

## Wilson, Tabatha

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**From:** Gilliam, Allen  
**Sent:** Wednesday, May 14, 2014 3:51 PM  
**To:** chuck.jones@danfoss.com  
**Cc:** Fuller, Kim; Wilson, Tabatha; Arkadelphia - Brenda Gills  
**Subject:** AR0020605\_Danfoss ARP001040 additions to its April 2014 semi annual Pretreatment report with ADEQ reply\_20140514  
**Attachments:** Jan 2014.pdf; Feb 2014.pdf; Effluent\_Sampling 2012.xls; 433 semi annual report FORM 2013.doc  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Chuck,

With the additional information submitted as requested by this office on April 1/2014, your April 2014 semi-annual report is deemed complete and compliant with the reporting requirements in 40 CFR 403.12(e) and more specifically compliant with the Metal Finishing standards in 40 CFR 433. You may continue using the dilution factor albeit almost insignificant.

Per 40 CFR 403.12(e)(1) *Periodic reports on continued compliance*. “[Danfoss] shall submit to [ADEQ and as a professional courtesy, to the City] during the months of June and December, unless required more frequently by [ADEQ or Arkadelphia] a report indicating the nature and concentration of pollutants in the effluent which are limited by such categorical Pretreatment Standards. In addition, this report shall include a record of measured or estimated average and maximum daily flows for the reporting period...[ADEQ] may modify the months during which the above reports are to be submitted.” Twice per year sampling/reporting is required at a minimum per this part of the regulations.

It is noted from the attachments, Danfoss is sampling once/month for all parameters in 40 CFR 433 (including the Toxic Organics in 40 CFR 433.11(e), which are all but non-detect. See below question, however.).

After conversations over the phone this afternoon with Arkadelphia’s Utility Manager, Brenda Gills, it was determined it would be acceptable to reduce your sampling/reporting to once per quarter for the metals in 40 CFR 433 and once per six months for the TTOs (Total Toxic Organics). Find attached a standardized Metal Finishing report form for your use (although it is now a quarterly report except for the TTOs). You’ll have to change the CFR 433 limitations in Section (5) “Measurements of Pollutants” to adjust for your dilution factor.

One last observation and question: In your Excel attachment, the December 12/1/12 TTO sample results were reported as 1.8 mg/l. The regulatory level from the Metal Finishing standards is 2.13 mg/l (“max for any 1 day”). Can you supply an answer as to what might have caused that “spike” so close to the regulatory level? A review of that date’s toxic organic scan sample’s results would reveal which organics contributed to that summation [per 40 CFR 433.11(e)].

Your periodic compliance reports will now be due to ADEQ and Ms. Gills during the months of June, September, December and March for the metals and cyanide. Your TTO sampling/analysis will be included in the June and December reports.

These reports can be sent via a pdf attachment in an e-mail to this office as long as the requisite signatures are legible.

If there are further questions or comments please feel free to contact this office.

Sincerely,

Allen Gilliam  
ADEQ State Pretreatment Coordinator  
501.682.0625

cc: Brenda Gills, Arkadelphia Utilities Manager

E/NPDES/NPDES/Pretreatment/Reports



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LABORATORY ANALYSIS

Date of Report: February 14, 2014  
Date Received : January 8, 2014

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

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

Sample From: EFFLUENT / COMP 01/07-08/14 0600-0600

ANALYTE		RESULT	UNITS	METHOD
Acrolein	<	10.000	ug/Liter	8260B
Acrylonitrile	<	10.000	ug/Liter	8260B
Benzene	<	0.300	ug/Liter	8260Bb
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		34.700	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: 16735.0001



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Date of Report: February 14, 2014  
Date Received : January 8, 2014

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

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

Sample From: EFFLUENT / COMP 01/07-08/14 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		33.400	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-	<	0.300	ug/Liter	8260B
Dichlorobenzidine, 3,3-	<	0.900	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		3.570	ug/Liter	8270D
Dinitro-o-cresol, 4,6-	<	0.600	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: 16735.0001



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Date Received : January 8, 2014

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ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813

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

Sample From: EFFLUENT / COMP 01/07-08/14 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

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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 01/07-08/14 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	<	0.500	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	<	1.000	mg/Liter	Calc.
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510



