Crop Production Services

1160 Brake Road, Rocky Mount, NC 27801
252-977-0308 Phone
252-973-0761 Fax

December 19, 2012

VA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN
DEC 21 2012
REGIONAL OFFICE
WOODBRIDGE, VA

Commonwealth of Virginia
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re. VPDES Permit No. VA0088374, Crop Production Services, King George County

Enclosed are the application forms for the above permit which expires June 24, 2013. Please note that we are not submitting sample analyses for the three outfalls due to not enough rainfall over the past several months. We have the sample bottles on site and the laboratories contracted and will submit the required information as soon as we have sufficient rainfall to develop flow through the outfalls. This was communicated to Alison Thompson last week (a copy of the e-mail correspondence is attached.)

We appreciate your consideration of the enclosed documents.

Sincerely,

Nancy Vincek

Nancy Vincek
Manager, Operations Compliance
Crop Production Services

C: Marvin Martz
Brian Duggan
Bob Jackson
Terry McBroom

Enc.: EPA General Information Form 1
VPDES Application Addendum
EPA Form 2C
EPA Form 2F
Public Notice Billing Information
Email Correspondence from December 17, 2012

VPDES PERMIT APPLICATION ADDENDUM (FOR VPDES PERMIT NO. VA0088374)

1. **Entity to whom the permit is to be issued:** Crop Production Services, Inc.
   Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** XX-Yes No

3. **Please provide the tax map parcel number for the land where the discharge is located:** 69C

4. **What is the design average flow of this facility in million gallons per day (MGD)?** See attached MGD
   (Calculation sheet attached, intermittent flow from rainfall events create the only flow through the outfalls)

5. **In addition to the design flow, should the permit be written with limits for any other discharge flow tiers?**
   Yes XX-No
   If yes, please identify the other flow tiers in MGD: _____
   Please consider such issues as if you plan to expand operations during the next five years or if your facility's design flow is considerably greater than your current flow?

6. **Nature of operations generating wastewater:** None

   _____% of flow from domestic connections/sources

   _____% of flow from non-domestic connections/sources

7. **Mode of discharge:** _____ Continuous X Intermittent _____ Seasonal

   Describe frequency and duration of intermittent and seasonal discharges: _____

   Intermittent based on rainfall events

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point(s):**

Stream Characteristic	**Outfall Number**						
	002	003	004				
Never dry, permanent stream							
Usually flowing, sometimes dry, intermittent stream							
Wet-weather flow, often dry, ephemeral stream	X	X	X				
Usually or always dry, effluent-dependent stream							
Lake or pond at or below discharge point							
Other:							

9. **Approval date(s), if applicable:**

   O & M Manual 03/04/2009 **Sludge/Solids Management Plan** N/a

   Have there been changes in your operation or procedures since the above approval dates? Yes XX- No

Design Flow Calculation Sheet - #4 on VPDES Permit Application Addendum (#VA0088374)

CROP PRODUCTION SERVICES
PIEDMONT FERTILIZER FACILITY
SEALSTON, VIRGINIA
RUNOFF CALCULATIONS

Standard Data

25 year/24 hour storm event =	0.5 feet
Conversion Factor: 1 cubic foot =	7.48 gallons
1 acre =	43,560 square feet
Maximum Flow =	area*rainfall*conversion factor = gallons/day (gallons/day)/(1,000,000 gallons)=million gallons/day
Standard Runoff Coefficients	
Grass	0.2
Woods	0.1
Gravel	0.9
Roofs	0.9

Site Specific Data

Area of Outfall 002=	0.2 acres	8,704 sqft
Area of Outfall 003=	9.3 acres	403,200 sqft
Area of Outfall 004=	2.6 acres	114,432 sqft

Calculations

Outfall 002 Maximum Flow =	0.03255 mg/d
Outfall 003 Maximum Flow =	1.50797 mg/d
Outfall 004 Maximum Flow =	0.42798 mg/d

The above calculations assume 100% runoff. If infiltration is accounted for the following calculations are correct:

The area within Outfall 002 is 1/2 building and 1/2 grass; therefore:	0.017904 mg/d
The area within Outfall 003 is 3/4 gravel and buildings and 1/4 grass; therefore:	1.093277 mg/d
The area within Outfall 004 is 4/5 grass and 1/5 gravel and buildings; therefore:	0.145512 mg/d

Please print or type in the unshaded areas only. Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	N/A		D
1	2 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge to waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge to waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in **discharges to waters of the U.S.** other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge to waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP Crop Production Services, Inc.

15 16 – 29 30 69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
C 2 Marvin Martz	(970) 685-3300
15 16 45	46 48 49 51 52- 55

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 P. O. Box 22

15 16 45

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 Loveland	CO	80538
15 16 40	41 42	47 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 2453 Birchwood Creek Road

15 16 45

B. COUNTY NAME

King George

46 70

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
C 6 King George	VA	22485	
15 16 40	41 42	47 51	52 -54

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 2875 *(specify)* Fertilizers, Mixing Only	7 5191 *(specify)* Farm Supplies, Retail
C. THIRD	**D. FOURTH**
7 N/A *(specify)*	7 N/A *(specify)*

VIII. OPERATOR INFORMATION

A. NAME: 8 Crop Production Services, Inc.

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P *(specify)*

D. PHONE *(area code & no.)*: A (970) 685-3300

E. STREET OR P.O. BOX: Rocky Mountain Ave.

F. CITY OR TOWN	G. STATE	H. ZIP CODE
B Loveland	CO	80538

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	9 N	VA0088374	
D. PSD *(Air Emissions from Proposed Sources)*	9 P	N/A	
B. UIC *(Underground Injection of Fluids)*	9 U	N/A	
E. OTHER *(specify)*	9	N/A	*(specify)*
C. RCRA *(Hazardous Wastes)*	9 R	N/A	
E. OTHER *(specify)*	9	N/A	*(specify)*

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Crop Production Services, Inc. in Sealston activities include the storage, blending and bluk retail sales of agricultural products such as fertilizers, herbicides and seeds. The facility also stores and sells prepackaged pesticides.

There are no processed wastewaters discharged from this site.

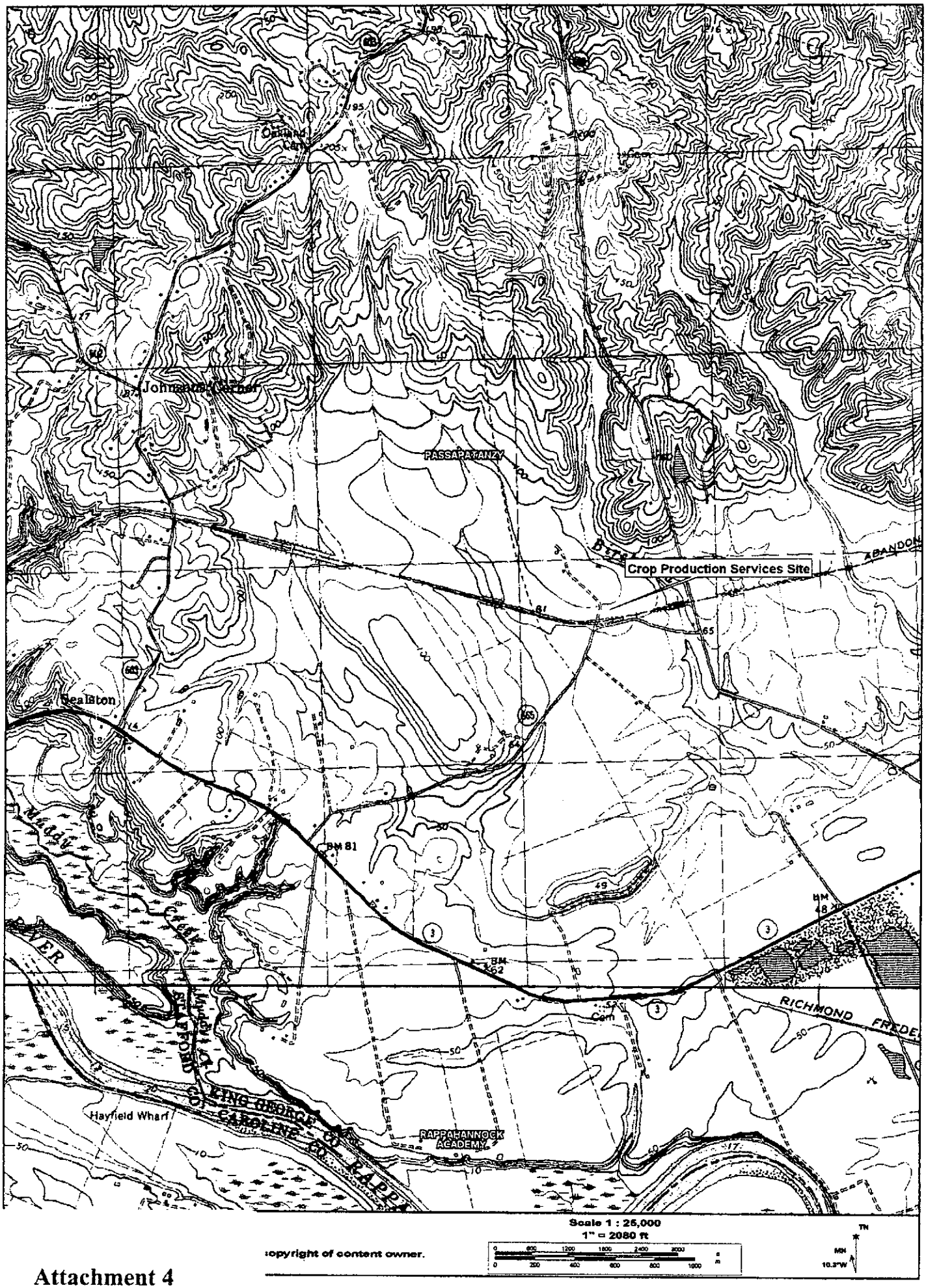
XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Marvin Martz, General Manager		12/17/2012

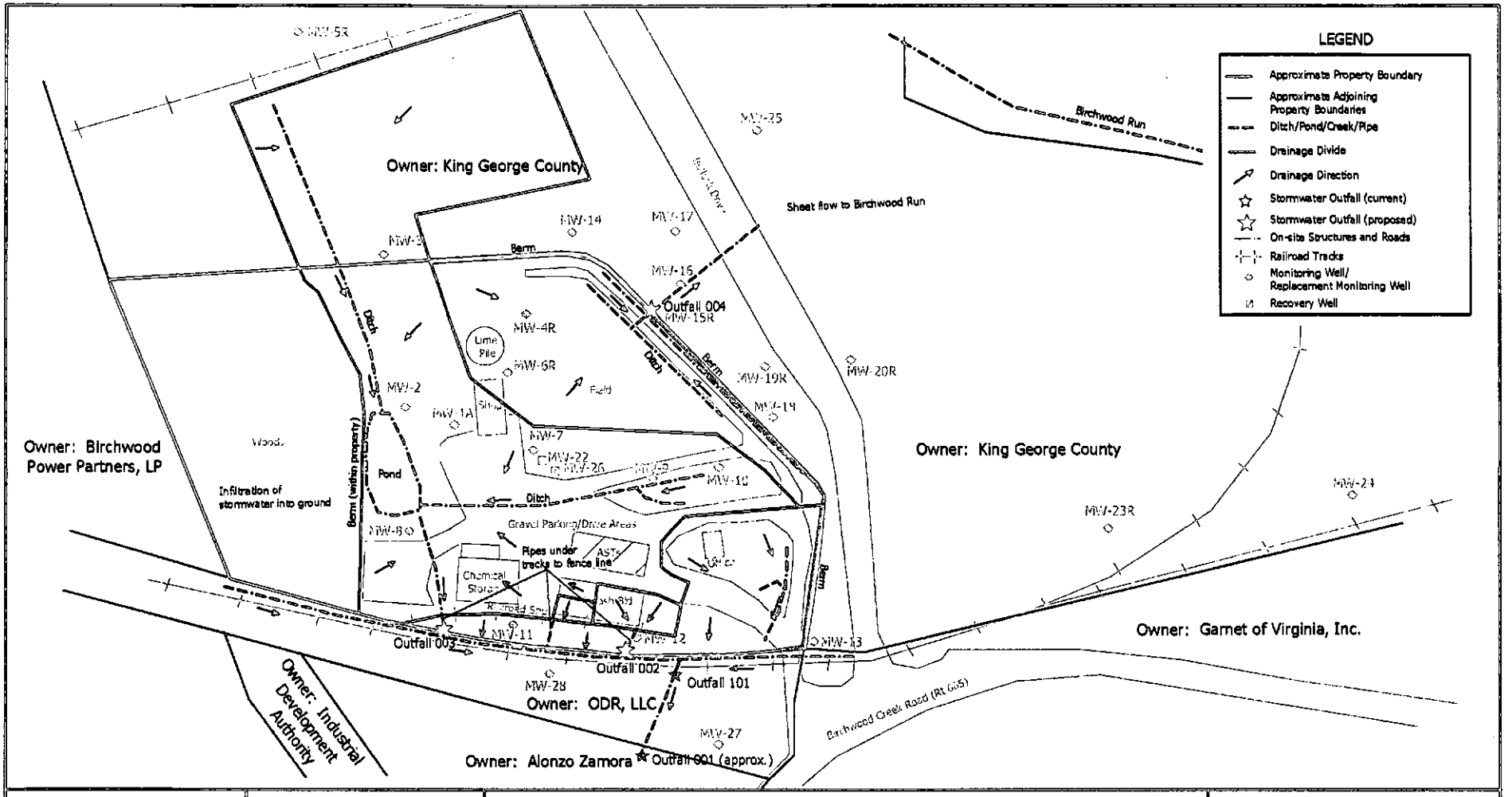
COMMENTS FOR OFFICIAL USE ONLY

C



Copyright of content owner.

Attachment 4



1 inch = 160 feet
DATE: 12/12/07
REVISED: 3/20/08
BAY # 05-003-04
DRAWN BY: SSH

NORTH

FIGURE 1: SITE MAP
CROP PRODUCTION SERVICES
Piedmont Fertilizer Facility
Sealston, Virginia

BAY ENVIRONMENTAL, INC.
Environmental Consulting Services

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
N/A

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
002	38	15	59.93	77	18	18.48	Birchwood Run Creek UT
003	38	16	00.12	77	18	22.44	Birchwood Run Creek UT
004	38	16	05.63	77	185	18.32	Birchwood Run Creek UT

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
002	Storm water runoff only	0.017904 mg/d		4A	
003	Storm water runoff only	1.093277 mg/d		4A	
004	Storm water runoff only	0.145512 mg/d		4A	

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☐ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☑ YES (*complete the following table*) ☐ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
Corrective Action Plan - M	0		The CAP-M details the capture and reuse of shallow groundwater in the past. This will continue. In addition, new proposals call for installing a bioremediation pilot test through a permeable reactive barrier (PRB) to establish a treatment zone.		

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
unable to provide information at this time. We have not had sufficient rainfall to obtain required flow to pull the samples. Collection bottles are on site and samples will be pulled during the next rainfall event.			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☑ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
The Labs that will be used for analysis once samples are collected are: TestAmerica Shipping Address: 5102 LaRoche Avenue Savannah, GA 31404 and Universal Lab Mike Jennings 757-865-0880 10712 Ballantraye Drive, Suite 310, Fredericksburg, VA 22407			

IX. CERTIFICATION

I certify under penalty of law that 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.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Marvin Martz, General Manager	(804) 769-9200
C. SIGNATURE	D. DATE SIGNED
	12/17/2012

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): N/A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)* [redacted] OUTFALL NO.

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (*specify if blank*)		4. INTAKE (*optional*)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (*BOD*)	To	Provide	once	samples	can be pulled							
b. Chemical Oxygen Demand (*COD*)												
c. Total Organic Carbon (*TOC*)												
d. Total Suspended Solids (*TSS*)												
e. Ammonia (*as N*)												
f. Flow	VALUE		VALUE		VALUE					VALUE		
g. Temperature (*winter*)	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)														
b. Chlorine, Total Residual														
c. Color														
d. Fecal Coliform														
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (*as N*)														

 CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)														
h. Oil and Grease														
i. Phosphorus (as P), Total (7723-14-0)														
j. Radioactivity														
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (*as* SO_4) (14808-79-8)														
l. Sulfide (*as S*)														
m. Sulfite (*as* SO_3) (14265-45-3)														
n. Surfactants														
o. Aluminum, Total (7429-90-5)														
p. Barium, Total (7440-39-3)														
q. Boron, Total (7440-42-8)														
r. Cobalt, Total (7440-48-4)														
s. Iron, Total (7439-89-6)														
t. Magnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganese, Total (7439-96-5)														
w. Tin, Total (7440-31-5)														
x. Titanium, Total (7440-32-6)														

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total (7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)															
7M. Lead, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)															
12M. Thallium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenols, Total															
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)				DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
4V. Bis (*Chloromethyl*) Ether (542-88-1)				***DELISTED***	***02-4-81***	ANALYSIS	NOT	REQUIRED	FOR	THIS					
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodibromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloroethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichlorobromomethane (75-27-4)															
13V. Dichlorodifluoromethane (75-71-8)				***DELISTED***	***01-8-81***	ANALYSIS	NOT	REQUIRED	FOR	THIS					
14V. 1,1-Dichloroethane (75-34-3)															
15V. 1,2-Dichloroethane (107-06-2)															
16V. 1,1-Dichloroethylene (75-35-4)															
17V. 1,2-Dichloropropane (78-87-5)															
18V. 1,3-Dichloropropylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)															
23V. 1,1,2,2-Tetrachloroethane (79-34-5)															
24V. Tetrachloro-ethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans-Dichloroethylene (156-60-5)															
27V. 1,1,1-Trichloro-ethane (71-55-6)															
28V. 1,1,2-Trichloro-ethane (79-00-5)															
29V Trichloro-ethylene (79-01-6)															
30V. Trichloro-fluoromethane (75-69-4)				***DELISTED***	***01-8-81***	ANALYSIS	NOT	REQUIRED	FOR	THIS					
31V. Vinyl Chloride (75-01-4)															
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)															
2A. 2,4-Dichloro-phenol (120-83-2)															
3A. 2,4-Dimethyl-phenol (105-67-9)															
4A. 4,6-Dinitro-O-Cresol (534-52-1)															
5A. 2,4-Dinitro-phenol (51-28-5)															
6A. 2-Nitrophenol (88-75-5)															
7A. 4-Nitrophenol (100-02-7)															
8A. P-Chloro-M-Cresol (59-50-7)															
9A. Pentachloro-phenol (87-86-5)															
10A. Phenol (108-95-2)															
11A. 2,4,6-Trichloro-phenol (88-05-2)															

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)															
2B. Acenaphtylene (208-96-8)															
3B. Anthracene (120-12-7)															
4B. Benzidine (92-87-5)															
5B. Benzo (*a*) Anthracene (56-55-3)															
6B. Benzo (*a*) Pyrene (50-32-8)															
7B. 3,4-Benzo-fluoranthene (205-99-2)															
8B. Benzo (*ghi*) Perylene (191-24-2)															
9B. Benzo (*k*) Fluoranthene (207-08-9)															
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)															
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)															
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)															
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)															
14B. 4-Bromophenyl Phenyl Ether (101-55-3)															
15B. Butyl Benzyl Phthalate (85-68-7)															
16B. 2-Chloro-naphthalene (91-58-7)															
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)															
18B. Chrysene (218-01-9)															
19B. Dibenzo (*a,h*) Anthracene (53-70-3)															
20B. 1,2-Dichloro-benzene (95-50-1)															
21B. 1,3-Di-chloro-benzene (541-73-1)															

 CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)															
23B. 3,3-Dichloro-benzidine (91-94-1)															
24B. Diethyl Phthalate (84-66-2)															
25B. Dimethyl Phthalate (131-11-3)															
26B. Di-N-Butyl Phthalate (84-74-2)															
27B. 2,4-Dinitro-toluene (121-14-2)															
28B. 2,6-Dinitro-toluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)															
31B. Fluoranthene (206-44-0)															
32B. Fluorene (86-73-7)															
33B. Hexachloro-benzene (118-74-1)															
34B. Hexachloro-butadiene (87-68-3)															
35B. Hexachloro-cyclopentadiene (77-47-4)															
36B Hexachloro-ethane (67-72-1)															
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)															
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitro-sodimethylamine (62-75-9)															
42B. N-Nitrosodi-N-Propylamine (621-64-7)															

 CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4-Tri-chlorobenzene (120-82-1)															
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)															
2P. α-BHC (319-84-6)															
3P. β-BHC (319-85-7)															
4P. γ-BHC (58-89-9)															
5P. δ-BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. α-Enosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P. Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)															
16P. Heptachlor (76-44-8)															

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)															
18P. PCB-1242 (53469-21-9)															
19P. PCB-1254 (11097-69-1)															
20P. PCB-1221 (11104-28-2)															
21P. PCB-1232 (11141-16-5)															
22P. PCB-1248 (12672-29-6)															
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
N/A

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM **2F** NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
002	38	15	59.93	77	18	18.48	Birchwood Run Creek UT
003	38	16	00.12	77	18	22.44	Birchwood Run Creek UT
004	38	16	05.63	77	18	18.32	Birchwood Run Creek UT

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
Corrective Action Plan - M	0		The CAP-M details the capture and reuse		
dated Oct. 12, 2012			of shallow groundwater in the past. This		
			process will continue.		
			In addition, new proposals call for		
			installing a bioremediation pilot test		
			through a permeable reactive barrier		
			(PRB) to establish a treatment zone.		

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
002	50%	8,704 sq. ft.	003	35%	403,200 sq. ft.
004	20%	114,432 sq. ft.			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

All liquid materials received at this facility are stored in above ground tanks.
All storage, inlcuding mixing operations, are located within concrete containment.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
002	Best Management Practices as outlined in the SWPPP	4A
003	Best Management Practices as outlined in the SWPPP	4A
004	Best Management Practices as outlined in the SWPPP	4A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
Marvin Martz - General Manager		12/17/2012

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

None

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None

 Continue on Page 3

Continued from Page 2

EPA ID Number *(copy from Item 1 of Form 1)*
N/A

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes *(list all such pollutants below)* ☑ No *(go to Section IX)*

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes *(list all such pollutants below)* ☑ No *(go to Section IX)*

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☐ Yes *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☑ No *(go to Section X)*

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
We have not had sufficient rainfall to create flow through the outfalls. Have requested an extension for this via e-mail to Alison Thompson on Dec. 13, 2012.			

