Date	Time	am pm	*
Sample Container: Quantit	G P G P	Size 1 L 500 ml	Preserve Ice; Ice& H2S Ice; Ice & H2S	04, NaOH, HNO3
Thiosulfate Present Y N	G P G P G A	250 ml 125 ml 40 ml vial	Ice; Ice & H2S	SO4, NaOH, HNO3 SO4, NaOH, HNO3
Sample Condition Upon Receipt:	Temp Deg. C. 4		Preserved Proper Container	N N
Sample Disposal: Return to Clien	t <u>Disposal by Lab</u>	Archi	ve	

Enviro-Labs, Inc.
603 Gillespie St.
Starkville, MS 39759



Client: Tlowax L.L.C.
Sample Description: FFF WeikComp. Hr. Grab
Residual ClpHDOTempFlow
Collected by: 1 flut Date: 1/6.07 Time: 7'00 am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification:
Matrix: Water/Wastewater Other House WATEL
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH
Relinquished by: Date/Time Referred by: Date/Time 1-6-16-16-16-16-16-16-16-16-16-16-16-16-
Reliequished by: Date/Time Received by: Date/Time
16 2/16/07 9:00 LAS 2/16/07 9:
(For Lab use only) Client:
Received by: Date am pm
Sample Container: Quantity GP 1 L Ice; Ice& H2SO4, NaOH, HNO GP 250 ml Ice; Ice & H2SO4, NaOH, HNO GP Thiosulfate Present Y N GP 125 ml Ice; Ice & H2SO4, NaOH, HNO GP 125 ml Ice; Ice & H2SO4, NaOH, HNO GA 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved N Proper Container Y N
Sample Disposal: Return to Client Disposal by Lab Archive

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

STARKVILLE, MS 39760-1096 1-662-323-7744

Jan. 12, 2007

1-662-324-1745 (& FAX)

3107 Tabernacle Road Attn: Ronald Hall TRONOX, LLC

Columbus, MS 39702

Received Date Parameter USEPA LABCODE: MS00023 Sample Result

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL Approved NALYSES AND/OR STANDARDIN

Effluent

1050

1/5/2007

TOTAL PHENOLS

OIL & GREASE

7 mg/1

10.95 mg/l

Lab ID#

Description Sample

Result of Standard

Acceptable Range of Standard

Method Used

420.1

1664

Lab LD. #1050

,	эхідэ	nA	I yd Irroqrid	Return to Client	Sample Disposal:
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Hosot, Naoh, Huos	S eal #eal	[m 22] iv [m 04	6 A	NA	Thiosulfate Present
H2SO4, NaOH, HVO3 H2SO4, NaOH, HVO3		lm 002 lm 022	4 5 6 P		
EONH, HOS AOSTE		Size J I	advT 4 (3)	Quantity	Sample Container:
	and ms_	Time	Date	40	Received by:
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					603 Gillespi Starkville, I
050/#	Lab LD.				Enviro-Lab

Jan. 30, 2007

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

TRONOX, LLC Attn: Ronald Hall

1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

3107 Tabernacie Road Columbus, MS 39702

Lab ID #	
Sample Description	
Date	The state of the s
Parameter	THE RESERVE OF THE PARTY OF THE
Sample Result	
Result of Standard	
Range of Standard	
Wethod	

1203

Effluent

1/19/2007

TOTAL PHENOLS

10.25 mg/l

420.1

1664

OIL & GREASE

6 mg/1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STAND AND Approved: METHODS 20th EDITION

[02] #.G. da.1

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

	rithria X	led of lesognia	Return to Cheest	Sample Disposal:
Preserved N N Notes N N N N N N N N N N N N N N N N N N N	હ ંૈ_	Temp Deg. C.	lpon Receipt:	Sample Condition I
ice: ice & H2SO4, NaOH, HNO: Ice: ice & H2SO4, NaOH, HNO: Ice:	lm 025 lm 251 lsiv lm 04	G P	N X 1	nsear¶ stallusoid∏
Preserve Leet Reek HISOA, NaOH, HNO: Jeet Jeek HISOA, NaOH, HNO:	sxi2 J I Im 002	Type C P	Quantity 2	Sample Container:
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Metals Other	LIKIN	TP BOD	Lab Analyses: Ca	Requested
cter: Date Time:	(Description) M. O	Date: Tim	ier Buffers	Calibrations: pH Me
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	V]] -	Tolocall	·:11.J	



Mississippi Department of Environmental Quality Bureau of Pollution Control Attn: Mr. Larry Hamil P.O. Box 10385 Jackson, Ms 39289-0385

Re: January, 2007 - Wastewater DMR Kerr McGee Chemical LLC Columbus, Ms Permit No. MSP090021

Dear Mr. Hamil

Attached please find the Discharge Monitoring Report (DMR) For the month of January, 2007. With the changes at the plant from an operating to a decommissioned site, the DMR's will be issued from Oklahoma City with me, Robert Pounds, Project Manager or Richard Allison, Environmental Specialist, as the authorized agent.

Please feel free to contact me, Robert Pounds at (405) 775-5168 if you have any further questions.

Sincerely,

KERR McGEE CHEMICAL LLC EOREST PRODUCT DIVISION

Richard D. Allison Environmental Specialist

Cc: Robert Pounds, KMC Oklahoma City, Ok Roland Hill, KMC Columbus, Ms



KMCC - FPD Facility - Columbus, MS

Month:

January. 07

Permit Requirem Unit of Measurer		О&	G	PHEN	OLS	рН
Offic of Measurer		XXXXXXXXX	XXXXXXXXXX	.I «XXXXXXXXXXX	xxxxxxxxxx	XXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	48,975				· ·	
2	49,700					6.8
3	50,200					
4	50,600					7
5	50,733	7	2.96	10.95	4.63	
6	50,733					
7	50,734					~
8	52,600					6.6
9	50,600		-			
10	53,000					
11	52,500					
12	50,600			8		
13	50,600					
14	50,600			2		
15	51,100					6.6
16	50,200					
17	53,500					
18	51,700				==00	
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22	51,600			5	J ₹	7
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24	53,500			9	100	
25	53,200			VI bis	684/	
26	51,466				CLLIUL	
27	51,467				. 54	
28	51,467					
29	52,300					7
30	50,400					
31	52,000					
Avg.	51,383	6.5	2.78	10.6	4.55	6.8
Max.	53,500	7	2.96	10.95	4.63	7
Min.	48,975	6	2.6	10.25	4.46	6.6

KMCC - FPD Facility - Columbus, MS

Month: December. 06

mit Requiren of Measure		O&	G	PHE	NOLS	рН
or Measure		××××××××	XXXXXXXXXX	 XXXXXXXXXXX	XXXXXXXXXXX	I XXXXXX
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3	37,534					†
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7	40,600	-	-			
8	41,600					
9	41,600					
10	41,600					
11	38,300				٠,	(
12	51,900	-				
13	49,200					
14	49,700					-
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Avg.	45,217	7.5	2.705	11.575	4 225 ti El	6.
Vlax.	51,900	8	3.22	13.15	5.29	6
Min.	37,533	7	2.19	10.1	3.16	6

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

Dec. 11, 2006

1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Ronald Hall
3107 Tabernecle Road
Columbus, MS 39702

CI 457 Parameter Result Result of Standard Acceptable Range of Standard Method Used

Effluent 12/1/2006 TOTAL PHENOLS OIL & GRBASE 10.10mg/ 7 mg/l **188** 420.1

4148

NID/OR STANDARD/METHODS 20th EDITION

NID/OR STANDARD/METHODS 20th EDITION

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL AMALYSES AND/OR STANDARD/METHODS 20th EDITION

Approved:

.

TELEGETICAL ACCIONA

TOTOLOGIC SOUTH LEGOPHANIC COLONNO

Inchysis Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, 165 39759

Sample Disposal: Beturn to Client

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da.l vd langeis

ENVIRO-LABS, INC.

Jan. 9, 2007

603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096
1-662-323-7744
1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

TRONOX, LLC
Attn: Ronald Hall
3107 Tabernacle Road
Columbus, MS 39702

	Standard	Standard	Result	Parameter	Received	Description	Lab ID#
Method	Range of	Result of	Sample		Date	Sample	
	Acceptante					,	

4320 **Effluent** 12/15/2006 TOTAL PHENOLS OIL & GREASE 13.15 mg/l 8 mg/1 1664 420.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL Approved: ANALYSES AND/OR STANDARD MEXHODS 20th EDITION

Lab LD. # 4320

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

zhiv-	A M	Disposal by Lab	Return to lient	sample Disposal:
N (1)	N			
Proper Container		1		
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al Ice	iv Im 04	77 0		
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Ice; Ice & H2SO4, NaOH, HNO3	Im 022	6 b	N X 10	Thiosulfate Presen
Ices, Ice & H2SO4, NaOH, HNO3	Im 002	4 9_'		
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KMCC - FPD - Columbus, Ms 2006 Metals & Organics Yearly Report

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Analysis

12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com



ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 975918. Samples arrived at the laboratory on Friday, January 27, 2006. The PO# for this group is ZSAL4KEOK0A90205.

Client Description Effluent_Weir Composite Water Sample Effluent_Weir Grab Water Sample

Lancaster Labs Number 4697219 4697220

ELECTRONIC COPY TO

Kerr-McGee Corporation

Attn: Tom Reed

1 COPY TO

Kerr-McGee Corporation

Attn: Steve Ladner



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fex: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Michelle J. Smith Group Leader



2425 New Holland Pike. PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4697219

Effluent Weir Composite Water Sample Columbus, MS

Collected:01/25/2006 11:05 through 01/26/2006 11:05

Submitted: 01/27/2006 09:10 Reported: 02/06/2006 at 11:09 Discard: 04/08/2006

SDG#: KMM59-01

by RH

Account Number: 07802

Kerr-McGee Corporation

PO Box 3048

Livonia MI 48150

				As Received		
CAT		,	As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07035	Arsenic	7440-38-2	0.0186 J	0.0200	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0150	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0100	mg/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

	_		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Arsenic	EPA 200.7	1	02/01/2006 20:58	John P Hook	1
Chromium	EPA 200.7	1	02/01/2006 20:58	John P Hook	1
Copper	EPA 200.7	1	02/01/2006 20:58	John P Hook	1
EPA 600 ICP Digest (total)	EPA 200.7	1	01/31/2006 21:00	Annamaria Stipkovits	1
	Arsenic Chromium Copper	Analysis Name Method Arsenic EPA 200.7 Chromium EPA 200.7 Copper EPA 200.7	Analysis Name Method Trial# Arsenic EPA 200.7 1 Chromium EPA 200.7 1 Copper EPA 200.7 1	Analysis Name Method Trial# Date and Time Arsenic EPA 200.7 1 02/01/2006 20:58 Chromium EPA 200.7 1 02/01/2006 20:58 Copper EPA 200.7 1 02/01/2006 20:58	Analysis Name Method Trial# Date and Time Analyst Arsenic EPA 200.7 1 02/01/2006 20:58 John P Hook Chromium EPA 200.7 1 02/01/2006 20:58 John P Hook Copper EPA 200.7 1 02/01/2006 20:58 John P Hook



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4697220

Effluent Weir Grab Water Sample Columbus, MS

Collected: 01/26/2006 11:15

by RH

Account Number: 07802

Submitted: 01/27/2006 09:10 Reported: 02/06/2006 at 11:09 Kerr-McGee Corporation PO Box 3048

Analysis Name

Livonia MI 48150

17.

Discard: 04/08/2006

CAT

No.

EFWRT SDG#: KMM59-02*

> As Received As Received

> > CAS Number

Limit of Dilution Quantitation Units Factor

TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

87-86-5

ug/l

14. Due to insufficient sample, the reporting limits for the GC/MS

semivolatile compounds were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

Result

CAT		Laboracory	CITTO	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	02/03/2006 17:40	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	01/31/2006 07:30	Danette S Cavalier	1



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Quality Control Summary

Client Name: Kerr-McGee Corporation Reported: 02/06/06 at 11:09 AM

Group Number: 975918

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Bl'ank LOO	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06030WAA026 Pentachlorophenol	Sample n N.D.	umber(s): 15.	4697220 ug/l	95		48-108		
Batch number: 060315732002 Arsenic Chromium Copper	Sample n N.D. N.D. N.D.	umber(s): 0.0200 0.0150 0.0100	4697219 mg/l mg/l mg/l	113 102 104		85-115 85-115 85-115		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 060315732002 Arsenic Chromium Copper	Sample 111 103 106	number	(s): 4697219 80-120 80-120 80-120	UNSPK	: P691	347 BKG: P6 0.0097 J N.D. 0.0309		200* (1) 38* (1) 2 (1)	20 20 20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 06030WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	
4697220 Blank LCS	31 34 38	41 52 57	74 88 98	
Limits:	10-80	10-99	31-148	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Acct. # 7802 Group# 975918 Sample # 4697219-20 COC # 0088537

Lancaster Laboratories Where quality is a science.

	Please print. Instructions on reverse side correspond with circled numbers y	h circled nur	Ders				
Client: Sele Males Chemen Acct. #:		(5)		Nada Renuise	ed For La	For Lab Use Only ESC:	<u>~</u>
Project Name#: Quarked lastunts PWSID#:	and the second	<u></u>	700	///	SCR#:		
Project Manager: Stew Safety P.O.#:		>	\ 2 2	///			(9)
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(2)		EM.	_	///			
		/	//	///	/ Remarks		
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(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)	Relinquished by:	7	Date Tin	Time Received by:		Date	Time (9
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Phone #: Fault sequested by (please clicie). Friorie Fax E-Iriali							
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Type VI (Raw Data) Yes	Relinquished by:		Date Time	ne Received by:	/	Date	Time
GLP GLP							
1ype II (1.1ef II) Other (if yes, indicate QC sample and submit triplicate volume.) Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No	Relinquished by:	<u> </u>	Date Time	Received by		Date	Time
	2	1		Clesso	SOF NA	appr	Bla
		The second second	1	1			STATE OF STREET

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

th per ml
th

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

X.Y.Z

Organic Qualifiers

Defined in case narrative

Inorganic Qualifiers

			-
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
Е	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA <0.995
U	Compound was not detected		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Lab I.D. # 2233

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Clien	nt: Kell. N	nofque	
Sample Description	n: <u>FFFluer</u>)	CompHr	. Grab
Residual Cl p.	I DO	Temp Flow	
Collected by:	A. I hel	Date: 5/5-0 Time:_	7. exam pm
Turn around Time	: Normal)	Rush Specify Date	No.
Hazard Identification	n: Non-Hazard Flammable	Skin Irritant	
Matrix: Water/Wastew	ater Other	Thous D WATE	l
Calibrations: pH Meter Buffers	Date: Tin	(Description) ne: DO Meter: Date	Time:
Requested Lab Analy	yses:	Met	als Other
рН	Carb BOD	TKN	ais (iner
DO	Fecal	TOP	
BOD	Ammonia-N	Nitrate	
	Oil & Grease	Phenols	
COD	Alkalinity	Res Cl	
Relinquished by:	Date/Time	Received by:	Date/Time
18. flil	· 5/5-06 7	1:05 AM Mall	Jun 5/5/06 9: 25
Relinquished by:	Date/Time	Received by:	Date/Time
The Br	\$5/06 10:20	LAS	5/406 10:20
(For Lab use only)			
Client:			
Received by:	Date	Timeam pm	
Sample Container: Quan	//- \ -	Size Preserve	G P H2SO4, NaOH, HNO3
$\frac{2}{2}$	\subseteq G P		H2SO4, NaOH, HNO3
	G P		H2SO4, NaOH, HNO3
Thiosulfate Present Y N	G P G A	125 ml Ice; Ice & 40 ml vial Ice	H2SO4, NaOH, HNO3
Sample Condition Upon Receipt:	Temp Deg. C. 4	Preserv Proper Contain	red N N
Sample Disposal: Return to Cli	ent Disposal by Lab	Y Archive	



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-658-2681 • www.lancasterlabs.com



ANALYTICAL RESULTS

Prepared for:

Tronox, LLC PO Box 3049 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 987228. Samples arrived at the laboratory on Thursday, April 27, 2006. The PO# for this group is ZSAL4CEOK0A50205.

Client Description
Effluent_Weir Grab Water Sample

<u>Lancaster Labs Number</u> 4759006

I COPY TO ELECTRONIC COPY TO Tronox LLC
Tronox LLC

Attn: Steve Ladner Attn: Tom Reed



12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Rachel R. Cochis

Kachel & Cockis

Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4759006

Effluent_Weir Grab Water Sample Columbus, MS

Collected:04/26/2006 14:40

by RH

Account Number: 11947

Submitted: 04/27/2006 09:55 Reported: 05/04/2006 at 13:27

Tronox, LLC PO Box 3049

Discard: 07/04/2006

Livonia MI 48150

WEIR- SDG#: KMM61-01*

CAT No.	Analysis Name	CAS Number	As Receiv Result	As Received red Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	13. J	14.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Laboratory Chronicle Analysis											
No. 04678	Analysis Name TCL SW846 Semivolatiles/Waters	Method SW-846 8270C	Trial#	Date and Time 05/03/2006 02:31	Analyst Mark A Clark	Dilution Factor						
00813	BNA Water Extraction	SW-846 3510C	1	05/01/2006 17:00	Olivia I Santiago	1						



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Page 1 of 1

Quality Control Summary

Client Name: Tronox, LLC

Reported: 05/04/06 at 01:27 PM

Group Number: 987228

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

Laboratory Compliance Quality Control

Bľank LCS Report LCSD LCS/LCSD Analysis Name Result LOO Units %REC %REC Limits RPD RPD Max Batch number: 06121WAC026 Sample number(s): 4759006 Pentachlorophenol N.D. 15. 77 48-108

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

MSD MS/MSD RPD BKG DUP DUP Dup RPD Analysis Name %REC %REC Limits RPD MAX Conc Conc <u>RPD</u> Max

 Batch number: 06121WAC026
 Sample number(s): 4759006
 UNSPK: P760815

 Pentachlorophenol
 53
 52
 6-138
 2
 30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 06121WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromopher	ol
4759006	59	38	94	
Blank	56	36	87	
LCS	64	41	93	
MS	56	40	83	
MSD	55	38	82	
Limits:	10-99	10-80	31-148	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

1947 July For Lancaster Laboratories use only Acct. # 7500 4th Bloup# 987338 Sample # 4759006

COC # 0088536

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۱,	HEREL FOOT. #:	1 Quote #:	7.0		38-46						1	Turnaround Time Requested (TAT) (please circle): Normal (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)	Fax		N. S.	Site-specific QC required? Yes	Internal Chain of Custody required?
	200	12/	1	57	Z		-		-		-	e circle)	Phone		Ð	C requi	of Cust
1	1913	8/	ollectec									(pleas tories ap	│ .	Lax #:	if require	Data) vecific Q	l Chain
1	Te le		Name of state where samples were collected:		9							Turnaround Time Requested (TAT) (please circle): (Rush TAT is subject to Lancaster Laboratories approval an	Rush results requested by (please circle):	25	Data Package Options (please circle if required)		
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200	14	Sampler:	where		st c	-						Time Rulbject to	Rush results requested by Phone #:	s:	3 Option	_	Type III (NJ Red. Del.) Type IV (CLP)
B	Client: A Land	er:	of state		le le							round	esults r #:	E-mail address:	Data Package	Type I (Tier I) Type II (Tier II)	Type III (NJ Re Type IV (CLP)
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							7777					(b)		− (<u> </u>	-	

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2102 Rev. 10/27/02

Directions For Completing This Form

(1) Client: Your company's name

Acct. #: Your account number with Lancaster Laboratories

Project Name/#: The way your company refers to the work involved with these samples. You may want to include project location as part of the description.

