

## Wilson, Tabatha

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**From:** Gilliam, Allen  
**Sent:** Friday, June 06, 2014 12:19 PM  
**To:** Chuck.Jones@danfoss.com  
**Cc:** Fuller, Kim; Wilson, Tabatha; Arkadelphia - Brenda Gills; sorrellsresearch@comcast.net  
**Subject:** AR0020605\_Danfoss ARP001040 June 2014 quarterly Pretreatment report with ADEQ reply\_20140606  
**Attachments:** 20140603115006570.pdf; Danfoss\_001.pdf

Chuck,

Danfoss' quarterly Pretreatment report was received, reviewed, deemed complete and compliant with the reporting requirements in 40 CFR 403.12(e) and more specifically with the Metal Finishing standards in 40 CFR 433.

Notes: Please include your toxic organic analysis semi-annually (June and December) as per agreement made with the City's Utility Manager. The QA/QC sheets are not necessary, only the results pages should be sent.

After phone conversations with Danfoss' contract lab, Sorrells, they produced the TTO scan and are also attached. Another topic of discussion with Sorrells was regarding submittal of a complete chain of custody (C of C). The one they supplied to you was not clear (to this office) and did not appear complete. Cecil Sorrells indicated to this office their future Cs of C will be clearer and complete.

No further action is deemed necessary at this time.

Thank you for your timely report remaining in compliance with the Federal Pretreatment Regulations in 40 CFR 403.

Sincerely,

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
501.682.0625

ec: Brenda Gills, City of Arkadelphia Utilities Manager  
Cecil Sorrells, Sorrells Lab Manager

E/NPDES/NPDES/Pretreatment/Reports

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**From:** Jones Chuck [<mailto:Chuck.Jones@danfoss.com>]  
**Sent:** Tuesday, June 03, 2014 12:01 PM  
**To:** [bccgills@cityofarkadelphia.com](mailto:bccgills@cityofarkadelphia.com); Gilliam, Allen  
**Subject:** 2nd quarter report

I have attached the quarterly report for your review. If you have any questions please let me know.

Gung Ho!

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**Chuck Jones NREMT-P**

Environmental, Health and Safety Manager

**Danfoss LLC**

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Danfoss ([www.danfoss.us](http://www.danfoss.us)), is a leading manufacturer of high efficiency electronic and mechanical components and controls for air-conditioning, heating, refrigeration and motion systems.

# SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40 CFR 433

Use of this form is not an ADEQ requirement, but satisfies the reporting requirements in 40 CFR 403.12(e).

Attn: Water Div/NPDES Pretreatment

## (1) IDENTIFYING INFORMATION and NPDES Pretreatment Tracking # ARP001040

### A. LEGAL NAME & MAILING ADDRESS

Danfoss LCC  
One Scroll Drive  
Arkadelphia AR 71923

### B. FACILITY & LOCATION ADDRESS

Danfoss LCC  
One Scroll Drive  
Arkadelphia AR 71923

C. FACILITY CONTACT: **Chuck Jones** TELEPHONE NUMBER: **870-246-0714** e-mail: **chuck.jones@danfoss.com**

## (2) REPORTING PERIOD--FISCAL YEAR From \_\_\_\_\_ to \_\_\_\_\_ (Both Semi-Annual Reports must cover Fiscal Year)

### A. MONTHS WHICH REPORTS ARE DUE

2<sup>nd</sup> Quarter through June 2014

### B. PERIOD COVERED BY THIS REPORT

FROM: **March** TO: **May**

## (3) DESCRIPTION OF OPERATION

### A. REGULATED PROCESSES

#### CORE PROCESS(ES)

CHECK EACH APPLICABLE BLOCK

- Electroplating
- Electroless Plating
- Anodizing
- Coating (conversion)
- Chemical Etching and Milling
- Printed Circuit Board Manufacture

#### ANCILLARY PROCESS(ES)<sup>1</sup>

LIST BELOW EACH PROCESS USED IN THE FACILITY

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### B. CHANGES:

SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

June 2014 QR  
ARP 001040  
AR0020605  
AFIN 10-00102  
Filed Date 2014 06 03

<sup>1</sup>SEE 40CFR433.10(a) FOR THE 40 ANCILLARY OPERATIONS

C. Number of Regular Employees at this Facility 195

D. [Reserved]

**(4) FLOW MEASUREMENT**

**INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY**

Process	Average	Maximum	Type of Discharge*
Regulated (Core & Ancillary)		62100	Continuous
Regulated (Cyanide)	18142	62100	Continuous
' 403.6(e) Unregulated*	0	0	N/A
' 403.6(e) Dilute	0	0	Batch
Cooling Water	0	0	Continuous
Sanitary	5800	10150	Continuous
<b>Total Flow to POTW</b>	<b>23942</b>	<b>72250</b>	<b>*****</b>

\*If batch discharged please list the period of time of each batch discharge (300 gallons/day; 500 gallons/week, 2,000 gallons/3 months, etc). Do not normalize over that period for the average flow.

"Unregulated" has a precise legal meaning; see 40CFR403.6(c).

**(5) MEASUREMENT OF POLLUTANTS**

**A. TYPE OF TREATMENT SYSTEM**

CHECK EACH APPLICABLE BLOCK

Neutralization

Chemical Precipitation and Sedimentation

Chromium Reduction

Cyanide Destruction

Other \_\_\_\_\_

None

**B. COMMENTS ON TREATMENT SYSTEM**

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES--CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

40 CFR 433.17 Pollutant(mg/l) limits	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	2.77	3.38	0.69	3.98	0.43	2.61	1.20	2.13
Monthly Avg	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	--
Max Measured	.0007	.001	.0067	.00593	.0367	.0001	.0049	.011	*
Avg Measured**	.0007	.001	.0067	.00593	.0367	.0001	.0049	.011	*

Sample Location After Pre-Treatment

Sample Type (Grab\* or Composite) Composite

\*If Grab, list # of grabs over what period of time

Number of Samples and Frequency Collected 1

40CFR136 Preservation and Analytical Methods Use:  Yes  No (include complete Chain of Custody)

\*If a TOMP has been submitted and approved by ADEQ place N/A.

**\*\*A value here is the average of all samples taken during one (1) calendar month regardless of number of samples taken. If only one (1) sample is taken it must meet the monthly average limitation.**

**(6) CERTIFICATION (ONLY IF A TOMP HAS BEEN SUBMITTED/APPROVED BY ADEQ)**

**B. CHECK ONE:  '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED     '433.12(a) TTO CERTIFICATION**

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the toxic organic management plan submitted to Arkansas Department of Environmental Quality.

Chuck Jones  
(Typed/Printed Name)

  
(Corporate Officer or authorized representative signature)

Date of Signature   6/3/14  

**(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]**

'6602 [42 U.S.C. 13101] Findings and Policy para (b) Policy.--The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The User may list any new or ongoing Pollution Prevention practices including Best or Environmental Management Practices, Source Reduction, Waste Minimization, Lean Manufacturing, Water and/or Energy Conservaton:

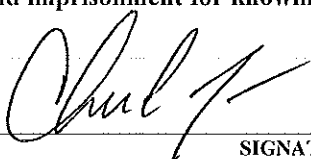
1.   We continue to use mechanical separation of oil and grease prior to pre-treatment.
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

**(8) GENERAL COMMENTS**

**(9) SEMI-ANNUAL/PERIODIC REPORT CERTIFICATION STATEMENT REQUIRED UNDER 40 CFR 403.12(I)**

I certify under penalty of law that I have personally examined and am familiar with the information in this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Chuck Jones  
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

  
SIGNATURE

EHS Manager  
OFFICIAL TITLE

6/3/14  
DATE SIGNED



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: April 29, 2014  
Date Received : April 2, 2014