X. Certification

I certify under penalty of law that 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.

A. Name & Official Title *(Type Or Print)*	B. Area Code and Phone No.
Marvin Martz, General Manager	(804) 769-9200
C. Signature	D. Date Signed
	12/17/2012

EPA ID Number (*copy from Item 1 of Form 1*)
N/A

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	0.0956 mg/L	N/A				Outfall 002
Biological Oxygen Demand (BOD5)						
Chemical Oxygen Demand (COD)	45 mg/L				1	Plant Operations
Total Suspended Solids (TSS)	6.0 mg/L				1	Plant Operations
Total Nitrogen						
Total Phosphorus						
pH	Minimum 7.02SU	Maximum 7.02SU	Minimum	Maximum	1	Plant Operations

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Continue on Reverse

EPA ID Number (*copy from Item 1 of Form 1*)
N/A

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	0.34 mg/L	N/A				Outfall 003
Biological Oxygen Demand (BOD5)						
Chemical Oxygen Demand (COD)	38 mg/L				1	Plant Operations
Total Suspended Solids (TSS)	20 mg/L				1	Plant Operations
Total Nitrogen	6.3 Mg/L				1	Plant Operations
Total Phosphorus	2.2 mg/L				1	Plant Operations
pH	Minimum 7.48SU	Maximum 7.48SU	Minimum	Maximum	1	Plant Operations

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Continue on Reverse

EPA ID Number (*copy from Item 1 of Form 1*)
N/A

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge Information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	0.18 mg/L	N/A				Outfall 004
Biological Oxygen Demand (BOD5)						
Chemical Oxygen Demand (COD)	41 mg/L				1	Plant Operations
Total Suspended Solids (TSS)	9.0 mg/L				1	Plant Operations
Total Nitrogen						
Total Phosphorus						
pH	Minimum 7.45SU	Maximum 7.45SU	Minimum	Maximum	1	Plant Operations

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A						

Continue on Reverse

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A					

7. Provide a description of the method of flow measurement or estimate.

N/A

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed: Marvin Martz, General Manager

Owner: Crop Production Services

Applicant's Address: P. O. Box 409

St. Stephens Church, VA 23148

Agent's Telephone Number: 804-347-1225

Authorizing Agent: _____
Signature

VPDES Permit No. VA0088374
Crop Production Services

Please return to:

Alison Thompson
VA-DEQ, NRO
13901 Crown Court
Woodbridge, VA 22193-1453
Fax: (703)583-3821

Vincek, Nancy

From: Vincek, Nancy
Sent: Monday, December 17, 2012 8:31 AM
To: Thompson, Alison (DEQ)
Cc: Duggan, Brian; McBroom, Terry; Gray, Susan; Martz, Marvin
Subject: Re: CPS King George County, VPDES Permit No. VA0088374

Thanks,Alison. That is what we will do.

Nancy Vincek
CPS
618-407-5616

Sent from my iPhone

On Dec 17, 2012, at 5:54 AM, "Thompson, Alison (DEQ)" <Alison.Thompson@deq.virginia.gov> wrote:

> It would be best if you submit what you have by the 24th and then follow up as soon as possible with the sample results.
>
> Alison Thompson
> Water Permits Technical Reviewer
> Virginia Dept of Environmental Quality
> Northern Regional Office
> 13901 Crown Ct
> Woodbridge, VA 22193
> (703) 583-3834
> alison.thompson@deq.virginia.gov
>
> **From:** Vincek, Nancy [mailto:nancy.vincek@cpsagu.com]
> **Sent:** Thursday, December 13, 2012 3:13 PM
> **To:** Thompson, Alison (DEQ)
> **Cc:** Duggan, Brian; McBroom, Terry; Gray, Susan; Martz, Marvin
> **Subject:** RE: CPS King George County, VPDES Permit No. VA0088374
>
> I had an extra "l" in Ms. Thompson's e-mail address.
>
> Nancy Vincek
> Manager, Operations Compliance
> Crop Production Services, Inc.
> 1160 Brake Road
> Rocky Mount, NC 27801
> 252-977-0308 - Office
> 252-973-0761 - Fax
> 618-407-5616 - Mobile
> nancy.vincek@cpsagu.com
>
> *Keep a positive attitude and take safety personally.*
>
> **From:** Vincek, Nancy
> **Sent:** Thursday, December 13, 2012 3:06 PM
> **To:** 'allison.thompson@deq.virginia.gov'
> **Cc:** Duggan, Brian; McBroom, Terry; Gray, Susan; Martz, Marvin
> **Subject:** CPS King George County, VPDES Permit No. VA0088374
> **Importance:** High

Ms. Thompson:

I understand that you and others from your office performed a walk-around of the CPS Branch on Birchwood Creek Road, Sealston, VA earlier this month. I trust you found everything in order.

We would like to request an extension for the sampling requirement for the permit renewal application which is due on December 24, 2012. It is my understanding that we do not have to sample for the radionuclides.

The collection bottles are on site at the facility, but we have not had a sufficient rainfall event to allow flow through the three outfalls. There is a possibility of a rain event this weekend, but even if we obtain flow, the results will not be received by December 24, 2012.

We can have the other required forms to your office by the December 24, 2012 deadline.

Thank you,

Nancy Vincek
Manager, Operations Compliance
Crop Production Services, Inc.
1160 Brake Road
Rocky Mount, NC 27801
252-977-0308 - Office
252-973-0761 - Fax
618-407-5616 - Mobile
nancy.vincek@cpsagu.com

Keep a positive attitude and take safety personally.

IMPORTANT NOTICE ! This E-Mail transmission and any accompanying attachments may contain confidential information intended only for the use of the individual or entity named above. Any dissemination, distribution, copying or action taken in reliance on the contents of this E-Mail by anyone other than the intended recipient is strictly prohibited and is not intended to, in anyway, waive privilege or confidentiality. If you have received this E-Mail in error please immediately delete it and notify sender at the above E-Mail address. Agrium uses state of the art anti-virus technology on all incoming and outgoing E-Mail. We encourage and promote the use of safe E-Mail management practices and recommend you check this, and all other E-Mail and attachments you receive for the presence of viruses. The sender and Agrium accept no liability for any damage caused by a virus or otherwise by the transmittal of this E-Mail.

Crop Production Services

1160 Brake Road, Rocky Mount, NC 27801
252-977-0308 Phone
252-973-0761 Fax

February 25, 2013

Ms. Alison Thompson
Commonwealth of Virginia
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re. VPDES Permit No. VA0088374, Crop Production Services, King George County
Sample Analyses, Outfalls 002, 003 and 004 collected January 15, 2013

Enclosed are the sample analyses for the three outfalls which we were unable to submit with the original application package on December 19, 2012. I have also updated some of the information on Form 2C. Only the updated pages are included with this addendum.

Please consider the following statements concerning the collection and testing of the water samples:

- There were three coolers sent to TestAmerica Laboratories on January 15, 2013, all marked for next day delivery. However, the cooler containing the samples from Outfall 002 was delayed by UPS for adverse weather conditions, and was not delivered to the lab until 10:26 a.m. on January 17, 2013. This meant that the specified holding times for BOD5, Nitrate, Nitrite and Dissolved Hexavalent Chromium were not met. These results are indicated with a Qualifier of "H" on the TestAmerica report for Outfall 002. We are reporting the results for these tests, but have marked them with an asterisk (*) to indicate that they were tested out of hold time and that the outfall will be re-sampled once we have sufficient rainfall.

- The coolers for Outfall 003 and Outfall 004 were received at TestAmerica on January 16, 2013. The laboratory indicated temperatures upon receipt as 4.8 and 4.1C, which are outside of the 4.0C threshold.

- The samples received by Universal Laboratories do not list a temperature upon receipt; the COC simply states that samples were "on ice."

- The ammonia samples for Outfall 002 and Outfall 004 were collected as a grab only and the results are shown on Form 2C with a triple asterisk (***). Outfalls 002 and 004 will be re-sampled as composite samples once we have a qualifying rain event.

Outfall 003 feeds from the holding pond which has a retention period of greater than 24 hours. We used historic values from 2011 and 2012 semi-annual tests, so we do not plan to resample Outfall 003 as a composite for ammonia since it meets criteria specified in Form 2C general instructions for Parts V-A, B, C, and D.

- E-Coli results are shown with a double asterisk (**). Universal Laboratories reported these and the results are suspected to be inaccurate for all three outfalls based on conversation with the sample collector. The collection procedure used was not sterile, thus rendering the results invalid until additional samples are collected to qualify our assumption. We intend to resample all three outfalls using a better collection protocol.

- On the metals for all three outfalls, the Reporting Limit (RL) used by the Laboratory exceeds the Quantification Level (QL) stated in the permit for copper, lead, selenium, silver, and cadmium for Outfalls 003 and 004; and copper, lead, cadmium, nickel, selenium, and silver for Outfall 002.

- Outfall 003 samples required dilution for PCBs and Pesticides and the RLs were adjusted accordingly. Therefore, RLs used by the Laboratory were higher than the QLs for non-detects of Heptachlor and PCBs.

- Attachment A from the Permit listed Tributyltin (CAS 60-10-5) as a Miscellaneous Chemical requiring testing. This chemical is not on the reporting list in Form 2C, therefore is not recorded on the form. Universal Laboratories tested for this as TBT Tributyltin. For all three outfalls the results were <30 ng/l, with a RL of 30.

We appreciate your consideration of the enclosed documents.

Sincerely,

Nancy Vincek

Nancy Vincek
Manager, Operations Compliance
Crop Production Services

C: Marvin Martz
Brian Duggan
Bob Jackson
Terry McBroom

Enc.: EPA Form 2C – Revised Pages Only Feb. 2013
On-Site Chlorine Testing Log
TestAmerica Analytical Report Outfall 002, February 7, 2013
TestAmerica Analytical Report Outfalls 003 and 004, February 15, 2013
Universal Laboratories Report of Analysis, February 3, 2013

Page Revised Feb. 25, 2013
from original submission
Dec. 19, 2012

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
N/A

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
N/A			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ YES (*list all such pollutants below*) ☐ NO (*go to Item VI-B*)

Copper
Zinc

CONTINUE ON REVERSE

Page Revised Feb. 25, 2013
from original submission
Dec. 19, 2012

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (*identify the test(s) and describe their purposes below*) ☑ NO (*go to Section VIII*)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
TestAmerica Savannah	5102 LaRoche Ave., Savannah, GA 314042	912-354-7858	Oil & Grease, BOD5, Nitrate, Nitrite, Ammonia, TKN, T. Phosphorous, TOC, Antimony, Arsenic, Cadmium, Copper, Lead, Nickel, Selenium, Silver, Thalium, Zinc, Mercury, Chromium Hex, Cr(III), VOCs, Organochlorine Pesticides & PCBs, Semi VOCs
Universal Laboratories	20 Research Dr., Hampton, VA 23666	800-695-2162	TBT Tributylin, Sulfide, Semi-VOCs
Universal Laboratories	10712 Ballantraye Dr., Fredericksburg, VA 22407	800-695-2162	E-Coli

IX. CERTIFICATION

I certify under penalty of law that 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.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
C. SIGNATURE	D. DATE SIGNED

signature submitted Dec. 19, 2012

2-25-2013

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): N/A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 002

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	2.2*						1	mg/L				
b. Chemical Oxygen Demand (*COD*)					38		3	mg/L				
c. Total Organic Carbon (*TOC*)	5.7						1	mg/L				
d. Total Suspended Solids (*TSS*)					8		3	mg/L				
e. Ammonia (*as N*)	4.3***						1	mg/L				
f. Flow	VALUE		VALUE		VALUE 0.017904				mg/d	VALUE		
g. Temperature (*winter*)	VALUE NR		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE NR		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.46	MAXIMUM 6.46	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X	ND						1	N/A				
c. Color			Clear											
d. Fecal Coliform	X		>2420 **						1	mpn/100m				
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)	X		13.4 *						1	mg/L				

CONTINUE ON REVERSE

Outfall 002
2-25-2013

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)	X		0.5*						1	mg/L				
h. Oil and Grease	X		5.4						1	mg/L				
i. Phosphorus (as P), Total (7723-14-0)	X		1.3						1	mg/L				
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as SO_4*) (14808-79-8)		X												
l. Sulfide (*as S*)		X	ND						1	mg/L				
m. Sulfite (*as SO_3*) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

CONTINUE ON PAGE V-3

2-25-2013

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
N/A	002

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			ND						1	ug/L				
2M. Arsenic, Total (7440-38-2)	X			ND						1	ug/L				
3M. Beryllium, Total (7440-41-7)	X			ND						1	ug/L				
4M. Cadmium, Total (7440-43-9)	X			ND						1	ug/L				
5M. Chromium, Total (7440-47-3)	X			ND						1	ug/L				
6M. Copper, Total (7440-50-8)	X			ND						1	ug/L				
7M. Lead, Total (7439-92-1)	X			ND						1	ug/L				
8M. Mercury, Total (7439-97-6)	X			ND						1	ug/L				
9M. Nickel, Total (7440-02-0)	X			ND						1	ug/L				
10M. Selenium, Total (7782-49-2)	X			ND						1	ug/L				
11M. Silver, Total (7440-22-4)	X			ND						1	ug/L				
12M. Thallium, Total (7440-28-0)	X			ND						1	ug/L				
13M. Zinc, Total (7440-66-6)	X			320						1	ug/L				
14M. Cyanide, Total (57-12-5)	X			ND						1	ug/L				
15M. Phenols, Total	X			ND						1	ug/L				
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

Outfall 002
2-25-2013

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			ND						1	ug/L				
2V. Acrylonitrile (107-13-1)	X			ND						1	ug/L				
3V. Benzene (71-43-2)	X			ND						1	ug/L				
4V. Bis (*Chloro-methyl*) Ether (542-88-1)				***DELISTED***	***02-4-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
5V. Bromoform (75-25-2)	X			ND						1	ug/L				
6V. Carbon Tetrachloride (56-23-5)	X			ND						1	ug/L				
7V. Chlorobenzene (108-90-7)	X			ND						1	ug/L				
8V. Chlorodi-bromomethane (124-48-1)	X			ND						1	ug/L				
9V. Chloroethane (75-00-3)	X			ND						1	ug/L				
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)	X			ND						1	ug/L				
12V. Dichloro-bromomethane (75-27-4)	X			ND						1	ug/L				
13V. Dichloro-difluoromethane (75-71-8)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
14V. 1,1-Dichloro-ethane (75-34-3)	X			ND						1	ug/L				
15V. 1,2-Dichloro-ethane (107-06-2)	X			ND						1	ug/L				
16V. 1,1-Dichloro-ethylene (75-35-4)			X												
17V. 1,2-Dichloro-propane (78-87-5)	X			ND						1	ug/L				
18V. 1,3-Dichloro-propylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)	X			ND						1	ug/L				
20V. Methyl Bromide (74-83-9)	X			ND						1	ug/L				
21V. Methyl Chloride (74-87-3)			X												

CONTINUE ON PAGE V-5

Outfall 002
2-25-13

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			ND						1	ug/L				
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			ND						1	ug/L				
24V. Tetrachloro-ethylene (127-18-4)	X			ND						1	ug/L				
25V. Toluene (108-88-3)	X			ND						1	ug/L				
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			ND						1	ug/L				
28V. 1,1,2-Trichloro-ethane (79-00-5)	X			ND						1	ug/L				
29V Trichloro-ethylene (79-01-6)			X												
30V. Trichloro-fluoromethane (75-69-4)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
31V. Vinyl Chloride (75-01-4)	X			ND						1	ug/L				
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			ND						1	ug/L				
2A. 2,4-Dichloro-phenol (120-83-2)	X			ND						1	ug/L				
3A. 2,4-Dimethyl-phenol (105-67-9)	X			ND						1	ug/L				
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)	X			ND						1	ug/L				
6A. 2-Nitrophenol (88-75-5)	X			ND						1	ug/L				
7A. 4-Nitrophenol (100-02-7)	X			ND						1	ug/L				
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)	X			ND						1	ug/L				
10A. Phenol (108-95-2)	X			ND						1	ug/L				
11A. 2,4,6-Trichloro-phenol (88-05-2)	X			ND						1	ug/L				

CONTINUE ON REVERSE

Outfall 002
2-25-13

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			ND						1	ug/L				
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)	X			ND						1	ug/L				
4B. Benzidine (92-87-5)	X			ND						1	ug/L				
5B. Benzo (*a*) Anthracene (56-55-3)	X			ND						1	ug/L				
6B. Benzo (*a*) Pyrene (50-32-8)	X			ND						1	ug/L				
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			ND						1	ug/L				
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			ND						1	ug/L				
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			ND						1	ug/L				
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			ND						1	ug/L				
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			ND						1	ug/L				
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)	X			ND						1	ug/L				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			ND						1	ug/L				
18B. Chrysene (218-01-9)	X			ND						1	ug/L				
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			ND						1	ug/L				
20B. 1,2-Dichloro-benzene (95-50-1)	X			ND						1	ug/L				
21B. 1,3-Di-chloro-benzene (541-73-1)	X			ND						1	ug/L				

 CONTINUE ON PAGE V-7

Outfall 002
2-25-13

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)	X			ND						1	ug/L				
23B. 3,3-Dichloro-benzidine (91-94-1)	X			ND						1	ug/L				
24B. Diethyl Phthalate (84-66-2)	X			ND						1	ug/L				
25B. Dimethyl Phthalate (131 -11-3)	X			ND						1	ug/L				
26B. Di-N-Butyl Phthalate (84-74-2)	X			ND						1	ug/L				
27B. 2,4-Dinitro-toluene (121-14-2)	X			ND						1	ug/L				
28B. 2,6-Dinitro-toluene (606-20-2)	X			ND						1	ug/L				
29B. Di-N-Octyl Phthalate (117-84-0)	X			ND						1	ug/L				
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)	X			ND						1	ug/L				
31B. Fluoranthene (206-44-0)	X			ND						1	ug/L				
32B. Fluorene (86-73-7)	X			ND						1	ug/L				
33B. Hexachloro-benzene (118-74-1)	X			ND						1	ug/L				
34B. Hexachloro-butadiene (87-68-3)	X			ND						1	ug/L				
35B. Hexachloro-cyclopentadiene (77-47-4)	X			ND						1	ug/L				
36B Hexachloro-ethane (67-72-1)	X			ND						1	ug/L				
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			ND						1	ug/L				
38B. Isophorone (78-59-1)	X			ND						1	ug/L				
39B. Naphthalene (91-20-3)	X			ND						1	ug/L				
40B. Nitrobenzene (98-95-3)	X			ND						1	ug/L				
41B. N-Nitro-sodimethylamine (62-75-9)	X			ND						1	ug/L				
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			ND						1	ug/L				

 CONTINUE ON REVERSE

Outfall 002
2-25-13

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			ND						1	ug/L				
44B. Phenanthrene (85-01-8)	X			ND						1	ug/L				
45B. Pyrene (129-00-0)	X			ND						1	ug/L				
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			ND						1	ug/L				
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			ND						1	ug/L				
2P. α-BHC (319-84-6)	X			ND						1	ug/L				
3P. β-BHC (319-85-7)	X			ND						1	ug/L				
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)	X			ND						1	ug/L				
7P. 4,4'-DDT (50-29-3)	X			ND						1	ug/L				
8P. 4,4'-DDE (72-55-9)	X			ND						1	ug/L				
9P. 4,4'-DDD (72-54-8)	X			ND						1	ug/L				
10P. Dieldrin (60-57-1)	X			ND						1	ug/L				
11P. α-Enosulfan (115-29-7)	X			ND						1	ug/L				
12P. β-Endosulfan (115-29-7)	X			ND						1	ug/L				
13P. Endosulfan Sulfate (1031-07-8)	X			ND						1	ug/L				
14P. Endrin (72-20-8)	X			ND						1	ug/L				
15P. Endrin Aldehyde (7421-93-4)	X			ND						1	ug/L				
16P. Heptachlor (76-44-8)	X			ND						1	ug/L				

CONTINUE ON PAGE V-9

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EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
n/a	002

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)	X			ND						1	ug/L				
18P. PCB-1242 (53469-21-9)	X			ND						1	ug/L				
19P. PCB-1254 (11097-69-1)	X			ND						1	ug/L				
20P. PCB-1221 (11104-28-2)	X			ND						1	ug/L				
21P. PCB-1232 (11141-16-5)	X			ND						1	ug/L				
22P. PCB-1248 (12672-29-6)	X			ND						1	ug/L				
23P. PCB-1260 (11096-82-5)	X			ND						1	ug/L				
24P. PCB-1016 (12674-11-2)	X			ND						1	ug/L				
25P. Toxaphene (8001-35-2)	X			ND						1	ug/L				

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): N/A

V. INTAKE AND EFFLUENT CHARACTERISTICS (*continued from page 3 of Form 2-C*) — OUTFALL NO. 003

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	7.4						1	mg/L				
b. Chemical Oxygen Demand (*COD*)					41		3	mg/L				
c. Total Organic Carbon (*TOC*)	8.4						1	mg/L				
d. Total Suspended Solids (*TSS*)					14		3	mg/L				
e. Ammonia (*as N*)					2.07		3	mg/L				
f. Flow	VALUE		VALUE		VALUE 1.093277				mg/d	VALUE		
g. Temperature (*winter*)	VALUE NR		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE NR		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.7	MAXIMUM 7.48	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X	ND						1	N/A				
c. Color			Clear											
d. Fecal Coliform	X		206 **						1	mpn/100m				
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)	X						2.83		3	mg/L				

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ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X						5.87		3	mg/L				
h. Oil and Grease	X		ND						1	mg/L				
i. Phosphorus (as P), Total (7723-14-0)	X						1.93		3	mg/L				
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO_4) (14808-79-8)		X												
l. Sulfide (as S)		X	ND						1	mg/L				
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