اليو

PWSID: Potable Water Source ID#

Project Manager: The person at your company responsible for overseeing the project

P.O.#: Your company's purchase order number

Sampler: The name of the person who collected the samples

Quote #: The reference number that appears on your quote (if Lancaster Laboratories gave you a number)

State where sample was collected: Please indicate where the sample was taken, e.g., PA, NJ, etc.

(2) Sample Identification: The unique sample description you want to appear on the analytical report

Date Collected/Time Collected: When the sample was collected

- (3) Grab: Check here if sample was taken at one time from a single spot.
 Composite: Check here if samples were taken from more than one spot, or periodically, and combined to make one sample.
- (4) Matrix: Check the type of sample you are submitting. If it is a water sample, please indicate if it is a potable water or if it is an NPDES sample.

Number of Containers: Indicate the total number of containers for each sampling point.

(5) Analyses Requested: Write the name of each analysis (or an abbreviation of it) here, and use the catalog number that appears at the beginning of each line in the Schedule of Services. Be sure to indicate which analyses are to be performed on which samples.

(6) Remarks: List special instructions about the sample here (e.g., hezardous elements, high levels of analyte, etc.). The space can also be used (if needed) for listing additional analyses.

(7) Turnaround Time Requested: Circle Normal if you want routine TAT, which is usually within 10-15 days. If you need your results faster, call ahead to schedule Rush work.

Rush Results Requested by: Circle Fax or Phone and include the number.

(8) Data Package Options: Call our Client Services Group (717-656-2300) if you have questions about these choices.

SDG Complete? Indicate **Yes** if this is a complete sample delivery group or **No** if you will be submitting additional samples to be included in the same data package.

Note: We need to have one quality control (QC) sample for every 20 samples you send, if you are requesting site-specific QC. Please give us this sample in triplicate volume and identify it by writing "QC" in the Remarks column.

The internal chain of custody is a hand-to-hand documentation recording a sample's movement throughout the company. We routinely start a chain of custody for data package samples unless we are told otherwise. There is a \$25 per sample charge for the chain-of-custody documentation.

(9) Relinquished by/Received by: The form must be signed each time the sample changes hands. We can supply chain-of-custody seals for the outside of your packages if you require them.

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cai	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ĭ	liter(s)
mi	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

X.Y.Z

Organic Qualifiers

Defined in case narrative

Inorganic Qualifiers

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument	100	for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	w	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA <0.995
U	Compound was not detected		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

Lab I.D. # 286

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Cl	ient: Kell. A	Nyque		
Sample Descrip	tion: EFFIUENT	LIAComp	_Hr.	Grab.
Residual Cl	pH DO	Pel.	low 13	24 25 26 27 28 30 30
Collected by:	L. flesh	70	me: 7.00	(am) pm
Turn around T	ime: Normal	Rush Specify	Date	The state of the s
Hazard Identifica	tion: Non Hazard Flammable	Skin Irritant Unknown	Str	18910112131
Matrix: Water/Was	tewater Other	FlourD WA	TCL	
Calibrations: pH Meter But	fersDate:]	(Description) Time: DO Meter:	Date	Time:
Requested Lab A	nalyses:		Metals	Other
pH	Carb BOD	TKN		
DO	Fecal	TOP		
BOD	Ammonia-N_	Nitrate		
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Client:				
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Sample Container:	Quantity GP GP	1 L Ice 500 ml Ice; 1	ce & H2S	94, NaOH, HNO3 04, NaOH, HNO3
Thiosulfate Present Y N	G P G P G A			04, NaOH, HNO3 04, NaOH, HNO3
Sample Condition Upon Reco	eipt: Temp Deg. C. 4	Proper	Preserved Container	N N
Sample Disposal: Return	Client Disposal by L	ab X Archive	,	1.0



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ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 999251. Samples arrived at the laboratory on Friday, July 28, 2006. The PO# for this group is ZSAL4CEOK0A50205.

Client Description Weir_Box_OF001 Composite Water Sample Weir_Box OF001 Grab Water Sample

Lancaster Labs Number 4826299 4826300

ELECTRONIC COPY TO 1 COPY TO

Tronox LLC

Tronox LLC

Attn: Tom Reed

Attn: Steve Ladner



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-658-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Charles J. Neslund
Manager



mg/l

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4826299

Weir_Box_OF001 Composite Water Sample Columbus, MS

Collected: 07/27/2006 11:40

by RH

Account Number: 11947

Submitted: 07/28/2006 09:40

Tronox LLC P.O. Box 268859

Reported: 08/18/2006 at 08:39 Discard: 10/18/2006

Oklahoma City OK 73126-8859

OF01C

SDG#: KMM66-01

				As Received		
CAT		,	As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07035	Arsenic	7440-38-2	0.0204	0.0200	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0150	mg/l	1 24 2
07053	Copper	7440-50-8	N.D.	0.0100	mg/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT			1	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07035	Arsenic	EPA 200.7	1	07/31/2006 19:56	John P Hook	1
07051	Chromium	EPA 200.7	1	07/31/2006 19:56	John P Hook	1 1
07053	Copper	EPA 200.7	1	08/01/2006 17:44	John P Hook	1 1
05732	EPA 600 ICP Digest (total)	EPA 200.7	1	07/31/2006 00:30	Helen L Schaeffer	
						TRACE TO BE SEED OF THE SECOND



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4826300

Weir Box OF001 Grab Water Sample Columbus, MS

Collected: 07/27/2006 11:45

by RH

Account Number: 11947

Submitted: 07/28/2006 09:40 Reported: 08/18/2006 at 08:39

Discard: 10/18/2006

CAT

No.

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

OF01G SDG#: KMM66-02*

Analysis Name

As Received

As Received Limit of CAS Number

Quantitation

Dilution Units Factor

TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

N.D.

Result

17.

ug/l

Due to insufficient sample, the reporting limits for pentachlorophenol were raised.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT		Laboratory	CIIIO	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	08/16/2006 02:40	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	08/01/2006 15:15	Kerrie A Greenfield	1



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Page 1 of 1

Quality Control Summary

Client Name: Tronox LLC

Reported: 08/18/06 at 08:39 AM

Group Number: 999251

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Bl'ank <u>LOO</u>	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max	
Batch number: 062125732001 Arsenic Chromium Copper	Sample n N.D. N.D. N.D.	umber(s): 0.0200 0.0150 0.0100	4826299 mg/l mg/l mg/l	107 98 100		85-115 85-115 85-115			
Batch number: 06213WAB026 Pentachlorophenol	Sample non N.D.	umber(s): 15.	4826300 ug/l	76	81	48-108	6	30	

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD Max
Batch number: 062125732001 Arsenic Chromium Copper	Sample 114 99 102	number	(s): 4826299 80-120 80-120 80-120	9 UNSPK	: P825	921 BKG: P N.D. N.D. 0.0048 J	825921 N.D. N.D. 0.0049	25* (1) 9 (1) J 3 (1)	20 20 20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4826300	64	46	103	- 81 L
Blank	64	41	105	
LCS	60	40	103	
LCSD	61	41	107	
Limits:	10-101			
DIMITES:	10-101	10-82	31-148	-20

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

COC# 0112909

Please print. Instructions on reverse side correspond with circled numbers.

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Lancaster Laboratories, İnc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.02

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cai	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	× I	liter(s)
mi	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- Dry weight Besults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

X,Y,Z

Organic Qualifiers

Defined in case narrative

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
·D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument	137	for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
-P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

Tronox LLC P.O. Box 268859 Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1013351. Samples arrived at the laboratory on Wednesday, November 08, 2006. The PO# for this group is ZSAL4CEOK0A50205.

Client Description
Weir_Box Grab Water Sample

<u>Lancaster Labs Number</u> 4910522

ELECTRONIC COPY TO

Tronox LLC

Attn: Tom Reed

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Richard H. Karam Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4910522

Weir Box Grab Water Sample Columbus, MS

Collected:11/07/2006 07:04

by RH

Account Number: 11947

Submitted: 11/08/2006 10:15

Reported: 11/20/2006 at 17:36 Discard: 01/20/2007

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

WEIRB SDG#: KMM69-01*

As Received CAT As Received Limit of Dilution No. Analysis Name CAS Number Result Quantitation Units Factor TCL SW846 Semivolatiles/Waters 03934 Pentachlorophenol 87-86-5 15. ug/l

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

			- 1			
CAT			_	Analysis	•	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	11/13/2006 04:18	William T Parker	1
00813	BNA Water Extraction	SW-846 3510C	1	11/09/2006 14:30	Olivia I Santiago	1



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Page 1 of 2

Quality Control Summary

Client Name: Tronox LLC

Reported: 11/20/06 at 05:36 PM

Group Number: 1013351

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

Laboratory Compliance Quality Control

Blank Blank Report LCS LCSD Analysis Name Result <u>LOO</u> <u>Units</u> %REC %REC <u>Limits</u> <u>RPD</u> RPD Max Batch number: 06313WAC026 Sample number(s): 4910522 15. Pentachlorophenol ug/l 78 48-108

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

MS MSD MS/MSD BKG DUP DUP Dup RPD Analysis Name %REC **Limits** Conc Conc RPD Max

Batch number: 06313WAC026

Pentachlorophenol

Sample number(s): 4910522 UNSPK: P13WCUS 85 87 3-134 30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 06313WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
4910522	33	27	.99	81
Blank	53	37	114	89
LCS	58	40	116	95
MS	46	32	103	92
MSD	46	32	112	92
Limits:	10-101	10-82	31-148	51-123
	2-Fluorobiphenyl	Terphenyl-d14		
4910522	85	96		-
Blank	86	92		
LCS	92	99		
MS	89	102		
MSD	94	103	80.0	
Limits:	64-112	52-151		7

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 2 of 2

Quality Control Summary

Client Name: Tronox LLC Reported: 11/20/06 at 05:36 PM

Group Number: 1013351

*- Outside of specification

(2) The background result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

Acct. # 3562 Group# 1013351 Sample # 4910533 Please print: Instructions on reverse side correspond with circled numbers.

COC# 0112908

Chem. / Chalo /	Acet. #. 7889	4				For L	For Lab Use Only	hly
Project Manager: Anson Brooms S. D. C.	Stewnowsid#	nay		L		SCR#	SCR #: 254/9	75
Sampler: Kolanci Ihil	Quote #:	1307		-				9
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Type III (NJ Red. Del.) Internal Cha	Internal Chain of Custody required? Yes No	Relinquished by:	Date	Time	Time Received by:	100	Date	Time
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Lancaster Laboratories Explanation of Symbols and Abbreviations

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N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
, с	degrees Celsius	. F.	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)		liter(s)
ml ₋	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

- ppb parts per billion
- Dry weight Basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

X,Y,Z

Organic Qualifiers

Defined in case narrative

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""><td></td></crdl,>	
В	Analyte was also detected in the blank	E	Estimated due to interference	
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met	
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits	
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation	
J	Estimated value	U	Compound was not detected	
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits	
P	Concentration difference between primary and	*	Duplicate analysis not within control limits	
	confirmation columns >25%	+	Correlation coefficient for MSA <0.995	
U	Compound was not detected			

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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KMCC - FPD Facility - Columbus, MS

Month:

November. 06

Permit Requirement Unit of Measurement

900Z OHO PHENOLS

рΗ

		XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	XXXXXXXXXX	XXXXXXXX
DATE	FLOW	mg/l	101 165,111	mg/l	lbs.	SU
1	47,800		\$1			
2	46,200					ļ
3	46,366	7	2.7	9.35	3.61	
4	46,367					
5	46,367					
6	47,600					6.6
7	46,900					
8	49,100					
9	46,400					
10	49,033					
11	49,033					
12	49,034					
13	48,200					6.4
14	48,800					
15	46,000					
16	45,700	-				
17	48,066	6	2.4	10.8	4.32	
18	48,067					
19	48,067		_			
20	47,700					6.7
21	47,800					
22	45,300					
23	45,400					
24	45,366					
25	45,367	<u> </u>				
26	45,367					
27	43,000					6.8
28	40,400					(0)
29	39,600					
30	38,500					
31						
Avg.	46,230	6.5	2.55	10.08	3.97	6.63
Max.	49,100	7	2.7	10.8	4.32	6.8
Min.	38,500	6	2.4	9.35	3.61	6.4

KMCC - FPD Facility - Columbus, MS

Month:

Jan. 06

Permit Requirement Unit of Measurement		O8	kG	PHE	NOLS	рН
		**************************************			XXXXXXXXXXXXX	(XXXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	45,390					
2	42,410					6.2
3	45,300					
4	43,600					·
5	44,400					· ,
6	43,400	7	2.51	10.25	3.68	
7	43,400					
8	43,400					-
9	42,800					6.5
10	42,900					
11	44,300	*				
12	42,300					
13	44,366					
14	44,367			-		
15	44,367					
16	46,000					6.6
17	46,100					- 0.0
18	46,200					
19	46,600					
20	46,400	7	2.69	8.8	3.38	
21	46,400				0.00	
22	46,400					
23	50,159					6.4
24	48,241			617	1819202	
25	49,300			20 20 20 20 20 20 20 20 20 20 20 20 20 2	18 19 20 27	
26	50,000			/2	1/1/1/20 03	
27	48,400				2/1/2	
28	48,400			0	25 26	
29	48,400			100	 	
30	51,503		· · · · · · · · · · · · · · · · · · ·	150	660	6.1
31	49,197			385	1-1506	<u> </u>
Avg.	45,948	7	2.6	9.53	3.53	6.36
Max.	51,503	7	2.69	10.25	3.68	6.6
Min.	42,300	7	2.51	8.8	3.38	6.1

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

Jan. 17, 2006

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacie Road
Columbus, MS 39702

1045		5235	Lab ID #
Effluent		Effluent	Sample Description
1/6/2006		12/16/2005	Date Received
TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	Parameter
10.25 mg/l	6 mg/l	7.7 mg/l	Sample Result
21314151677			Result of Standard
08 62 87 LZ 97 C	2021222332		Acceptable Range of Standard
420.1	1664	420.1	Method Used

OIL & GREASE

7 mg/l

423456789701

1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL Approved ANALYSES AND/OR STAMBARD METHODS 20th EDITION

Lab LD. # 1045

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Client: Koll-Mofger
Sample Description: FFF Well Comp. Hr. Grab
Residual ClpHDOTempFlow
Collected by: Lellie Date: 1/6.06 Time: 7.00 mm pm
Turn around Time: Normal Rush Specify Date
Hazard Identification: Non Hazard Skin Irritant Flammable Unknown
Matrix: Water/Wastewater Other- Other- Other-
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH Carb BOD TKN
DO Fecal TOP
BOD Ammonia-N Nitrate
TSS Oil & Grease Phenols
COD Alkalinity Res Cl
Relinquished by: Date/Time Received by: Date/Time
1-8-160 1/6 06 7:00 Res Million 1/4/06 9:
Relinquished by: Date/Time Received by: Date/Time
1/06/12:30 /19/5 1/6/06/12
(For Lab use only) Client:
Received by: Date am pm
Sample Container: Quantity Type Size Preserve G P
A LUCY MACH. HNO.
Thiosulfate Present Y N G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 125 ml Ice; Ice & H2SO4, NaOH, HNO3
Sample Condition Upon Receipt: Temp Deg. C. Preserved N
Proper Container N
Sample Disposal: Return to Client Disposal by Lab

Feb. 15, 2006

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

STARKVILLE, MS 39760-1096

1-662-323-7744

1-662-324-1745 (&FAX) USEPA LABCODE: MS00023

> Kerr McGee Chemical-Forest Prod Div. Attn: Ronald Hill 3107 Tabernacle Road Columbus, MS 39702

				,
	1305		1199	Lab ID#
	Effluent		Effluent	Sample Description
	2/3/2006		1/20/2006	Date Received
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	Parameter
7 mg/l	13.00 mg/l	7 mg/l	8.8Omg/l	Sample Result
01121314157	1617/8/20			Result of Standard
2006 EB 2006 E	617 10 20 21 22 23 24 AVER 18 18 18 18 18 18 18 18 18 18 18 18 18			Acceptable Range of Standard
1664	420.1	1664	420.1	Method Used

2 • d

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD WETHODS 20th EDITION

Approved:

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CUBLUSTAIL

en to no notth





Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab L.D. # 1/99

Client: Kell. M. 9 7 e.
Sample Description: FF Vest weik Comp. Hr. Grab
Residual ClpHDOTempFlow
Collected by: 18. flul Date: 150 of Time: 705 (am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification:Non HazardSkin IrritantUnknown
Matrix: Water/Wastewater Other of soll WHTCL
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH Carb BOD TKN DO Fecal TOP BOD Ammonia-N Nitrate TSS Qil & Grease Phenols COD Alkalinity Res Cl
Relinquished by: Date Time Received by: Date Time L. S. Shir 1/20/06 8.50
Relinquished by: Date/Time Received by: Date/Time
(For Lab use only)
Client:
Received by: Date am pm
Sample Container: Quantity Type Size Preserve G P 1 L leg; lee& H2SO4, NaOH, HNO3 G P 500 ml lee; lee& H2SO4, NaOH, HNO3
Thiosulfate Present Y N G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container N
Sample Disposal: Return to Client Disposal by Lab Archive

KMCC - FPD Facility - Columbus, MS

Month:

Dec. 05

Permit Requirement Unit of Measurement					NOLS	рН
	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	45,094					6.3
2	44,435	7	2.57	5.05	1.85	
3	44,435					
4	44,436					
5	47,400					
6	43,250					
7	46,150					
8	45,500					6.3
9	44,800					1 0.0
10	44,800					
11	44,800					
12	43,200				 	
13	45,900				 	
14	43,300			 		
15	45,600					0.0
16	44,833	6	2.2	7.7	2.83	6.3
17	44,833		2.2	1.1	2.03	
18	44,834			 		
19	44,600			 		
20	43,900			 		
21	43,700			 	 	
22	44,500				 	
23	44,266			 		6.4
24	44,267					
25	44,267					
26	43,250					
27	47,050					
28	45,900			 		
29	44,300			 		
30	44,050			 		6.4
31	44,050			 -		
Avg.	44,700	6.5	2 205	0.075		
Max.	47,400	7	2.385	6.375	2.34	6.34
Min.	43,200	6	2.57	7.7	2.83	6.4
	70,200	<u> </u>	2.2	5.05	1.85	6.3

Dec. 12, 2005

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabemacle Road
Columbus, MS 39702

· · · · ·	s.			
Method	420.1	1664	420.1	1664
Acceptable Range of Standard				
Result of Standard				ě

Sample Result	'12.40 mg/l	7 mg/l	5.05 mg/l	7 mg/l
Parameter	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE
Date Received	11/18/2005		12/2/2005	
Sample Description	Effluent		Effluent	
				11 11 • 6
Lab ID #	4979		5056	
			30 € - 17	

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION Approved Kerr McGee Chemical-Forest Prod Div.