For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT GRAB / 04/02/14 1056

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	37.450	mg/Liter	5210 B
Total suspended solids	12.000	mg/Liter	2540D
Oil and grease - Gravimetric	3.500	mg/Liter	1664
Cyanide, total	0.011	mg/Liter	335.2
pH (-H+)	7.470	units	4500 B
Temperature	29.100	.C	2550 B
Arsenic, As	<	1.000 ug/Liter	200.8
Cadmium, Cd		0.700 ug/Liter	200.8
Chromium, Cr	<	1.000 ug/Liter	200.8
Copper, Cu		6.700 ug/Liter	200.8
Lead, Pb		5.930 ug/Liter	200.8
Manganese, Mn	439.500	ug/Liter	200.8
Nickel, Ni	36.700	ug/Liter	200.8
Silver, Ag	<	0.100 ug/Liter	200.8
Zinc, Zn		4.900 ug/Liter	200.8
Metals, Digestion for	=	1.000 ea sample	3030 D

**SORRELLS RESEARCH ASSOCIATES, INC**  
 8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209  
 501-562-8139 800-331-8139  
 FAX 501-562-7025

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME \_\_\_\_\_ FOR LAB/OFFICE USE ONLY  
 RUSH 24HR. 48 HR. LAB # 16988.0001-0001A  
 5 DAY REG OTHER \_\_\_\_\_ CLIENT # 41017  
 OTHER \_\_\_\_\_ P.O.# \_\_\_\_\_  
 STANDARD METHODS PRESERVATION PER EPA 40 CFR  
 C4= COOL TO 4.C  
 S<2= SULFURIC ACID TO pH<2  
 N<2= NITRIC ACID TO pH<2  
 T= THIOSULFATE FOR DECHLORINATION  
 W= WINKLER AZIDE MODIFICATION  
 P= MEMBRANE ELECTRODE  
 NaOH= pH >12

NAME OF COMPANY, CITY, OR PROJECT: Danfoss Scroll Technologies PROJECT NO.: \_\_\_\_\_ SAMPLER(S) NAME: (PRINT) Adam B

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	GRAB	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE PRESERVATIVE	ANALYSIS REQUIRED
		DATE/TIME	DATE/TIME			pH	TEMP	FLOW	CL2			
	Outfall 001	4-2 10:51	4-2 11:05	C							1 qt.	BOD, TSS
				C							50 ml	metals
				C							1 L amber narrow	TTO
				G							1 L amber s<2	O&G
				G							500 ml NaOH	CN
				G							(2) 40 ml vials	TTO
				G							on-site	pH, temp
METHOD OF SHIPMENT (CIRCLE)												
FED EX WALK IN SRA UPS OTHER		FIELD CALIBRATION RECORD				NOTES/COMMENTS/OBSERVATIONS						
		pH 7	7.00	All containers at C4								
		pH 4	4.01									
		pH 10	10.00									
		D.O										
TYPE OF SAMPLE(S): (CIRCLE)												
WATER SOIL W/W SLUDGE OTHER		FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT										

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: [Signature] DATE/TIME: 4-2-14  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY(LAB): [Signature] DATE/TIME: 4-2-14  
12:00





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LABORATORY ANALYSIS

Date of Report: April 29, 2014  
Date Received : April 2, 2014

For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813  
Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034  
Sample From: EFFLUENT / COMP 04/01-02/14 0600-0600