 CONTINUE ON PAGE V-3

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2-25-2013

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
N/A	003

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			ND						1	ug/L				
2M. Arsenic, Total (7440-38-2)	X			ND						1	ug/L				
3M. Beryllium, Total (7440-41-7)	X			ND						1	ug/L				
4M. Cadmium, Total (7440-43-9)	X			ND						1	ug/L				
5M. Chromium, Total (7440-47-3)	X			ND						1	ug/L				
6M. Copper, Total (7440-50-8)	X			ND						1	ug/L				
7M. Lead, Total (7439-92-1)	X			ND						1	ug/L				
8M. Mercury, Total (7439-97-6)	X			ND						1	ug/L				
9M. Nickel, Total (7440-02-0)	X			ND						1	ug/L				
10M. Selenium, Total (7782-49-2)	X			ND						1	ug/L				
11M. Silver, Total (7440-22-4)	X			ND						1	ug/L				
12M. Thallium, Total (7440-28-0)	X			ND						1	ug/L				
13M. Zinc, Total (7440-66-6)	X			ND						1	ug/L				
14M. Cyanide, Total (57-12-5)	X			ND						1	ug/L				
15M. Phenols, Total	X			ND						1	ug/L				
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

Outfall 003
2-25-2013

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			ND						1	ug/L				
2V. Acrylonitrile (107-13-1)	X			ND						1	ug/L				
3V. Benzene (71-43-2)	X			ND						1	ug/L				
4V. Bis (*Chloromethyl*) Ether (542-88-1)				***DELISTED***	***02-4-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
5V. Bromoform (75-25-2)	X			ND						1	ug/L				
6V. Carbon Tetrachloride (56-23-5)	X			ND						1	ug/L				
7V. Chlorobenzene (108-90-7)	X			ND						1	ug/L				
8V. Chlorodibromomethane (124-48-1)	X			ND						1	ug/L				
9V. Chloroethane (75-00-3)	X			ND						1	ug/L				
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)	X			ND						1	ug/L				
12V. Dichlorobromomethane (75-27-4)	X			ND						1	ug/L				
13V. Dichlorodifluoromethane (75-71-8)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
14V. 1,1-Dichloroethane (75-34-3)	X			ND						1	ug/L				
15V. 1,2-Dichloroethane (107-06-2)	X			ND						1	ug/L				
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)	X			ND						1	ug/L				
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)	X			ND						1	ug/L				
20V. Methyl Bromide (74-83-9)	X			ND						1	ug/L				
21V. Methyl Chloride (74-87-3)			X												

CONTINUE ON PAGE V-5

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CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			ND						1	ug/L				
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			ND						1	ug/L				
24V. Tetrachloro-ethylene (127-18-4)	X			ND						1	ug/L				
25V. Toluene (108-88-3)	X			ND						1	ug/L				
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			ND						1	ug/L				
28V. 1,1,2-Trichloro-ethane (79-00-5)	X			ND						1	ug/L				
29V Trichloro-ethylene (79-01-6)			X												
30V. Trichloro-fluoromethane (75-69-4)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
31V. Vinyl Chloride (75-01-4)	X			ND						1	ug/L				
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			ND						1	ug/L				
2A. 2,4-Dichloro-phenol (120-83-2)	X			ND						1	ug/L				
3A. 2,4-Dimethyl-phenol (105-67-9)	X			ND						1	ug/L				
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)	X			ND						1	ug/L				
6A. 2-Nitrophenol (88-75-5)	X			ND						1	ug/L				
7A. 4-Nitrophenol (100-02-7)	X			ND						1	ug/L				
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)	X			ND						1	ug/L				
10A. Phenol (108-95-2)	X			ND						1	ug/L				
11A. 2,4,6-Trichloro-phenol (88-05-2)	X			ND						1	ug/L				

CONTINUE ON REVERSE

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2-25-2013

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			ND						1	ug/L				
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)	X			ND						1	ug/L				
4B. Benzidine (92-87-5)	X			ND						1	ug/L				
5B. Benzo (*a*) Anthracene (56-55-3)	X			ND						1	ug/L				
6B. Benzo (*a*) Pyrene (50-32-8)	X			ND						1	ug/L				
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			ND						1	ug/L				
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			ND						1	ug/L				
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			ND						1	ug/L				
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			ND						1	ug/L				
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			ND						1	ug/L				
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)	X			ND						1	ug/L				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			ND						1	ug/L				
18B. Chrysene (218-01-9)	X			ND						1	ug/L				
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			ND						1	ug/L				
20B. 1,2-Dichloro-benzene (95-50-1)	X			ND						1	ug/L				
21B. 1,3-Di-chloro-benzene (541-73-1)	X			ND						1	ug/L				

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CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)	X			ND						1	ug/L				
23B. 3,3-Dichloro-benzidine (91-94-1)	X			ND						1	ug/L				
24B. Diethyl Phthalate (84-66-2)	X			ND						1	ug/L				
25B. Dimethyl Phthalate (131 -11-3)	X			ND						1	ug/L				
26B. Di-N-Butyl Phthalate (84-74-2)	X			ND						1	ug/L				
27B. 2,4-Dinitro-toluene (121-14-2)	X			ND						1	ug/L				
28B. 2,6-Dinitro-toluene (606-20-2)	X			ND						1	ug/L				
29B. Di-N-Octyl Phthalate (117-84-0)	X			ND						1	ug/L				
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)	X			ND						1	ug/L				
31B. Fluoranthene (206-44-0)	X			ND						1	ug/L				
32B. Fluorene (86-73-7)	X			ND						1	ug/L				
33B. Hexachloro-benzene (118-74-1)	X			ND						1	ug/L				
34B. Hexachloro-butadiene (87-68-3)	X			ND						1	ug/L				
35B. Hexachloro-cyclopentadiene (77-47-4)	X			ND						1	ug/L				
36B Hexachloro-ethane (67-72-1)	X			ND						1	ug/L				
37B. Indeno (1,2,3-*cd*) Pyrene (193-39-5)	X			ND						1	ug/L				
38B. Isophorone (78-59-1)	X			ND						1	ug/L				
39B. Naphthalene (91-20-3)	X			ND						1	ug/L				
40B. Nitrobenzene (98-95-3)	X			ND						1	ug/L				
41B. N-Nitro-sodimethylamine (62-75-9)	X			ND						1	ug/L				
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			ND						1	ug/L				

CONTINUE ON REVERSE

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			ND						1	ug/L				
44B. Phenanthrene (85-01-8)	X			ND						1	ug/L				
45B. Pyrene (129-00-0)	X			ND						1	ug/L				
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			ND						1	ug/L				
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			ND						1	ug/L				
2P. α-BHC (319-84-6)	X			ND						1	ug/L				
3P. β-BHC (319-85-7)	X			ND						1	ug/L				
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)	X			ND						1	ug/L				
7P. 4,4'-DDT (50-29-3)	X			ND						1	ug/L				
8P. 4,4'-DDE (72-55-9)	X			ND						1	ug/L				
9P. 4,4'-DDD (72-54-8)	X			ND						1	ug/L				
10P. Dieldrin (60-57-1)	X			ND						1	ug/L				
11P. α-Enosulfan (115-29-7)	X			ND						1	ug/L				
12P. β-Endosulfan (115-29-7)	X			ND						1	ug/L				
13P. Endosulfan Sulfate (1031-07-8)	X			ND						1	ug/L				
14P. Endrin (72-20-8)	X			ND						1	ug/L				
15P. Endrin Aldehyde (7421-93-4)	X			ND						1	ug/L				
16P. Heptachlor (76-44-8)	X			ND						1	ug/L				

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EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
n/a	003

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)	X			ND						1	ug/L				
18P. PCB-1242 (53469-21-9)	X			ND						1	ug/L				
19P. PCB-1254 (11097-69-1)	X			ND						1	ug/L				
20P. PCB-1221 (11104-28-2)	X			ND						1	ug/L				
21P. PCB-1232 (11141-16-5)	X			ND						1	ug/L				
22P. PCB-1248 (12672-29-6)	X			ND						1	ug/L				
23P. PCB-1260 (11096-82-5)	X			ND						1	ug/L				
24P. PCB-1016 (12674-11-2)	X			ND						1	ug/L				
25P. Toxaphene (8001-35-2)	X			ND						1	ug/L				

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): N/A

V. INTAKE AND EFFLUENT CHARACTERISTICS (*continued from page 3 of Form 2-C*) — OUTFALL NO. 004

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	ND*						1	mg/L				
b. Chemical Oxygen Demand (*COD*)					44		3	mg/L				
c. Total Organic Carbon (*TOC*)	4.8						1	mg/L				
d. Total Suspended Solids (*TSS*)					15		3	mg/L				
e. Ammonia (*as N*)	5.6***						1	mg/L				
f. Flow	VALUE		VALUE		VALUE 0.145512				mg/d	VALUE		
g. Temperature (*winter*)	VALUE NR		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE NR		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 7.45	MAXIMUM 7.45	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X	ND						1	N/A				
c. Color			Clear											
d. Fecal Coliform	X		>2420**						1	mpn/100m				
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)	X		58*						1	mg/L				

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ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)	X		00						1	mg/L				
h. Oil and Grease	X		ND						1	mg/L				
i. Phosphorus (as P), Total (7723-14-0)	X		1.5						1	mg/L				
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as* SO_4) (14808-79-8)		X												
l. Sulfide (*as S*)		X	ND						1	mg/L				
m. Sulfite (*as* SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

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EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
N/A	004

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			ND						1	ug/L				
2M. Arsenic, Total (7440-38-2)	X			ND						1	ug/L				
3M. Beryllium, Total (7440-41-7)	X			ND						1	ug/L				
4M. Cadmium, Total (7440-43-9)	X			ND						1	ug/L				
5M. Chromium, Total (7440-47-3)	X			ND						1	ug/L				
6M. Copper, Total (7440-50-8)	X			120						1	ug/L				
7M. Lead, Total (7439-92-1)	X			ND						1	ug/L				
8M. Mercury, Total (7439-97-6)	X			ND						1	ug/L				
9M. Nickel, Total (7440-02-0)	X			ND						1	ug/L				
10M. Selenium, Total (7782-49-2)	X			ND						1	ug/L				
11M. Silver, Total (7440-22-4)	X			ND						1	ug/L				
12M. Thallium, Total (7440-28-0)	X			ND						1	ug/L				
13M. Zinc, Total (7440-66-6)	X			72						1	ug/L				
14M. Cyanide, Total (57-12-5)	X			ND						1	ug/L				
15M. Phenols, Total	X			ND						1	ug/L				
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

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1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			ND						1	ug/L				
2V. Acrylonitrile (107-13-1)	X			ND						1	ug/L				
3V. Benzene (71-43-2)	X			ND						1	ug/L				
4V. Bis (*Chloromethyl*) Ether (542-88-1)				***DELISTED***	***02-4-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
5V. Bromoform (75-25-2)	X			ND						1	ug/L				
6V. Carbon Tetrachloride (56-23-5)	X			ND						1	ug/L				
7V. Chlorobenzene (108-90-7)	X			ND						1	ug/L				
8V. Chlorodibromomethane (124-48-1)	X			ND						1	ug/L				
9V. Chloroethane (75-00-3)	X			ND						1	ug/L				
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)	X			ND						1	ug/L				
12V. Dichlorobromomethane (75-27-4)	X			ND						1	ug/L				
13V. Dichlorodifluoromethane (75-71-8)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
14V. 1,1-Dichloroethane (75-34-3)	X			ND						1	ug/L				
15V. 1,2-Dichloroethane (107-06-2)	X			ND						1	ug/L				
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)	X			ND						1	ug/L				
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)	X			ND						1	ug/L				
20V. Methyl Bromide (74-83-9)	X			ND						1	ug/L				
21V. Methyl Chloride (74-87-3)			X												

CONTINUE ON PAGE V-5

Outfall 004
2-25-2013

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			ND						1	ug/L				
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			ND						1	ug/L				
24V. Tetrachloro-ethylene (127-18-4)	X			ND						1	ug/L				
25V. Toluene (108-88-3)	X			ND						1	ug/L				
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			ND						1	ug/L				
28V. 1,1,2-Trichloro-ethane (79-00-5)	X			ND						1	ug/L				
29V Trichloro-ethylene (79-01-6)			X												
30V. Trichloro-fluoromethane (75-69-4)				***DELISTED***	***01-8-81***	**ANALYSIS**	**NOT**	**REQUIRED**	**FOR**	**THIS**					
31V. Vinyl Chloride (75-01-4)	X			ND						1	ug/L				
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			ND						1	ug/L				
2A. 2,4-Dichloro-phenol (120-83-2)	X			ND						1	ug/L				
3A. 2,4-Dimethyl-phenol (105-67-9)	X			ND						1	ug/L				
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)	X			ND						1	ug/L				
6A. 2-Nitrophenol (88-75-5)	X			ND						1	ug/L				
7A. 4-Nitrophenol (100-02-7)	X			ND						1	ug/L				
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)	X			ND						1	ug/L				
10A. Phenol (108-95-2)	X			ND						1	ug/L				
11A. 2,4,6-Trichloro-phenol (88-05-2)	X			ND						1	ug/L				

CONTINUE ON REVERSE

Outfall 004
2-25-2013

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			ND						1	ug/L				
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)	X			ND						1	ug/L				
4B. Benzidine (92-87-5)	X			ND						1	ug/L				
5B. Benzo (*a*) Anthracene (56-55-3)	X			ND						1	ug/L				
6B. Benzo (*a*) Pyrene (50-32-8)	X			ND						1	ug/L				
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			ND						1	ug/L				
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			ND						1	ug/L				
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			ND						1	ug/L				
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			ND						1	ug/L				
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			ND						1	ug/L				
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)	X			ND						1	ug/L				
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			ND						1	ug/L				
18B. Chrysene (218-01-9)	X			ND						1	ug/L				
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			ND						1	ug/L				
20B. 1,2-Dichloro-benzene (95-50-1)	X			ND						1	ug/L				
21B. 1,3-Di-chloro-benzene (541-73-1)	X			ND						1	ug/L				

CONTINUE ON PAGE V-7

Outfall 004
2-25-2013

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)	X			ND						1	ug/L				
23B. 3,3-Dichloro-benzidine (91-94-1)	X			ND						1	ug/L				
24B. Diethyl Phthalate (84-66-2)	X			ND						1	ug/L				
25B. Dimethyl Phthalate (131 -11-3)	X			ND						1	ug/L				
26B. Di-N-Butyl Phthalate (84-74-2)	X			ND						1	ug/L				
27B. 2,4-Dinitro-toluene (121-14-2)	X			ND						1	ug/L				
28B. 2,6-Dinitro-toluene (606-20-2)	X			ND						1	ug/L				
29B. Di-N-Octyl Phthalate (117-84-0)	X			ND						1	ug/L				
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)	X			ND						1	ug/L				
31B. Fluoranthene (206-44-0)	X			ND						1	ug/L				
32B. Fluorene (86-73-7)	X			ND						1	ug/L				
33B. Hexachloro-benzene (118-74-1)	X			ND						1	ug/L				
34B. Hexachloro-butadiene (87-68-3)	X			ND						1	ug/L				
35B. Hexachloro-cyclopentadiene (77-47-4)	X			ND						1	ug/L				
36B Hexachloro-ethane (67-72-1)	X			ND						1	ug/L				
37B. Indeno (1,2,3-*cd*) Pyrene (193-39-5)	X			ND						1	ug/L				
38B. Isophorone (78-59-1)	X			ND						1	ug/L				
39B. Naphthalene (91-20-3)	X			ND						1	ug/L				
40B. Nitrobenzene (98-95-3)	X			ND						1	ug/L				
41B. N-Nitro-sodimethylamine (62-75-9)	X			ND						1	ug/L				
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			ND						1	ug/L				

CONTINUE ON REVERSE

Outfall 004
2-25-2013

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			ND						1	ug/L				
44B. Phenanthrene (85-01-8)	X			ND						1	ug/L				
45B. Pyrene (129-00-0)	X			ND						1	ug/L				
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			ND						1	ug/L				
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			ND						1	ug/L				
2P. α-BHC (319-84-6)	X			ND						1	ug/L				
3P. β-BHC (319-85-7)	X			ND						1	ug/L				
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)	X			ND						1	ug/L				
7P. 4,4'-DDT (50-29-3)	X			ND						1	ug/L				
8P. 4,4'-DDE (72-55-9)	X			ND						1	ug/L				
9P. 4,4'-DDD (72-54-8)	X			ND						1	ug/L				
10P. Dieldrin (60-57-1)	X			ND						1	ug/L				
11P. α-Enosulfan (115-29-7)	X			ND						1	ug/L				
12P. β-Endosulfan (115-29-7)	X			ND						1	ug/L				
13P. Endosulfan Sulfate (1031-07-8)	X			ND						1	ug/L				
14P. Endrin (72-20-8)	X			ND						1	ug/L				
15P. Endrin Aldehyde (7421-93-4)	X			ND						1	ug/L				
16P. Heptachlor (76-44-8)	X			ND						1	ug/L				

CONTINUE ON PAGE V-9

Outfall 004
2-25-2013

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
n/a	004

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)	X			ND						1	ug/L				
18P. PCB-1242 (53469-21-9)	X			ND						1	ug/L				
19P. PCB-1254 (11097-69-1)	X			ND						1	ug/L				
20P. PCB-1221 (11104-28-2)	X			ND						1	ug/L				
21P. PCB-1232 (11141-16-5)	X			ND						1	ug/L				
22P. PCB-1248 (12672-29-6)	X			ND						1	ug/L				
23P. PCB-1260 (11096-82-5)	X			ND						1	ug/L				
24P. PCB-1016 (12674-11-2)	X			ND						1	ug/L				
25P. Toxaphene (8001-35-2)	X			ND						1	ug/L				

Chlorine Testing Results Sealston, (King George, VA) VPDES # VA0088374

January 16, 2013 On-Site Testing

CHLORINE TESTING ON OUTFALLS SEALSTON, VA # 325

DATE	OUTFALL	CHLORINE TRACE YES OR NO	RESULTS COLOR	SODIUM THIOSULFATE DROPS ADDED
1-16-13	OUTFALL 2	no	no color change	no Drops Added Solution was clear
1-16-13	OUTFALL 3	no	no color change	no Drops Added Solution was clear
1-16-13	OUTFALL 4	no	no color change	no Drops Added Solution was clear

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 680-86591-1
Client Project/Site: CPS Sealston

For:
Cardno ATC
211 Expressway Court
Virginia Beach, Virginia 23462

Attn: Mr. Eric Shertzer

Authorized for release by:
2/7/2013 1:22:39 PM

Sheila Hoffman
Project Manager I
sheila.hoffman@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-86591-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Cardno ATC

Project: CPS Sealston

Report Number: 680-86591-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 01/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples Outfall 002 (680-86591-1) and Trip Blank (680-86591-2) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/23/2013 and 01/24/2013.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample Outfall 002 (680-86591-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 01/18/2013 and analyzed on 01/23/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS
Sample Outfall 002 (680-86591-1) was analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 01/18/2013 and analyzed on 01/20/2013.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for Outfall 002MS (680-86591-1MS). DCB Decachlorobiphenyl failed the surrogate recovery criteria low for Outfall 002MSD (680-86591-1MSD). These results have been reported and qualified.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides and PCBs analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Job ID: 680-86591-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample Outfall 002 (680-86591-1) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 01/19/2013 and analyzed on 01/21/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample Outfall 002 (680-86591-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 01/17/2013.

No difficulties were encountered during the hexavalent chromium analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Sample Outfall 002 (680-86591-1) was analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/21/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

OIL AND GREASE AND TPH

Sample Outfall 002 (680-86591-1) was analyzed for Oil and Grease and TPH in accordance with EPA Method 1664A. The samples were analyzed on 02/06/2013.

No difficulties were encountered during the Oil and Grease and TPH analysis.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN (TKN)

Sample Outfall 002 (680-86591-1) was analyzed for total kjeldahl nitrogen (TKN) in accordance with EPA Method 351.2. The samples were prepared on 01/28/2013 and analyzed on 01/29/2013.

No difficulties were encountered during the TKN analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Sample Outfall 002 (680-86591-1) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The sample was received with insufficient time remaining to perform the analysis within holding time. The samples were analyzed on 01/17/2013.

Sample Outfall 002 (680-86591-1)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

TOTAL PHOSPHORUS

Sample Outfall 002 (680-86591-1) was analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 01/28/2013 and analyzed on 01/29/2013.

No difficulties were encountered during the total phosphorus analysis.

Job ID: 680-86591-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

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All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND

Sample Outfall 002 (680-86591-1) was analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The sample was received with insufficient time remaining to perform the analysis within holding time. The samples were analyzed on 01/17/2013.

No difficulties were encountered during the BOD analysis.

All quality control parameters were within the acceptance limits.

7196A_CR3

Sample Outfall 002 (680-86591-1) was analyzed for 7196A_CR3 in accordance with SW 846. The sample was received outside method defined hold time. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the 7196A_CR3 analysis.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Sample Outfall 002 (680-86591-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 01/24/2013.

No difficulties were encountered during the cyanide analysis.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON

Sample Outfall 002 (680-86591-1) was analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the TOC analysis.

All quality control parameters were within the acceptance limits.

AMMONIA

Sample Outfall 002 (680-86591-1) was analyzed for ammonia in accordance with SM 4500 NH3 G. The samples were prepared and analyzed on 01/22/2013.