1664

7 mg/l

OIL & GREASE

1045

420.1

ENVIRO-LABS, INC.

STARKVILLE, MS 39760-1096 603 GILLESPIE STREET P. O. BOX 1096 1-662-323-7744

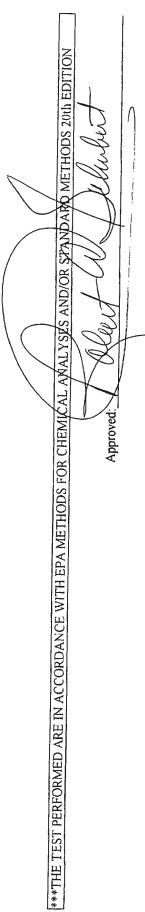
1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

3107 Tabemacle Road Columbus, MS 39702 Attn: Ronald Hill

Result of Rande of Marked		Standard Standard
Вашь		Parameter
Date	Parist of Co.	Received
Sample	Decodotion	Mascription
	# CI 48	- CO - CO - C

420.1	1664	420.1
7.7 mg/l	6 mg/l	10.25 mg/l
12/16/2005 TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS
12/16/2005		1/6/2006
Effluent		Effluent

5235



Jan. 17, 2006

Anarysis Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab I.D. # 5, 56

Client: Kell.	01/9 ml
Sample Description: FFF/09 WT	- Weik Comp. Hr. Grab
Residual Cl pH DO	Flow
Collected by: A. fluid	
Turn around Time: Normal	Rush Specify Date
Hazard Identification: Non Hazard Flammable	Skin Irritant Onknown
Matrix: Water/Wastewater Other	(Description)
Calibrations: pH Meter Buffers Date: T	ime: DO Meter: Date Time:
Requested Lab Analyses:	
pH	TKN
Relinquished by: Date/Time 1-4-15-05-0130	Received by: Date/Time 12/405 8:3
Relinquished by: Date/Time	Received by: Date/Time LAL 12/165 10:30
(For Lab use only)	
Client:	
Received by: Date	Timeam pm
Sample Container: Quantity GP GP GP Thiosulfate Present YN GA GA	Size Preserve 1 L Ice; Ice H2SO4, NaOH, HNO3 500 ml Ice; Ice H2SO4, NaOH, HNO3 250 ml Ice; Ice H2SO4, NaOH, HNO3 125 ml Ice; Ice H2SO4, NaOH, HNO3 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C.	Preserved N Proper Container Y N
Sample Disposal: Return to Client Disposal by Lab	Archive

Analysis Request & Chain of Custody Record



Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

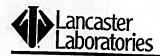
Lab I.D. #_5235

Client: Kell-Me/que
Sample Description: FFF WENT WILL Comp. Hr. Grab
Residual ClpHDOTempFlow
Collected by: 14 / Date: 12/16 Time: 8:00 (am) pm
Turn around Time: Normal Rush Specify Date
Hazard Identification:Non HazardSkin IrritantBlammableUnknown
Matrix: Water/Wastewater Other Hodn WATEL
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH Carb BOD TKN
COD Alkalinity Res Cl
Relinquished by: Date/Time Received by: Date/Time
LE 1/w 12/16/05 9:00 Man Nallie Ville 12/16/05 9:
Relinquished by: Date/Time Received by: Date/Time
12/1405 10:35 LAB 14/6/65 103:
(For Lab use only)
Client:
Received by: Date am pm
Sample Container: Quantity Type Size Preserve Ica: Lee& H2SO4 NaOH, HNO3
Thiosulfate Present Y N G P 500 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 125 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container Y N
Sample Disposal: Return to Client Disposal by Lab Archive

KMCC - FPD - Columbus, Ms

Metals & Organics Yearly Report

Permit Requirements Unit of Measurement		Arsenic		Copper		Chromium		Pentachlorophenol	
Date	Flow	mg/l	lbs	mg/l	lbs	mg/l	lbs	mg/l	lbs
3/15/2005	48,268	0.0122	0.0049	<0.0100	0.004	<0.0050	0.002	0.028	0.0112
5/12/2005	44,456							0.024	0.0088
7/20/2005	53,801	0.0141	0.0062	0.002	0.0009	<0.0150	0.0066	0.016	0.0071
10/27/2005	45,035							0.014	0.0053
	100		division As						
Avg.		0.0132	0.00555	0.006	0.00245	0.01	0.0043	0.0205	0.0081
Max.		0.0141	0.0062	0.01	0.004	0.015	0.0066	0.028	0.0007
Min.		0.0122	0.0049	0.002	0.0009	0.005	0.002	0.014	0.0053



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 935737. Samples arrived at the laboratory on Thursday, March 17, 2005. The PO# for this group is ZSAL4KEOK0A90205.

Client Description
Effluent Weir Composite Water Sample
Effluent Weir Grab Water Sample

Lancaster Labs Number 4484288 4484289

1 COPY TO 1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner Attn: Chuck Swann



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Carrie A Fleming at (717) 656-2300.

Respectfully Submitted,

Julie A. Slaughenhoupt

Specialist



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4484288

Effluent Weir Composite Water Sample Columbus, MS

Collected:03/15/2005 07:31

through 03/16/2005 07:31 Submitted: 03/17/2005 09:00 Reported: 03/24/2005 at 12:05

Discard: 05/24/2005

GRMS- SDG#: KMM43-01

by RH

Account Number: 07802

Kerr-McGee Corporation

PO Box 3048

Livonia MI 48150

CAT No. 07035 07051 07053	Analysis Name Arsenic Chromium Copper	CAS Number 7440-38-2 7440-47-3 7440-50-8	As Received Result 0.0122 N.D.	As Received Limit of Quantitation 0.0100 0.0050	Units mg/l mg/l	Dilution Factor 1
07053 CO	Copper	7440-50-8	N.D.	0.0100	mg/l	1

Laboratory Chronicle

CAT			,	TITCIC		
No. 07035 07051 07053 05732	Analysis Name Arsenic Chromium Copper EPA 600 ICP Digest (total)	Method EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	1 1	and time	Donna R Sackett	Dilution Factor 1 1 1



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4484289

Effluent Weir Grab Water Sample Columbus, MS

Collected:03/16/2005 07:15

by RH

Account Number: 07802

Submitted: 03/17/2005 09:00 Reported: 03/24/2005 at 12:05

Kerr-McGee Corporation

Discard: 05/24/2005

WEIGR

CAT

No.

PO Box 3048 Livonia MI 48150

SDG#: KMM43-02*

As Received

As Received CAS Number Result

Limit of Quantitation

Dilution Factor

Units

TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

Analysis Name

87-86-5

28.

24.

ug/l

Laboratory Chronicle

CAT Analysis No. Analysis Name Dilution Method Trial# Date and Time Analyst 04678 TCL SW846 Factor SW-846 8270C 1 03/23/2005 04:29 Linda M Hartenstine Semivolatiles/Waters 00813 BNA Water Extraction SW-846 3510C 03/19/2005 10:45 Andrew G Newton 1



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Quality Control Summary

Client Name: Kerr-McGee Corporation

Reported: 03/24/05 at 12:05 PM

Group Number: 935737

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05077WAC026 Pentachlorophenol	Sample nu N.D.	mber(s): 25.	4484289 ug/l	92	94	48-108	3	30
Batch number: 050795732002 Arsenic Chromium Copper	Sample nu N.D. N.D. N.D.	0.0100 0.0050 0.0100	4484288 mg/l mg/l mg/l	106 103 101		92-109 95-112 92-110	-	30

Sample Matrix Quality Control

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 050795732002 Arsenic Chromium Copper	Sample 107 102 104	number	(s): 4484288 86-119 86-118 89-119	В		N.D. N.D. 0.0184	N.D. N.D. 0.0179	0 (1) 0 (1) 2 (1)	20 20 20 20

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 05077WAC026

1000	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4484289 Blank LCS LCSD	60 54 61 57	37 34 38 35	88 91 94 94	- 1
Limits:	10-99	10-80	31-148	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

COC # 0079650

Group# 935737 Sample # 4484288-89

3/1/6 0/6 ime (Time Time Time For Lab Use Only Se Se Date Date Date Date FSC: SCR#: Remarks Time | Received by: Time | Received by: Chate Time Received by Time | Received by: Time | Received by: S Please print. Instructions on reverse side correspond with circled numbers. 3465 Date Date Date Date હ 4 Relinquished by: Relimenished by: Refinquished by: Relinquished by Relipquished 6 Internal Chain of Custody required? Yes No Other (if yes, indicate QC sample and submit triplicate volume.) SDG Complete? 3/15k3 - 673/-3/16/65 073/ 21/5 E-mail Turnaround Time Requested (TAT) (please circle): (Normal Rush GLP Site-specific QC required? Yes No (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Yes HOW PWSID# Quote #: Acct. #: INVER P.O.#. 3.1605 Fax Phone Name of state where samples were collected: Data Package Options (please circle if required) Type VI (Raw Data) Fax#: Rush results requested by (please circle): Client: KERR MELES Project Name#: (Venn & Koly) Pluent WIER FAVORT WIEL Date results are needed: _ Type III (NJ Red Del.) Project Manager: E-mail address: Type II (Tier II) QC Summary Type I (Tier I) Type IV (CLP) Sampler: 🗾 Phone #:__ 6

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the

2102 Rev. 10/27/02



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C meq g ug mi m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliiter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

 Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

В	TIC is a possible aldol-condensation product Analyte was also detected in the blank	B E	Value is <crdl, but="" ≥idl<br="">Estimated due to interference</crdl,>
С	Pesticide result confirmed by GC/MS	M	Duplicate injection are det
D	Compound quantitated on a diluted sample		Duplicate injection precision not met
F	Concentration exceeds the sally of	N	Spike sample not within control limits
_	Concentration exceeds the calibration range of	· S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	
Р	Concentration difference between	_	Compound was not detected
	Concentration difference between primary and	W	Post digestion spike out of control limits

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Organic Qualifiers

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by: Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 935737. Samples arrived at the laboratory on Thursday, Mar 17 2005. The project for this group is Columbus, MS.

The PO# for this sample group is ZSAL4KEOK0A90205.

Sample Nc C	ollected	Through	Client Description
4484288	3/15/05 7:31		Effluent Weir Composite Water Sample
4484289	3/16/05 7:15		Columbus, MS Effluent Weir Grab Water Sample Columbus. MS

1 COPY TO Kerr-McGee Corporation Attn: Tom Reed
1 COPY TO Kerr-McGee Corporation Attn: Steve Ladner
1 COPY TO Kerr-McGee Corporation Attn: Chuck Swann

Questions? Contact your Client Services Representative Carrie A Fleming at (717)656-2300

Respectfully Submitted,

Julie A. Slaughenhoupt
Specialist

Lancaster Laboratories

Page 2 of 5

Analytical Report

Kerr-McGee Corporation Project: Columbus, MS SDG: KMM43

Report Date: 3/24/2005 12:05 Submit Date: 3/17/2005 9:00

Analysis Name	Units	4484288 Effluent	A.	4484289 Effluent		
Arsenic Chromium Copper Pentachlorophenol	mg/l mg/l mg/l ug/l	Result 0.0122 N.D. N.D. n.a.	LOQ 0.0100 0.0050 0.0100 n.a.	Result n.a. n.a. n.a. 28.	LOQ n.a. n.a. n.a. 24.	

Laboratory Chronicle

Page 3 of 5

CAT No.	Analysis Name	Method		Analysis Date/Time	Analyst	Dilution
448428	8 Effluent Weir Composite Water Sa	mple				
07035 07051 07053 05732	Arsenic Chromium Copper EPA 600 ICP Digest (total)	EPA 200.7 EPA 200.7 EPA 200.7 EPA 200.7	1 1	3/22/05 0126 3/22/05 0126 3/22/05 0126 3/20/05 2000	Donna R Sackett Donna R Sackett Donna R Sackett James L Mertz	1 1 1
448428 04678 00813	BEffluent Weir Grab Water Sample TCL SW846 Semivolatiles/Waters BNA Water Extraction	SW-846 8270C SW-846 3510C		3/23/05 0429 3/19/05 1045	Linda M Hartenstine Andrew G Newton	1 1

Client Name: Kerr-McGee Corporation

Group Number: 935737

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD	BBB	14 000	
Batch number: 05077WAC026		Sample nu	ımber(s): 448	100	701120	Limits	RPD	Max RPD	78.37
Pentachlorophenol	N.D.	25.	ug/l	92	94	48-108	3	30	
Batch number: 050795732002		Sample nu	mber(s): 448	4288			=	00	
Arsenic Chromium Copper	N.D. N.D. N.D.	0.0100 0.0050 0.0100	mg/l mg/l mg/l	106 103 101		92-109 95-112 92-110			
	Sam	ple Mat	rix Qual	ity Con	troi				
Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: 050795732002	5	Sample nun	nber(s): 4484	1288					Will
Arsenic Chromium Copper	107 102 104		86-119 86-118 89-119			N.D. N.D. 0.0184	N.D. N.D. 0.0179	0 (1) 0 (1) 2 (1)	20 20 20

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 05077WAC026

4484289	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
Hank Blank	60	37	88	
LCS	54	34	91	343
LCSD	61 57	38	94	<u>27</u>
Limits:	10-99	35	94	· ·
	10-33	10-80	31-148	

^{* -} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.(2) The background result was more than four times the spike added.

Page 5 of 5

Comments

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

4484288 Effluent Weir Composite Water Sample

4484289 Effluent Weir Grab Water Sample



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17805-2425 • 717-658-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 943422. Samples arrived at the laboratory on Friday, May 13, 2005. The PO# for this group is ZSAL4KEOK0A90205.

Client Description
#1 Grab Water Sample

<u>Lancaster Labs Number</u> 4524079

1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner

Questions? Contact your Client Services Representative Carrie A Fleming at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



ug/l

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4524079

#1 Grab Water Sample Quarterly Waste Water - MS

Collected:05/12/2005

Account Number: 07802

Submitted: 05/13/2005 08:55 Reported: 06/08/2005 at 14:46

Kerr-McGee Corporation PO Box 3048

Discard: 08/08/2005

Livonia MI 48150

QWW-1

SDG#: KMM48-01*

No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
04678	TCL SW846 Semivolatiles/Waters					
03934	Pentachlorophenol	87-86-5	24. ј	24.	ug/l	

Laboratory Chronicle

CAT		nicle				
No.	Analysis Name	Method	Trial#	Analysis		Dilution
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C		Date and Time 05/20/2005 19:38	Analyst Jolene M Graham	Factor
00813	BNA Water Extraction	SW-846 3510C	1	05/15/2015		1



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Page 1 of 1

Quality Control Summary

Client Name: Kerr-McGee Corporation Reported: 06/08/05 at 02:46 PM

Group Number: 943422

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank LOO	Report <u>Units</u>	LCS %REC	LCSD <u>%REC</u>	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05136WAG026 Pentachlorophenol	Sample nu	mber(s):	4524079			•		
remedentorophenor	N.D.	13.	ug/1	75	74	48-108	1	30

Surrogate Quality Control

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4524079 Blank LCS LCSD	58 52 61 58	39 35 40 39	99 93 99 96	
Limits:	10-99	10-80	31-148	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science

Acct. # 7803 Group# 94 3433 Sample # 4534079

COC # 0058112

3	For Lab Use Only FSC: SCR #: //foulf	9						Date Time 9	+=-	Date Time	Dete Time	Date Time
3.	Analysis (bediested); Fig. 80		,,	Remarks				Received by:	Received by:	Received by:	Received by:	Received by:
								Time of IL	III P	Time	Time	Time
circled num	767	70/0 ₀					7	C Date	and Sales	Date	Date	Date
Please print, Instructions on reverse side correspond with circled numbers.	Name#: Or # / Te X pure a control #:	Quote #:	(2) State while samples were collected: AM. (3) I I I I I I I I I I I I I I I I I I I	AL X 2 H			Rush	approval and surcharge.	Phone #: Refine Fax #-mail Relinquished by: Fax #:	ptions (please circle if required) SDG Cor	GLP Site-specific QC required? Yes No Other (if yes, indicate QC sample and submit rithilings will make the contract of the co	

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2396 / C Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
iU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug ug	microgram(s)	mq	milligram(s)
mi	milliliter(s)	ĭ	liter(s)
m3	cubic meter(s)	ui	microliter(s)

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

	-		morganio Quannoto
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Е	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
<u>U</u>	Compound was not detected	+	Correlation coefficient for MSA <0.995
Y,Z	Defined in case narrative		Consider Coefficient for MOA (0.995)

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by: Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 943422. Samples arrived at the laboratory on Friday, May 13 2005. The PO# for this group is Columbus, MS.

The PO# for this sample group is ZSAL4KEOK0A90205.