ANALYTE		RESULT	UNITS	METHOD
Acrolein	<	10.000	ug/Liter	8260B
Acrylonitrile	<	10.000	ug/Liter	8260B
Benzene	<	0.300	ug/Liter	8260B
Bromodichloromethane	<	0.300	ug/Liter	8260B
Bromoform	<	0.200	ug/Liter	8260B
Bromomethane (Methyl bromide)	<	0.600	ug/Liter	8260B
Carbon tetrachloride	<	0.600	ug/Liter	8260B
Chlorobenzene	<	0.600	ug/Liter	8260B
Chloroethane	<	1.300	ug/Liter	8260B
Chloroform	<	2.000	ug/Liter	8260B
Chloroethylvinyl ether, 2-	<	10.000	ug/Liter	8260B
Chloromethane (Methyl chloride)	<	0.400	ug/Liter	8260B
Chlorodibromomethane	<	0.400	ug/Liter	8260B
Dichloroethane, 1,1-	<	0.300	ug/Liter	8260B
Dichloroethylene, cis-1,2-	<	0.700	ug/Liter	8260B
Dichloroethane, 1,2-	<	0.300	ug/Liter	8260B
Dichloroethylene, trans-1,2-	<	0.700	ug/Liter	8260B
Dichloroethylene, 1,1- (1,1-dichloroethene)	<	0.300	ug/Liter	8260B
Dichloropropane, 1,2-	<	0.300	ug/Liter	8260B
Dichloropropylene, cis-1,3-	<	0.400	ug/Liter	8260B
Dichloropropylene, trans-1,3-	<	0.500	ug/Liter	8260B
Ethylbenzene	<	0.400	ug/Liter	8260B
Methylene chloride	<	1.000	ug/Liter	8260B
Tetrachloroethane, 1, 1, 2, 2	<	0.700	ug/Liter	8260B
Tetrachloroethylene	<	0.600	ug/Liter	8260B
Toluene	<	0.700	ug/Liter	8260B
Trichloroethane, 1, 1, 1-	<	0.300	ug/Liter	8260B
Trichloroethane, 1, 1, 2-	<	0.400	ug/Liter	8260B
Trichloroethylene	<	0.400	ug/Liter	8260B
Vinyl chloride	<	1.000	ug/Liter	8260B
Acenaphthene	<	0.300	ug/Liter	8270D
Acenaphthylene	<	0.800	ug/Liter	8270D

Laboratory Number: 16988.0001



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# SORRELLS RESEARCH LABORATORY AND FIELD SERVICES

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# WEF



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Fax 501-562-7025  
Toll Free 1-800-331-8139

## LABORATORY ANALYSIS

Date of Report: April 29, 2014  
Date Received : April 2, 2014

For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813  
Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034  
Sample From: EFFLUENT / COMP 04/01-02/14 0600-0600

ANALYTE		RESULT	UNITS	METHOD
Anthracene	<	0.500	ug/Liter	8270D
Benzidine	<	5.000	ug/Liter	8270D
Benzo (a) anthracene	<	0.800	ug/Liter	8270D
Benzo (a) pyrene	<	1.000	ug/Liter	8270D
Benzo (b) fluoranthene	<	0.400	ug/Liter	8270D
Benzo (g,h,i) perylene	<	0.500	ug/Liter	8270D
Benzo (k) fluoranthene	<	0.400	ug/Liter	8270D
bis (2-chloroethoxy) methane	<	0.300	ug/Liter	8270D
bis (2-chloroethyl) ether	<	0.400	ug/Liter	8270D
bis (2-chloroisopropyl) ether	<	0.200	ug/Liter	8270D
bis (2-ethylhexyl) phthalate		15.800	ug/Liter	8270D
Bromophenyl phenyl ether, 4-	<	0.500	ug/Liter	8270D
Butylbenzyl phthalate	<	0.300	ug/Liter	8270D
Chloronaphthalene, 2-	<	0.400	ug/Liter	8270D
Chlorophenol, 2-	<	0.300	ug/Liter	8270D
Chlorophenyl phenyl ether, 4-	<	0.300	ug/Liter	8270D
Chrysene	<	0.400	ug/Liter	8270D
Dibenzo (a,h) anthracene	<	0.400	ug/Liter	8270D
Dichlorobenzene, 1,2-	<	0.300	ug/Liter	8260B
Dichlorobenzene, 1,3-	<	0.300	ug/Liter	8260B
Dichlorobenzene, 1,4-	<	0.900	ug/Liter	8260B
Dichlorobenzidine, 3,3'-	<	5.000	ug/Liter	8270D
Dichlorophenol, 2,4-	<	0.300	ug/Liter	8270D
Diethylphthalate	<	0.500	ug/Liter	8270D
Dimethylphenol, 2,4-	<	0.200	ug/Liter	8270D
Dimethylphthalate	<	0.300	ug/Liter	8270D
Di-n-butyl phthalate		1.970	ug/Liter	8270D
Dinitro-o-cresol, 4,6-	<	0.700	ug/Liter	8270D
Dinitrophenol, 2,4-	<	0.600	ug/Liter	8270D
Dinitrotoluene, 2,4-	<	0.100	ug/Liter	8270D
Dinitrotoluene, 2,6-	<	0.400	ug/Liter	8270D
Di-n-octyl phthalate	<	0.200	ug/Liter	8270D