Sample Outfall 002 (680-86591-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analysis.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
1664A	HEM and SGT-HEM	1664A	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV
SM 4500 NH3 G	Ammonia	SM	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL SAV

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

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

Sample Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-86591-1	Outfall 002	Water	01/15/13 12:30	01/17/13 10:30
680-86591-2	Trip Blank	Water	01/15/13 00:00	01/17/13 10:30

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Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Client Sample ID: Outfall 002

Date Collected: 01/15/13 12:30
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/24/13 17:28	1
Acrylonitrile	20	U	20		ug/L			01/24/13 17:28	1
Benzene	1.0	U	1.0		ug/L			01/24/13 17:28	1
Bromoform	1.0	U	1.0		ug/L			01/24/13 17:28	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/24/13 17:28	1
Chlorobenzene	1.0	U	1.0		ug/L			01/24/13 17:28	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
Chloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
Chloroform	1.0	U	1.0		ug/L			01/24/13 17:28	1
Chloromethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/24/13 17:28	1
Ethylbenzene	1.0	U	1.0		ug/L			01/24/13 17:28	1
Methyl bromide	1.0	U	1.0		ug/L			01/24/13 17:28	1
Methylene Chloride	5.0	U	5.0		ug/L			01/24/13 17:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/24/13 17:28	1
Toluene	1.0	U	1.0		ug/L			01/24/13 17:28	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 17:28	1
Trichloroethene	1.0	U	1.0		ug/L			01/24/13 17:28	1
Vinyl chloride	1.0	U	1.0		ug/L			01/24/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*70 - 130*		*01/24/13 17:28*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*01/24/13 17:28*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/24/13 17:28*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Anthracene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Benzidine	78	U	78		ug/L		01/18/13 15:58	01/23/13 14:16	1
Benzo[a]anthracene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Benzo[a]pyrene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Benzo[b]fluoranthene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Benzo[k]fluoranthene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Bis(2-chloroethyl)ether	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
bis (2-chloroisopropyl) ether	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Butyl benzyl phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2-Chloronaphthalene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2-Chlorophenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Chrysene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Dibenz(a,h)anthracene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
1,2-Dichlorobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1

Client Sample ID: Outfall 002

Date Collected: 01/15/13 12:30
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-1

Matrix: Water

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Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
1,4-Dichlorobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
3,3'-Dichlorobenzidine	58	U	58		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,4-Dichlorophenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Di (2-ethylhexyl)phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Diethyl phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,4-Dimethylphenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Dimethyl phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Di-n-butyl phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,4-Dinitrophenol	48	U	48		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,4-Dinitrotoluene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,6-Dinitrotoluene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Di-n-octyl phthalate	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
1,2-Diphenylhydrazine	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Fluoranthene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Fluorene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Hexachlorobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Hexachlorobutadiene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Hexachlorocyclopentadiene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Hexachloroethane	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Indeno[1,2,3-cd]pyrene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Isophorone	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2-Methyl-4,6-dinitrophenol	48	U	48		ug/L		01/18/13 15:58	01/23/13 14:16	1
Naphthalene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Nitrobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2-Nitrophenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
4-Nitrophenol	48	U	48		ug/L		01/18/13 15:58	01/23/13 14:16	1
N-Nitrosodimethylamine	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
N-Nitrosodi-n-propylamine	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
N-Nitrosodiphenylamine	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Pentachlorophenol	48	U	48		ug/L		01/18/13 15:58	01/23/13 14:16	1
Phenanthrene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Phenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
Pyrene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
1,2,4-Trichlorobenzene	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1
2,4,6-Trichlorophenol	9.7	U	9.7		ug/L		01/18/13 15:58	01/23/13 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*38 - 130*	*01/18/13 15:58*	*01/23/13 14:16*	*1*
2-Fluorophenol	*59*		*25 - 130*	*01/18/13 15:58*	*01/23/13 14:16*	*1*
Nitrobenzene-d5	*67*		*39 - 130*	*01/18/13 15:58*	*01/23/13 14:16*	*1*
Phenol-d5	*61*		*25 - 130*	*01/18/13 15:58*	*01/23/13 14:16*	*1*
Terphenyl-d14	*29*		*10 - 143*	*01/18/13 15:58*	*01/23/13 14:16*	*1*
2,4,6-Tribromophenol	*84*		*31 - 141*	*01/18/13 15:58*	*01/23/13 14:16*	*1*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
alpha-BHC	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
beta-BHC	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

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Date Collected: 01/15/13 12:30
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Lab Sample ID: 680-86591-1

Matrix: Water

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.50	U	0.50		ug/L		01/18/13 15:58	01/20/13 00:55	1
4,4'-DDD	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
4,4'-DDE	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
4,4'-DDT	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Dieldrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Endosulfan I	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Endosulfan II	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Endosulfan sulfate	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Endrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Endrin aldehyde	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
gamma-BHC (Lindane)	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Heptachlor	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Heptachlor epoxide	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Kepone	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
Methoxychlor	0.050	U	0.050		ug/L		01/18/13 15:58	01/20/13 00:55	1
Mirex	0.25	U	0.25		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1016	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1221	2.0	U	2.0		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1232	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1242	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1248	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1254	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
PCB-1260	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
Polychlorinated biphenyls, Total	0.99	U	0.99		ug/L		01/18/13 15:58	01/20/13 00:55	1
Toxaphene	5.0	U	5.0		ug/L		01/18/13 15:58	01/20/13 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*		*22 - 130*	*01/18/13 15:58*	*01/20/13 00:55*	*1*
DCB Decachlorobiphenyl	*23*		*22 - 130*	*01/18/13 15:58*	*01/20/13 00:55*	*1*
Tetrachloro-m-xylene	*75*		*53 - 130*	*01/18/13 15:58*	*01/20/13 00:55*	*1*
Tetrachloro-m-xylene	*74*		*53 - 130*	*01/18/13 15:58*	*01/20/13 00:55*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20		ug/L		01/19/13 10:14	01/21/13 22:06	1
Arsenic	20	U	20		ug/L		01/19/13 10:14	01/21/13 22:06	1
Cadmium	5.0	U	5.0		ug/L		01/19/13 10:14	01/21/13 22:06	1
Chromium	10	U	10		ug/L		01/19/13 10:14	01/21/13 22:06	1
Copper	20	U	20		ug/L		01/19/13 10:14	01/21/13 22:06	1
Lead	10	U	10		ug/L		01/19/13 10:14	01/21/13 22:06	1
Nickel	40	U	40		ug/L		01/19/13 10:14	01/21/13 22:06	1
Selenium	20	U	20		ug/L		01/19/13 10:14	01/21/13 22:06	1
Silver	10	U	10		ug/L		01/19/13 10:14	01/21/13 22:06	1
Thallium	25	U	25		ug/L		01/19/13 10:14	01/21/13 22:06	1
Zinc	320		20		ug/L		01/19/13 10:14	01/21/13 22:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/21/13 11:28	01/21/13 18:09	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Client Sample ID: Outfall 002

Date Collected: 01/15/13 12:30
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.4	U	5.4		mg/L			02/06/13 10:54	1
Nitrogen, Kjeldahl	**4.8**		0.20		mg/L		01/28/13 15:00	01/29/13 12:50	1
Nitrate as N	**12**	**H ^**	1.3		mg/L			01/17/13 17:49	25
Nitrite as N	1.3	U H	1.3		mg/L			01/17/13 17:49	25
Phosphorus	**1.3**		0.10		mg/L		01/28/13 15:00	01/29/13 12:50	1
Cyanide, Total	0.010	U	0.010		mg/L		01/24/13 07:00	01/24/13 14:33	1
Total Organic Carbon	**5.7**		1.0		mg/L			01/28/13 19:38	1
Ammonia	**4.3**		0.25		mg/L		01/22/13 10:40	01/22/13 12:30	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	**2.2**	**H**	2.0		mg/L			01/17/13 15:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U H	0.010		mg/L			01/17/13 11:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	0.010	U	0.010		mg/L			01/28/13 09:57	1

Client Sample ID: Trip Blank

Date Collected: 01/15/13 00:00
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/23/13 17:21	1
Acrylonitrile	20	U	20		ug/L			01/23/13 17:21	1
Benzene	1.0	U	1.0		ug/L			01/23/13 17:21	1
Bromoform	1.0	U	1.0		ug/L			01/23/13 17:21	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/23/13 17:21	1
Chlorobenzene	1.0	U	1.0		ug/L			01/23/13 17:21	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
Chloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
Chloroform	1.0	U	1.0		ug/L			01/23/13 17:21	1
Chloromethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/23/13 17:21	1
Ethylbenzene	1.0	U	1.0		ug/L			01/23/13 17:21	1
Methyl bromide	1.0	U	1.0		ug/L			01/23/13 17:21	1
Methylene Chloride	5.0	U	5.0		ug/L			01/23/13 17:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/23/13 17:21	1
Toluene	1.0	U	1.0		ug/L			01/23/13 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 17:21	1
Trichloroethene	1.0	U	1.0		ug/L			01/23/13 17:21	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Client Sample ID: Trip Blank

Date Collected: 01/15/13 00:00
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0		ug/L			01/23/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 130*		*01/23/13 17:21*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*01/23/13 17:21*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*01/23/13 17:21*	*1*

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Surrogate Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-86591-1	Outfall 002	100	103	97
680-86591-2	Trip Blank	105	103	102
LCS 680-263698/23	Lab Control Sample	103	105	101
LCS 680-263879/4	Lab Control Sample	103	103	94
LCSD 680-263698/24	Lab Control Sample Dup	107	104	101
LCSD 680-263879/5	Lab Control Sample Dup	101	103	95
MB 680-263698/7	Method Blank	107	104	101
MB 680-263879/6	Method Blank	103	106	96

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(38-130)	(25-130)	(39-130)	(25-130)	(10-143)	(31-141)
680-86591-1	Outfall 002	66	59	67	61	29	84
LCS 680-263193/6-A	Lab Control Sample	69	76	71	82	61	101
LCSD 680-263193/7-A	Lab Control Sample Dup	69	76	72	81	61	100
MB 680-263193/5-A	Method Blank	60	65	66	64	51	77

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(22-130)	(22-130)	(53-130)	(53-130)
680-86591-1	Outfall 002	24	23	75	74
680-86591-1 MS	Outfall 002	19 X	18 X	67	67
680-86591-1 MSD	Outfall 002	21 X	20 X	70	69
LCS 680-263196/11-A	Lab Control Sample	83	79	85	83
LCS 680-263196/7-A	Lab Control Sample	70	70	83	83
LCSD 680-263196/12-A	Lab Control Sample Dup	71	69	89	88
LCSD 680-263196/8-A	Lab Control Sample Dup	55	54	80	80
MB 680-263196/6-A	Method Blank	72	71	88	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 680-263698/7
Matrix: Water
Analysis Batch: 263698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/23/13 12:06	1
Acrylonitrile	20	U	20		ug/L			01/23/13 12:06	1
Benzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Bromoform	1.0	U	1.0		ug/L			01/23/13 12:06	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chlorobenzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloroform	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloromethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/23/13 12:06	1
Ethylbenzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Methyl bromide	1.0	U	1.0		ug/L			01/23/13 12:06	1
Methylene Chloride	5.0	U	5.0		ug/L			01/23/13 12:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Toluene	1.0	U	1.0		ug/L			01/23/13 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Trichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Vinyl chloride	1.0	U	1.0		ug/L			01/23/13 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 130*		*01/23/13 12:06*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*01/23/13 12:06*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/23/13 12:06*	*1*

Lab Sample ID: LCS 680-263698/23
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.9		ug/L		100	74 - 123
Bromoform	50.0	50.7		ug/L		101	60 - 134
Carbon tetrachloride	50.0	43.8		ug/L		88	70 - 131
Chlorobenzene	50.0	52.4		ug/L		105	79 - 120
Chlorodibromomethane	50.0	50.6		ug/L		101	63 - 134
Chloroethane	50.0	50.6		ug/L		101	47 - 148
Chloroform	50.0	50.8		ug/L		102	76 - 128
Chloromethane	50.0	52.3		ug/L		105	47 - 151
Dichlorobromomethane	50.0	44.2		ug/L		88	72 - 129
1,1-Dichloroethane	50.0	54.9		ug/L		110	69 - 132

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

Lab Sample ID: LCS 680-263698/23
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	43.5		ug/L		87	75 - 120
1,1-Dichloroethene	50.0	53.5		ug/L		107	73 - 134
1,2-Dichloropropane	50.0	49.1		ug/L		98	71 - 126
1,3-Dichloropropene, Total	100	93.6		ug/L		94	73 - 125
Ethylbenzene	50.0	53.0		ug/L		106	78 - 125
Methyl bromide	50.0	27.7		ug/L		55	10 - 171
Methylene Chloride	50.0	50.0		ug/L		100	79 - 124
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	71 - 127
Tetrachloroethene	50.0	51.5		ug/L		103	77 - 128
Toluene	50.0	50.3		ug/L		101	77 - 125
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	78 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	69 - 127
Trichloroethene	50.0	47.6		ug/L		95	80 - 120
Vinyl chloride	50.0	52.5		ug/L		105	58 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-263698/24
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.9		ug/L		100	74 - 123	0	30
Bromoform	50.0	52.1		ug/L		104	60 - 134	3	30
Carbon tetrachloride	50.0	44.5		ug/L		89	70 - 131	2	30
Chlorobenzene	50.0	53.7		ug/L		107	79 - 120	2	30
Chlorodibromomethane	50.0	52.5		ug/L		105	63 - 134	4	50
Chloroethane	50.0	51.2		ug/L		102	47 - 148	1	40
Chloroform	50.0	51.0		ug/L		102	76 - 128	0	30
Chloromethane	50.0	52.5		ug/L		105	47 - 151	0	30
Dichlorobromomethane	50.0	44.4		ug/L		89	72 - 129	0	30
1,1-Dichloroethane	50.0	55.1		ug/L		110	69 - 132	0	30
1,2-Dichloroethane	50.0	43.3		ug/L		87	75 - 120	1	30
1,1-Dichloroethene	50.0	53.7		ug/L		107	73 - 134	0	30
1,2-Dichloropropane	50.0	48.4		ug/L		97	71 - 126	1	30
1,3-Dichloropropene, Total	100	92.9		ug/L		93	73 - 125	1	50
Ethylbenzene	50.0	54.1		ug/L		108	78 - 125	2	30
Methyl bromide	50.0	28.9		ug/L		58	10 - 171	4	50
Methylene Chloride	50.0	50.3		ug/L		101	79 - 124	1	30
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	71 - 127	2	30
Tetrachloroethene	50.0	52.8		ug/L		106	77 - 128	3	30
Toluene	50.0	50.3		ug/L		101	77 - 125	0	30
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	78 - 130	0	30
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	76 - 126	0	30

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

Lab Sample ID: LCSD 680-263698/24
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	69 - 127	0	30
Trichloroethene	50.0	47.7		ug/L		95	80 - 120	0	30
Vinyl chloride	50.0	53.4		ug/L		107	58 - 141	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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Lab Sample ID: MB 680-263879/6
Matrix: Water
Analysis Batch: 263879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/24/13 12:10	1
Acrylonitrile	20	U	20		ug/L			01/24/13 12:10	1
Benzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Bromoform	1.0	U	1.0		ug/L			01/24/13 12:10	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chlorobenzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloroform	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloromethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/24/13 12:10	1
Ethylbenzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Methyl bromide	1.0	U	1.0		ug/L			01/24/13 12:10	1
Methylene Chloride	5.0	U	5.0		ug/L			01/24/13 12:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Toluene	1.0	U	1.0		ug/L			01/24/13 12:10	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Trichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Vinyl chloride	1.0	U	1.0		ug/L			01/24/13 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*01/24/13 12:10*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*01/24/13 12:10*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/24/13 12:10*	*1*

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

Lab Sample ID: LCS 680-263879/4
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.9		ug/L		102	74 - 123
Bromoform	50.0	52.7		ug/L		105	60 - 134
Carbon tetrachloride	50.0	49.7		ug/L		99	70 - 131
Chlorobenzene	50.0	51.9		ug/L		104	79 - 120
Chlorodibromomethane	50.0	51.9		ug/L		104	63 - 134
Chloroethane	50.0	48.8		ug/L		98	47 - 148
Chloroform	50.0	50.8		ug/L		102	76 - 128
Chloromethane	50.0	55.3		ug/L		111	47 - 151
Dichlorobromomethane	50.0	47.5		ug/L		95	72 - 129
1,1-Dichloroethane	50.0	49.0		ug/L		98	69 - 132
1,2-Dichloroethane	50.0	41.4		ug/L		83	75 - 120
1,1-Dichloroethene	50.0	51.6		ug/L		103	73 - 134
1,2-Dichloropropane	50.0	52.6		ug/L		105	71 - 126
1,3-Dichloropropene, Total	100	93.2		ug/L		93	73 - 125
Ethylbenzene	50.0	52.8		ug/L		106	78 - 125
Methyl bromide	50.0	31.2		ug/L		62	10 - 171
Methylene Chloride	50.0	51.4		ug/L		103	79 - 124
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	71 - 127
Tetrachloroethene	50.0	53.0		ug/L		106	77 - 128
Toluene	50.0	45.7		ug/L		91	77 - 125
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	78 - 130
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	69 - 127
Trichloroethene	50.0	50.8		ug/L		102	80 - 120
Vinyl chloride	50.0	53.3		ug/L		107	58 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-263879/5
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.0		ug/L		102	74 - 123	0	30
Bromoform	50.0	47.8		ug/L		96	60 - 134	10	30
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 131	0	30
Chlorobenzene	50.0	52.1		ug/L		104	79 - 120	0	30
Chlorodibromomethane	50.0	49.1		ug/L		98	63 - 134	6	50
Chloroethane	50.0	46.4		ug/L		93	47 - 148	5	40
Chloroform	50.0	50.8		ug/L		102	76 - 128	0	30
Chloromethane	50.0	58.4		ug/L		117	47 - 151	5	30
Dichlorobromomethane	50.0	46.5		ug/L		93	72 - 129	2	30
1,1-Dichloroethane	50.0	48.3		ug/L		97	69 - 132	1	30
1,2-Dichloroethane	50.0	40.4		ug/L		81	75 - 120	3	30
1,1-Dichloroethene	50.0	53.0		ug/L		106	73 - 134	3	30

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

Lab Sample ID: LCSD 680-263879/5
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	52.5		ug/L		105	71 - 126	0	30
1,3-Dichloropropene, Total	100	88.4		ug/L		88	73 - 125	5	50
Ethylbenzene	50.0	53.0		ug/L		106	78 - 125	0	30
Methyl bromide	50.0	40.9		ug/L		82	10 - 171	27	50
Methylene Chloride	50.0	50.4		ug/L		101	79 - 124	2	30
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	71 - 127	6	30
Tetrachloroethene	50.0	53.7		ug/L		107	77 - 128	1	30
Toluene	50.0	46.3		ug/L		93	77 - 125	1	30
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	78 - 130	0	30
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	76 - 126	1	30
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	69 - 127	3	30
Trichloroethene	50.0	51.1		ug/L		102	80 - 120	1	30
Vinyl chloride	50.0	55.8		ug/L		112	58 - 141	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-263193/5-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Anthracene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Benzidine	80	U	80		ug/L		01/18/13 15:58	01/23/13 04:42	1
Benzo[a]anthracene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Benzo[a]pyrene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Benzo[b]fluoranthene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Benzo[k]fluoranthene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Bis(2-chloroethyl)ether	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
bis (2-chloroisopropyl) ether	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Butyl benzyl phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2-Chloronaphthalene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2-Chlorophenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Chrysene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Dibenz(a,h)anthracene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
1,2-Dichlorobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
1,3-Dichlorobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
1,4-Dichlorobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
3,3'-Dichlorobenzidine	60	U	60		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,4-Dichlorophenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Di (2-ethylhexyl)phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Diethyl phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,4-Dimethylphenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-263193/5-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Di-n-butyl phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,4-Dinitrophenol	50	U	50		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,4-Dinitrotoluene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,6-Dinitrotoluene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Di-n-octyl phthalate	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
1,2-Diphenylhydrazine	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Fluoranthene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Fluorene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Hexachlorobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Hexachlorobutadiene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Hexachlorocyclopentadiene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Hexachloroethane	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Indeno[1,2,3-cd]pyrene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Isophorone	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2-Methyl-4,6-dinitrophenol	50	U	50		ug/L		01/18/13 15:58	01/23/13 04:42	1
Naphthalene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Nitrobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2-Nitrophenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
4-Nitrophenol	50	U	50		ug/L		01/18/13 15:58	01/23/13 04:42	1
N-Nitrosodimethylamine	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
N-Nitrosodi-n-propylamine	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
N-Nitrosodiphenylamine	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Pentachlorophenol	50	U	50		ug/L		01/18/13 15:58	01/23/13 04:42	1
Phenanthrene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Phenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
Pyrene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
1,2,4-Trichlorobenzene	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1
2,4,6-Trichlorophenol	10	U	10		ug/L		01/18/13 15:58	01/23/13 04:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*38 - 130*	*01/18/13 15:58*	*01/23/13 04:42*	*1*
2-Fluorophenol	*65*		*25 - 130*	*01/18/13 15:58*	*01/23/13 04:42*	*1*
Nitrobenzene-d5	*66*		*39 - 130*	*01/18/13 15:58*	*01/23/13 04:42*	*1*
Phenol-d5	*64*		*25 - 130*	*01/18/13 15:58*	*01/23/13 04:42*	*1*
Terphenyl-d14	*51*		*10 - 143*	*01/18/13 15:58*	*01/23/13 04:42*	*1*
2,4,6-Tribromophenol	*77*		*31 - 141*	*01/18/13 15:58*	*01/23/13 04:42*	*1*