Sample Nc Collected

4524079

5/12/05

Client Description

#1 Grab Water Sample Quarterly Waste Water - MS

1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner

Questions? Contact your Client Services Representative Carrie A Fleming at (717)656-2300

Respectfully Submitted,

Michele J. Smith Group Leader

Lancaster Laboratories

Page 2 of 5

Analytical Report

Kerr-McGee Corporation Project: Quarterly Waste Water - MS SDG: KMM48

Report Date: 6/8/2005 14:46 Submit Date: 5/13/2005 8:55

Applysis No.		4524079		
Analysis Name	Units	#1 Grab		
Pentachlorenhaust		Result	LOQ	
Pentachlorophenol	ug/l	24. J	24.	

Laboratory Chronicle

Page 3 of 5

CAT No.	Analysis Name	Method	Trial Analysis ID Date/Time	Analyst	Dilution
452407	79 #1 Grab Water Sample				Dilation
04678 00813	TCL SW846 Semivolatiles/Waters BNA Water Extraction	SW-846 8270C SW-846 3510C		TOTAL IN CHANGIN	1

Quality Control Summary

Page 4 of 5

Client Name: Kerr-McGee Corporation

Group Number: 943422

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD	RPD	May DOD	
Batch number: 05136WAG026		Sample nu	ımber(s): 452	24079		11		Max RPD	90 %
Pentachiorophenol	N.D.	13.	ug/l	75	74	48-108	1	30	
	Sample Matrix Quality Control								
Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters Batch number: 05136WAG026

4524079	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
Blank	58	39	99	
LCS	52	35	93	
LCSD	61	40	99	
Limits:	58	39	96	
	10-99	10-80	31-148	

^{* -} Outside of specification

The result for one or both determinations was less than five times the LOQ.
 The background result was more than four times the spike added.

Comments

Page 5 of 5

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

4524079 #1 Grab Water Sample



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

			ung technical data.	
N.D. TNTC IU umhos/cm C meq g ug ml m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I	Below Minimum Quantitation Leve Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s)	I
<	less than - The number fallent		- (-)	

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- greater than
- estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ). J
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

Dry weight basis

В

С

D

Ε

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported

U.S. EPA CLP Data Qualifiers:

Inorganic Qualifiers TIC is a possible aldol-condensation product Value is <CRDL, but ≥IDL Analyte was also detected in the blank Ε Estimated due to interference Pesticide result confirmed by GC/MS M Duplicate injection precision not met Compound quantitated on a diluted sample N Spike sample not within control limits Concentration exceeds the calibration range of S Method of standard additions (MSA) used the instrument for calculation

- Presumptive evidence of a compound (TICs only) Ν U Compound was not detected Concentration difference between primary and W
- Post digestion spike out of control limits confirmation columns >25% Duplicate analysis not within control limits Compound was not detected U Correlation coefficient for MSA < 0.995 Defined in case narrative X,Y,Z

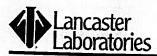
Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Organic Qualifiers

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952392. Samples arrived at the laboratory on Friday, July 22, 2005. The PO# for this group is ZSAL4KEOK0A90205.

Client Description

Effluent Weir Composite Water Sample Effluent Weir Grab Water Sample Lancaster Labs Number

4568997 4568998

1 COPY TO 1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner Attn: Chuck Swann



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Questions? Contact your Client Services Representative Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Robert Strocko Jr.
Manager



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Page 1 of 1 REVISED

Lancaster Laboratories Sample No. WW 4568997

Effluent Weir Composite Water Sample Columbus, MS

Collected:07/20/2005 16:00 through 07/21/2005 16:00

Submitted: 07/22/2005 09:10 Reported: 08/11/2005 at 14:42 Discard: 10/11/2005

SDG#: KMM49-01 EFFCM

by RH

Account Number: 07802

Kerr-McGee Corporation

PO Box 3048

Livonia MI 48150

As Received Result 0.0141 J N.D. 0.0020 J	As Received Limit of Quantitation 0.0200 0.0150 0.0100	Units mg/l mg/l mg/l	Dilution Factor 1
	Result 0.0141 J N.D.	As Received Limit of Result Quantitation 0.0141 J 0.0200 N.D. 0.0150	As Received Limit of Result Quantitation Units 0.0141 J 0.0200 mg/1 N.D. 0.0150 mg/1

Laboratory Chronicle

CAT		Laboracory	CIIIO	штсте		
No. 07035 07051 07053	Analysis Name Arsenic Chromium Copper EPA 600 ICP Digest (total)	Method EPA 200.7 EPA 200.7	Trial# 1 1 1	Analysis	Joanne M Gates	Dilution Factor 1 1
				, , ==== 25.00	oames I Mertz	1



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Page 1 of 1 REVISED

Lancaster Laboratories Sample No. 4568998

Effluent Weir Grab Water Sample Columbus, MS

Collected:07/21/2005 15:50

by RH

Account Number: 07802

Submitted: 07/22/2005 09:10 Reported: 08/11/2005 at 14:42

Kerr-McGee Corporation

Discard: 10/11/2005

PO Box 3048 Livonia MI 48150

CAT

No.

CAT

00813

CAS Number

EFFGR SDG#: KMM49-02*

Analysis Name

As Received

Limit of Quantitation

Units

Dilution **Factor**

04678 TCL SW846 Semivolatiles/Waters

03934 Pentachlorophenol

87-86-5

16.

As Received

Result

ug/l

Due to insufficient sample, the reporting limits for the $\operatorname{GC/MS}$

semivolatile compounds were raised.

Laboratory Chronicle

No. Analysis Name 04678

TCL SW846

Semivolatiles/Waters BNA Water Extraction

Method SW-846 8270C

Analysis Trial# Date and Time 07/27/2005 15:38 1

Analyst Ryan P Byrne Dilution Factor

1

SW-846 3510C 1 07/25/2005 10:15

Zachary S Dennis

1



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Page 1 of 1 REVISED

Quality Control Summary

Client Name: Kerr-McGee Corporation

Reported: 08/11/05 at 02:42 PM

Group Number: 952392

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name Batch number: 05204WAG026	Blank <u>Result</u>	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pentachlorophenol	Sample n N.D.	umber(s):	4568998 ug/l	82	82	48-108	0	30
Batch number: 052085732001 Arsenic Chromium Copper	Sample no N.D. N.D. N.D.	umber(s): 0.0200 0.0150 0.0100	4568997 mg/l mg/l mg/l	107 102 104		92-109 90-112 92-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Corc	DUP RPD	Dup RPD
Batch number: 052085732001 Arsenic Chromium Copper	Sample 108 101 104	number	(s): 456899 86-119 86-118 89-119	7		N.D. N.D. 0.139	N.D. N.D. 0.136	0 (1) 0 (1) 2	20 20 20

Surrogate Quality Control

9 1 5	2-Fluorophenol	Phenol-d6		2,4,6-Tribromophenol	
1568998 Blank LCS LCSD	69 61 66 67	53 41 44 46	38.	90 96 97 93	
imits:	10-99	10-80		31-148	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 7802 Group# 950099 Sample # 4508997-98 COC #

0066236

Please print. Instructions on reverse side correspond with circled numbers: Acct. #: Acct. #: Anabrix 4 5	24/65 / SSO X X 1 X X 2 X X X 2 X X X 2 X X X 2 X	Normal Rush d surcharge.) Fax E-mail	Open of the period of trequired? SDG Complete? Relinquished by: Date Time Time Received by: Date Time Type VI (Raw Data) Yes No Relinquished by: Date Time Time Received by: Date Time Other (if yes, Indicate OC sample and submit triplicate volume.) Relinquished by: Relinquished by: Date Time Received by: Date Time
Langeralli	DEAMENT WELL	1 S H	Options (pleas Type V GLP Other

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

			rung toornhour data.
N.D. TNTC IU umhos/cm C meq g ug ml m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
_	less than The minute of the second		

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ). J
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight concentration to approximate the value present in a similar sample without moisture. All other results are reported basis on an as-received basis.

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		Inorganic Qualifiers
A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" but="" control="" due="" duplicate="" estimated="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" td="" to="" used<="" within="" ≥idl=""></crdl,>
N P U X,Y,Z	Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25% Compound was not detected Defined in case narrative	U W * +	for calculation Compound was not detected Post digestion spike out of control limits Duplicate analysis not within control limits Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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Page 1 of 4

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ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by: Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952392. Samples arrived at the laboratory on Friday, Jul 22 2005. The project for this group is Columbus, MS. The PO# for this sample group is ZSAL4KEOK0A90205.

4568997	Collected 7/20/05 16:00	7/21/05 16:00	<u>Client Description</u> Effluent Weir Composite Water Sample Columbus. MS
4568998	7/21/05 15:50		Effluent Weir Grab Water Sample Columbus, MS

Kerr-McGee Corporation	Attn: Tom Reed
Kerr-McGee Corporation	Attn: Steve Ladner
Kerr-McGee Corporation	Attn: Chuck Swann
	Kerr-McGee Corporation

Questions? Contact your Client Services Representative Katherine A Klinefelter at (717)656-2300

Respectfully Submitted,

Robert Strocko Jr. Manager

Lancaster Laboratories

Page 2 of 4

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Analytical Report

Kerr-McGee Corporation Project: Columbus, MS SDG: KMM49

Report Date: 8/11/2005 14:42 Submit Date: 7/22/2005 9:10

Analysis Name	Units	4568997 Effluent		4568998 Effluent		
Arsenic Chromium Copper Pentachlorophenol	mg/l mg/l mg/l ug/l	Result 0.0141 J N.D. 0.0020 J n.a.	LOQ 0.0200 0.0150 0.0100 n.a.	Result n.a. n.a. n.a.	LOQ n.a. n.a. n.a. 4.	

Laboratory Chronicle

Page 3 of 4 **REVISED** CAT Trial Analysis No. **Analysis Name** Method ID Date/Time Analyst Dilution 4568997 Effluent Weir Composite Water Sample 07035 EPA 200.7 1 7/29/05 2329 07051 John P Hook Chromium EPA 200.7 1 7/28/05 0601 Joanne M Gates 07053 Copper 1 EPA 200.7 EPA 600 ICP Digest (total) 1 7/28/05 0601 05732 Joanne M Gates EPA 200.7 1 7/27/05 1900 James L Mertz 4568998 Effluent Weir Grab Water Sample 04678 TCL SW846 Semivolatiles/Waters SW-846 8270C 1 7/27/05 1538 00813 **BNA Water Extraction** Ryan P Byrne SW-846 3510C 1 7/25/05 1015 Zachary S Dennis

Comments

Page 4 of 4

REVISED

4568997 Effluent Weir Composite Water Sample

4568998 Effluent Weir Grab Water Sample

04678

TCL SW846 Semivolatiles/Waters
Due to insufficient sample, the reporting limits for the GC/MS

semivolatile compounds were raised.



Explanation of Symbols and Abbreviations

Inorganic Qualificate

The following defines common symbols and abbreviations used in reporting technical data:

	N.D. TNTC IU umhos/cm C meq g ug ml m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F lb. kg mg I ul	Below Minimum Quantitation Leve Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
--	---	---	---	--

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

 Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

		TIO		morganic Qualifiers
	A	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""></crdl,>
	В	Analyte was also detected in the blank	Е	Estimated due to 1 to 5
	С	Posticido requit confirme de la comas	_	Estimated due to interference
	_	Pesticide result confirmed by GC/MS	М	Duplicate injection precision not met
	D	Compound quantitated on a diluted sample	N	Spike complement within and the
	Е	Concentration exceeds the calibration range of		Spike sample not within control limits
		the instrument	S	Method of standard additions (MSA) used for calculation
	N	Presumptive evidence of a compound (TICs only)		
	Р	Compared Cylinderice of a compound (TICS only)	U	Compound was not detected
		Concentration difference between primary and	W	Post digestion spike out of control limits
		confirmation columns >25%	*	Durities of digestion spike out of control limits
	U			Duplicate analysis not within control limits
	DUI CANY	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y	,Z	Defined in case narrative		Constitution operation for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150

734-367-7900

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 965123. Samples arrived at the laboratory on Friday, October 28, 2005. The PO# for this group is ZSAL4KEOK0A90205.

Client Description
Effluent_Wier Grab Water Sample

<u>Lancaster Labs Number</u> 4634977

1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner

Questions? Contact your Client Services Representative Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

Michele J. Smith Group Leader



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax:717-656-2681• www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4634977

Effluent_Wier Grab Water Sample Columbus, MS

Collected:10/27/2005 16:02

by RH

Account Number: 07802

Quantitation

Submitted: 10/28/2005 09:00 Reported: 11/08/2005 at 10:46

Kerr-McGee Corporation PO Box 3048

Discard: 01/08/2006

Livonia MI 48150

EFFWR SDG#: KMM50-01*

Analysis Name

As Received As Received Limit of CAS Number Result

Dilution Factor

TCL SW846 Semivolatiles/Waters 04678

03934 Pentachlorophenol

CAT

No.

87-86-5

14.

15.

ug/l

Units

Laboratory Chronicle

CAT No. Analysis Name 04678 TCL SW846 Semivolatiles/Waters 00813 BNA Water Extraction

Method SW-846 8270C

Analysis Trial# Date and Time 1 10/31/2005 20:58

Analyst Ryan P Byrne Dilution Factor

SW-846 3510C

10/29/2005 10:00

Kerrie A Greenfield

1



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Page 1 of 1

Quality Control Summary

Client Name: Kerr-McGee Corporation Reported: 11/08/05 at 10:46 AM

Group Number: 965123

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>LOO</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	DDD Warr
Batch number: 05302WAA026 Pentachlorophenol	Sample n	umber(s):	4634977				<u>KF D</u>	RPD Max
	N.D.	15.	ug/l	67	67	48-108	0	30

Surrogate Quality Control

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4634977 Blank LCS LCSD	56 54 58 58	34 34 36 36	91 93 93 94	
imits:	10-99	10-80	31-148	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

0066237

000

tt6569,

Sample # 4

Acct. # 782 Group# 9 1/5/33 Sample # 4

Lancaster Laboratories

colours to entitioners! 020 5/83/6 Time (He Time Date Time īme For Lab Use Only Date Date Date Date FSC: Remarks Analyses Requested Time | Received by: Time | Received by: Time | Received by: Time | Received by: Received by: Time Please print. Instructions on reverse side correspond with circled numbers. Date Date Date Date 3 eranishnoo to # listo Relinquished by: Relindwished by: Relinquished by: Relinquished by: Relinquished by llos m 1802 (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No SDG Complete? 102 Rush E-mail ŝ GLP Site-specific QC required? Yes No (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Project Name/#: Charle Wate Water Will #. Acct. #: Yes Quote #: 19/20/as Norma P.O.#: K Fax Phone Pat Chemical Turnaround Time Requested (TAT) (please circle) BILLER Name of state where samples were collected: Data Package Options (please circle if required) Fax#: Type VI (Raw Data) Rush results requested by (please circle): feut E Pluent WIER Other Date results are needed: Type III (NJ Red. Del.) Project Manager. E-mail address: Type II (Tier II) QC Summary Type I (Tier I) Type IV (CLP) Sampler: 🔏 Phone #: ® 5

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

			rung toonmear data.
N.D. TNTC IU umhos/cm C meq g ug ml m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I ul	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
_	loce than The mark and H		

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- greater than
- estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ). J
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight concentration to approximate the value present in a similar sample without moisture. All other results are reported basis

on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

	Organic Qualifiers		Inorganic Qualifiers
A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" td="" to="" used="" within="" ≥idl=""></crdl,>
N P U Y,Z	Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25% Compound was not detected Defined in case narrative	U W *	Compound was not detected Post digestion spike out of control limits Duplicate analysis not within control limits Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation PO Box 3048 Livonia MI 48150 734-367-7900

Prepared by: Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 965123. Samples arrived at the laboratory on Friday, Oct 28 2005. The project for this group is Columbus, MS.

The PO# for this sample group is ZSAL4KEOK0A90205.

Sample Nc Collected 4634977 10/27/05 16:02

Client Description
Effluent_Wier Grab Water Sample
Columbus, MS

1 COPY TO 1 COPY TO

Kerr-McGee Corporation Kerr-McGee Corporation

Attn: Tom Reed Attn: Steve Ladner

Questions? Contact your Client Services Representative Gwen A Birchall at (717)656-2300

Respectfully Submitted,

Michele J. Smith Group Leader

Lancaster Laboratories

Page 2 of 5

Analytical Report

Kerr-McGee Corporation Project: Columbus, MS SDG: KMM50

Report Date: 11/8/2005 10:47 Submit Date: 10/28/2005 9:00

A1		4634977		
Analysis Name	Units	Effluent		
Dantachter	_	Result	LOQ	
Pentachlorophenol	ug/l	14. J	15.	

Laboratory Chronicle

Page 3 of 5

CAT No.	Analysis Name	Method	Trial Analysis ID Date/Time	Analyst	Dilution
463497	7 Effluent_Wier Grab Water Sample				
04678	TCL SW846 Semivolatiles/Waters BNA Water Extraction	SW-846 8270C SW-846 3510C		Ryan P Byrne Kerrie A Greenfield	1

Quality Control Summary

Page 4 of 5

Client Name: Kerr-McGee Corporation

Group Number: 965123

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD	,
Batch number: 05302WAA026		Sample nu	ımber(s): 463	34977					-
Pentachlorophenol	N.D.	15.	ug/l	67	67	48-108	0	. 30	
Sample Matrix Quality Control									
Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 05302WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4634977	56	34	91	
Blank	54	34	93	
LCS	58	36	93	
LCSD	58	36	94	
Limits:	10-99	10-80	31-148	-1111-1-22

^{* -} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The background result was more than four times the spike added.