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Sample From: EFFLUENT / COMP 01/07-08/14 0600-0600

ANALYTE	RESULT	UNITS	METHOD
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STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ADAM BRANSCUM on 01/08/14 at 12:26

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

Copies to:

MR. CHUCK JONES  
ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-

Laboratory Number: 16735.0001 TKR Reviewed By: K. E. Sorrells, M.S. [ ]



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## QUALITY ASSURANCE

January 8, 2014

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Pesticides (Surr. Avg.)	CAS	01/21/14	630	01/21/14	1530	0.75	83.8	1
Semi-Volatiles (Surr. Avg)	CAS	01/13/14	1018	01/14/14	1610	0.38	52.8	2
Volatiles (Surrogate Avg.	CAS	02/13/14	1306	02/13/14	1506	4.30	117.0	3

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 16735.0001 TKR





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LABORATORY ANALYSIS

Date of Report: February 14, 2014  
Date Received : January 8, 2014

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

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

Sample From: EFFLUENT GRAB / 01/08/14 1226

ANALYTE		RESULT	UNITS	METHOD
Biochemical oxygen demand		16.384	mg/Liter	5210 B
Total suspended solids		10.000	mg/Liter	2540D
Oil and grease - Gravimetric		3.800	mg/Liter	1664
Cyanide, total		0.014	mg/Liter	335.2
pH (-H+)		7.610	units	4500 B
Temperature		28.100	.C	2550 B
Arsenic, As		9.200	ug/Liter	200.8
Cadmium, Cd	<	0.100	ug/Liter	200.8
Chromium, Cr	<	0.100	ug/Liter	200.8
Copper, Cu		2.100	ug/Liter	200.8
Lead, Pb	<	0.100	ug/Liter	200.8
Manganese, Mn		233.100	ug/Liter	200.8
Nickel, Ni		113.800	ug/Liter	200.8
Silver, Ag	<	0.100	ug/Liter	200.8
Zinc, Zn		0.400	ug/Liter	200.8
Metals, Digestion for	=	1.000	ea sample	3030 D



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

Sample From: EFFLUENT GRAB / 01/08/14 1226

ANALYTE	RESULT UNITS	METHOD

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ADAM BRANSCUM on 01/08/14 at 12:26

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

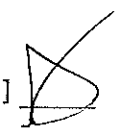
Copies to:

MR. CHUCK JONES

ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE

ARKADELPHIA, AR 71923-

Laboratory Number: 16735.0001A TKR Reviewed By: K. E. Sorrells, M.S. [ ] 



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QUALITY ASSURANCE

January 8, 2014

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Biochemical oxygen demand	AB	01/08/14	1515	01/13/14	1000	4.26	104.0	4
Cyanide, total	MH	01/13/14	930	01/20/14	1000	2.16	97.5	1
ICP-MS METALS	CS/ED	01/15/14	1530	01/15/14	1833	2.20	102.2	33
Oil and grease - Gravimet	MH	01/13/14	950	01/20/14	1000	0.64	96.8	11
pH <-H+>	AB	01/08/14	1226	01/08/14	1240	0.00	0.0	1
Total suspended solids	ED	01/23/14	1200	01/23/14	1700	0.94	90.0	54
Temperature	AB	01/08/14	1226	01/08/14	1240	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
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LABORATORY ANALYSIS

Date of Report: March 19, 2014  
Date Received : February 5, 2014

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

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

Sample From: EFFLUENT / COMP 02/04-05/14 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: 16828.0001



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Date of Report: March 19, 2014  
Date Received: February 5, 2014

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

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

Sample From: EFFLUENT / COMP 02/04-05/14 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	<	0.300	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		27.360	ug/Liter	8270D
Bromophenyl phenyl ether, 4-	<	0.500	ug/Liter	8270D
Butylbenzyl phthalate		6.750	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		3.050	ug/Liter	8270D
Dimethylphenol, 2,4-	<	0.200	ug/Liter	8270D
Dimethylphthalate	<	0.300	ug/Liter	8270D
Di-n-butyl phthalate		5.940	ug/Liter	8270D
Dinitro-o-cresol, 4,6-	<	0.600	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: 16828.0001