Lab Sample ID: LCS 680-263193/6-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	89.0		ug/L		89	55 - 130
Anthracene	100	86.2		ug/L		86	61 - 130
Benzidine	100	80	U	ug/L		79	10 - 130
Benzo[a]anthracene	100	89.6		ug/L		90	58 - 130
Benzo[a]pyrene	100	98.2		ug/L		98	61 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-263193/6-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	100	94.4		ug/L		94	51 - 130
Benzo[k]fluoranthene	100	92.4		ug/L		92	53 - 130
Bis(2-chloroethyl)ether	100	81.5		ug/L		81	56 - 130
bis (2-chloroisopropyl) ether	100	79.7		ug/L		80	55 - 130
Butyl benzyl phthalate	100	109		ug/L		109	66 - 130
2-Chloronaphthalene	100	84.0		ug/L		84	53 - 130
2-Chlorophenol	100	85.8		ug/L		86	57 - 130
Chrysene	100	91.2		ug/L		91	59 - 130
Dibenz(a,h)anthracene	100	94.2		ug/L		94	55 - 130
1,2-Dichlorobenzene	100	73.6		ug/L		74	43 - 130
1,3-Dichlorobenzene	100	70.9		ug/L		71	41 - 130
1,4-Dichlorobenzene	100	71.8		ug/L		72	43 - 130
3,3'-Dichlorobenzidine	100	66.3		ug/L		66	27 - 130
2,4-Dichlorophenol	100	80.7		ug/L		81	54 - 130
Di (2-ethylhexyl)phthalate	100	106		ug/L		106	62 - 130
Diethyl phthalate	100	96.6		ug/L		97	70 - 130
2,4-Dimethylphenol	100	72.3		ug/L		72	40 - 130
Dimethyl phthalate	100	91.6		ug/L		92	69 - 130
Di-n-butyl phthalate	100	93.4		ug/L		93	66 - 130
2,4-Dinitrophenol	100	98.5		ug/L		98	20 - 165
2,4-Dinitrotoluene	100	93.2		ug/L		93	63 - 130
2,6-Dinitrotoluene	100	91.5		ug/L		91	65 - 130
Di-n-octyl phthalate	100	109		ug/L		109	64 - 130
1,2-Diphenylhydrazine	100	89.0		ug/L		89	63 - 130
Fluoranthene	100	85.8		ug/L		86	56 - 130
Fluorene	100	89.3		ug/L		89	61 - 130
Hexachlorobenzene	100	91.3		ug/L		91	52 - 130
Hexachlorobutadiene	100	72.8		ug/L		73	36 - 130
Hexachlorocyclopentadiene	100	53.3		ug/L		53	10 - 130
Hexachloroethane	100	72.7		ug/L		73	39 - 130
Indeno[1,2,3-cd]pyrene	100	103		ug/L		103	47 - 130
Isophorone	100	81.3		ug/L		81	59 - 130
2-Methyl-4,6-dinitrophenol	100	90.8		ug/L		91	45 - 134
Naphthalene	100	78.5		ug/L		79	50 - 130
Nitrobenzene	100	80.2		ug/L		80	56 - 130
2-Nitrophenol	100	83.3		ug/L		83	54 - 130
4-Nitrophenol	100	78.4		ug/L		78	38 - 130
N-Nitrosodimethylamine	100	75.2		ug/L		75	54 - 130
N-Nitrosodi-n-propylamine	100	91.2		ug/L		91	64 - 130
N-Nitrosodiphenylamine	100	91.8		ug/L		92	68 - 130
Pentachlorophenol	100	91.0		ug/L		91	42 - 138
Phenanthrene	100	87.3		ug/L		87	62 - 130
Phenol	100	84.6		ug/L		85	29 - 130
Pyrene	100	91.0		ug/L		91	60 - 130
1,2,4-Trichlorobenzene	100	72.1		ug/L		72	42 - 130
2,4,6-Trichlorophenol	100	84.8		ug/L		85	57 - 130

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-263193/6-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263193

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*38 - 130*
2-Fluorophenol	*76*		*25 - 130*
Nitrobenzene-d5	*71*		*39 - 130*
Phenol-d5	*82*		*25 - 130*
Terphenyl-d14	*61*		*10 - 143*
2,4,6-Tribromophenol	*101*		*31 - 141*

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Lab Sample ID: LCSD 680-263193/7-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 263193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	100	84.1		ug/L		84	55 - 130	6	50
Anthracene	100	81.0		ug/L		81	61 - 130	6	50
Benzidine	100	84.8		ug/L		85	10 - 130	7	50
Benzo[a]anthracene	100	86.1		ug/L		86	58 - 130	4	50
Benzo[a]pyrene	100	95.3		ug/L		95	61 - 130	3	50
Benzo[b]fluoranthene	100	88.0		ug/L		88	51 - 130	7	50
Benzo[k]fluoranthene	100	89.5		ug/L		89	53 - 130	3	50
Bis(2-chloroethyl)ether	100	77.9		ug/L		78	56 - 130	5	50
bis (2-chloroisopropyl) ether	100	76.3		ug/L		76	55 - 130	4	50
Butyl benzyl phthalate	100	103		ug/L		103	66 - 130	5	50
2-Chloronaphthalene	100	79.3		ug/L		79	53 - 130	6	50
2-Chlorophenol	100	82.4		ug/L		82	57 - 130	4	50
Chrysene	100	91.2		ug/L		91	59 - 130	0	50
Dibenz(a,h)anthracene	100	94.1		ug/L		94	55 - 130	0	50
1,2-Dichlorobenzene	100	71.4		ug/L		71	43 - 130	3	50
1,3-Dichlorobenzene	100	68.9		ug/L		69	41 - 130	3	50
1,4-Dichlorobenzene	100	70.1		ug/L		70	43 - 130	2	50
3,3'-Dichlorobenzidine	100	60	U	ug/L		57	27 - 130	15	50
2,4-Dichlorophenol	100	77.8		ug/L		78	54 - 130	4	50
Di (2-ethylhexyl)phthalate	100	103		ug/L		103	62 - 130	4	50
Diethyl phthalate	100	90.6		ug/L		91	70 - 130	6	50
2,4-Dimethylphenol	100	69.6		ug/L		70	40 - 130	4	50
Dimethyl phthalate	100	87.6		ug/L		88	69 - 130	4	50
Di-n-butyl phthalate	100	87.7		ug/L		88	66 - 130	6	50
2,4-Dinitrophenol	100	95.9		ug/L		96	20 - 165	3	50
2,4-Dinitrotoluene	100	87.4		ug/L		87	63 - 130	6	50
2,6-Dinitrotoluene	100	88.5		ug/L		88	65 - 130	3	50
Di-n-octyl phthalate	100	106		ug/L		106	64 - 130	4	50
1,2-Diphenylhydrazine	100	82.7		ug/L		83	63 - 130	7	50
Fluoranthene	100	79.5		ug/L		79	56 - 130	8	50
Fluorene	100	84.2		ug/L		84	61 - 130	6	50
Hexachlorobenzene	100	86.6		ug/L		87	52 - 130	5	50
Hexachlorobutadiene	100	73.1		ug/L		73	36 - 130	0	50
Hexachlorocyclopentadiene	100	51.4		ug/L		51	10 - 130	3	50
Hexachloroethane	100	70.1		ug/L		70	39 - 130	4	50
Indeno[1,2,3-cd]pyrene	100	98.9		ug/L		99	47 - 130	4	50

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-263193/7-A
Matrix: Water
Analysis Batch: 263735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 263193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone	100	77.2		ug/L		77	59 - 130	5	50
2-Methyl-4,6-dinitrophenol	100	86.6		ug/L		87	45 - 134	5	50
Naphthalene	100	75.8		ug/L		76	50 - 130	4	50
Nitrobenzene	100	77.6		ug/L		78	56 - 130	3	50
2-Nitrophenol	100	81.1		ug/L		81	54 - 130	3	50
4-Nitrophenol	100	77.3		ug/L		77	38 - 130	1	50
N-Nitrosodimethylamine	100	73.4		ug/L		73	54 - 130	2	50
N-Nitrosodi-n-propylamine	100	85.8		ug/L		86	64 - 130	6	50
N-Nitrosodiphenylamine	100	86.5		ug/L		87	68 - 130	6	50
Pentachlorophenol	100	85.5		ug/L		86	42 - 138	6	50
Phenanthrene	100	81.6		ug/L		82	62 - 130	7	50
Phenol	100	78.3		ug/L		78	29 - 130	8	50
Pyrene	100	87.8		ug/L		88	60 - 130	4	50
1,2,4-Trichlorobenzene	100	70.2		ug/L		70	42 - 130	3	50
2,4,6-Trichlorophenol	100	79.8		ug/L		80	57 - 130	6	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*38 - 130*
2-Fluorophenol	*76*		*25 - 130*
Nitrobenzene-d5	*72*		*39 - 130*
Phenol-d5	*81*		*25 - 130*
Terphenyl-d14	*61*		*10 - 143*
2,4,6-Tribromophenol	*100*		*31 - 141*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-263196/6-A
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
alpha-BHC	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
beta-BHC	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Chlordane (technical)	0.50	U	0.50		ug/L		01/18/13 15:58	01/19/13 20:56	1
4,4'-DDD	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
4,4'-DDE	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
4,4'-DDT	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Dieldrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Endosulfan I	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Endosulfan II	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Endosulfan sulfate	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Endrin	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Endrin aldehyde	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
gamma-BHC (Lindane)	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Heptachlor	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Heptachlor epoxide	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Kepone	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: MB 680-263196/6-A
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	0.050	U	0.050		ug/L		01/18/13 15:58	01/19/13 20:56	1
Mirex	0.25	U	0.25		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1016	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1221	2.0	U	2.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1232	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1242	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1248	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1254	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
PCB-1260	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
Polychlorinated biphenyls, Total	1.0	U	1.0		ug/L		01/18/13 15:58	01/19/13 20:56	1
Toxaphene	5.0	U	5.0		ug/L		01/18/13 15:58	01/19/13 20:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*22 - 130*	*01/18/13 15:58*	*01/19/13 20:56*	*1*
DCB Decachlorobiphenyl	*71*		*22 - 130*	*01/18/13 15:58*	*01/19/13 20:56*	*1*
Tetrachloro-m-xylene	*88*		*53 - 130*	*01/18/13 15:58*	*01/19/13 20:56*	*1*
Tetrachloro-m-xylene	*89*		*53 - 130*	*01/18/13 15:58*	*01/19/13 20:56*	*1*

Lab Sample ID: LCS 680-263196/11-A
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	10.0	9.36		ug/L		94	38 - 172
PCB-1260	10.0	8.58		ug/L		86	46 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*22 - 130*
DCB Decachlorobiphenyl	*79*		*22 - 130*
Tetrachloro-m-xylene	*85*		*53 - 130*
Tetrachloro-m-xylene	*83*		*53 - 130*

Lab Sample ID: LCS 680-263196/7-A
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.100	0.0888		ug/L		89	14 - 168
alpha-BHC	0.100	0.0884		ug/L		88	43 - 138
beta-BHC	0.100	0.128		ug/L		128	38 - 158
4,4'-DDD	0.100	0.0946		ug/L		94	49 - 144
4,4'-DDE	0.100	0.0889		ug/L		89	46 - 144
4,4'-DDT	0.100	0.0878		ug/L		88	48 - 166
Dieldrin	0.100	0.0963		ug/L		96	61 - 136
Endosulfan I	0.100	0.0964		ug/L		96	52 - 141
Endosulfan II	0.100	0.0981		ug/L		98	60 - 140
Endosulfan sulfate	0.100	0.103		ug/L		103	60 - 151
Endrin	0.100	0.0994		ug/L		99	66 - 150

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: LCS 680-263196/7-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263461 — **Prep Batch: 263196**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	0.100	0.102		ug/L		102	16 - 200
gamma-BHC (Lindane)	0.100	0.0892		ug/L		89	54 - 134
Heptachlor	0.100	0.0827		ug/L		83	10 - 200
Heptachlor epoxide	0.100	0.0945		ug/L		94	49 - 142
Methoxychlor	0.100	0.0969		ug/L		97	13 - 186

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*22 - 130*
DCB Decachlorobiphenyl	*70*		*22 - 130*
Tetrachloro-m-xylene	*83*		*53 - 130*
Tetrachloro-m-xylene	*83*		*53 - 130*

Lab Sample ID: LCSD 680-263196/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263461 — **Prep Batch: 263196**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	10.0	9.22		ug/L		92	38 - 172	2	50
PCB-1260	10.0	8.22		ug/L		82	46 - 138	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*22 - 130*
DCB Decachlorobiphenyl	*69*		*22 - 130*
Tetrachloro-m-xylene	*89*		*53 - 130*
Tetrachloro-m-xylene	*88*		*53 - 130*

Lab Sample ID: LCSD 680-263196/8-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263461 — **Prep Batch: 263196**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.100	0.0891		ug/L		89	14 - 168	0	50
alpha-BHC	0.100	0.0850		ug/L		85	43 - 138	4	50
beta-BHC	0.100	0.115		ug/L		115	38 - 158	11	50
4,4'-DDD	0.100	0.0974		ug/L		97	49 - 144	3	50
4,4'-DDE	0.100	0.0868		ug/L		87	46 - 144	2	50
4,4'-DDT	0.100	0.0806		ug/L		80	48 - 166	9	50
Dieldrin	0.100	0.0937		ug/L		93	61 - 136	3	50
Endosulfan I	0.100	0.0929		ug/L		93	52 - 141	4	50
Endosulfan II	0.100	0.0943		ug/L		94	60 - 140	4	50
Endosulfan sulfate	0.100	0.0971		ug/L		97	60 - 151	6	50
Endrin	0.100	0.0910		ug/L		91	66 - 150	9	50
Endrin aldehyde	0.100	0.0982		ug/L		98	16 - 200	4	50
gamma-BHC (Lindane)	0.100	0.0871		ug/L		87	54 - 134	2	50
Heptachlor	0.100	0.0807		ug/L		81	10 - 200	2	50
Heptachlor epoxide	0.100	0.0915		ug/L		91	49 - 142	3	50
Methoxychlor	0.100	0.0862		ug/L		86	13 - 186	12	50

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: LCSD 680-263196/8-A
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 263196

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*22 - 130*
DCB Decachlorobiphenyl	*54*		*22 - 130*
Tetrachloro-m-xylene	*80*		*53 - 130*
Tetrachloro-m-xylene	*80*		*53 - 130*

Lab Sample ID: 680-86591-1 MS
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Outfall 002
Prep Type: Total/NA
Prep Batch: 263196

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Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.050	U	0.0989	0.0738		ug/L		75	14 - 168
alpha-BHC	0.050	U	0.0989	0.0857		ug/L		87	43 - 138
beta-BHC	0.050	U	0.0989	0.0888	p	ug/L		90	38 - 158
4,4'-DDD	0.050	U	0.0989	0.0813		ug/L		82	49 - 144
4,4'-DDE	0.050	U	0.0989	0.0722		ug/L		73	46 - 144
4,4'-DDT	0.050	U	0.0989	0.0775		ug/L		78	48 - 166
Dieldrin	0.050	U	0.0989	0.0825		ug/L		83	61 - 136
Endosulfan I	0.050	U	0.0989	0.0789		ug/L		80	52 - 141
Endosulfan II	0.050	U	0.0989	0.0843		ug/L		85	60 - 140
Endosulfan sulfate	0.050	U	0.0989	0.0956		ug/L		97	60 - 151
Endrin	0.050	U	0.0989	0.0964		ug/L		97	66 - 150
Endrin aldehyde	0.050	U	0.0989	0.0925		ug/L		93	16 - 200
gamma-BHC (Lindane)	0.050	U	0.0989	0.0963		ug/L		97	54 - 134
Heptachlor	0.050	U	0.0989	0.0840		ug/L		85	10 - 200
Heptachlor epoxide	0.050	U	0.0989	0.0812		ug/L		82	49 - 142
Methoxychlor	0.050	U	0.0989	0.0912		ug/L		92	13 - 186

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*19*	*X*	*22 - 130*
DCB Decachlorobiphenyl	*18*	*X*	*22 - 130*
Tetrachloro-m-xylene	*67*		*53 - 130*
Tetrachloro-m-xylene	*67*		*53 - 130*

Lab Sample ID: 680-86591-1 MSD
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Outfall 002
Prep Type: Total/NA
Prep Batch: 263196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.050	U	0.0933	0.0832		ug/L		89	14 - 168	12	50
alpha-BHC	0.050	U	0.0933	0.0916		ug/L		98	43 - 138	7	50
beta-BHC	0.050	U	0.0933	0.0974	p	ug/L		104	38 - 158	9	50
4,4'-DDD	0.050	U	0.0933	0.0872		ug/L		93	49 - 144	7	50
4,4'-DDE	0.050	U	0.0933	0.0811		ug/L		87	46 - 144	12	50
4,4'-DDT	0.050	U	0.0933	0.0845		ug/L		91	48 - 166	9	50
Dieldrin	0.050	U	0.0933	0.0868		ug/L		93	61 - 136	5	50
Endosulfan I	0.050	U	0.0933	0.0848		ug/L		91	52 - 141	7	50
Endosulfan II	0.050	U	0.0933	0.0902		ug/L		97	60 - 140	7	50
Endosulfan sulfate	0.050	U	0.0933	0.100		ug/L		108	60 - 151	5	50

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: 680-86591-1 MSD
Matrix: Water
Analysis Batch: 263461

Client Sample ID: Outfall 002
Prep Type: Total/NA
Prep Batch: 263196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.050	U	0.0933	0.102		ug/L		109	66 - 150	6	50
Endrin aldehyde	0.050	U	0.0933	0.0972		ug/L		104	16 - 200	5	50
gamma-BHC (Lindane)	0.050	U	0.0933	0.101		ug/L		108	54 - 134	5	50
Heptachlor	0.050	U	0.0933	0.0946		ug/L		101	10 - 200	12	50
Heptachlor epoxide	0.050	U	0.0933	0.0862		ug/L		92	49 - 142	6	50
Methoxychlor	0.050	U	0.0933	0.0961		ug/L		103	13 - 186	5	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*21*	*X*	*22 - 130*
DCB Decachlorobiphenyl	*20*	*X*	*22 - 130*
Tetrachloro-m-xylene	*70*		*53 - 130*
Tetrachloro-m-xylene	*69*		*53 - 130*

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Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-263327/1-A
Matrix: Water
Analysis Batch: 263524

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 263327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Arsenic	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Cadmium	5.0	U	5.0		ug/L		01/19/13 09:40	01/21/13 19:25	1
Chromium	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Copper	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Lead	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Nickel	40	U	40		ug/L		01/19/13 09:40	01/21/13 19:25	1
Selenium	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Silver	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Thallium	25	U	25		ug/L		01/19/13 09:40	01/21/13 19:25	1
Zinc	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1

Lab Sample ID: LCS 680-263327/2-A
Matrix: Water
Analysis Batch: 263524

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 263327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.8		ug/L		98	75 - 125
Arsenic	100	105		ug/L		105	75 - 125
Cadmium	50.0	51.9		ug/L		104	75 - 125
Chromium	100	104		ug/L		104	75 - 125
Copper	100	104		ug/L		104	75 - 125
Lead	50.0	52.1		ug/L		104	75 - 125
Nickel	100	103		ug/L		103	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Silver	50.0	50.9		ug/L		102	75 - 125
Thallium	40.0	39.1		ug/L		98	75 - 125
Zinc	100	107		ug/L		107	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-263431/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263535 — **Prep Batch: 263431**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/21/13 11:28	01/21/13 17:52	1

Lab Sample ID: LCS 680-263431/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263535 — **Prep Batch: 263431**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

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Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 680-265041/21 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 265041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.0	U	5.0		mg/L			02/06/13 10:54	1

Lab Sample ID: LCS 680-265041/22 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 265041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	42.4		mg/L		106	78 - 114

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-264301/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264369 — **Prep Batch: 264301**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.20	U	0.20		mg/L		01/28/13 15:00	01/29/13 12:37	1

Lab Sample ID: LCS 680-264301/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264369 — **Prep Batch: 264301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.00	2.21		mg/L		110	75 - 125

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-263207/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U ^	0.050		mg/L			01/17/13 15:33	1
Nitrite as N	0.050	U	0.050		mg/L			01/17/13 15:33	1

Lab Sample ID: LCS 680-263207/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.500	0.505		mg/L		101	90 - 110

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Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-264301/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264368 — **Prep Batch: 264301**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10		mg/L		01/28/13 15:00	01/29/13 12:37	1

Lab Sample ID: LCS 680-264301/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264368 — **Prep Batch: 264301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.21		mg/L		111	60 - 140

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-263161/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010		mg/L			01/17/13 12:00	1
Cr (VI)	0.010	U	0.010		mg/L			01/17/13 12:00	1

Lab Sample ID: LCS 680-263161/8 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.200	0.190		mg/L		95	85 - 115
Cr (VI)	0.200	0.190		mg/L		95	85 - 115

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-263795/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263905 — **Prep Batch: 263795**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010		mg/L		01/24/13 07:00	01/24/13 14:15	1

Lab Sample ID: LCS 680-263795/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263905 — **Prep Batch: 263795**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0484		mg/L		97	85 - 115

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Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-264342/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0		mg/L			01/28/13 17:33	1

Lab Sample ID: LCS 680-264342/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	20.8		mg/L		104	80 - 120

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 680-263541/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263621 — **Prep Batch: 263541**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.050	U	0.050		mg/L		01/22/13 10:40	01/22/13 12:21	1

Lab Sample ID: LCS 680-263541/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263621 — **Prep Batch: 263541**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.989		mg/L		99	90 - 110

QC Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 680-263169/1 USB
Matrix: Water
Analysis Batch: 263169

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0		mg/L			01/17/13 15:48	1

Lab Sample ID: LCS 680-263169/2
Matrix: Water
Analysis Batch: 263169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	189		mg/L		96	85 - 115

Lab Sample ID: LCSD 680-263169/3
Matrix: Water
Analysis Batch: 263169

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	195		mg/L		98	85 - 115	3	30

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QC Association Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

GC/MS VOA

Analysis Batch: 263698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-2	Trip Blank	Total/NA	Water	8260B	
LCS 680-263698/23	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-263698/24	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-263698/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 263879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	8260B	
LCS 680-263879/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-263879/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-263879/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 263193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	3520C	
LCS 680-263193/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-263193/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-263193/5-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 263735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	8270C	263193
LCS 680-263193/6-A	Lab Control Sample	Total/NA	Water	8270C	263193
LCSD 680-263193/7-A	Lab Control Sample Dup	Total/NA	Water	8270C	263193
MB 680-263193/5-A	Method Blank	Total/NA	Water	8270C	263193

GC Semi VOA

Prep Batch: 263196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	3520C	
680-86591-1 MS	Outfall 002	Total/NA	Water	3520C	
680-86591-1 MSD	Outfall 002	Total/NA	Water	3520C	
LCS 680-263196/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-263196/7-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-263196/12-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-263196/8-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-263196/6-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 263461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	8081A_8082	263196
680-86591-1 MS	Outfall 002	Total/NA	Water	8081A_8082	263196
680-86591-1 MSD	Outfall 002	Total/NA	Water	8081A_8082	263196
LCS 680-263196/11-A	Lab Control Sample	Total/NA	Water	8081A_8082	263196
LCS 680-263196/7-A	Lab Control Sample	Total/NA	Water	8081A_8082	263196
LCSD 680-263196/12-A	Lab Control Sample Dup	Total/NA	Water	8081A_8082	263196
LCSD 680-263196/8-A	Lab Control Sample Dup	Total/NA	Water	8081A_8082	263196

GC Semi VOA (Continued)

Analysis Batch: 263461 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-263196/6-A	Method Blank	Total/NA	Water	8081A_8082	263196

Metals

Prep Batch: 263327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	3005A	
LCS 680-263327/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-263327/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 263431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	7470A	
LCS 680-263431/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-263431/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 263524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	6010B	263327
LCS 680-263327/2-A	Lab Control Sample	Total Recoverable	Water	6010B	263327
MB 680-263327/1-A	Method Blank	Total Recoverable	Water	6010B	263327