Page 5 of 5

Comments

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

4634977 Effluent_Wier Grab Water Sample



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug ug	microgram(s)	mg	milligram(s)
mi	milliliter(s)	Ĭ	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- less than The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For ppm aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight Results printed under this heading have been adjusted for moisture content. This increases the analyte weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported

on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers Inorganic Qualifiers TIC is a possible aldol-condensation product В Value is <CRDL, but ≥IDL В Analyte was also detected in the blank Ε Estimated due to interference Pesticide result confirmed by GC/MS M Duplicate injection precision not met D Compound quantitated on a diluted sample Spike sample not within control limits Ν Ε Concentration exceeds the calibration range of S Method of standard additions (MSA) used the instrument for calculation Presumptive evidence of a compound (TICs only) N U Compound was not detected Concentration difference between primary and Post digestion spike out of control limits W confirmation columns >25% Duplicate analysis not within control limits U Compound was not detected Correlation coefficient for MSA < 0.995 X.Y.Z Defined in case narrative

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Dec. 28th 2005

KMCC - FPD Facility - Columbus, MS

Month:

Nov. 05

Permit Requirement Unit of Measurement		O&G		PHEN	PHENOLS	
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXX	XXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	47,150					6.1
2	46,476					
3	39,474					
4	39,933	6	2.01	4.9	1.64	
5	39,933					
6	39,932					
7	49,777					
8	45,825					6.3
9	56,367					
10	41,938					
11	47,285					
12	47,285					1
13	47,285					
14	42,985					6.3
15	48,100					
16	52,018					
17	49,764					
18	47,962	7	2.81	12.4	4.97	-
19	47,962					
20	47,962	.				
21	49,885					
22	47,002				····	6.3
23	52,450				· .	0.0
24	46,950					
25	44,467					
26	44,467		2			
27	44,466			1		
28	46,892					
29	45,658					6.4
30	43,850					5.4
31			-			
Avg.	46,383	6.5	2.5	8.65	3.4	6.28
Max.	56,367	7	2.81	12.4	4.97	6.4
Min.	39,474	6	2.01	4.9	1.64	6.1

Nov. 8, 2005

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacle Road
Columbus, MS 39702

Method Used	420.1	1664		420.1	1664
Acceptable Range of Standard					
Result of Standard					
Sample Result	6.05 mg/l	6 mg/l		4.90 mg/l	6 mg/l
Parameter	TOTAL PHENOLS	OIL & GREASE		IOIAL PHENOLS	OIL & GREASE
Date Received	10/21/2005			11/4/2003	
Sample Description	Effluent		## DE CONTRACTOR 1	lioniti-	
Lab ID #	4730		4835		<u>40</u>

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

proved: Tokent Wellubers

603 GILLESPIE STREET ENVIRO-LABS, INC. P. O. BOX 1096

Dec. 12, 2005

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div. 3107 Tabemacle Road Columbus, MS 39702 Attn: Ronald Hill

Method Used
Acceptable Range of Standard
Result of Standard
Sample Result
Parameter
Date Received
Sample Description
Lab ID #

420.1	1664	420.1	1664
'12.40 mg/l	7 mg/l	5.05 mg/l	7 mg/l
TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE
11/18/2005		12/2/2005	
Effluent		Effluent	
4979		5056	

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION Approved



Lab I.D. # 4835

Client: Kall Mygre
Sample Description: FFF Went Werk Comp. Hr. Grab
Residual Cl pH DO Temp Flow
Collected by: L. Luc Date: Myos Time: P.5 (am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification: Skin Irritant Flammable Unknown
Matrix: Water/Wastewater Other Jaun wall
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH Carb BOD TKN
Relinquished by: Date/Time Received by: Date/Time 1/405 9:50 Am Dulland land 1/405 9:40
Relinquished by: Date/Time Received by: Date/Time
Client:
Received by: Date am pm
Sample Container: Quantity Type Size Preserve G P 1 L Test Ice& H2SO4D NaOH, HNO3
Thiosulfate Present Y N G P 500 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 G P 125 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved Proper Container N
Sample Disposal: Return to Client Disposal by Lab Archive

Enviro-Labs, Inc.

Lab I.D. # 4919

603 Gillespie St. Starkville, MS 39759

Client: Kell-Me/gee
Sample Description: CompHr. Grab
Residual Cl pH DO Temp Flow
Collected by: 1 Le Mul Date: 1/1825 Time: 7/10 am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification: Non Hazard Skin Irritant Unknown
Matrix: Water/Wastewater Other / Our Own WATEL
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses: Metals Other
pH Carb BOD TKN
Relinquished by: Date/Time I I I I I I I I I
(For Lab use only)
Client:
Received by: Date am pm
Sample Container: Quantity Type Size Preserve Lee; Ice& H2SO4, NaOH, HNO: G P 500 ml Ice; Ice & H2SO4, NaOH, HNO: G P 250 ml Ice; Ice & H2SO4, NaOH, HNO: G P 125 ml Ice; Ice & H2SO4, NaOH, HNO: Thiosulfate Present Y N G P 125 ml Ice; Ice & H2SO4, NaOH, HNO:
Sample Condition Upon Receipt: Temp Deg. C. Preserved N Proper Container N
Sample Disposal: Return to Client Disposal by Lab Archive

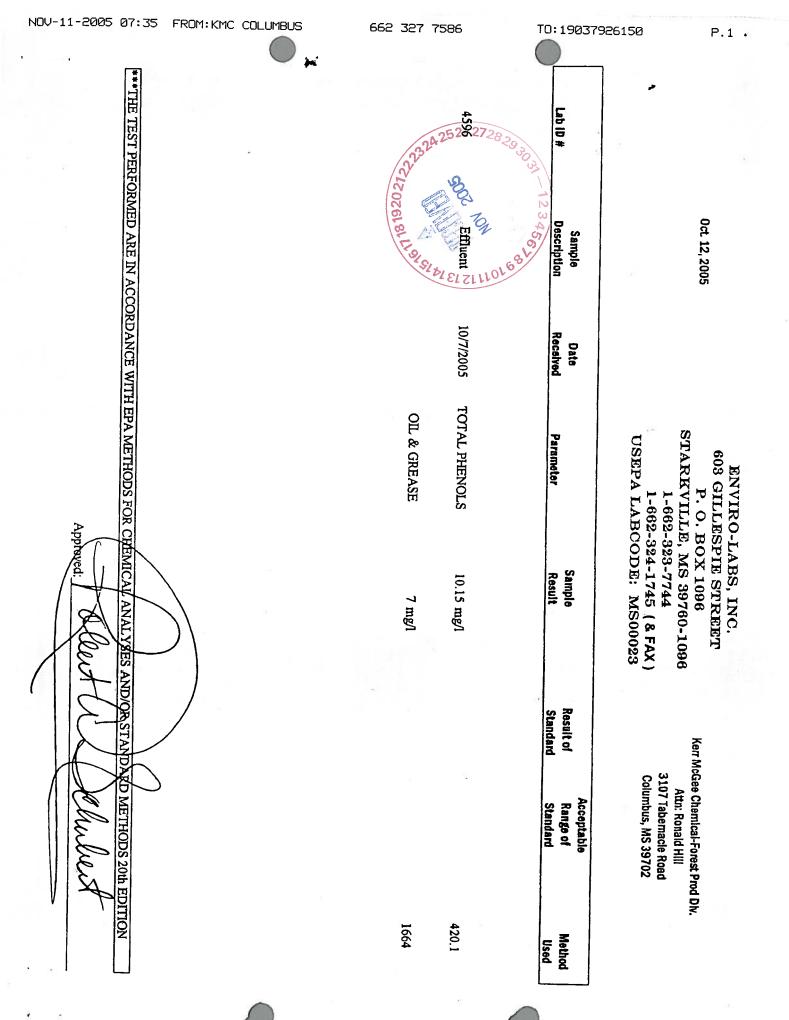


Month:

Oct. 05

Permit Requirement Unit of Measurement O&G PHENOLS NOTE PH

DATE	FLOW	mg/i	lbs.	mg/l	lbs.	SU
1						
2						C .
3	50,447					6.3
4	50,642					1 0.0
5						
6						
7		7	3.16	10.15	4.58	
8	54,773					
· 9	54,773					
10	53,547					6.4
11	54,501	<u> </u>				- 0.4
12	54,087					
13	53,905					
14	53,905					
15	53,905					
16	53,904					
17	53,534		8		4 0	6.3
18		920			 	0.3
19	52,604		<u> </u>			
20	53,246					
21	51,239	6	2.56	6.05	2.58	
22	51,239			5.00	2.00	
23	51,238					
24	49,900				 	6.5
25	44,857					0.5
26	45,246					7
27	45,035					
28	35,662				 	
29	35,661				 	
30	35,661					
31	45,062					6.2
Avg.	50,177	6.5	2.86	8.1	3.58	6.34
Max.	54,774	7	3.16	10.15	4.58	
Min.	35,661	6	2.56	6.05	2.58	6.5 6.2



Nov 09 05 10:57a	EnviroLabs		16623241	745 p.2
***THE TEST PERFORMED ARE	4835	25 20 21 20	Lab ID # D	
D ARE IN AC	Effluent	191514	Sample Sample	Nov. 8, 2005
CORDANCE WIT	11/4/2005		Date Received 10/21/2005	
IN ACCORDANCE WITH EPA METHODS FOR CHEMIZAL Approved:	TOTAL PHENOLS OIL & GREASE	OIL & GREASE	Parameter TOTAL PHENOLS	ENVIRO-LABS, II 603 GHLLESPIE STI P. O. BOX 1096 STARKVILLE, MS 397 1-662-323-7744 1-662-324-1745 USEPA LABCODE: M
Approved:	4.90mg/l 6 mg/l	6 mg/l	Sample Result 6.05 mg/l	ENVIRO-LABS, INC. 603 GHLLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023
			Result of Standard	Kerr Mc
ANDARD METHODS 20th EDITION				Kerr McGee Chemical-Forest Prod Div. Attn: Ronald Hill 3107 Tabernacle Road Columbus, MS 39702 Acceptable
ON ON	420.1 1664	1664	Method Used 420.1	

Analysis Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 4596

		Client:	Kest.	Myque		
S	sample Des	cription:_	EFF IVEN	Twoix Con	1pHr.	Grab
Resi	dual Cl	_ <i>pH</i>	DO	Temp	Flow	
Coll	lected by:_	Lif	1 lui	Date:	ras Time: Bis	S(am pm
	Turn aroun	d Time:	Normal	Rush	Specify Date	
1	Hazard Ident	ification:	Non HazardFlammable		1 Irritant	
Matrix:	Water/W		r Othe	ryLound		
Calibrations:	pH Meter	Buffers	Date:	Time: Do	iption) O Meter: Date	_Time:
Req	uested Lab	Analyses	:		IC.	
i Bo T	DO DO DD CSS OD	An	arb BOD Fecal amonia=N & Grease Alkalinity	TKN TOP Nitrate Phenols Res Cl	Metals	Other
1	quished by: ———————————————————————————————————	ul	Date/Time Date/Time	Received I	Chie Will -	Date/Time 147/05 9:05
(For Lab us	lys	/	6/1/65 9:35	_	· 1	Date/Time
	•					, , , , , , , , , , , , , , , , , , ,
Client Received by:_			Date	Time	am pm	
Sample Contai	iner:	Quantity	G P	Size 1 L 500 ml	Preserve G Içot-Ice& H2SO Ice; Ice & H2SO	NaOH, HNO3
Thiosulfate P	resent Y N		G P G P G A	250 ml 125 ml 40 ml vial	Ice; Ice & H2SO Ice; Ice & H2SO Ice	4, NaOH, HNO3
Sample Condit	tion Upon Rec	eipt:	Temp Deg. C. 4		Preserved Proper Container	N
Sample Dispos	al: Return	to_nt_	Disposal by La	Archi	Ye	8

Anarysis Request & Chain of Custody Record

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

EnviroLabs

Lab I.D. # 4730

Client: Kell- ant/ofee
Sample Description: EFF WENT WEIL Comp. Hr. Grab
Residual ClpHDOTempFlow
Collected by: Af flui Date 19/105 Time: 7.15 (am) pm
Turn around Time: Normal Rush Specify Date
Hazard Identification: Non Hazard Skin Irritant Flammable Upknown
Matrix: Water/Wastewater Other Houdh warel
Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Requested Lab Analyses:
pH
Relinquished by: Date/Time Received by: Date/Time Let flow 10/2/05 9!
Relinquished by: Date/Time Received by: Date/Time
Client:
Danie 11
Sample Container: Quantity GP 1 L Icar Icar H2SO4 NaOH, HNO3 GP 500 ml
Thiosulfate Present Y N G P 250 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved Preserved Proper Container Y N
Sample Disposal: Return to Client Disposal by Lab Archive

KMCC - FPD Facility - Columbus, MS

Month:

Sept. 05

Permit Requirement Unit of Measurement		O&G		PHEN	PHENOLS	
		XXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXX
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	61,427					6.3
2	58,092	7	3.39	6.8	3.29	
3	58,092					
4	58,091					
5	59,090					
6	62,052					
7	60,770					
8	60,191			14		6.3
9	56,906			Ì		
10	56,905					
- 11	56,905					
12	55,915					
13	57,296					
14	49,468	i				
15	51,693					6.3
16	49,403	7	2.86	4.65	1.9	
17	49,403					
18	49,403				15161710	
19	48,826				105	2
20	48,251			27,07	Merchan yes	15/
21	48,011			10	14.36	223
22	49,934			U)	001 2008	\$ 6.2
23	49,845			67		25
24	49,845			L'a		135
25	49,845			87.0	-1505618r	-
26	50,269				15.05.2	
27	46,777					
28	46,886					
29	53,792					6.3
30	64,019					
31						
Avg.	53,913	7	3.13	5.73	2.6	6.28
Max.	64,019	7	3.39	6.8	3.29	6.3
Min.	46,777	7	2.86	4.65	1.9	6.2

ENVIRO-LABS, INC.
603 GILLESPIE STREET
P. O. BOX 1096
STARKVILLE, MS 39760-1096

Sept. 27, 2005

1-662-323-7744 1-662-324-1745 (&FAX)

1-662-324-1745 (0 FA)
USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacle Road
Columbus, MS 39702

Lab ID # Description Sample Received Date Parameter Sample Result Result of Standard Range of Standard Acceptable Method Used

4262 4401 Effluent Effluent 9/2/2005 9/16/2005 TOTAL PHENOLS TOTAL PHENOLS OIL & GREASE OIL & GREASE 93031 ULS 9101112/3/2-6.80mg/l 7 mg/1 METHODS 20th EDITION 420.1 1664 420.1 1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL Approved ANALYSES AND/OR STANDARD

	Client.	Kell.	10/01	. . e .	
		Te : Te	(./		
Sample De	scription: <u>É</u>	FFIVEN	Tweikon	ıpHr.	Grab
Residual Cl	pH			Flow	42.4
Collected by:	Sel.	1 lui	_ Date: <u>%</u>	Time: 8/2	oo(am) pm
Turn arou	und Time: Nor	mal	Rush	Specify Date	
Hazard Iden	ntification:	Non Hazard Flammable		1 Irritant	
Matrix: Water/	Wastewater	Other	Effount)	WATEL	
		_ (_	(Descr		
Calibrations: pH Meter	Buffers	Date: T	ime: D	O Meter: Date	Time:
Requested La	h Anghress				AS 16 17 19 10 20 2
Requesteu La	D Allalyses:			Metals	Other
pН	Carl	BOD	TKN	Metas	()ther
DO		Fecal	TOP		oct 2005
BOD		onia-N	Nitrate		0C1 <u>2000</u>
TSS		Grease	Phenois		
COD		calinity	Res Cl		300
				_	28-51-1E0E0180
Relinquished by:	. <i>I</i>	ate/Time	Received .	hv:	Date/Time
			11-0	1-0	Dute Tune
1-1	Call 9	of Pion A	in Nill	in Vin	9/105 8:5
1000	4	DW & WUJA	· Lum		- 11105 8.3
Relinquished by:	D	ate/Time	Received	bv:	Date/Time
MAR	9/2	105 9:35		29b	9/2/05 9:5
		85 F H	337.7 ===		
(For Lab use only)					
Client:					
<u> </u>					
Received by:		Date	Time	am pm	
Sample Container:	Quantity	Type	Size		G P
	2	G P	1 L 500 ml	Ice; Ice& H2S	O4. NaOH, HNO3
		G P G P G P	250 ml	Ice: Ice & H2S	604, NaOH, HNO3
Thiosulfate Present Y	N	G P	125 ml		SO4, NaOH, HNO3
		G A	40 ml vial		
			*		
Sample Condition Upon I	Receipt: Te	emp Deg. C. <u></u>		Preserved	N
				Proper Container	N
Sample Disposal: Retur	rn to Client	Disposal by Lab	Arch	ive	1.
hia wichocare Wern	. <u> </u>	THE CHINESTRA	A ALCU	UTY	8

Sample Disposal:

Return to Client Disposal by Lab

Lab I.D. # 4401

Character, MB 35735 ,	2			
Client	Kell-N	18/000		
		- Jan		
Sample Description:	EFF/veut	west Con	npHr.	Grab
Residual Cl pH_	DO		Flow	-
Collected by:	P. flue	Date: <u> </u>	Time: 7	eam pm
Turn around Time:	Normal	Rush	Specify Date	
Hazard Identification:	Non Hazard Flammable		n Irritant	
Matrix: Water/Wastewate	er Other	- I	WATCL	
Calibrations: pH Meter Buffers	Data: T		ription)	
Same attended Duriets_	Date:1	ime: D	O Meter: Date	Time:
Requested Lab Analyse	•6•			
The quantity of			Matelo	Out
) Hq	Carb BOD	TKN	Metals	Other
DO	Fecal	TOP		
	mmonia-N	Nitrate		*
<u> </u>	& Grease	Phenois		
COD	Alkalinity	Res Cl		
	· ····································	Res CI		
Relinquished by:	Date/Time	Pagainadi	· · · · · · · ·	
		Received 1	200	Date/Time
S.P. Ihil	9/100x 7:301	FM M	OXXXIII.	alles and
	11300	-1	the the	~ 4/1903 9:45
Relipquished by:	Date/Time	Received	hui	the state of the state of
KIL			by.	Date/Time
1 WIN	111405 10.30	' Ex	2/\ ·	9/16/05 10:3
(For Lab use only)	7-7-		, , , , , , , , , , , , , , , , , , , ,	1/10/03 10.3
Client:	A Comment			
Received by:	Date	Time	am pm	
Sample Container: Quantity	Туре	Size	PreserveG	n south
2	(G) P	1 L	Ice; Ice& H2SO	P 4) NaOH, HNO3
	GP	500 ml	Ice; Ice & H2SO	
Thiomises Park	G P	250 ml	Ice; Ice & H2SO	4, NaOH, HNO3
Thiosulfate Present Y N	G P	125 ml	Ice; Ice & H2SO	4, NaOH, HNO3
	G A	40 ml vial	Ice	
Sample Condition Upon Receipt:	Temp Deg. C. 4		n . /	Ω

Proper Container

KMCC - FPD Facility - Columbus, MS

Month:

Aug. 05

Permit Require Unit of Measur		O&G		PHENOLS		O&G PHENOLS		O&G PHENOLS		pH
		(XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXX				
DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU				
1	47,506					6.5				
2	46,963									
3	49,021	171								
4	65,618			14						
5	51,543	9	3.83	7.85	3.34					
6	51,543					ii .				
7	51,543					= =				
8	48,317					6.6				
9	43,381	***								
10	45,822									
11	44,800			1						
12	44,016									
13	44,016									
14	44,016	13								
15	46,106					6.5				
16	50,061									
17	59,864									
18	55,489									
19	49,805	7	2.86	8.65	3.54					
20	49,805			1171		У.				
21	49,805									
22	60,594					6.5				
23	52,574	-								
24	62,350		*1							
25	51,203									
26	49,565				<u>-</u>					
27										
28										
29					 	6.5				
30				Б	- 					
31	55,797		·····							
Avg.	49,656	8	3.35	8.25	3.44	6.52				
Max.	65,618	9	3.83	8.65	3.54	6.6				
Min.	21,541	7	2.86	7.85	3.34	6.5				

Sample Disposal:

Client: Kell: //	n 9/4° &	
Sample Description: <u>FFF ve N</u>	weil Comp. Hr.	Grab
	į.	
Residual Cl pH DO	Temp Flow	<u></u>
	47	
Collected by: Affail	_ Date: 1/5 w Time: 8.	<u>သ်</u> (am) pm
Turn around Time: Normal	Puch Charle Date	
Turn around Time: Normal	Rush Specify Date	
Hazard Identification:Non-Hazard	Skin Irritant	
Flammable	Unknown	
Matrix: Water/Wastewater Other	Though WATEL	
Main. Water/Wasiewater Other	(Description)	
Calibrations: pH Meter Buffers Date:	Fime: DO Meter: Date	Time:
Same and the first same same same same same same same same		THIC.
Requested Lab Analyses:	See See	
	Meta	ls Öther
pH Carb BOD	TKN	
DO Fecal	TOP	1.5
BOD Ammonia-N	Nitrate	
TSS Oil & Grease	Phenols	
COD Alkalinity	Res Cl	A Section 1
Relinquished by: Date/Time	Received by:	D 4 677
		Date/Time
1-P. flet 8/500 8	8/25 AM. W. O. A.	en 8/5/05 8.25
	7	<u>* 0/2/63 0.13</u>
Relinquished by: Date/Time	Received by:	Date/Time
Mall Malor Cut	1.06	de
SIS/05 9:15	2,96	8/5/05 9.725
(For Lab use only)		7
		- W
Client:		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Received by: Date	Timeam pm	
No. 19 Marie Commission of the	33.5	\$
Sample Container: Quantity Type	Size Preserve	604
Like the second of the second		2SO4, NaOH, HNO3 2SO4, NaOH, HNO3
$\overline{}$ $\ddot{}$ $\ddot{}$ $\ddot{}$		2SO4, NaOH, HNO3
Thiosulfate Present Y N G P	125 ml Ice; Ice & H	2SO4, NaOH, HNO3
G A	40 ml vial Ice	ELIWA LIGHT
Sample Condition Upon Receipt: Temp Deg. C. 4	Preserve	Y ₂ N
	Proper Containe	

August 30, 2005

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div.
Attn: Ronald Hill
3107 Tabernacie Road
Columbus, MS 39702

のないので

			16			
Method		420.1	1664	420.1	1664	
Acceptable Range of Standard						
Result of						
Sample	1000	7.85 mg/l	l/gm 6	8.65 mg/l	7 mg/l	
		TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	
Date	Kecelved	8/5/2005		8/19/2005		
Sample	Description	Effluent		Effluent		
	Lab ID#	4024		4161		

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICALANALYSES AND/OR STANDARD METHODS 20th EDITION

Approved Talenti Lehule



KMCC - FPD Facility - Columbus, MS

Month:

July. 05



Permit Requirer	ement	О&		PHENOLS (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		pH
DATE	FLOW	mg/l	Ibs.	mg/l	lbs.	T SU
DATE	40,400		2.01	14.45	5.79	7

DATE	FLOW	mg/l	lbs.	mg/l	lbs.	SU
1	48,429	5	2.01	14.45	5.79	7
2	48,429					
3	48,429					
4	48,987					
5	40,193					
6	43,142					
7	51,787					
8	41,738					7.1
9	41,738					
10	41,738					
11	53,408					
12	54,973					
13	53,658					
14	50,399				·	
15	50,049	9	3.76	11.8	4.92	7
16	50,050					
17	50,050					
18	49,799					i. Ü
19	53,644					
20	53,801		N			
21	53,447			A		
22	50,358					6.4
23	50,358					
24	50,359	E				
25	47,436					
26	52,751				0.	
27	45,270					
28	48,352					
29	54,083					6.
30	54,084					
31	54,084					
Avg.	49,517		2.89	13.125	5.355	6.
Max.	54,973		3.76	14.45	5.79	7
Min.	40,193		2.01	11.8	4.92	6.

603 GILLESPIE STREET ENVIRO-LABS, INC. P. O. BOX 1096

July 29, 2005

Kerr McGee Chemical-Forest Prod Div. 3107 Tabernacle Road Columbus, MS 39702 Attn: Ronald Hill

Description Sample Received STARKVILLE, MS 39760-1096 1-662-323-7744 USEPA LABCODE: MS00023 Parameter 1-662-324-1745 (& FAX) Sample Result Result of Standard Acceptable Standard Range of

Lab ID#

3696

Effluent

7/1/2005

TOTAL PHENOLS

14.45 mg/l

420.1

Method

Used

OIL & GREASE 5 mg/l 1664

TOTAL PHENOLS 11.80mg/1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARY METHODS 20th EDITION Approve

3834

1

Effluent

7/15/2005

OIL & GREASE

9 mg/l

AUG

1664

420.1

Enviro-Labs, Inc. 603 Gillespie St.

603 Gillespie St. Starkville, MS 39759	Q		
	.01	21.544.5	and the state of
Client: Kell	· NIGGE		
		All-Indian Telephone Party	
Sample Description: EFF lue	Comp.	Hr. (Grab
Residual Cl pH DO	Temp	Flow	
Collected by: 1 P / W	Date: 7/1-0-3	Time: 7:09	ám pm
Turn around Time: Normal	Rush	Specify Date	
Hazard Identification: Non Haza	rd Skin Irı	ritant	
Flammab	Te Unknow	vn	*
grows to glassic and a second		1 /	
Matrix: Water/Wastewater	Other of seund	walu	
	(Description	n)	
Calibrations: pH Meter Buffers Date:	Time: DO N	leter: Date	Time:
	A	1 100 17 1-	
Requested Lab Analyses:			
Atequeous Las that		Metals	Other
pH Carb BOD	TKN /*		4 - Table
DO Fecal	TOP		" × 3
48.85/96/6 1.11 10	Nitrate	17.	
3	Phenols		0 2 2
TSS Oil & Grease		· · · · · · · · · · · · · · · · · · ·	
CODAlkalinity_	Kes Ci	. ,	
	, y 1 Mary 1 A		Date/Time
Relinquished by: Date/Time		1.1	Dute Time
19 1 list 7/1-05	mico AM shi	Man I	1/10 d.35
1 - 1 led 11-05	7.001	fill I was	71703 0.3
			Data/Time
Relinquished by: Date/Time	Received by	<i>;</i> : /	Date/1 ime
16.1		AS	161-015
MM 7/1/05 9:	15	<u>יי א</u>	1/01/05 9.13
(For Lab use only)			
Client:			
Received by: Date	Timea	m pm	
		_	1 D
Sample Container: Quantity T	ype Size	Preserve	P POOR HNOS
<u>7</u>	P 1L	Ice; (ce& H2SU	NaOH, HNO3
Company of the Compan	P 500 ml	Ice; Ice & H2SC)4, NaOH, HNO3)4, NaOH, HNO3
	= 10 m / 4 m / 2	Ice; Ice & H2St	04, NaOH, HNO3
Thiosulfate Present Y N G		20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	J-1, 118011, 1100
G	A 40 ml vial		
Sample Condition Upon Receipt: Temp Deg.	c 4	Preserved (X N
Sample Condition Upon Receipt: Temp Deg.	<u></u>	roper Container	V) N
	\ \		
Sample Disposal: Return to Client Disposa	l by Lab X Archi	ve	

Archive

Sample Disposal: Return to Client Disposal by Lab

KMCC - FPD Facility - Columbus, MS

Month:

June. 05

2 44,552 3 39,641 5 1.62 7.35 2.39 4 39,641 5 39,640 6 41,415 7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 12 50,801 13 53,817 14 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 18 50,608 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,756 26 38,756 27 49,929 28 51,590 29 49,771 30 50,535 31 Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7	ermit Requirem Init of Measurer	ment	1	O&G		HENOLS	рН
1	DATE	FI 6386	XXXXXXXX	XXXXXXXXX	XXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(
1 42,663 2 44,552 3 39,641 5 1.62 7.35 2.39 4 39,641 5 39,640 6 41,415 7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 12 50,801 13 53,817 14 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 26 38,756 27 49,928 28 51,590 29 49,717 30 50,635 31 Avg. 47,910 5.5 2.06 7,975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7				lbs.	mg/l	lbs.	SU
3 39,641 5 1.62 7.35 2.39 4 39,641 5 1.62 7.35 2.39 5 39,640 6 41,415 7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 11 50,801 11 50,801 11 50,801 11 50,801 11 50,801 11 50,601 11 50,601 11 50,601 11 50,601 11 50,601 11 50,608 6 2.5 8.6 3.59 18 50,608 6 2.5 8.6 3.59 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 26 38,756 27 49,929 49,711 30 50,535 31 Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.							30
4 39,641 5 39,640 6 41,415 7 48,368 8 47,785 9 47,884 100 50,801 11 50,801 11 50,801 11 54,699 15 56,195 16 53,420 17 50,608 19 50,608 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 26 38,756 27 49,929 29 49,711 30 50,535 31 Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7			+				
4 39,641 5 39,640 6 41,415 7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 11 50,801 11 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 18 50,608 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 26 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 4 1,500				1.62	7.35	2 30	
6 41,415 7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 11 50,801 11 54,699 115 56,195 116 53,420 117 50,608 6 2.5 8.6 3.59 118 50,608 119 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 Avg. Avg. 47,910 5.5 2.06 7,975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.		39,641				2.59	
7 48,368 8 47,785 9 47,884 10 50,801 11 50,801 12 50,801 13 53,817 14 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 18 50,608 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 Avg. Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.							
8 47,785 9 47,884 10 50,801 11 50,801 12 50,801 13 53,817 14 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 18 50,608 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 Avg. 47,910 5.5 2.06 7,975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7		41,415					
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12 50,801 13 53,817 14 54,699 15 56,195 16 53,420 17 50,608 6 2.5 8.6 3.59 19 50,609 20 49,213 21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 Avg. 47,910 5.5 2.06 7,975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.	10	50,801					
13	11	50,801					
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18							
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20				 			
21 52,231 22 53,025 23 50,861 24 38,755 25 38,756 26 38,756 27 49,929 28 51,590 29 49,711 30 50,535 31 Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.							
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23 50,861 24 38,755 38,756 25 38,756 37 37 37 37 38 39 38 38 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32				 			<u> </u>
24 38,755 38,756 25 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.							
25 38,756 26 38,756 27 49,929 27 49,929 28 51,590 27 29 49,711 30 50,535 2 31 Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7.							
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30 50,535 2 3 3 49,711 3 3 50,535 2 3 4 5 5 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		51,590	JUL .	8			7.1
30 50,535 2 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7. Min. 38,755 5 1.00		49,711		,G)/		 	
Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7. Min. 38,755 5 1.60		50,535		all/		 	
Avg. 47,910 5.5 2.06 7.975 2.99 6.9 Max. 56,195 6 2.5 8.6 3.59 7. Min. 38,755 5 1.62 7.			E1-15056	/		-	
Wax. 56,195 6 2.5 8.6 3.59 7. Min. 38,755 5 1.00 3.59 7.		47,910	1996	2.06	7,975	3.00	
Win. 38,755 5 1.00 5.39 7.			6				6.94
7.35 2.39 6.	Vin.	38,755	5	1.62	7.35		7.1 6.8

June 14, 2005

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

1-662-324-1745 (& FAX)

USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div. Attn: Ronald Hill 3107 Tabernacie Road Columbus, MS 39702

3452		Lab ID #
Effluent		Sample Description
6/3/2005		Date Received
TOTAL PHENOLS		Parameter
7.35_mg/l		Sample Result
Correction		Result of Standard
		Acceptable Range of Standard
420.1		Method Used
	Effluent 6/3/2005 TOTAL PHENOLS 7.35 mg/l ***Correction***	Effluent 6/3/2005 TOTAL PHENOLS 7.35 mg/l ***Correction***

M

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD/METHODS 20th EDITION Approved:

June 28, 2005

603 GILLESPIE STREET ENVIRO-LABS, INC.

STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) P. O. BOX 1096

USEPA LABCODE: MS00023

Kerr McGee Chemical-Forest Prod Div. 3107 Tabernacle Road Columbus, MS 39702 Attn: Ronald HIII

	Metho	Range of Standard	Result of Standard	Sample Result	Parameter	Received	Description	Lab ID #
--	-------	----------------------	-----------------------	------------------	-----------	----------	-------------	----------

TOTAL PHENOLS OIL & GREASE 8.60mg/1 6 mg/l 1664 420.1

3597

6/17/2005

5/1018810172

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL NALTSES AND/OR STANDARD METHODS 20th EDITION

Lab I.D. #_ 3452

THE RESERVE OF THE PROPERTY OF	***
Client: Kell. Mygel	29
Sample Description: FFFIVENT Weil Comp. Hr.	Grab
Residual ClpHDOTempFlow	
Collected by: 1. P. Jul Date: 1/3 of Time: 7'00	am pm
Turn around Time: Normal Rush Specify Date	-
Hazard Identification:Non HazardSkin IrritantFlammableUnknown	
Matrix: Water/Wastewater Other flourd WATEL	
Calibrations; pH Meter Buffers Date: Time: DO Meter: Date	Time:
Requested Lab Analyses:	
pH Carb BOD TKN	Other
DO Fecal TOP	
BOD Ammonia-N Nitrate	
TCC	
Thenois \	2363
CODAlkalinityRes Cl	
Relinquished by: Date/Time Received by:	Date/Time
L.P. /but 6/2.05 7.00 AMIN Wind lin	W345 8:45
Relinquished by: Date/Time Received by:	Date/Time
10/3105 9:90 LAS	6/3/65 9:20
(For ligh use only)	45-705 1110
Client: 15/16/17/18/19/20	
Received by: Date Time am pm	
	P
G P 500 ml Ice: Ice& H2SO4	NaOH, HNO3
10 Inc., Ice & 112504	, NaOH, HNO3
Thiogulfota Dynamet V N	, NAUH, HNO3
G A 40 ml vial Ice	, NaOH, HNO3
Sample Condition Upon Receipt: Temp Deg. C. 4 Preserved Y Proper Container Y	A N
Sample Disposal: Return to Client Disposal by Lab Archive	,



Lab I.D. # 3597

	Client: Kell.	110/gee		
	ription: <u>FFF/vent</u>		Hr. (Grab
Residual Cl	pH DO	Temp	Flow	
Collected by:	S. Ilur	Date: <u>\$17.05</u>	Time: 7:00	⊋m pm
Turn around	Time: Normal	RushS	pecify Date	
Hazard Identifi	ication: Non Hazard Flammable	Skin Irr		
Matrix: Water/Wa	stewater / Other	TOUND a		
Calibrations: pH Meter B	uffers Date;	(Description)	eter: Date	Time:
Requested Lab A	Analyses:			
9	_		Metals	Other
pH	Carb BOD	TKN		
DO	Fecal	TOP)	
BOD	Ammonia-N	Nitrate		
TSS	Oil & Grease	Phenois		μ'
COD	Alkalinity	Res Cl		
Relinquished by:	Date/Time	Received by:	1.0	Date/Time
18.1h	e 5/1705 7:00	Millie Millie	Mill-	6/19/05 P.G.
Relinquished by:	Date/Time	Received by:	<i>)</i>	Date/Time
My Bb	6/19/05 9:15		138	6/17/05 9:15
(For Lab use only)				
Client: 1617 18	10			
Received by:	Date	Timeam j)m	
Sample Container:	Quantity Type		reserve G	P
8	GP	500 ml Ico	e; Ice & H2SO4,	NaOH, HNO3
			; Ice & H2SO4,	NaOH, HNO3
Thiosulfate Present Y N	G P G A	125 ml Ice 40 ml vial Ice	e; Ice & H2SO4,	NaOH, HNO3
Sample Condition Upon Recei	ipt: Temp Deg. C.	Prop	Preserved Y er Container Y	N N
Committee Distriction		N we we		
Sample Disposal: Return to	Client Disposal by Lab	Archive		

KMCC-FPD Facility - Columbus, MS Month/Year - Mag , 2004

(Page 1 of 1)

		O&G PHENOLS			IOLS	рН
Permit Red	•					
Unit of Mea		XXXXXXX	<u>X XXXXXXX</u>	$(X \times X \times X \times X \times X)$	XXXXXXXX	(XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
	1 38,193				0.00	
	2 38,193				0.00	
	36,861	<u> </u>			0.00	
	36,416				0.00	
	36,911				0.00	
6					0.00	
7		25		12.45	1.100.00	6.6
8	+ · · · · · · · · · · · · · · · · · · ·				0.00	
9					0.00	
10			<u> </u>		0.00	
11					0.00	
12					0.00	
13					0.00	
14					0.00	6.4
15	 				0.00	
16	 				0.00	
17					0.00	
18	 	- 04			0.00	
19	 				0.00	
20	 				0.00	
21	 	5		9.05	. 82 9.00	4.0
22					0.00	
23					0.00	
24					0.00	
25					0.00	
26					0.00	
27	39,501				0.00	
28	40,037				0.00	6.1
29	40,038				0.00	
30	40,038		9		0.00	
31	40,276				0.00	
Avg.	38701	5-0.00		10.730.00	0.00	0.00
Max.	40,828	5 0.00		12.450.00	0.00	0.00
Min.	36,416	<i>45</i> 0.00		9.050.000	0.2000	0.00

May 12, 2004

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096

STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> 3107 Tabernacle Road Columbus, MS 39702 Forest Products Division Kerr McGee Chemical Attn: Ronld Hill