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ECOLOGISTS  
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8100 National Drive  
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Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: March 19, 2014  
Date Received : February 5, 2014

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

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

Sample From: EFFLUENT / COMP 02/04-05/14 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	<	12.660	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: 16828.0001



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## LABORATORY ANALYSIS

Date of Report: March 19, 2014  
Date Received: February 5, 2014

For: DANFOSS - SCROLL TECHNOLOGIES  
ONE SCROLL DRIVE

ARKADELPHIA, AR 71923-8813

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

Sample From: EFFLUENT / COMP 02/04-05/14 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	<	0.500	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	<	1.000	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		0.056	mg/Liter	Calc.
Extraction, Base-Neutrals, Acids	=	1.000	ea	3510
Extraction, Pesticides, PCB's	=	1.000	ea	3510

Laboratory Number: 16828.0001





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ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-8813

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

Sample From: EFFLUENT / COMP 02/04-05/14 0600-0600

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:  
ADAM BRANSCUM on 02/05/14 at 13:15

Analysis by :  
SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

Copies to:  
MR. CHUCK JONES  
ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE  
ARKADELPHIA, AR 71923-

Laboratory Number: 16828.0001 TKR Reviewed By: K. E. Sorrells, M.S. [ ]



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## QUALITY ASSURANCE

February 5, 2014

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Pesticides (Surr. Avg.)	CAS	03/07/14	1510	03/07/14	1750	4.15	84.6	2
Semi-Volatiles (Surr. Avg)	CAS	03/07/14	1035	03/07/14	1310	6.33	89.1	2
Volatiles (Surrogate Avg.	CAS	02/13/14	1306	02/13/14	1506	4.30	117.0	3

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 16828.0001 TKR



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LABORATORY ANALYSIS

Date of Report: March 19, 2014  
Date Received : February 5, 2014

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

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

Sample From: EFFLUENT / GRAB 02/05/14 1315

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	29.500	mg/Liter	5210 B
Total suspended solids	26.000	mg/Liter	2540D
Oil and grease - Gravimetric	2.600	mg/Liter	1664
Cyanide, total	0.013	mg/Liter	335.2
pH (-H+)	7.280	units	4500 B
Temperature	29.700	.C	2550 B
Arsenic, As	8.500	ug/Liter	200.8
Cadmium, Cd	<	1.000 ug/Liter	200.8
Chromium, Cr	<	1.000 ug/Liter	200.8
Copper, Cu	22.300	ug/Liter	200.8
Lead, Pb	<	1.000 ug/Liter	200.8
Manganese, Mn	1755.000	ug/Liter	200.8
Nickel, Ni	128.300	ug/Liter	200.8
Silver, Ag	<	1.000 ug/Liter	200.8
Zinc, Zn	20.400	ug/Liter	200.8
Metals, Digestion for	=	1.000 ea sample	3030 D



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Job: INDUSTRIAL WASTEWATER ANALYSIS / P.O.#8585034  
Sample From: EFFLUENT / GRAB 02/05/14 1315

ANALYTE	RESULT UNITS	METHOD
---------	--------------	--------

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

ADAM BRANSCUM on 02/05/14 at 13:15

Analysis by :

SEE ATTACHED QUALITY ASSURANCE PAGE.

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

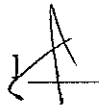
Copies to:

MR. CHUCK JONES

ENV. HEALTH & SAFETY MGR

ONE SCROLL DRIVE

ARKADELPHIA, AR 71923-

Laboratory Number: 16828.0001A TKR Reviewed By: K. E. Sorrells, M.S. [  ]



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QUALITY ASSURANCE

February 5, 2014

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Biochemical oxygen demand	ED/AB	02/05/14	1440	02/10/14	1205	13.80	108.0	3
Cyanide, total	MH	02/10/14	930	02/12/14	1615	1.40	98.6	1
ICP-MS METALS	CS/ED	03/14/14	1041	03/14/14	1340	0.80	97.9	40
Oil and grease - Gravimet	MH	02/10/14	900	02/13/14	1615	1.80	96.7	16
pH <-H+>	AB	02/05/14	1300	02/05/14	1315	0.00	0.0	1
Total suspended solids	EAS	02/19/14	950	02/20/14	1200	4.70	107.7	48
Temperature	AB	02/05/14	1300	02/05/14	1315	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
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Laboratory Number: 16828.0001A TKR