Analysis Batch: 263535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	7470A	263431
LCS 680-263431/2-A	Lab Control Sample	Total/NA	Water	7470A	263431
MB 680-263431/1-A	Method Blank	Total/NA	Water	7470A	263431

General Chemistry

Analysis Batch: 263161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	7196A	
LCS 680-263161/8	Lab Control Sample	Total/NA	Water	7196A	
MB 680-263161/9	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 263169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	SM 5210B	
LCS 680-263169/2	Lab Control Sample	Total/NA	Water	SM 5210B	
LCSD 680-263169/3	Lab Control Sample Dup	Total/NA	Water	SM 5210B	
USB 680-263169/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 263207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	353.2	
LCS 680-263207/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-263207/13	Method Blank	Total/NA	Water	353.2	

QC Association Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

General Chemistry (Continued)

Prep Batch: 263541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	SM 4500 NH3 B	
LCS 680-263541/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 680-263541/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 263621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	SM 4500 NH3 G	263541
LCS 680-263541/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	263541
MB 680-263541/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	263541

Prep Batch: 263795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	9012A	
LCS 680-263795/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 680-263795/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 263905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	9012A	263795
LCS 680-263795/2-A	Lab Control Sample	Total/NA	Water	9012A	263795
MB 680-263795/1-A	Method Blank	Total/NA	Water	9012A	263795

Analysis Batch: 264157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Dissolved	Water	7196A	

Prep Batch: 264301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	Digestion	
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-264301/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 264342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	9060	
LCS 680-264342/4	Lab Control Sample	Total/NA	Water	9060	
MB 680-264342/2	Method Blank	Total/NA	Water	9060	

Analysis Batch: 264368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	365.4	264301
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	365.4	264301
MB 680-264301/2-A	Method Blank	Total/NA	Water	365.4	264301

Analysis Batch: 264369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	351.2	264301
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	351.2	264301
MB 680-264301/2-A	Method Blank	Total/NA	Water	351.2	264301

General Chemistry (Continued)

Analysis Batch: 265041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86591-1	Outfall 002	Total/NA	Water	1664A	
LCS 680-265041/22	Lab Control Sample	Total/NA	Water	1664A	
MB 680-265041/21	Method Blank	Total/NA	Water	1664A	

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Lab Chronicle

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Client Sample ID: Outfall 002

Date Collected: 01/15/13 12:30
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	263879	01/24/13 17:28	JD	TAL SAV
Total/NA	Prep	3520C			263193	01/18/13 15:58	RBS	TAL SAV
Total/NA	Analysis	8270C		1	263735	01/23/13 14:16	MJC	TAL SAV
Total/NA	Prep	3520C			263196	01/18/13 15:58	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	263461	01/20/13 00:55	JK	TAL SAV
Dissolved	Prep	3005A			263327	01/19/13 10:14	JKL	TAL SAV
Dissolved	Analysis	6010B		1	263524	01/21/13 22:06	BCB	TAL SAV
Dissolved	Prep	7470A			263431	01/21/13 11:28	UU	TAL SAV
Dissolved	Analysis	7470A		1	263535	01/21/13 18:09	BCB	TAL SAV
Dissolved	Analysis	7196A		1	263161	01/17/13 11:32	RW	TAL SAV
Total/NA	Analysis	SM 5210B		1	263169	01/17/13 15:48	TAR	TAL SAV
Total/NA	Analysis	353.2		25	263207	01/17/13 17:49	JNC	TAL SAV
Total/NA	Prep	SM 4500 NH3 B			263541	01/22/13 10:40	RW	TAL SAV
Total/NA	Analysis	SM 4500 NH3 G		5	263621	01/22/13 12:30	RW	TAL SAV
Total/NA	Prep	9012A			263795	01/24/13 07:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1	263905	01/24/13 14:33	DAM	TAL SAV
Dissolved	Analysis	7196A		1	264157	01/28/13 09:57	JR	TAL SAV
Total/NA	Analysis	9060		1	264342	01/28/13 19:38	JR	TAL SAV
Total/NA	Prep	Digestion			264301	01/28/13 15:00	AJO	TAL SAV
Total/NA	Analysis	365.4		1	264368	01/29/13 12:50	JR	TAL SAV
Total/NA	Analysis	351.2		1	264369	01/29/13 12:50	JR	TAL SAV
Total/NA	Analysis	1664A		1	265041	02/06/13 10:54	JS	TAL SAV

Client Sample ID: Trip Blank

Date Collected: 01/15/13 00:00
Date Received: 01/17/13 10:30

Lab Sample ID: 680-86591-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	263698	01/23/13 17:21	JD	TAL SAV

Laboratory References:

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

Jan 18 13 01:44p Crop Production Services 5407753102 p.1
01/18/2013 02:14PM 7574731693 VAB RUBIK ENV PAGE 01

Savannah
5102 LaRoche Avenue
Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Eric Shertzer	Site Contact: Stephen Gray	Date: 1-15-13	COC No:
CPS Sealston Facility	Tel/Fax: 757-467-2108 / 9178	Lab Contact: Shelia Hoffman	Carrier:	____ of ____ COCs
2453 Birchwood Creek	Analysis Turnaround Time			Job No.
Sealston, VA 22547	Calendar (C) or Work Days (W) ___W___			
540-775-2985 Phone	TAT if different from Below _____			
540-775-3202 FAX	■ 2 weeks			SDG No.
Project Name: Sealston VA DMR	☐ 1 week			
Site: CPS Sealston Facility	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	BOD 5210B	Sample Specific Notes:
002 Out Fall	1-15-13	12:30 Pm	StormW	W	3		x	680-86591
003 Out Fall	1-15-13	12:50 Pm	StormW	W	3		x	
004 Out Fall	1-15-13	1:20 Pm	StormW	W	3		x	
	SG	SG						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

3.0 °C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Stephen Gray	Crop Production	1-15-13 1:30 Pm	[signature]	TA	01/17/13 1030
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Savannah, Georgia
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Cardno ATC	Client Project Manager: Eric Shertzer	Site Contact: Dokemo Brown	Lab Contact: Shelia Hoffman
Address: 211 Expressway Court	Telephone: (757) 497-2100	Telephone: (540) 995-2985	Telephone:
City/State/Zip: Virginia Beach, VA. 23462	Email: Eric.Shertzer@cardno.com		
Phone: (757) 497-2100			
Project Name: CPS Seaford	Method of Shipment/Carrier:		
Project Number: 90.58083.0070	Shipping/Tracking No:		
PO #			

COC No: ____ of ____ COCs

For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.:

Analysis Turnaround Time (In BUS days)
TAT if different from below ____
☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C)/Grab (G)	353.2	7196A	351.2 TKN	353.2	SM4500 NH3-G	16644A-NP	16644A-NP	9060-TOC		pH 6.46	Sample Specific Notes / Special Instructions:
OUT Fall 002	1-15-13	12:30pm		X									X		N	G	X										
													X					X									
								X											X								
								X												X							
								X													X						
								X														X					
								X															X				
										X						V								X			
				V																							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:
Per orient samples require additional analysis: Total Phosphorus, BOD
Volatiles /SGH 1/17/13 680-86591 3.0°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CPS	1-15-13 1:30			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA SV	Date/Time: 1/17/13 1030

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TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Savannah Georgia

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardno ATC	Client Project Manager: Eric Shertzer	Site Contact: Duke McBroom	Lab Contact: Shelia Hoffman	COC No:
Address: 211 Expressway Court	Telephone: 757-467-2100	Telephone: (540) 775-2985	Telephone:	____ of ____ COCs
City/State/Zip: Virginia beach, va. 23462	Email: Eric.shertzer@cardno.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: (757) 467-2100		TAT if different from below ____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: CPS Sealston	Method of Shipment/Carrier:			Job/SDG No:
Project Number: 90.38083.0090	Shipping/Tracking No:			
PO #				

Analyses

Sample Identification	Sample Date	Sample Time	Matrix: Air	Matrix: Aqueous	Matrix: Sediment	Matrix: Solid	Matrix: Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite-C/Grab-G	9012A	6010B/7470A	8081A-8082	8081A-8082	8270C	8270C			Phonsite	6.96	Sample Specific Notes / Special Instructions:
OUT Fall 002	1-15-13	1230pm		X							X					G	X										
									X						4			X									
													X						X								
													X							X							
													X								X						
													X									X					

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

680-86591

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Steve Gray	CPS	1-15-13 1:30pm			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA SW	Date/Time: 1/17/13 1030

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TAL-0018 (1008)

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2/7/2013

Login Sample Receipt Checklist

Client: Cardno ATC

Job Number: 680-86591-1

Login Number: 86591
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	TRIP BLANK NOT LABELED
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	125 ml HCL (TOC) received empty
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Certification Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86591-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 680-86553-1
Client Project/Site: CPS Sealston
Revision: 1

For:
Cardno ATC
211 Expressway Court
Virginia Beach, Virginia 23462

Attn: Mr. Eric Shertzer

Authorized for release by:
2/15/2013 3:07:06 PM

Sheila Hoffman
Project Manager I
sheila.hoffman@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-86553-1

Laboratory: TestAmerica Savannah

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Narrative

Job Narrative

CASE NARRATIVE

Client: Cardno ATC

Project: CPS Sealston

Report Number: 680-86553-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 01/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8, 4.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples OUTFALL 004 (680-86553-2) and TRIP BLANK (680-86553-3) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/23/2013 and 01/24/2013.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

PESTICIDES AND PCBS
Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for Pesticides and PCBs in accordance with EPA SW846 Method 8081A_8082. The samples were prepared on 01/17/2013 and analyzed on 01/19/2013.

The following sample(s) contained an allowable number of surrogate compounds outside limits: (680-86553-1 MS), (680-86553-1 MSD), OUTFALL 003 (680-86553-1). These results have been reported and qualified.

Endrin failed the recovery criteria low for LCS 680-263047/6-A.

Refer to the QC report for details.

Sample OUTFALL 003 (680-86553-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides and PCBs analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)
Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for dissolved metals (ICP) in accordance with EPA

Job ID: 680-86553-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

SW-846 Method 6010B. The samples were prepared on 01/19/2013 and analyzed on 01/21/2013.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 01/16/2013.

No difficulties were encountered during the hexavalent chromium analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)
Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 01/17/2013 and 01/21/2013 and analyzed on 01/19/2013 and 01/21/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

OIL AND GREASE AND TPH
Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for Oil and Grease and TPH in accordance with EPA Method 1664A. The samples were analyzed on 02/04/2013.

No difficulties were encountered during the Oil and Grease and TPH analyses.

All quality control parameters were within the acceptance limits.

TOTAL KJELDAHL NITROGEN (TKN)
Sample OUTFALL 004 (680-86553-2) was analyzed for total kjeldahl nitrogen (TKN) in accordance with EPA Method 351.2. The samples were prepared on 01/28/2013 and analyzed on 01/29/2013.

The following sample contained elevated nitrate levels which may have inhibited the recovery of Total Kjeldahl Nitrogen (TKN): OUTFALL 004 (680-86553-2).

Sample OUTFALL 004 (680-86553-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the TKN analysis.

All other quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN
Sample OUTFALL 004 (680-86553-2) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 01/16/2013.

Sample OUTFALL 004 (680-86553-2)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

TOTAL PHOSPHORUS
Sample OUTFALL 004 (680-86553-2) was analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were

Job ID: 680-86553-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

prepared on 01/28/2013 and analyzed on 01/29/2013.

No difficulties were encountered during the total phosphorus analysis.

All quality control parameters were within the acceptance limits.

BIOCHEMICAL OXYGEN DEMAND

Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for Biochemical Oxygen Demand in accordance with SM 5210B. The samples were analyzed on 01/16/2013.

No difficulties were encountered during the BOD analyses.

All quality control parameters were within the acceptance limits.

7196A_CR3

Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for 7196A_CR3 in accordance with SW 846. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the 7196A_CR3 analyses.

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 01/24/2013.

No difficulties were encountered during the cyanide analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON

Samples OUTFALL 003 (680-86553-1) and OUTFALL 004 (680-86553-2) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Sample OUTFALL 004 (680-86553-2) was analyzed for ammonia in accordance with SM 4500 NH3 G. The samples were prepared and analyzed on 01/22/2013.

Sample OUTFALL 004 (680-86553-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the ammonia analysis.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

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Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081A_8082	Organochlorine Pesticides & PCBs (GC)	SW846	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
1664A	HEM and SGT-HEM	1664A	TAL SAV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
7196A	Chromium, Hexavalent	SW846	TAL SAV
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL SAV
9012A	Cyanide, Total and/or Amenable	SW846	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV
SM 4500 NH3 G	Ammonia	SM	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL SAV

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

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

Sample Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-86553-1	OUTFALL 003	Water	01/15/13 12:50	01/16/13 10:20
680-86553-2	OUTFALL 004	Water	01/15/13 13:20	01/16/13 10:20
680-86553-3	TRIP BLANK	Water	01/15/13 00:00	01/16/13 10:20

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: OUTFALL 003

Date Collected: 01/15/13 12:50
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-1

Matrix: Water

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
alpha-BHC	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
beta-BHC	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Chlordane (technical)	0.94	U	0.94		ug/L		01/17/13 15:01	01/19/13 07:04	2
4,4'-DDD	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
4,4'-DDE	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
4,4'-DDT	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Dieldrin	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Endosulfan I	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Endosulfan II	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Endosulfan sulfate	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Endrin	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Endrin aldehyde	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
gamma-BHC (Lindane)	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Heptachlor	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Heptachlor epoxide	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Kepone	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
Methoxychlor	0.094	U	0.094		ug/L		01/17/13 15:01	01/19/13 07:04	2
Mirex	0.47	U	0.47		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1016	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1221	3.8	U	3.8		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1232	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1242	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1248	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1254	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
PCB-1260	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
Polychlorinated biphenyls, Total	1.9	U	1.9		ug/L		01/17/13 15:01	01/19/13 07:04	2
Toxaphene	9.4	U	9.4		ug/L		01/17/13 15:01	01/19/13 07:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*16*	*X*	*22 - 130*	*01/17/13 15:01*	*01/19/13 07:04*	*2*
DCB Decachlorobiphenyl	*14*	*X*	*22 - 130*	*01/17/13 15:01*	*01/19/13 07:04*	*2*
Tetrachloro-m-xylene	*55*		*53 - 130*	*01/17/13 15:01*	*01/19/13 07:04*	*2*
Tetrachloro-m-xylene	*53*		*53 - 130*	*01/17/13 15:01*	*01/19/13 07:04*	*2*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20		ug/L		01/19/13 10:14	01/21/13 21:59	1
Arsenic	20	U	20		ug/L		01/19/13 10:14	01/21/13 21:59	1
Cadmium	5.0	U	5.0		ug/L		01/19/13 10:14	01/21/13 21:59	1
Chromium	10	U	10		ug/L		01/19/13 10:14	01/21/13 21:59	1
Copper	20	U	20		ug/L		01/19/13 10:14	01/21/13 21:59	1
Lead	10	U	10		ug/L		01/19/13 10:14	01/21/13 21:59	1
Nickel	40	U	40		ug/L		01/19/13 10:14	01/21/13 21:59	1
Selenium	20	U	20		ug/L		01/19/13 10:14	01/21/13 21:59	1
Silver	10	U	10		ug/L		01/19/13 10:14	01/21/13 21:59	1
Thallium	25	U	25		ug/L		01/19/13 10:14	01/21/13 21:59	1
Zinc	20	U	20		ug/L		01/19/13 10:14	01/21/13 21:59	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: OUTFALL 003

Lab Sample ID: 680-86553-1

Date Collected: 01/15/13 12:50
Date Received: 01/16/13 10:20

Matrix: Water

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/21/13 11:28	01/21/13 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.3	U	5.3		mg/L			02/04/13 08:15	1
Cyanide, Total	0.010	U	0.010		mg/L		01/24/13 07:00	01/24/13 14:30	1
Total Organic Carbon	**8.4**		1.0		mg/L			01/28/13 18:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	**7.4**		2.0		mg/L			01/16/13 17:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010		mg/L			01/16/13 11:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	0.010	U	0.010		mg/L			01/28/13 09:57	1

Client Sample ID: OUTFALL 004

Lab Sample ID: 680-86553-2

Date Collected: 01/15/13 13:20
Date Received: 01/16/13 10:20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/24/13 17:56	1
Acrylonitrile	20	U	20		ug/L			01/24/13 17:56	1
Benzene	1.0	U	1.0		ug/L			01/24/13 17:56	1
Bromoform	1.0	U	1.0		ug/L			01/24/13 17:56	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/24/13 17:56	1
Chlorobenzene	1.0	U	1.0		ug/L			01/24/13 17:56	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
Chloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
Chloroform	1.0	U	1.0		ug/L			01/24/13 17:56	1
Chloromethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/24/13 17:56	1
Ethylbenzene	1.0	U	1.0		ug/L			01/24/13 17:56	1
Methyl bromide	1.0	U	1.0		ug/L			01/24/13 17:56	1
Methylene Chloride	5.0	U	5.0		ug/L			01/24/13 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/24/13 17:56	1
Toluene	1.0	U	1.0		ug/L			01/24/13 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 17:56	1
Trichloroethene	1.0	U	1.0		ug/L			01/24/13 17:56	1
Vinyl chloride	1.0	U	1.0		ug/L			01/24/13 17:56	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: OUTFALL 004

Date Collected: 01/15/13 13:20
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*70 - 130*		*01/24/13 17:56*	*1*
Dibromofluoromethane	*100*		*70 - 130*		*01/24/13 17:56*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/24/13 17:56*	*1*

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Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
alpha-BHC	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
beta-BHC	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Chlordane (technical)	0.49	U	0.49		ug/L		01/17/13 15:01	01/19/13 17:43	1
4,4'-DDD	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
4,4'-DDE	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
4,4'-DDT	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Dieldrin	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Endosulfan I	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Endosulfan II	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Endosulfan sulfate	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Endrin	0.049	U *	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Endrin aldehyde	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
gamma-BHC (Lindane)	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Heptachlor	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Heptachlor epoxide	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Kepone	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
Methoxychlor	0.049	U	0.049		ug/L		01/17/13 15:01	01/19/13 17:43	1
Mirex	0.25	U	0.25		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1016	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1221	2.0	U	2.0		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1232	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1242	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1248	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1254	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
PCB-1260	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
Polychlorinated biphenyls, Total	0.99	U	0.99		ug/L		01/17/13 15:01	01/19/13 17:43	1
Toxaphene	4.9	U	4.9		ug/L		01/17/13 15:01	01/19/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*14*	*X*	*22 - 130*	*01/17/13 15:01*	*01/19/13 17:43*	*1*
DCB Decachlorobiphenyl	*14*	*X*	*22 - 130*	*01/17/13 15:01*	*01/19/13 17:43*	*1*
Tetrachloro-m-xylene	*65*		*53 - 130*	*01/17/13 15:01*	*01/19/13 17:43*	*1*
Tetrachloro-m-xylene	*64*		*53 - 130*	*01/17/13 15:01*	*01/19/13 17:43*	*1*

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20		ug/L		01/19/13 09:40	01/21/13 21:53	1
Arsenic	20	U	20		ug/L		01/19/13 09:40	01/21/13 21:53	1
Cadmium	5.0	U	5.0		ug/L		01/19/13 09:40	01/21/13 21:53	1
Chromium	10	U	10		ug/L		01/19/13 09:40	01/21/13 21:53	1
Copper	**120**		20		ug/L		01/19/13 09:40	01/21/13 21:53	1
Lead	10	U	10		ug/L		01/19/13 09:40	01/21/13 21:53	1
Nickel	40	U	40		ug/L		01/19/13 09:40	01/21/13 21:53	1
Selenium	20	U	20		ug/L		01/19/13 09:40	01/21/13 21:53	1

Client Sample ID: OUTFALL 004

Lab Sample ID: 680-86553-2

Date Collected: 01/15/13 13:20
Date Received: 01/16/13 10:20

Matrix: Water

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10	U	10		ug/L		01/19/13 09:40	01/21/13 21:53	1
Thallium	25	U	25		ug/L		01/19/13 09:40	01/21/13 21:53	1
Zinc	**72**		20		ug/L		01/19/13 09:40	01/21/13 21:53	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/17/13 12:11	01/19/13 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.2	U	5.2		mg/L			02/04/13 08:15	1
Nitrogen, Kjeldahl	**4.8**		2.0		mg/L		01/28/13 15:00	01/29/13 13:37	10
Nitrate as N	**58**	^	5.0		mg/L			01/16/13 16:34	100
Nitrite as N	5.0	U	5.0		mg/L			01/16/13 16:34	100
Phosphorus	**1.5**		0.10		mg/L		01/28/13 15:00	01/29/13 12:49	1
Cyanide, Total	0.010	U	0.010		mg/L		01/24/13 07:00	01/24/13 14:31	1
Total Organic Carbon	**4.8**		1.0		mg/L			01/28/13 19:20	1
Ammonia	**5.6**		0.25		mg/L		01/22/13 10:40	01/22/13 12:30	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0		mg/L			01/16/13 17:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010		mg/L			01/16/13 11:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	0.010	U	0.010		mg/L			01/28/13 09:57	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-86553-3

Date Collected: 01/15/13 00:00
Date Received: 01/16/13 10:20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/23/13 16:53	1
Acrylonitrile	20	U	20		ug/L			01/23/13 16:53	1
Benzene	1.0	U	1.0		ug/L			01/23/13 16:53	1
Bromoform	1.0	U	1.0		ug/L			01/23/13 16:53	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/23/13 16:53	1
Chlorobenzene	1.0	U	1.0		ug/L			01/23/13 16:53	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
Chloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
Chloroform	1.0	U	1.0		ug/L			01/23/13 16:53	1
Chloromethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/23/13 16:53	1
Ethylbenzene	1.0	U	1.0		ug/L			01/23/13 16:53	1

Client Sample Results

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: TRIP BLANK

Date Collected: 01/15/13 00:00
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	1.0	U	1.0		ug/L			01/23/13 16:53	1
Methylene Chloride	5.0	U	5.0		ug/L			01/23/13 16:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/23/13 16:53	1
Toluene	1.0	U	1.0		ug/L			01/23/13 16:53	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 16:53	1
Trichloroethene	1.0	U	1.0		ug/L			01/23/13 16:53	1
Vinyl chloride	1.0	U	1.0		ug/L			01/23/13 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*01/23/13 16:53*	*1*
Dibromofluoromethane	*103*		*70 - 130*		*01/23/13 16:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/23/13 16:53*	*1*