		3329	3237	Lab ID #
		Effluent	Effluent	Sample Description
		5/7/2004	4/30/2004	Date Received
OIL & GREASE	TOTAL PHENOLS	рН	þH	Parameter
<5 mg/l	12.45 mg/l	6.6 SU	6.6 S U	Sample Result
		4.1 SU	4.1 SU	Result of Standard
		4.0 - 4.4 SU	4.0 - 4.4 SU	Acceptable Range of Standard
1664	420.1	150.1	150.1	Method Used

Approved

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD METHODS 20th EDITION

June 07, 2004

603 GILLESPIE STREET ENVIRO-LABS, INC.

P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> Kerr McGee Chemical Forest Products Division Attn: Ronald Hill 3107 Tabernacle Road Columbus, MS 39702

Lab ID # Description Received Parameter Result Standard Standard U		
Date Sample Result of Range of Standard Standard	3396	Lab ID #
Sample Result of Range of Standard Standard	Effluent	Sample Description
Sample Result of Range of Result Standard Standard	\$/14/2004	Date Received
Acceptable Result of Range of Standard Standard	ſ	Parameter
Acceptable Range of Standard		Sample Result
Acceptable Range of Standard		Result o Standa
. Wa		
ed sed		Method Used

3533			3483	3396
Effluent			Effluent	Effluent
5/28/2004			5/21/2004	5/14/2004
pH	OIL & GREASE	TOTAL PHENOLS	рН	þH
6.1 SU	5 mg/l	9.05 mg/l	6.OSU	6.4 SU
4.1 SU			4.1 SU	4.1 SU
4.0 - 4.4 SU			4.0 - 4.4 SU	4.0 - 4.4 SU
150.1	1664	420.1	150.1	150.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL AWADYSES AND/OR STANDARD METHODS 20th EDITION

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

March 23, 2005

STARKVILLE, MS 39760-1096 1-662-323-7744

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

Enviornmental Specialist Kerr McGee Chemici Attn: Richard Allison 2513 Buchanan Road Texarkana, TX 75501

<i>)</i> , .	×			
	2786		2636	Lab ID #
	Effluent		Effluent	Sample Description
	3/18/2005		3/4/2005	Date Received
OII & CDEACE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	Parameter
6 mg/l	5.40 mg/l	6 mg/l	7.95 mg/l	Sample
	73A56789	1011727372 Walt	A6 17 7	Result of Standard
	40mg/1 9000 9000 9000 9000 9000 9000 9000 90	17525324 S	370	Acceptable Range of Standard
1664	420.1	1664	420.1	Method Used

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES/AND/OR STANDARD METHODS 20th EDITION

Approved

Lab I.D. # 2486

Cli	ent: Koll-	myer		
Cli Sample Descript Residual Cl	ion: FFF lue	Twelk Com	ıpHr.	Grab
R R R R R R R R R R R R R R R R R R R				
2	p.		Flow	
Collected by:	1. 1 lel	Date: <u>3-/</u>	8-05 Time: 7:00	am pm
Turn around Tir	me: Normal	Rush	Specify Date	
05 62 8210				
Hazard Identificat	ion: Non Hazard Flammable		Irritant nown	20 No.
Matrix: Water/Waste	nvator Oth	er Hound	10-1	•
munic. Water/waste	.water Othe	(Descri		3
Calibrations: pH Meter Buffe	ers Date:	Time: Do	O Meter: Date	Time:
Requested Lab Ana	alyses:		N 2	
-			Metals	Other
pH	Carb BOD	TKN		A. 1774
DO BOD	Fecal	TOP		8 a 1 - 5
TSS .	Ammonia-NOil & Grease	Nitrate Phenols		
COD	Alkalinity	Res Cl	- 1	
Relinquished by:	Date/Time	Received L	y: ()	Date/Time
L.P. Ilu	3.18.05	7:00 ANT	i die il	~ 3/18/05
Relinguished by:	Date/Time	Received	bv:	Date/Time
MARO	3/18/05 9:35		195	BIRKS
(For Lab use only)		V		D (*)
Client:	A	a		
Received by:	Date	Time	am pm	

Sample Container: Qua	antity Type G P	Size 1 L	Preserve (Ce; Ice& H2S)	G P
	G P	500 ml	Ice; Ice & H2S	247 NaOH, Н 04, NaOH, Н
Thiosulfoto Proceed V N	G P	250 ml	Ice; Ice & H2S	04, NaOH, H
Thiosulfate Present Y N	G P G A	125 ml 40 ml vial	Ice; Ice & H2S	O4, NaOH, H
P P P			Ice	
Sample Condition Upon Receipt	: Temp Deg. C. <u>4</u>		Preserved	N
			Proper Container	N
Sample Disposal: Return to C	lient Disposal by La	ab X Archi	ive	

Lab I.D. # 2636

2141516777	ieni: Kell	VI /gee	<u>112</u> - 2	
Cli 31415167778 Sample Descript	tion: FFF/vent	werk Comp.	Hr.	(Grab)
Residual CI	pH DO	<i>Temp</i>	_ Flow	
Collected by:				
107/	5.92		5 11me: <u>7.a</u>	sam pm
LE 08 67 87 129 Turn around Ti	me: Normal	Rush	Specify Date	
Hazard Identificat	tion:Non HazardFlammable	Skin Ir		
Matrix: Water/Waste		Unkno		
Matrix: Water/Waste	ewater Other	(Description		
Calibrations: pH Meter Buff	ers Date: T	ime: DO N	=	Time:
Requested Lab Ana	alyses:			
Нq	Carb BOD	ŤKN . 48 ž	Metals	Other
DO	Fecal	TOP	*	
BOD	Ammonia-N	Nitrate		_ +
TSS	Oil & Grease	Phenols		
COD	Alkalinity	Res Cl		
Relinguished by	Data/Tima			
Relinquished by:	Date/Time	Received by:		Date/Tim
		116./	e No.	Date/Tim
S.C. 16	W 3/4-05 7:05	on Mill	e My	Date/Tim
		116./	E My	Date/Tim 3/11/05 Date/Time
S.C. 16	Date/Time	Received by:	E My	ZANJOS Date/Time
Relinguished by:	W 3/4-05 7:05	on Mill	E My	Date/Time 3/11/05 Date/Time 3/4/05
S.C. 16	Date/Time	Received by:	E N. G.	ZANJOS Date/Time
Relinguished by:	Date/Time	Received by:	e My	ZANJOS Date/Time
Relinquished by: (For Lab use only) Client:	Date/Time 3/4/05 10:00	Received by:	E N. U.	ZANJOS Date/Time
Relinquished by: (For Lab use only)	Date/Time	Received by:	E N. C.	ZANJOS Date/Time
Relinquished by: (For Lab use only) Client: Received by:	Date/Time 3/4/05 10:00	Received by: am	pm	3/4/05 Dåte/Time 3/4/05
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua	Date/Time 3/4/05 10:00 Date_ Type G P	Received by: Timeam Size 1 L	pm Preserve G co. Ice& H2SO	244/05 Date/Time 3/4/05 P
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua	Date_Time 34 (05 10:00) Date_ Type G P G P	Received by: LP Time am Size 1 L 500 ml	pm Preserve Cet Ice& H2SO cet Ice& H2SO	P 4, NaOH, H
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua	Date_ Date_ Type G P G P G P	Received by: Timeam Size 1 L 500 ml 1 250 ml 1	pm Preserve G ce; Ice& H2SO ce; Ice & H2SO ce; Ice & H2SO	P 4, NaOH, H 4, NaOH, H 4, NaOH, H
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua	Date_Time 34 (05 10:00) Date_ Type G P G P	Received by: Received by: Am Size 1 L 500 ml 1250 ml 1125 ml	pm Preserve Cet Ice& H2SO cet Ice& H2SO	P 4, NaOH, H 4, NaOH, H 4, NaOH, H
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua 2	Date_Time 3/4/05 10:00 Date_Time Type G P G P G P G P G P G P G P G A	Received by: Received by: Am Size 1 L 500 ml 1250 ml 1125 ml	Preserve ce; Ice& H2SO ce; Ice & H2SO ce; Ice & H2SO ce; Ice & H2SO ce; Ice & H2SO	P 4, NaOH, H 4, NaOH, H 4, NaOH, H
Relinquished by: (For Lab use only) Client: Received by: Sample Container: Qua	Date/Time 3/4/05 10:00 Date Type G P G P G P G P G P G A	Received by: Received by: LP Timeam Size 1 L	Preserve G ce; Ice& H2SO ce; Ice & H2SO ce; Ice & H2SO ce; Ice & H2SO	P 4, NaOH, H 4, NaOH, H 4, NaOH, H

STARKVILLE, MS 39760-1096 USEPA LABCODE: MS00023 ENVIRO-LABS, INC. 603 GILLESPIE STREET P.O. BOX 1096 1-662-323-7744 1-662-324-1745 & FAX

70: 2513 BUCHANAN ROAD KERR MCGEE CHEMICAL - FOREST PRODUCTS TEXARKANA, TX 75501 ENVIRONMENTAL SPECIALIST ATTN: RICHARD ALLISON



Purchase Order #:

3/23/2005 DATE

DESCRIPTION

Lab Fee Number (s)

2636 '2786

\$91.00 \$91.00

AMOUNT

TOTAL:

\$182.00

TERMS: NET UPON RECEIPT OF INVOICE

Table No. 2-3

KMCC-FPD Facility - Columbus, MS Month/Year - Feb. 2005

(Page 1 of 1)

Permit Requir	rement	O&G		PHEN	OLS	рН
Jnit of Measu				/	·	XXXXXXXX
DATE	FLOW	mg/1	lbs.	mg/1	lbs.	SU
1	44,149	J	1.00.	13	1.20.	6.70
2	46,674					0., 0
3	47,135		· · · · · · · · · · · · · · · · · · ·		 	
4	43,687	5	1.8	7.6	2.8	-
5	43,687		12.0	1. 0		
6	43,687					
7	44,300		1234			
8	45,480	6	5 3 A	3		6.40
9	44,380	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AFREILIE	7000	/.	2637202
10	35,127	772	APP APP	3	24.20	2930
11	41,736	76.2	200	27	100	
12	41,736	122		37/	/2	3/3/
13	41,736	200		Ci	202	₹ ×
14	47,370		CC515026181	L)	0 3	E
15	48,429				7	100
16	55,473				19191	6.90
17	43,846					12131
18	42,469	5	1.75	11.65	4.1	
19	42,469					
20	42,470					
21	44,532					
22	45,283			-		6.80
23	46,933					
24	46,225					
25	45,673					
26	45,674					
27	45,674					
28	47,601					
29				-		
30		V. W. M.				
31						
Avg.	44,773	5	1.78	9.6-	3.45	6.70
Max.	55,473	5,	1.80	11,65	2.8	6.90
Min.	35,127	4	1.75	7.6	2.8	6.40

	•								1
	Method	420.1	1664	420.1	1664	420.1	1664	EDITION	Ų.
Kerr McGee Chemical Forest Products DMsion Attn: Ronald Hill 3107 Tabernscle Road Columbus, MS 39702	Acceptable Range of Standard			N112232425-25	1282930	01	5567	TARD METHODS 20th EDITION	Lyman ?
	Result of Standard			D212223	618 419	GINELY!	39707	AND: OR STAND	3
ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096 STARKVILLE, MS 39760-1096 1-662-323-7744 1-662-324-1745 (& FAX) USEPA LABCODE: MS00023	Sample Result	8.95 mg/l	5 mg/1	7.60 mg/l	5 mg/l	11.65 mg/l	S mg∕l	CHEMIKAL AVALYSES	Approved
ENVIRO-1 603 GILLES P. O. B STARKVILLE, 1-662-3 USEPA LABC	Parameter	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	H EPA NETHODS FOR	Ą
	Date Received	1/21/2005		2/4/2005		2/18/2005		ORDANCE WIT	
February 22, 2005	Sample Description	Effluent		Effluent		13242526 Effuent	13031-1 13031-1	***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL	
	Lab 10 #	2212		2372		15	056181Tr	Brathie TEST	

Table No. 2-3

KMCC-FPD Facility - Columbus, MS Month/Year - Jan.2005

(Page 1 of 1)

		0&0	G	PHEN	OLS	рН
Permit Requir		VVVVVV	V V V V V V V V V V V V V V V V V V V		·	
Unit of Measu	FLOW		lbs.		lbs.	SU
		mg/1	ins.	mg/1	ibs.	30
1	37,196 37,196					
3	42,066					6.70
4	41,816		(-1	1 - 1	2.	0.70
5	41,629	_5	1.1	7.6	2.6	
6	42,930			61	18 192027	
7	42,880			(315)61.	₹2 ×	
8	42,879			\S	70	.\
9	42,879			2		y S
10	43,164			0	× ×	6.70
11	45,805			0.00	The state of the s	7/
12	44,019			5.0	24.6	
13	45,148			3400	21-180846	
14	43,984					
15	43,984					
16	43,983					
17	45,830					6.60
18	43,958	5	1.8	11.65	4.3	
19	42,895					
20	45,201					
21	41,836					
22	41,836	.2				
23	41,835					
24	42,227					6.80
25	39,369					
26	39,222					
27	39,196					
28	39,605					
29	39,604					
30	39,604					
31	39,415					6.90
Avg.	42,038	5	1.75	9.6	3.45	6.74
Max.	45,830	5	1.8	11.65	4.3	6.90
Min.	37,196	5	1.5	7.6	2./~	6.60

February 22, 2005

ENVIRO-LABS, INC. 603 GILLESPIE STREET P. O. BOX 1096

STARKVILLE, MS 39760-1096 1-662-323-7744

1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

> Kerr McGee Chemical Forest Products Division Attn: Ronald Hill 3107 Tabernacle Road Columbus, MS 39702

		((
	Lab ID #	02	2212 7 18 19 20	314751677	2372		2518	
	Sample Description	2021232425262	Effluent 600	رج'؟	Effluent		Effluent	
	Date Received		1/21/2005		2/4/2005		2/18/2005	
	Parameter		TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS	OIL & GREASE
	Sample Result		8.95 mg/l	5 mg/1	7.60 mg/l	5 mg/l	11.65 mg/l	5 mg/l
	Result of Standard							
Acceptable	Standard							
	Used		420.1	1664	420.1	1664	420.1	1664

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSES AND/OR STANDARD/METHODS 20th EDITION Approved

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Lab I.D. # 22/2

Client:_	Kell.	MC/Yee		
Sample Description:	FFF/VENT	weil Comp.	Hr.	Grab
Residual Cl pH			Flow	
Collected by: 1	, the	Date: /-24-05		
Turn around Time:	Normal	Rush Speci	fy Bate 5161	7181920272
Hazard Identification:	Non Hazard Flammable	Skin IrritanUnknown	10.77.01 ST. 10.17.2	2324
Matrix: Water/Wastewater	r Othe	Thouse w	Se Z	AMM 82525
Calibrations: pH Meter Buffers	Date:	(Description) Time: DO Meter	: Date >	Timestal
Requested Lab Analyses	S:		Metals	Other
рН	arb BOD	TIZN	Meiais	Other
DO C		TKN	-	
	Fecal	TOP	The second second	
	nmonia-N	Nitrate		
	& Grease	Phenols		365
COD	Alkalinity	Res Cl		
Relinquished by:	Date/Time	Received by:		Date/Time
Relinquished by:	Date/Time	Received by:		Date/Time
1. P. Ilus	1/21-05	7:25 AM MM		1/21/05 10:10
(For Lab use only)	1/7/15 11:30	1AL	1)	121/05 11:30
Client:				
Received by:	Date	Timeam pm		
Sample Container: Quantity	Type	Size Pres	serveG	P
	(G) P			4, NaOH, HNO3
49	G P	6.		4, NaOH, HNO3
Thiosulfate Present Y N	G P	250 ml Ice; 1		4, NaOH, HNO3
Thiosulfate Present Y N	G P		ice & H2SO	4, NaOH, HNO3
	G A	40 ml vial Ice		
Sample Condition Upon Receipt:	Temp Deg. C. //		Preserved Container	N Y N
		V	1_	
Sample Disposal: Return Client	Disposal by La	b Arch		

And

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 23/2

		Client:_	tell-an	of gee		
	Sample Des		FFFlueNT			Grab
	Residual Cl	<i>pH</i> _	DO	Temp	Flow	
	Collected by:_	lof	1 ful	Date: 2/4	of Time: Fix	am pm
	Turn arou	nd Time: N	Normal	Rush	Specify Date	
	Hazard Iden	tification:	Non Hazard Flammable	Skin Unkn	Irritant own	
Matrix		Wastewater		Description (Description	tion)	770
Calibra	tions: pH Meter	Buffers	Date:	Time: DO	Meter: Date	11me:
	Requested Lal	Analyses			Metals	Other
	pH	Ca	arb BOD	TKN		
	DO		Fecal	TOP		
	BOD		monia-N	Nitrate		
	TSS		& Grease	Phenols		
	COD	1	Alkalinity	Res Cl		
	Relinquished by:		Date/Time	Received by	v:	Date/Time
	Relinquished by:	_	Date/Time	Received l		Date/Time
	1-1.	lul.	2-4-05 1	In the	1/0/05 8:55	2/0/05 10:15
(For	Lab use only)					
	Client:					
Receive	ed by:		Date	Time	am pm	
	Container:	Quantity N	Type G P G P G P G P G A	Size 1 L 500 ml 250 ml 125 ml 40 ml vial	Ice; Ice & H2 Ice; Ice & H2	G P SO4, NaOH, HNO3 SO4, NaOH, HNO3 SO4, NaOH, HNO3 SO4, NaOH, HNO3
Sample	Condition Upon 1	Receipt:	Temp Deg. C	<u></u>	Preserved Proper Container	Y N
Sample	Dienosal Petu	Client	Disposal by L	ab Arch		