## EFFLUENT SAMPLING December, 2011 THROUGH November 2012

ATTRIBUTE	CADMIUM	CHROME	COPPER	LEAD	NICKEL	SILVER	ZINC	CYANIDE	TTO	ARSENIC
12/7/2011	0.000100	0.000100	0.010600	0.000100	0.039500	0.000100	0.019500	0.013000	0.023000	0.000100
1/4/2012	0.003300	0.000100	0.016300	0.002410	0.089700	0.000100	0.076000	0.005000	0.020000	0.003500
2/1/2012	0.004500	0.778000	0.057800	0.006960	0.046000	0.000100	0.005000	0.000100	1.000000	0.007870
3/7/2012	0.000100	0.000100	0.058800	0.010800	0.043300	0.000100	0.077400	0.009000	0.046000	0.005200
4/11/2012	0.000100	0.000100	0.023400	0.000100	0.054800	0.000100	0.053400	0.000600	0.026000	0.009820
5/2/2012	0.000100	0.958000	0.017400	0.000100	0.081000	0.000100	0.235100	0.009000	0.005000	0.011700
6/6/2012	0.000100	0.000100	0.015200	0.000100	0.078800	0.000100	0.432000	0.011000	0.041000	0.004500
7/5/2012	0.000100	0.000100	0.015000	0.000100	0.094600	0.000100	0.704000	0.009000	0.246000	0.007400
8/1/2012	0.001080	0.001360	0.002090	0.000570	0.010700	0.000100	0.206500	0.000000	0.028000	0.000230
9/1/2012	0.004300	0.008000	0.014400	0.010200	0.085000	0.000100	0.150000	0.011000	0.016000	0.003300
10/1/2012	0.000100	0.002300	0.012300	0.000100	0.076200	0.000100	0.117000	0.009000	1.000000	0.004700
11/1/2012	0.000100	0.001300	0.015200	0.000100	0.084000	0.000100	0.250400	0.021000	1.200000	0.050000
12/1/2012	0.001360	0.003250	0.019800	0.005430	0.037800	0.000100	0.138800	0.000100	1.800000	0.014600
AMMC MAXIMUM ug/L	0.004500	0.958000	0.058800	0.010800	0.094600	0.000100	0.704000	0.021000	1.800000	0.050000
AMAC AVERAGE ug/L	0.001180	0.134832	0.021407	0.002852	0.063185	0.000100	0.189623	0.007523	0.419308	0.009455

# 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 # ARP00**

**A. LEGAL NAME & MAILING ADDRESS**

**B. FACILITY & LOCATION ADDRESS**

**C. FACILITY CONTACT:**

**TELEPHONE NUMBER:**

**e-mail:**

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

**A. MONTHS WHICH REPORTS ARE DUE**

**B. PERIOD COVERED BY THIS REPORT**

\_\_\_\_\_ & \_\_\_\_\_

**FROM:**

**TO:**

**(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)\***

LIST BELOW EACH PROCESS USED IN THE FACILITY

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*SEE 40CFR433.10(a) FOR THE 40 ANCILLARY OPERATIONS

**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.

**C. Number of Regular Employees at this Facility \_\_\_\_\_**

**D. [Reserved]**



**(4) FLOW MEASUREMENT**

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

Process	Average	Maximum	Type of Discharge*
Regulated (Core &			
Regulated (Cyanide)			
§403.6(e) Unregulated*			
§403.6(e) Dilute			
Cooling Water			
Sanitary			
<b>Total Flow to POTW</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(e).

**(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									*
Avg Measured**									*

Sample Location \_\_\_\_\_

Sample Type (Grab\* or Composite) \_\_\_\_\_

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

Number of Samples and Frequency Collected \_\_\_\_\_

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.

\_\_\_\_\_  
(Typed/Printed Name)

\_\_\_\_\_  
(Corporate Officer or authorized representative signature)

Date of Signature \_\_\_\_\_

**(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. \_\_\_\_\_
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.**

\_\_\_\_\_  
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
OFFICIAL TITLE

\_\_\_\_\_  
DATE SIGNED