Surrogate Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	**Client Sample ID**	(70-130)	(70-130)	(70-130)
680-86553-2	OUTFALL 004	102	100	97
680-86553-3	TRIP BLANK	106	103	100
LCS 680-263698/23	Lab Control Sample	103	105	101
LCS 680-263879/4	Lab Control Sample	103	103	94
LCSD 680-263698/24	Lab Control Sample Dup	107	104	101
LCSD 680-263879/5	Lab Control Sample Dup	101	103	95
MB 680-263698/7	Method Blank	107	104	101
MB 680-263879/6	Method Blank	103	106	96

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	**Client Sample ID**	(22-130)	(22-130)	(53-130)	(53-130)
680-86553-1	OUTFALL 003	16 X	14 X	55	53
680-86553-1 MS	OUTFALL 003	20 X	19 X	68	64
680-86553-1 MSD	OUTFALL 003	10 X	10 X	65	60
680-86553-2	OUTFALL 004	14 X	14 X	65	64
680-86553-2 MS	OUTFALL 004	91	87	76	79
680-86553-2 MSD	OUTFALL 004	98	91	82	86
LCS 680-263047/6-A	Lab Control Sample	57	51	74	77
LCS 680-263047/9-A	Lab Control Sample	44	39	78	81
MB 680-263047/5-A	Method Blank	39	35	68	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 680-263698/7
Matrix: Water
Analysis Batch: 263698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/23/13 12:06	1
Acrylonitrile	20	U	20		ug/L			01/23/13 12:06	1
Benzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Bromoform	1.0	U	1.0		ug/L			01/23/13 12:06	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chlorobenzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloroform	1.0	U	1.0		ug/L			01/23/13 12:06	1
Chloromethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/23/13 12:06	1
Ethylbenzene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Methyl bromide	1.0	U	1.0		ug/L			01/23/13 12:06	1
Methylene Chloride	5.0	U	5.0		ug/L			01/23/13 12:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Toluene	1.0	U	1.0		ug/L			01/23/13 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/23/13 12:06	1
Trichloroethene	1.0	U	1.0		ug/L			01/23/13 12:06	1
Vinyl chloride	1.0	U	1.0		ug/L			01/23/13 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 130*		*01/23/13 12:06*	*1*
Dibromofluoromethane	*104*		*70 - 130*		*01/23/13 12:06*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/23/13 12:06*	*1*

Lab Sample ID: LCS 680-263698/23
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.9		ug/L		100	74 - 123
Bromoform	50.0	50.7		ug/L		101	60 - 134
Carbon tetrachloride	50.0	43.8		ug/L		88	70 - 131
Chlorobenzene	50.0	52.4		ug/L		105	79 - 120
Chlorodibromomethane	50.0	50.6		ug/L		101	63 - 134
Chloroethane	50.0	50.6		ug/L		101	47 - 148
Chloroform	50.0	50.8		ug/L		102	76 - 128
Chloromethane	50.0	52.3		ug/L		105	47 - 151
Dichlorobromomethane	50.0	44.2		ug/L		88	72 - 129
1,1-Dichloroethane	50.0	54.9		ug/L		110	69 - 132

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

Lab Sample ID: LCS 680-263698/23
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	43.5		ug/L		87	75 - 120
1,1-Dichloroethene	50.0	53.5		ug/L		107	73 - 134
1,2-Dichloropropane	50.0	49.1		ug/L		98	71 - 126
1,3-Dichloropropene, Total	100	93.6		ug/L		94	73 - 125
Ethylbenzene	50.0	53.0		ug/L		106	78 - 125
Methyl bromide	50.0	27.7		ug/L		55	10 - 171
Methylene Chloride	50.0	50.0		ug/L		100	79 - 124
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	71 - 127
Tetrachloroethene	50.0	51.5		ug/L		103	77 - 128
Toluene	50.0	50.3		ug/L		101	77 - 125
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	78 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	69 - 127
Trichloroethene	50.0	47.6		ug/L		95	80 - 120
Vinyl chloride	50.0	52.5		ug/L		105	58 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-263698/24
Matrix: Water
Analysis Batch: 263698

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.9		ug/L		100	74 - 123	0	30
Bromoform	50.0	52.1		ug/L		104	60 - 134	3	30
Carbon tetrachloride	50.0	44.5		ug/L		89	70 - 131	2	30
Chlorobenzene	50.0	53.7		ug/L		107	79 - 120	2	30
Chlorodibromomethane	50.0	52.5		ug/L		105	63 - 134	4	50
Chloroethane	50.0	51.2		ug/L		102	47 - 148	1	40
Chloroform	50.0	51.0		ug/L		102	76 - 128	0	30
Chloromethane	50.0	52.5		ug/L		105	47 - 151	0	30
Dichlorobromomethane	50.0	44.4		ug/L		89	72 - 129	0	30
1,1-Dichloroethane	50.0	55.1		ug/L		110	69 - 132	0	30
1,2-Dichloroethane	50.0	43.3		ug/L		87	75 - 120	1	30
1,1-Dichloroethene	50.0	53.7		ug/L		107	73 - 134	0	30
1,2-Dichloropropane	50.0	48.4		ug/L		97	71 - 126	1	30
1,3-Dichloropropene, Total	100	92.9		ug/L		93	73 - 125	1	50
Ethylbenzene	50.0	54.1		ug/L		108	78 - 125	2	30
Methyl bromide	50.0	28.9		ug/L		58	10 - 171	4	50
Methylene Chloride	50.0	50.3		ug/L		101	79 - 124	1	30
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	71 - 127	2	30
Tetrachloroethene	50.0	52.8		ug/L		106	77 - 128	3	30
Toluene	50.0	50.3		ug/L		101	77 - 125	0	30
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	78 - 130	0	30
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	76 - 126	0	30

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

Lab Sample ID: LCSD 680-263698/24 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	69 - 127	0	30
Trichloroethene	50.0	47.7		ug/L		95	80 - 120	0	30
Vinyl chloride	50.0	53.4		ug/L		107	58 - 141	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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Lab Sample ID: MB 680-263879/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	20	U	20		ug/L			01/24/13 12:10	1
Acrylonitrile	20	U	20		ug/L			01/24/13 12:10	1
Benzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Bromoform	1.0	U	1.0		ug/L			01/24/13 12:10	1
Carbon tetrachloride	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chlorobenzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chlorodibromomethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloroform	1.0	U	1.0		ug/L			01/24/13 12:10	1
Chloromethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Dichlorobromomethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,3-Dichloropropene, Total	2.0	U	2.0		ug/L			01/24/13 12:10	1
Ethylbenzene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Methyl bromide	1.0	U	1.0		ug/L			01/24/13 12:10	1
Methylene Chloride	5.0	U	5.0		ug/L			01/24/13 12:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Tetrachloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Toluene	1.0	U	1.0		ug/L			01/24/13 12:10	1
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			01/24/13 12:10	1
Trichloroethene	1.0	U	1.0		ug/L			01/24/13 12:10	1
Vinyl chloride	1.0	U	1.0		ug/L			01/24/13 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*70 - 130*		*01/24/13 12:10*	*1*
Dibromofluoromethane	*106*		*70 - 130*		*01/24/13 12:10*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/24/13 12:10*	*1*

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

Lab Sample ID: LCS 680-263879/4
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.9		ug/L		102	74 - 123
Bromoform	50.0	52.7		ug/L		105	60 - 134
Carbon tetrachloride	50.0	49.7		ug/L		99	70 - 131
Chlorobenzene	50.0	51.9		ug/L		104	79 - 120
Chlorodibromomethane	50.0	51.9		ug/L		104	63 - 134
Chloroethane	50.0	48.8		ug/L		98	47 - 148
Chloroform	50.0	50.8		ug/L		102	76 - 128
Chloromethane	50.0	55.3		ug/L		111	47 - 151
Dichlorobromomethane	50.0	47.5		ug/L		95	72 - 129
1,1-Dichloroethane	50.0	49.0		ug/L		98	69 - 132
1,2-Dichloroethane	50.0	41.4		ug/L		83	75 - 120
1,1-Dichloroethene	50.0	51.6		ug/L		103	73 - 134
1,2-Dichloropropane	50.0	52.6		ug/L		105	71 - 126
1,3-Dichloropropene, Total	100	93.2		ug/L		93	73 - 125
Ethylbenzene	50.0	52.8		ug/L		106	78 - 125
Methyl bromide	50.0	31.2		ug/L		62	10 - 171
Methylene Chloride	50.0	51.4		ug/L		103	79 - 124
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	71 - 127
Tetrachloroethene	50.0	53.0		ug/L		106	77 - 128
Toluene	50.0	45.7		ug/L		91	77 - 125
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	78 - 130
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	76 - 126
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	69 - 127
Trichloroethene	50.0	50.8		ug/L		102	80 - 120
Vinyl chloride	50.0	53.3		ug/L		107	58 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-263879/5
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.0		ug/L		102	74 - 123	0	30
Bromoform	50.0	47.8		ug/L		96	60 - 134	10	30
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 131	0	30
Chlorobenzene	50.0	52.1		ug/L		104	79 - 120	0	30
Chlorodibromomethane	50.0	49.1		ug/L		98	63 - 134	6	50
Chloroethane	50.0	46.4		ug/L		93	47 - 148	5	40
Chloroform	50.0	50.8		ug/L		102	76 - 128	0	30
Chloromethane	50.0	58.4		ug/L		117	47 - 151	5	30
Dichlorobromomethane	50.0	46.5		ug/L		93	72 - 129	2	30
1,1-Dichloroethane	50.0	48.3		ug/L		97	69 - 132	1	30
1,2-Dichloroethane	50.0	40.4		ug/L		81	75 - 120	3	30
1,1-Dichloroethene	50.0	53.0		ug/L		106	73 - 134	3	30

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

Lab Sample ID: LCSD 680-263879/5
Matrix: Water
Analysis Batch: 263879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	52.5		ug/L		105	71 - 126	0	30
1,3-Dichloropropene, Total	100	88.4		ug/L		88	73 - 125	5	50
Ethylbenzene	50.0	53.0		ug/L		106	78 - 125	0	30
Methyl bromide	50.0	40.9		ug/L		82	10 - 171	27	50
Methylene Chloride	50.0	50.4		ug/L		101	79 - 124	2	30
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	71 - 127	6	30
Tetrachloroethene	50.0	53.7		ug/L		107	77 - 128	1	30
Toluene	50.0	46.3		ug/L		93	77 - 125	1	30
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	78 - 130	0	30
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	76 - 126	1	30
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	69 - 127	3	30
Trichloroethene	50.0	51.1		ug/L		102	80 - 120	1	30
Vinyl chloride	50.0	55.8		ug/L		112	58 - 141	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC)

Lab Sample ID: MB 680-263047/5-A
Matrix: Water
Analysis Batch: 263388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
alpha-BHC	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
beta-BHC	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Chlordane (technical)	0.50	U	0.50		ug/L		01/17/13 15:01	01/19/13 15:18	1
4,4'-DDD	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
4,4'-DDE	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
4,4'-DDT	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Dieldrin	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Endosulfan I	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Endosulfan II	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Endosulfan sulfate	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Endrin	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Endrin aldehyde	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
gamma-BHC (Lindane)	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Heptachlor	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Heptachlor epoxide	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Kepone	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
Methoxychlor	0.050	U	0.050		ug/L		01/17/13 15:01	01/19/13 15:18	1
Mirex	0.25	U	0.25		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1016	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1221	2.0	U	2.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1232	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: MB 680-263047/5-A
Matrix: Water
Analysis Batch: 263388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1248	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1254	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
PCB-1260	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
Polychlorinated biphenyls, Total	1.0	U	1.0		ug/L		01/17/13 15:01	01/19/13 15:18	1
Toxaphene	5.0	U	5.0		ug/L		01/17/13 15:01	01/19/13 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*22 - 130*	*01/17/13 15:01*	*01/19/13 15:18*	*1*
DCB Decachlorobiphenyl	*35*		*22 - 130*	*01/17/13 15:01*	*01/19/13 15:18*	*1*
Tetrachloro-m-xylene	*68*		*53 - 130*	*01/17/13 15:01*	*01/19/13 15:18*	*1*
Tetrachloro-m-xylene	*69*		*53 - 130*	*01/17/13 15:01*	*01/19/13 15:18*	*1*

Lab Sample ID: LCS 680-263047/6-A
Matrix: Water
Analysis Batch: 263388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.100	0.0715		ug/L		71	14 - 168
alpha-BHC	0.100	0.0835		ug/L		83	43 - 138
beta-BHC	0.100	0.106		ug/L		106	38 - 158
4,4'-DDD	0.100	0.0836		ug/L		83	49 - 144
4,4'-DDE	0.100	0.0731		ug/L		73	46 - 144
4,4'-DDT	0.100	0.0720		ug/L		72	48 - 166
Dieldrin	0.100	0.0707		ug/L		71	61 - 136
Endosulfan I	0.100	0.0668		ug/L		67	52 - 141
Endosulfan II	0.100	0.0734		ug/L		73	60 - 140
Endosulfan sulfate	0.100	0.0837		ug/L		84	60 - 151
Endrin	0.100	0.050	U *	ug/L		17	66 - 150
Endrin aldehyde	0.100	0.107		ug/L		106	16 - 200
gamma-BHC (Lindane)	0.100	0.0818		ug/L		82	54 - 134
Heptachlor	0.100	0.050	U	ug/L		40	10 - 200
Heptachlor epoxide	0.100	0.0767		ug/L		77	49 - 142
Methoxychlor	0.100	0.050	U	ug/L		32	13 - 186

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*22 - 130*
DCB Decachlorobiphenyl	*51*		*22 - 130*
Tetrachloro-m-xylene	*74*		*53 - 130*
Tetrachloro-m-xylene	*77*		*53 - 130*

Lab Sample ID: LCS 680-263047/9-A
Matrix: Water
Analysis Batch: 263388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	10.0	7.99		ug/L		80	38 - 172
PCB-1260	10.0	4.64		ug/L		46	46 - 138

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: LCS 680-263047/9-A
Matrix: Water
Analysis Batch: 263388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263047

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*		*22 - 130*
DCB Decachlorobiphenyl	*39*		*22 - 130*
Tetrachloro-m-xylene	*78*		*53 - 130*
Tetrachloro-m-xylene	*81*		*53 - 130*

Lab Sample ID: 680-86553-1 MS
Matrix: Water
Analysis Batch: 264530

Client Sample ID: OUTFALL 003
Prep Type: Total/NA
Prep Batch: 263047

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Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.094	U	0.0985	0.098	U	ug/L		81	14 - 168
alpha-BHC	0.094	U	0.0985	0.098	U	ug/L		91	43 - 138
beta-BHC	0.094	U	0.0985	0.130		ug/L		132	38 - 158
4,4'-DDD	0.094	U	0.0985	0.098	U	ug/L		88	49 - 144
4,4'-DDE	0.094	U	0.0985	0.098	U	ug/L		71	46 - 144
4,4'-DDT	0.094	U	0.0985	0.098	U	ug/L		88	48 - 166
Dieldrin	0.094	U	0.0985	0.098	U	ug/L		89	61 - 136
Endosulfan I	0.094	U	0.0985	0.098	U	ug/L		90	52 - 141
Endosulfan II	0.094	U	0.0985	0.098	U	ug/L		95	60 - 140
Endosulfan sulfate	0.094	U	0.0985	0.098	U	ug/L		95	60 - 151
Endrin	0.094	U	0.0985	0.118		ug/L		119	66 - 150
Endrin aldehyde	0.094	U	0.0985	0.117		ug/L		119	16 - 200
gamma-BHC (Lindane)	0.094	U	0.0985	0.0982		ug/L		100	54 - 134
Heptachlor	0.094	U	0.0985	0.098	U	ug/L		93	10 - 200
Heptachlor epoxide	0.094	U	0.0985	0.098	U	ug/L		90	49 - 142
Methoxychlor	0.094	U	0.0985	0.098	U	ug/L		99	13 - 186

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*20*	*X*	*22 - 130*
DCB Decachlorobiphenyl	*19*	*X*	*22 - 130*
Tetrachloro-m-xylene	*68*		*53 - 130*
Tetrachloro-m-xylene	*64*		*53 - 130*

Lab Sample ID: 680-86553-1 MSD
Matrix: Water
Analysis Batch: 264530

Client Sample ID: OUTFALL 003
Prep Type: Total/NA
Prep Batch: 263047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.094	U	0.0942	0.094	U	ug/L		69	14 - 168	20	50
alpha-BHC	0.094	U	0.0942	0.094	U	ug/L		80	43 - 138	17	50
beta-BHC	0.094	U	0.0942	0.125		ug/L		133	38 - 158	4	50
4,4'-DDD	0.094	U	0.0942	0.094	U	ug/L		77	49 - 144	17	50
4,4'-DDE	0.094	U	0.0942	0.094	U	ug/L		59	46 - 144	23	50
4,4'-DDT	0.094	U	0.0942	0.094	U	ug/L		73	48 - 166	23	50
Dieldrin	0.094	U	0.0942	0.094	U	ug/L		76	61 - 136	20	50
Endosulfan I	0.094	U	0.0942	0.094	U	ug/L		76	52 - 141	21	50
Endosulfan II	0.094	U	0.0942	0.094	U	ug/L		83	60 - 140	18	50
Endosulfan sulfate	0.094	U	0.0942	0.094	U	ug/L		82	60 - 151	20	50

Method: 8081A_8082 - Organochlorine Pesticides & PCBs (GC) (Continued)

Lab Sample ID: 680-86553-1 MSD — **Client Sample ID: OUTFALL 003**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264530 — **Prep Batch: 263047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	0.094	U	0.0942	0.094	U	ug/L		89	66 - 150	34	50
Endrin aldehyde	0.094	U	0.0942	0.0979		ug/L		104	16 - 200	18	50
gamma-BHC (Lindane)	0.094	U	0.0942	0.094	U	ug/L		88	54 - 134	17	50
Heptachlor	0.094	U	0.0942	0.094	U	ug/L		81	10 - 200	17	50
Heptachlor epoxide	0.094	U	0.0942	0.094	U	ug/L		80	49 - 142	17	50
Methoxychlor	0.094	U	0.0942	0.094	U	ug/L		75	13 - 186	32	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*10*	*X*	*22 - 130*
DCB Decachlorobiphenyl	*10*	*X*	*22 - 130*
Tetrachloro-m-xylene	*65*		*53 - 130*
Tetrachloro-m-xylene	*60*		*53 - 130*

Lab Sample ID: 680-86553-2 MS — **Client Sample ID: OUTFALL 004**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263388 — **Prep Batch: 263047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.99	U	9.79	8.33		ug/L		85	38 - 172
PCB-1260	0.99	U	9.79	8.37		ug/L		85	46 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*22 - 130*
DCB Decachlorobiphenyl	*87*		*22 - 130*
Tetrachloro-m-xylene	*76*		*53 - 130*
Tetrachloro-m-xylene	*79*		*53 - 130*

Lab Sample ID: 680-86553-2 MSD — **Client Sample ID: OUTFALL 004**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263388 — **Prep Batch: 263047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.99	U	9.10	8.04		ug/L		88	38 - 172	4	50
PCB-1260	0.99	U	9.10	8.18		ug/L		90	46 - 138	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*22 - 130*
DCB Decachlorobiphenyl	*91*		*22 - 130*
Tetrachloro-m-xylene	*82*		*53 - 130*
Tetrachloro-m-xylene	*86*		*53 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-263327/1-A
Matrix: Water
Analysis Batch: 263524

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 263327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Arsenic	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Cadmium	5.0	U	5.0		ug/L		01/19/13 09:40	01/21/13 19:25	1
Chromium	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Copper	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Lead	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Nickel	40	U	40		ug/L		01/19/13 09:40	01/21/13 19:25	1
Selenium	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1
Silver	10	U	10		ug/L		01/19/13 09:40	01/21/13 19:25	1
Thallium	25	U	25		ug/L		01/19/13 09:40	01/21/13 19:25	1
Zinc	20	U	20		ug/L		01/19/13 09:40	01/21/13 19:25	1

Lab Sample ID: LCS 680-263327/2-A
Matrix: Water
Analysis Batch: 263524

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 263327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.8		ug/L		98	75 - 125
Arsenic	100	105		ug/L		105	75 - 125
Cadmium	50.0	51.9		ug/L		104	75 - 125
Chromium	100	104		ug/L		104	75 - 125
Copper	100	104		ug/L		104	75 - 125
Lead	50.0	52.1		ug/L		104	75 - 125
Nickel	100	103		ug/L		103	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Silver	50.0	50.9		ug/L		102	75 - 125
Thallium	40.0	39.1		ug/L		98	75 - 125
Zinc	100	107		ug/L		107	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-263102/1-A
Matrix: Water
Analysis Batch: 263401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/17/13 12:11	01/19/13 13:21	1

Lab Sample ID: LCS 680-263102/2-A
Matrix: Water
Analysis Batch: 263401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 680-263431/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263535 — **Prep Batch: 263431**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/21/13 11:28	01/21/13 17:52	1

Lab Sample ID: LCS 680-263431/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263535 — **Prep Batch: 263431**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.47		ug/L		99	80 - 120

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Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 680-264926/21 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	5.0	U	5.0		mg/L			02/04/13 08:15	1

Lab Sample ID: LCS 680-264926/22 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	39.4		mg/L		99	78 - 114

Lab Sample ID: LCSD 680-264926/23 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264926

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	36.8		mg/L		92	78 - 114	7	18

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-264301/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264369 — **Prep Batch: 264301**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.20	U	0.20		mg/L		01/28/13 15:00	01/29/13 12:37	1

Lab Sample ID: LCS 680-264301/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264369 — **Prep Batch: 264301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.00	2.21		mg/L		110	75 - 125

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-263068/13
Matrix: Water
Analysis Batch: 263068

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U ^	0.050		mg/L			01/16/13 16:22	1
Nitrite as N	0.050	U	0.050		mg/L			01/16/13 16:22	1

Lab Sample ID: LCS 680-263068/14
Matrix: Water
Analysis Batch: 263068

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.500	0.499		mg/L		100	90 - 110