Lab I.D. # 25/8

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759

Client: Kell-Mettee
Sample Description: EFFIDENT WEIN Comp. Hr. Grab
Residual Cl pH DO Temp Flow
Collected by: 1 lul Date: 7:15 (am pm
Turn around Time: Normal Rush Specify Date
Hazard Identification:Non HazardSkin IrritantUnknown
Matrix: Water/Wastewater Other T/e UND WIFTEL (Description) Calibrations: pH Meter Buffers Date: Time: DO Meter: Date Time:
Calibrations: pri vieter butters Date. Time. Do Nation 2 attended
Requested Lab Analyses: Metals Other
pH Carb BOD TKN DO Fecal TOP BOD Ammonia-N Nitrate TSS Qil & Grease Phenols
COD Alkalinity Res Cl
Relinquished by: Date/Time Received by: Date/Time
1-8.161 2/1805 7:15 AM Nillin NIX- 2/18/05 9:15
Relinquished by: Date/Time Received by: Date/Time
THUS 10:00 LAS 2/18/25 10:4
(For Lab use only)
Client:
Received by: Date am pm
Sample Container: Quantity GP 1 L GP 500 ml Ce; Ice & H2SO4, NaOH, HNO3 GP 500 ml Ce; Ice & H2SO4, NaOH, HNO3
Thiosulfate Present Y N G A 40 ml vial Ice; Ice & H2SO4, NaOH, HNO3 G P 125 ml Ice; Ice & H2SO4, NaOH, HNO3 G A 40 ml vial Ice
Sample Condition Upon Receipt: Temp Deg. C. Preserved N N N
Sample Disposal: Return Client Disposal by Lab Arch

ENVIRO-LABS, INC. 603 GILLESPIE STREET

P. O. BOX 1096 STARKVILLE, MS 39760-1096

December 07, 2004

STARKVILLE, MS 39760-1096 1-662-323-7744

1-662-324-1745 (& FAX) USEPA LABCODE: MS00023

Kerr McGee Chemical
Forest Products Division
Attn: Ronald Hill
3107 Tabernacle Road
Columbus, MS 39702

	Sample	7	Sample	
Acceptable				

5417 5527 **Effluent Effluent** 11/19/2004 12/3/2004 TOTAL PHENOLS TOTAL PHENOLS OIL & GREASE 10.25 mg/l 9.30mg/1 <5 mg/l1664 420.1 420.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL OIL & GREASE **Approveds** 5 mg/1 ANALYSES AND/OR STANDARD \$\$ 293037 \$\$\$728293037 THODS 20th 1664

Table No. 2-3

KMCC-FPD Facility - Columbus, MS Month/Year - Dec. 2004

(Page 1 of 1)

		0&0	3	PHEN	OLS	рН
Permit Requir		VVVVVV	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V V V V	XXXXXXX	
Unit of Measu			lbs.		lbs.	SU
DATE	FLOW 45.006	mg/1	105.	1119/1	103.	30
1	45,286					
3	44,452	5	1,8	9.3	3.4	. ,,
4	44,323 44,323	3	1.8	1.3	3.7	·
5	44,323		-	-		
6	45,705	<u>.</u>	+			6.60
7	45,703			-		3.00
8	48,277			-		
9	47,236		-			
10	45,848				- "	
11	45,848					-
12	45,847					6.70
13	45,127					
14	43,483		-			
15	45,406	,	-			
16	44,761					
17	45,131	45	4 9	5.85	2.1	
18	45,131					
19	45,130					
20	38,677					6.80
21	43,571					
22	43,309					
23	37,687					
24	41,248					
25	41,247					
26	41,247					
27	42,507					6.70
28	42,533					
29	58,214					
30	25,392					
31	49,757					
Avg.	44,409	5	1.85	7.6	2.75	6.70
Max.	58,214	5	1.90	9.3	3.4	6.80
Min.	25,392	45	1.80	5.9	2.\	6.70

Analysis Request / Environmental Services Chain of Custody



Acct. #

For Lancaster Laboratories use only
Group# 724446 Sample # 4435740-41

COC # 0058157

Please print. Instructions on reverse side correspond with circled numbers.

(4)	_(8)_		_(7)						-				-		-(3
Type I (Tier I) GLP Type II (Tier II) Other Type III (NJ Red. Del.) Type IV (CLP)	Ö ,	<i>\U</i> = -	(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)						WEIR BY-OF	WEIR BOX-ON	Sample Identification	Name of state where samples were collected:	Project Manager: 121E. Sampler: 2019111	Project Namel#: Bi-Vinch	Client: KERP IM E
Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No	ptions (please circle if required) Type VI (Paw Data) Yes		d (TAT) (please cir r Laboratories approv						cal	cal		were collected:	CACHIER !	1 Quety	te Chen
equired? You mple and subm	SI	hone (Fax) (E-mail (6-3) 3-37-75-86	cle): Norm						406-61	12-8-04	Date Collected	lumbus,	P.O.#: _ Quote #:	PWSID #:	Acct. #:
es No it triplicate volume	SDG Complete?	E-mail 75.8%	arge.)						0725	0640	Time Collected	Ms		#	7803
		t 2	Z.						×		Grab (ω			
Relinquished by:	Polinguishod by:	Relinquished by:	Relinquished by:	H	+	-				\sim	Compo Soil	site			
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by: S	[इ. / / इ.	, Š								Other			(
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Time	1 0	7.20 Time	Time	920	30 31								~~~	E46/	Ana
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Received by:		Received by:	Reperved by:		2		Ç	e d					\	\	Analyses Requested
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red by:		/ - •	165				1				Reg		\		ı d
5.	\perp		13	61	12191	Q LYN	Y				Remarks		\	<u> </u>	
5			6.								"			87	
\$		1 =									s			SCR #	For Lab Use Only
Date		Date	Date											119	Use
F9 = 1 /		Time	Time								- Variable	a tornio torni		18	July
Res /		Φ	6		1				1 1	l	Temperati upor	pt (if rec	mples (空室	



ANALYTICAL RESULTS

Prepared for:

Kerr-McGee Corporation Forest Products Division P.O. Box 25861 Oklahoma City OK 73125

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 924446. Samples arrived at the laboratory on Friday, December 10, 2004.

Client Description	n	
Weir Box-OF001	Composite	Water Sample

Weir Box-OF001 Grab Water Sample

Lancaster Labs Number

4425740 4425741

1 COPY TO	Kerr-McGee Corporation
1 COPY TO	Kerr-McGee Corporation
1 COPY TO	Kerr-McGee Corporation

Attn: Mr. Tom Reed Attn: Mr. Steve Ladner Attn: Mr. Chuck Swann

Questions? Contact your Client Services Representative Carrie A Fleming at (717) 656-2300.

Respectfully Submitted,





Page 1 of 1



Lancaster Laboratories Sample No. 4425740

Weir Box-OF001 Composite Water Sample Columbus, MS

Collected:12/08/2004 08:20

through 12/09/2004 08:20 Submitted: 12/10/2004 08:55 Reported: 12/17/2004 at 10:49

Discard: 02/01/2005

SDG#: KMM37-01

Kerr-McGee Corporation Forest Products Division

P.O. Box 25861

Oklahoma City OK 73125

CAT			As Received	As Received Limit of	Dilution	
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07035	Arsenic	7440-38-2	0.0172	0.0100		1
07051	Chromium	7440-47-3	N.D.		mg/l	1
07053	Copper			0.0050	mg/l	1
0,033	copper	7440-50-8	N.D.	0.0100	mg/l	1

Tlow

by RH

Laboratory Chronicle

CAT			-	-		
No. 07035	Analysis Name Arsenic	Method EPA 200.7	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07051 07053 05732	Chromium Copper EPA 600 ICP Digest (total)	EPA 200.7 EPA 200.7 EPA 200.7	1	12/14/2004 20:14 12/14/2004 20:14 12/14/2004 20:14 12/13/2004 22:10	John P Hook John P Hook John P Hook James L Mertz	1 1 1 1



Page 1 of 1

4425741 Lancaster Laboratories Sample No.

Weir Box-OF001 Grab Water Sample Columbus, MS

Account Number: 07802 Collected:12/09/2004 07:25

Submitted: 12/10/2004 08:55 Kerr-McGee Corporation Reported: 12/17/2004 at 10:50 Forest Products Division

P.O. Box 25861 Discard: 02/01/2005

Oklahoma City OK 73125

OFWBG SDG#: KMM37-02

As Received CAT As Received Limit of Dilution No. Analysis Name CAS Number Result Quantitation Units Factor 04679 TCL SW846 Semivolatiles/Waters 87-86-5 39. 26. ug/l 03934 Pentachlorophenol

Tho. 047

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
04679	TCL SW846	SW-846 8270C	1	12/15/2004 11:02	Joseph M Gambler	1
	Semivolatiles/Waters					
00813	BNA Water Extraction	SW-846 3510C	1	12/12/2004 07:30	Mark P Mastropietro	1



Page 1 of 2

Quality Control Summary

Client Name: Kerr-McGee Corporation

Reported: 12/17/04 at 10:50 AM

Group Number: 924446

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04346WAG026 Pentachlorophenol	Sample num	mber(s): 25.	4425741 ug/l	81	85	48-108	4	30
Batch number: 043485732002 Arsenic Chromium Copper	Sample nu N.D. N.D. N.D.	mber(s): 0.0100 0.0050 0.0100	4425740 mg/l mg/l mg/l	103 102 101		92-109 95-112 92-110		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 043485732002	Sample	number	(s): 4425740	0					
Arsenic	105		86-119			N.D.	0.0048 J	200* (1)	20
Chromium	104		86-118			N.D.	0.0025 J	200* (1)	20
Copper	103		89-119			0.0051 J	0.0051 J	1 (1)	20

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 04346WAG026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4425741	55	39	119	
Blank	55	41	83	
LCS	50	37	88	
LCSD	52	38	91	
Limits:	22-91	10-80	43-145	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.





Page 2 of 2

Quality Control Summary

Client Name: Kerr-McGee Corporation

Reported: 12/17/04 at 10:50 AM

Group Number: 924446

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



ENVIRO-LABS, INC. 603 GILLESPIE STREET

STARKVILLE, MS 39760-1096 1-662-323-7744 P. O. BOX 1096

January 18, 2005

USEPA LABCODE: MS00023 1-662-324-1745 (& FAX)

> Forest Products Division 3107 Tabemacle Road Columbus, MS 39702 Kerr McGee Chemical Attn: Ronald Hill

	Methor Used	Range of Standard	Result of Standard	-	Sample Result	Parameter	Date	Sample Description	Lab ID #
--	----------------	----------------------	-----------------------	---	------------------	-----------	------	-----------------------	----------

	2076		5689
	Effluent		Effluent
25	1/7/2005		12/17/2004
OIL & GREASE	TOTAL PHENOLS	OIL & GREASE	TOTAL PHENOLS
6 mg/l	6.80 mg/l	<5 mg/1	5.85 mg/l
	4		4
1664	420.1	1664	420.1

***THE TEST PERFORMED ARE IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL AMALYSES AND/OR STANDARD/METHODS 20th EDITION Approved:



Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 2076

					-16171	
		Client:	Kell-	Mc/gest	201011181920	
	Sample Des	cription:	EFFlueNI	Con	m. H	Grab
	•			on A	E.	
Res	idual Cl	_ <i>pH</i>	DO	Temp	Flow_	\$
Col	llected by:	1-8	1 fel	Date: /-a	Times	So (am) pm
				-1-	18086787	pin pin
	Turn arou	nd Time:	Normal	Rush	Specify Dat	e
	Hazard Iden	tification:	Non Hazard	Skir	n Irritant	
			Flammable	Uni	known	
Matrix:	Water/V	Wastewate	er Othe	T Thousa	WATE	P
	•	4 4.0		(Descr		
<u>Calibrations</u>	: pH Meter	Buffers	Date:	Time: D	O Meter: Date	Time:
Rec	quested Lal	Analyse	s:			
					Mo	etals Other
	pH	(Carb BOD	TKN		
	DO		Fecal	TOP		
	TSS		mmonia-N	Nitrate		
				Phenols		<u> </u>
C	.ОБ		Alkalinity	Res Cl	_	
Reli	nquished by:		Date/Time	Received	by:	Date/Time
	10	12		lle out of	0000	VA VI
	1-4.1	her .	1-7.05 8	100 AM	1. Kie W	JH- 1/7/05 9:00
Reli	nquished by:		Date/Time	Received	by:	Date/Time
	1 Land		1/1/2		'	11.
	M HV		1/105 11:36		190	1/1/05 11:30
(For Lab	use only)					
Clie	nt:					
Received by:			Date	Time	am nm	
Sample Cont	ainer:	Quantity	Type G P	Size 1 L	Preserve	G P H2SO4 NaOH, HNO3
			G P	500 ml		H2SO4, NaOH, HNO3
			G P	250 ml		H2SO4, NaOH, HNO3
Thiosulfate	Present Y N		G P	125 ml		H2SO4, NaOH, HNO3
		—	G A	40 ml vial	Ice	
Sample Cond	lition Upon R	eceipt:	Temp Deg. C. 4		Preser	ved & N
•					Proper Contai	
Sample Dispo	sal: Return	n to Client	Disposal by La	h Arch	ive	

AI

Enviro-Labs, Inc. 603 Gillespie St. Starkville, MS 39759 Lab I.D. # 5689

Clien	1: Kell M	g/dee		
Sample Description		7	oHr.	Grab
Residual Cl pH	DO		Flow	
Collected by:	8. Ibil	Date: 12/1	704 Time: 7:4	≤am pm
Turn around Time:		Rush	Specify Date	0 10 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Hazard Identification	Non Hazard Flammable		Irritant	
Matrix: Water/Wastewa Calibrations: pH Meter Buffers		(Descrip	tion)	Timero oc 67.87.1.80
		Time.	Meter. Date	
Requested Lab Analy	ses:	-27	Metals	Other
pH	Carb BOD	TKN		1
DO	Fecal	TOP		
	Ammonia-N	Nitrate_		
	il & Grease	Phenols	_	
COD	Alkalinity	Res Cl	_	
Relinquished by:	Date/Time	Received by		Date/Time
1.t. / Wel	12-17-04	7.45 11-11	Mie Mil	-12/1/04 9:30
Relinquished by:	Date/Time	Received l	y:	Date/Time
MIN	12/11/04 10:	w	176	12/11/04 10:10
(For Lab use only)				
Client:				
Received by:	Date	Timea	m pm	
Sample Container: Quant	Type G P G P	Size 1 L 500 ml	Ice; Ice& H2S	G P 04, NaOH, HNO3 04, NaOH, HNO3
Thiosulfate Present Y N	G P G P G A	250 ml 125 ml 40 ml vial	Ice; Ice & H2S	O4, NaOH, HNO3 O4, NaOH, HNO3
Sample Condition Upon Receipt:	Temp Deg. C.		Preserved Proper Container	N Y N
Sample Disposals - Potum to Clice	at Diamanal har T	h V	7 %-	



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1

1

mg/l

mg/l

Lancaster Laboratories Sample No. WW 4228772

#1 Composite Water Sample Quarterly Waste Water - MS

Collected: 03/03/2004 09:00

through 03/04/2004 09:10

Submitted: 03/05/2004 08:55

Reported: 03/18/2004 at 13:46 Discard: 04/18/2004

07051 Chromium

07053 Copper

SDG#: KMM23-01

by RH

Account Number: 07802

Kerr-McGee Corporation Forest Products Division

P.O. Box 25861

Oklahoma City OK 73125

0.0050

0.0100

				As Received		
CAT			As Received	Limit of		Dilution
No.	Analysis Name	CAS Number	Result	Quantitation	Units	Factor
07035	Arsenic	7440-38-2	0.0089 J	0.0100	ma/l	1

7440-47-3

7440-50-8

Laboratory Chronicle

0.0027 J

N.D.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07035	Arsenic	EPA 200.7	1	03/16/2004 16:50	John P Hook	1
07051	Chromium	EPA 200.7	1	03/15/2004 19:49	John P Hook	1
07053	Copper	EPA 200.7	1	03/15/2004 19:49	John P Hook	1
05732	EPA 600 ICP Digest (total)	EPA 200.7	1	03/15/2004 10:10	Megersa Deyessa	1



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4228773

#2 Grab Water Sample Quarterly Waste Water - MS

Collected:03/04/2004 09:12

by RH

Account Number: 07802

Submitted: 03/05/2004 08:55 Reported: 03/18/2004 at 13:46

compounds were raised.

Discard: 04/18/2004

Kerr-McGee Corporation Forest Products Division

P.O. Box 25861

Oklahoma City OK 73125

2QUAR SDG#: KMM23-02*

_

As Received CAT Limit of Dilution As Received CAS Number Quantitation No. Analysis Name Result Units Factor 04679 TCL SW846 Semivolatiles/Waters 03934 Pentachlorophenol 87-86-5 N.D. 120. ug/l Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile

Laboratory Chronicle CAT Analysis Dilution Method Trial# No. Analysis Name Date and Time Analyst Factor 04679 TCL SW846 SW-846 8270C 03/12/2004 16:48 Joseph M Gambler Semivolatiles/Waters SW-846 3510C 00813 03/07/2004 11:00 Andrew G Newton BNA Water Extraction 1



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Quality Control Summary

Client Name: Kerr-McGee Corporation Reported: 03/18/04 at 01:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.



Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOO	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04066WAJ026 Pentachlorophenol	Sample nu N.D.	umber(s): 25.	4228773 ug/l	83	85	50-112	3	30
Batch number: 040755732001 Arsenic Chromium Copper	Sample no N.D. 0.0024 J N.D.	mber(s): 0.0100 0.0050 0.0100	mg/l	101 99 98		92-109 95-112 92-110		

Sample Matrix Quality Control

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	<u>%REC</u>	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 040755732001 Arsenic Chromium Copper	Sample 102 102 103	number	(s): 422877 86-119 86-118 89-119	2		N.D. N.D. N.D.	N.D. 0.0029 J N.D.	0 (1) 200* (1) 0 (1)	20 20 20

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch numb	er: 04066WAJ026 2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	
4228773 Blank LCS LCSD	61 58 65 64	39 38 40 41	95 96 103 101	
Limits:	23-94	10-80	45-142	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Explanation of Symbols and Abbreviations

Inorganic Qualifiers

The following defines common symbols and abbreviations used in reporting technical data:

N.D. none detected TNTC Too Numerous To Count IU International Units umhos/cm micromhos/cm C degrees Celsius med milliequivalents g gram(s) ug microgram(s) ml milliliter(s) m3 cubic meter(s)	MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
--	--	--

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

		_	Value is aCDDL but NDL
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" td="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
Ċ	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
Ď	Compound quantitated on a diluted sample	N	Spike sample not within control limits
Ē	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and	W	Post digestion spike out of control limits
•	confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acat # 1707

For Lancaster Laboratories use only
Group# 8774 Sample # 472 8772 73

_ **COC** # 0047550

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Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No	ype VI (Raw Data)	e circle if required)		Fax #:		l (TAT) (please circle) Laboratories approval (<u>&</u>	9¢	Çŏ		vere collected:		Steel Chier PO#	# TERY WASTLAFTOWN #	336	4
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