Laboratory Number: 16988.0001



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LABORATORY ANALYSIS

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For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813  
Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034  
Sample From: EFFLUENT / COMP 04/01-02/14 0600-0600

ANALYTE		RESULT	UNITS	METHOD
Diphenylhydrazine, 1,2-	<	10.000	ug/Liter	8270D
Fluoranthene	<	0.300	ug/Liter	8270D
Fluorene	<	0.900	ug/Liter	8270D
Hexachlorobenzene	<	0.300	ug/Liter	8270D
Hexachlorobutadiene	<	0.600	ug/Liter	8260B
Hexachlorocyclopentadiene	<	0.200	ug/Liter	8270D
Hexachloroethane	<	0.300	ug/Liter	8270D
Indeno (1,2,3-Cd) pyrene	<	0.400	ug/Liter	8270D
Isophorone	<	0.200	ug/Liter	8270D
Naphthalene	<	1.000	ug/Liter	8260B
Nitrobenzene	<	0.300	ug/Liter	8270D
Nitrophenol, 2-	<	0.200	ug/Liter	8270D
Nitrophenol, 4-	<	10.000	ug/Liter	8270D
N-Nitrosodimethylamine	<	1.000	ug/Liter	8270D
N-nitrosodi-n-propylamine	<	0.500	ug/Liter	8270D
N-Nitrosodiphenylamine	<	0.400	ug/Liter	8270D
p-Chloro-m-cresol	<	0.400	ug/Liter	8270D
Pentachlorophenol	<	0.400	ug/Liter	8270D
Phenanthrene	<	0.500	ug/Liter	8270D
Phenol	<	0.400	ug/Liter	8270D
Pyrene	<	0.500	ug/Liter	8270D
Trichlorobenzene, 1, 2, 4-	<	0.300	ug/Liter	8260B
Trichlorophenol, 2, 4, 6-	<	0.400	ug/Liter	8270D
Aldrin	<	1.000	ug/Liter	8270Di
BHC, Alpha	<	1.000	ug/Liter	8270Di
BHC, Beta	<	1.000	ug/Liter	8270Di
BHC, Delta	<	1.000	ug/Liter	8270Di
BHC, Gamma (Lindane)	<	1.000	ug/Liter	8270Di
Chlordane	<	1.000	ug/Liter	8270Di
4, 4'-DDD	<	1.000	ug/Liter	8270Di
4, 4'-DDE	<	1.000	ug/Liter	8270Di
4, 4'-DDT	<	1.000	ug/Liter	8270Di

Laboratory Number: 16988.0001



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LABORATORY ANALYSIS

Date of Report: April 29, 2014  
Date Received : April 2, 2014

For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813

Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034

Sample From: EFFLUENT / COMP 04/01-02/14 0600-0600

ANALYTE		RESULT	UNITS	METHOD
Dieldrin	<	10.000	ug/Liter	8270Di
Endosulfan, Alpha-	<	1.000	ug/Liter	8270Di
Endosulfan, Beta-	<	1.000	ug/Liter	8270Di
Endosulfan sulfate		2.130	ug/Liter	8270Di
Endrin	<	0.500	ug/Liter	8270Di
Endrin aldehyde	<	0.500	ug/Liter	8270Di
Heptachlor	<	1.000	ug/Liter	8270Di
Heptachlor epoxide (beta)	<	1.000	ug/Liter	8270Di
2, 3, 7, 8- TCDD	<	0.200	ug/Liter	8270Di
Toxaphene	<	5.000	ug/Liter	8270Di
PCB-1016	<	1.000	ppm	8270Da
PCB-1221	<	1.000	ppm	8270Da
PCB-1232	<	1.000	ppm	8270Da
PCB-1242	<	1.000	ppm	8270Da
PCB-1248	<	1.000	ppm	8270Da
PCB-1254	<	1.000	ppm	8270Da
PCB-1260	<	1.000	ppm	8270Da
TTO, Total Toxic Organics		0.020	mg/Liter	Calc.
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510

Laboratory Number: 16988.0001