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Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-264301/2-A
Matrix: Water
Analysis Batch: 264368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 264301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10		mg/L		01/28/13 15:00	01/29/13 12:37	1

Lab Sample ID: LCS 680-264301/1-A
Matrix: Water
Analysis Batch: 264368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.21		mg/L		111	60 - 140

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 680-263012/2
Matrix: Water
Analysis Batch: 263012

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	0.010	U	0.010		mg/L			01/16/13 10:55	1
Cr (VI)	0.010	U	0.010		mg/L			01/16/13 10:55	1

Lab Sample ID: LCS 680-263012/1
Matrix: Water
Analysis Batch: 263012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.200	0.190		mg/L		95	85 - 115
Cr (VI)	0.200	0.190		mg/L		95	85 - 115

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 680-263795/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263905 — **Prep Batch: 263795**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010		mg/L		01/24/13 07:00	01/24/13 14:15	1

Lab Sample ID: LCS 680-263795/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263905 — **Prep Batch: 263795**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0484		mg/L		97	85 - 115

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Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-264342/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U	1.0		mg/L			01/28/13 17:33	1

Lab Sample ID: LCS 680-264342/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	20.8		mg/L		104	80 - 120

Lab Sample ID: 680-86553-1 MS — **Client Sample ID: OUTFALL 003**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	8.4		20.0	28.8		mg/L		102	80 - 120

Lab Sample ID: 680-86553-1 MSD — **Client Sample ID: OUTFALL 003**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 264342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	8.4		20.0	28.5		mg/L		101	80 - 120	1	25

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 680-263541/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263621 — **Prep Batch: 263541**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.050	U	0.050		mg/L		01/22/13 10:40	01/22/13 12:21	1

Method: SM 4500 NH3 G - Ammonia (Continued)

Lab Sample ID: LCS 680-263541/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263621 — **Prep Batch: 263541**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.989		mg/L		99	90 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 680-263006/1 USB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263006

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0		mg/L			01/16/13 17:47	1

Lab Sample ID: LCS 680-263006/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	178		mg/L		90	85 - 115

Lab Sample ID: LCSD 680-263006/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 263006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	175		mg/L		88	85 - 115	2	30

QC Association Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

GC/MS VOA

Analysis Batch: 263698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-3	TRIP BLANK	Total/NA	Water	8260B	
LCS 680-263698/23	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-263698/24	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-263698/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 263879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	8260B	
LCS 680-263879/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-263879/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-263879/6	Method Blank	Total/NA	Water	8260B	

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GC Semi VOA

Prep Batch: 263047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	3520C	
680-86553-1 MS	OUTFALL 003	Total/NA	Water	3520C	
680-86553-1 MSD	OUTFALL 003	Total/NA	Water	3520C	
680-86553-2	OUTFALL 004	Total/NA	Water	3520C	
680-86553-2 MS	OUTFALL 004	Total/NA	Water	3520C	
680-86553-2 MSD	OUTFALL 004	Total/NA	Water	3520C	
LCS 680-263047/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-263047/9-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-263047/5-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 263388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	8081A_8082	263047
680-86553-2 MS	OUTFALL 004	Total/NA	Water	8081A_8082	263047
680-86553-2 MSD	OUTFALL 004	Total/NA	Water	8081A_8082	263047
LCS 680-263047/6-A	Lab Control Sample	Total/NA	Water	8081A_8082	263047
LCS 680-263047/9-A	Lab Control Sample	Total/NA	Water	8081A_8082	263047
MB 680-263047/5-A	Method Blank	Total/NA	Water	8081A_8082	263047

Analysis Batch: 264530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	8081A_8082	263047
680-86553-1 MS	OUTFALL 003	Total/NA	Water	8081A_8082	263047
680-86553-1 MSD	OUTFALL 003	Total/NA	Water	8081A_8082	263047

Metals

Prep Batch: 263102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Dissolved	Water	7470A	
LCS 680-263102/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-263102/1-A	Method Blank	Total/NA	Water	7470A	

QC Association Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Metals (Continued)

Prep Batch: 263327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	3005A	
680-86553-2	OUTFALL 004	Dissolved	Water	3005A	
LCS 680-263327/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-263327/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 263401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Dissolved	Water	7470A	263102
LCS 680-263102/2-A	Lab Control Sample	Total/NA	Water	7470A	263102
MB 680-263102/1-A	Method Blank	Total/NA	Water	7470A	263102

Prep Batch: 263431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	7470A	
LCS 680-263431/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-263431/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 263524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	6010B	263327
680-86553-2	OUTFALL 004	Dissolved	Water	6010B	263327
LCS 680-263327/2-A	Lab Control Sample	Total Recoverable	Water	6010B	263327
MB 680-263327/1-A	Method Blank	Total Recoverable	Water	6010B	263327

Analysis Batch: 263535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	7470A	263431
LCS 680-263431/2-A	Lab Control Sample	Total/NA	Water	7470A	263431
MB 680-263431/1-A	Method Blank	Total/NA	Water	7470A	263431

General Chemistry

Analysis Batch: 263006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	SM 5210B	
680-86553-2	OUTFALL 004	Total/NA	Water	SM 5210B	
LCS 680-263006/2	Lab Control Sample	Total/NA	Water	SM 5210B	
LCSD 680-263006/3	Lab Control Sample Dup	Total/NA	Water	SM 5210B	
USB 680-263006/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 263012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	7196A	
680-86553-2	OUTFALL 004	Dissolved	Water	7196A	
LCS 680-263012/1	Lab Control Sample	Total/NA	Water	7196A	
MB 680-263012/2	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 263068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 263068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-263068/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-263068/13	Method Blank	Total/NA	Water	353.2	

Prep Batch: 263541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	SM 4500 NH3 B	
LCS 680-263541/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MB 680-263541/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 263621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	SM 4500 NH3 G	263541
LCS 680-263541/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 G	263541
MB 680-263541/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 G	263541

Prep Batch: 263795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	9012A	
680-86553-2	OUTFALL 004	Total/NA	Water	9012A	
LCS 680-263795/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 680-263795/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 263905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	9012A	263795
680-86553-2	OUTFALL 004	Total/NA	Water	9012A	263795
LCS 680-263795/2-A	Lab Control Sample	Total/NA	Water	9012A	263795
MB 680-263795/1-A	Method Blank	Total/NA	Water	9012A	263795

Analysis Batch: 264157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Dissolved	Water	7196A	
680-86553-2	OUTFALL 004	Dissolved	Water	7196A	

Prep Batch: 264301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	Digestion	
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-264301/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 264342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	9060	
680-86553-1 MS	OUTFALL 003	Total/NA	Water	9060	
680-86553-1 MSD	OUTFALL 003	Total/NA	Water	9060	
680-86553-2	OUTFALL 004	Total/NA	Water	9060	
LCS 680-264342/4	Lab Control Sample	Total/NA	Water	9060	
MB 680-264342/2	Method Blank	Total/NA	Water	9060	

QC Association Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

General Chemistry (Continued)

Analysis Batch: 264368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	365.4	264301
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	365.4	264301
MB 680-264301/2-A	Method Blank	Total/NA	Water	365.4	264301

Analysis Batch: 264369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-2	OUTFALL 004	Total/NA	Water	351.2	264301
LCS 680-264301/1-A	Lab Control Sample	Total/NA	Water	351.2	264301
MB 680-264301/2-A	Method Blank	Total/NA	Water	351.2	264301

Analysis Batch: 264926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86553-1	OUTFALL 003	Total/NA	Water	1664A	
680-86553-2	OUTFALL 004	Total/NA	Water	1664A	
LCS 680-264926/22	Lab Control Sample	Total/NA	Water	1664A	
LCSD 680-264926/23	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 680-264926/21	Method Blank	Total/NA	Water	1664A	

Lab Chronicle

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: OUTFALL 003

Date Collected: 01/15/13 12:50
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			263047	01/17/13 15:01	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		2	264530	01/19/13 07:04	JK	TAL SAV
Dissolved	Prep	3005A			263327	01/19/13 10:14	JKL	TAL SAV
Dissolved	Analysis	6010B		1	263524	01/21/13 21:59	BCB	TAL SAV
Dissolved	Prep	7470A			263431	01/21/13 11:28	UU	TAL SAV
Dissolved	Analysis	7470A		1	263535	01/21/13 18:07	BCB	TAL SAV
Total/NA	Analysis	SM 5210B		1	263006	01/16/13 17:47	TAR	TAL SAV
Dissolved	Analysis	7196A		1	263012	01/16/13 11:34	JNC	TAL SAV
Total/NA	Prep	9012A			263795	01/24/13 07:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1	263905	01/24/13 14:30	DAM	TAL SAV
Dissolved	Analysis	7196A		1	264157	01/28/13 09:57	JR	TAL SAV
Total/NA	Analysis	9060		1	264342	01/28/13 18:28	JR	TAL SAV
Total/NA	Analysis	1664A		1	264926	02/04/13 08:15	JS	TAL SAV

Client Sample ID: OUTFALL 004

Date Collected: 01/15/13 13:20
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	263879	01/24/13 17:56	JD	TAL SAV
Total/NA	Prep	3520C			263047	01/17/13 15:01	RBS	TAL SAV
Total/NA	Analysis	8081A_8082		1	263388	01/19/13 17:43	JK	TAL SAV
Dissolved	Prep	7470A			263102	01/17/13 12:11	UU	TAL SAV
Dissolved	Analysis	7470A		1	263401	01/19/13 13:50	BCB	TAL SAV
Dissolved	Prep	3005A			263327	01/19/13 09:40	JKL	TAL SAV
Dissolved	Analysis	6010B		1	263524	01/21/13 21:53	BCB	TAL SAV
Total/NA	Analysis	SM 5210B		1	263006	01/16/13 17:47	TAR	TAL SAV
Dissolved	Analysis	7196A		1	263012	01/16/13 11:34	JNC	TAL SAV
Total/NA	Analysis	353.2		100	263068	01/16/13 16:34	RW	TAL SAV
Total/NA	Prep	SM 4500 NH3 B			263541	01/22/13 10:40	RW	TAL SAV
Total/NA	Analysis	SM 4500 NH3 G		5	263621	01/22/13 12:30	RW	TAL SAV
Total/NA	Prep	9012A			263795	01/24/13 07:00	DAM	TAL SAV
Total/NA	Analysis	9012A		1	263905	01/24/13 14:31	DAM	TAL SAV
Dissolved	Analysis	7196A		1	264157	01/28/13 09:57	JR	TAL SAV
Total/NA	Analysis	9060		1	264342	01/28/13 19:20	JR	TAL SAV
Total/NA	Prep	Digestion			264301	01/28/13 15:00	AJO	TAL SAV
Total/NA	Analysis	365.4		1	264368	01/29/13 12:49	JR	TAL SAV
Total/NA	Analysis	351.2		10	264369	01/29/13 13:37	JR	TAL SAV
Total/NA	Analysis	1664A		1	264926	02/04/13 08:15	JS	TAL SAV

Lab Chronicle

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Client Sample ID: TRIP BLANK

Date Collected: 01/15/13 00:00
Date Received: 01/16/13 10:20

Lab Sample ID: 680-86553-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	263698	01/23/13 16:53	JD	TAL SAV

Laboratory References:

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

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: SAVANNAH, GEORGIA
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: CARDNO ATC	Client Project Manager: ERIC SHERTZER	Site Contact: DUKE McBROOM	Lab Contact: SHELIA HOFFMAN	COC No:
Address: 211 EXPRESSWAY COURT	Telephone: (757) 467 2100	Telephone: (540) 775 2985	Telephone:	____ of ____ COCs
City/State/Zip: VIRGINIA BEACH, VIRGINIA 23462	Email: ERIC.SHERTZER@CARDNO.COM	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: (757) 467 2100		TAT if different from below ____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: CPS SEALSTON	Method of Shipment/Carrier:			
Project Number: 90.38083.0070	Shipping/Tracking No:			Job/SDG No:
PO #				

Analyses: 6010B 9470A, 9060, 353.2, 351.2, 5m4500NH3, 1664 O+G, 1664 O+G, ph on site

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite C/Grab G	6010B 9470A	9060	353.2	351.2	5m4500NH3	1664 O+G	1664 O+G	ph on site			Sample Specific Notes / Special Instructions:
OUT Fall 004	1-15-13	1:20pm		X					X						Y	G	X										
										X								X									
								X											X								
								X												X							
								X													X						
								X														X					
								X															X				

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: Per client additional analysis required for 004: BOD, Total phosphorus volatiles, cyanide 4.8°C 680-86553 SBH, 1/17/13

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Steve Gray	CPS	1-15-13 1:30pm			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA SV	Date/Time: 1/16/13 1020

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TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Savannah Georgia
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Cardno ATC	Client Project Manager: Eric Shertzer	Site Contact: Duke McBroom	Lab Contact: Shelia Hoffman
Address: 211 Expressway Court	Telephone: (757) 407-2100	Telephone: (540) 775-2985	Telephone:
City/State/Zip: Virginia Beach, VA 23462	Email: eric.shertzer@cardno.com		
Phone: (757) 407-2100			
Project Name: CPS Sealston	Method of Shipment/Carrier:		
Project Number: 90.38083.0090	Shipping/Tracking No:		
PO #			

COC No: ____ of ____ COCs

Analysis Turnaround Time (in BUS days)
TAT if different from below
☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only
Walk-in client: ☐
Lab pickup: ☐
Lab sampling: ☐
Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite-C/Grab-G	8270C	8270C	8081A-8082	8081A-8082	6010B	9012A	7196A	1664A-NP	1664A-NP	9060-TOC	Sample Specific Notes / Special Instructions:
OUTFall 003	1/15/13	1250		X									X			G	X										
	GKL 1/16/13																	X									
																			X								
															4					X							
									X												X						
											X											X				
													X										X			
								X																X		
																									X	
										X																X

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:
Per client additional analysis required: BOD, ~~NO3~~ Mercury 8260. Did not receive for outfall 003 vials for method 8260, SGH, 1/17/13 4.1°C 630-36553

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [illegible]	Company: TA SV	Date/Time: 1/16/13 1020

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TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Savannah Georgia
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardno ATC	Client Project Manager: Eric Shertzer	Site Contact: Duke McBroom	Lab Contact: Shelia Hoffman	COC No:
Address: 211 Expressway Court	Telephone: (757) 469-2100	Telephone: (540) 775-2985	Telephone:	____ of ____ COCs
City/State/Zip: Virginia Beach, Va. 23462	Email: Eric.Shertzer@Cardno.com	Analysis Turnaround Time (In BUS days)		For lab use only
Phone: (757) 469-2100		TAT if different from below ____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: CPS Sealston	Method of Shipment/Carrier:			
Project Number: 90.38083.0090	Shipping/Tracking No:			Job/SDG No:
PO #				

Analyses

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite-C/Grab-G	9196A	353.2	8081A 8082	8081A 8082	8270C	8270C			Phonsite	7.61	Sample Specific Notes / Special Instructions:
OUT Fall 004	1-15-13	1:20pm		X									X			G	X										
																		X									
																			X								
																				X							
																					X						
																						X					

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

4.8°C 680-86553

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Steve Gray	CPS	1-15-13 130pm			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAW	Date/Time: 1/16/13 1010

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TAL-0018 (1008)

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2/15/2013

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Eric Shertzer	Site Contact: Stephen Gray	Date: 1-15-13	COC No:
CPS Sealston Facility	Tel/Fax: 757-467-2180 / 9173	Lab Contact: Shelia Hoffman	Carrier:	____ of ____ COCs
2453 Birchwood Creek	Analysis Turnaround Time			Job No.
Sealston, VA 22547	Calendar (C) or Work Days (W) ___W___			
540-775-2985 Phone	TAT if different from Below _____			
540-775-3202 FAX	■ 2 weeks			SDG No.
Project Name: Sealston VA DMR	☐ 1 week			
Site: CPS Sealston Facility	☐ 2 days			
PO#	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	DOD 5210B	Sample Specific Notes:
002 Out Fall	1-15-13	12:30 pm	StormW	W	3		x	
003 Out Fall	1-15-13	12:50 pm	StormW	W	3		x	680-816553
004 Out Fall	1-15-13	1:20 pm	StormW	W	3		x	680-816553
	SB	SB						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
■ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

4.8°

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Stephen Gray	Crop Production	1-15-13 1:30 pm	[illegible]	[illegible]	1/16/13 1020
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Cardno ATC

Job Number: 680-86553-1

Login Number: 86553
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	TRIP BLANK -- NO LOT #
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Certification Summary

Client: Cardno ATC
Project/Site: CPS Sealston

TestAmerica Job ID: 680-86553-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

UNIVERSAL LABORATORIES

REPORT OF ANALYSIS

Order ID: 1211159

(REPORT DATE)
03-Feb-13

TO: Cardno ATC
211 Expressway Court

Virginia Beach VA 23462

ATTN: Eric Shertzer

FaxNumber: (757) 467-9178
E-MAIL

This report contains the analytical results for Project Id N/A
designated as UL Order Id **1211159** and received on *Tuesday, January 15, 2013*
The results contained in this report relate only to the samples identified on this order. The analytical results meet all requirements of NELAC unless specifically stated. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by:

Carol Kleemeier — Signature
Carol Kleemeier — Name
Pres/Tech Director — Title

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-001	Sample Site:	OF-004
Grab Date/Time:	1/15/2013 13:20:00	Client Sample ID:	OF-004
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
GC/FPD						
TBT Tributyltin	<30	ng/l	30	1/23/2013 01:28:00	HAM	
IDEXX-Colilert						
E-Coli	>2420	mpn/100ml	1	1/15/2013 15:35:00	FRED	
SM-4500 S2/E						
Sulfide	<0.5	mg/L	0.5	1/18/2013 14:10:00	HAM	
SW-846 8270 D						
1,2,4,5-Tetrachlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,2,4-Trichlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,2-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,3,5-Trinitrobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,3-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,4-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,4-Dinitrobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1,4-Naphthoquinone	<5	ug/L	5	1/29/2013 01:13:00	HAM	
1-Naphthylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,3,4,6-Tetrachlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4,5-Trichlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4,6-Trichlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4-Dichlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4-Dimethylphenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4-Dinitrophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,4-Dinitrotoluene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,6-Dichlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2,6-Dinitrotoluene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Acetylaminofluorene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Chloronaphthalene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Chlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Methyl-4,6-dinitrophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Methylnaphthalene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Naphthylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Nitroaniline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
2-Nitrophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-001	Sample Site:	OF-004
Grab Date/Time:	1/15/2013 13:20:00	Client Sample ID:	OF-004
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
2-Picoline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
3,3'-Dichlorobenzidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
3,3'-Dimethylbenzidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
3-Methylcholanthrene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
3-Nitroaniline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Aminobiphenyl	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Bromophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Chloro-3-methylphenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Chloroaniline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Chlorophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Nitroaniline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
4-Nitrophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
5-Nitro-o-toluidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
7,12-Dimethylbenz(a)anthracene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
a,a-Dimethylphenethylamine	nr	ug/L	5	1/29/2013 01:13:00	HAM	
Acenaphthene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Acenaphthylene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Acetophenone	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Aniline	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Anthracene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Azobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzo (A) Anthracene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzo (A) Pyrene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzo (B) Fluoranthene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzo (GHI) Perylene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzo (K) Fluoranthene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Benzyl Alcohol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Bis(2-Chloroethoxy) Methane	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Bis(2-chloroethyl) Ether	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Bis(2-chloroisopropyl) Ether	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Bis(2-ethylhexyl) Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number 1211159-001
Grab Date/Time: 1/15/2013 13:20:00
Composite Start: N/A
Composite Stop: N/A
Collected By: Client

Sample Site: OF-004
Client Sample ID: OF-004
Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
Butyl Benzyl Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	
Chlorobenzilate	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Chrysene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Di-n-butyl Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	
Di-n-octyl Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	
Diallate 1	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Dibenzo(a,h)anthracene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Dibenzofuran	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Diethyl Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	
Dimethyl Phthalate	<10	ug/L	10	1/29/2013 01:13:00	HAM	
Ethyl Methanesulfonate	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Fluoranthene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Fluorene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Hexachlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Hexachlorobutadiene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Hexachlorocyclopentadiene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Hexachloroethane	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Hexachloropropene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Indeno(1,2,3-cd)pyrene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Isodrin	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Isophorone	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Isosafrole	<5	ug/L	5	1/29/2013 01:13:00	HAM	
m&p-Cresol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Methapyrilene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Methyl Methanesulfonate	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-Nitroso-di-n-butylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-Nitroso-di-n-propylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-nitrosodiethylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-Nitrosodimethylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-Nitrosodiphenylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-nitrosomethylethylamine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
N-Nitrosopiperidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number 1211159-001

Grab Date/Time: 1/15/2013 13:20:00

Composite Start: N/A

Composite Stop: N/A

Collected By: Client

Sample Site: OF-004

Client Sample ID: OF-004

Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
N-nitrosopyrrolidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Naphthalene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Nitrobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
o-Cresol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
o-Toluidine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pentachlorobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pentachloronitrobenzene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pentachlorophenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Phenacetin	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Phenanthrene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Phenol	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pronamide	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pyrene	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Pyridine	<5	ug/L	5	1/29/2013 01:13:00	HAM	
Safrole	<5	ug/L	5	1/29/2013 01:13:00	HAM	

Comments for 1211159-001

No comments

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-002	Sample Site:	OF-002
Grab Date/Time:	1/15/2013 12:30:00	Client Sample ID:	OF-002
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
GC/FPD						
TBT Tributyltin	<30	ng/l	30	1/23/2013 01:56:00	HAM	
IDEXX-Colilert						
E-Coli	>2420	mpn/100ml	1	1/15/2013 15:35:00	FRED	
SM-4500 S2/E						
Sulfide	<0.5	mg/L	0.5	1/18/2013 14:10:00	HAM	
SW-846 8270 D						
1,2,4,5-Tetrachlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,2,4-Trichlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,2-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,3,5-Trinitrobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,3-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,4-Dichlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,4-Dinitrobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1,4-Naphthoquinone	<5	ug/L	5	1/29/2013 01:44:00	HAM	
1-Naphthylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,3,4,6-Tetrachlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4,5-Trichlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4,6-Trichlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4-Dichlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4-Dimethylphenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4-Dinitrophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,4-Dinitrotoluene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,6-Dichlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2,6-Dinitrotoluene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Acetylaminofluorene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Chloronaphthalene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Chlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Methyl-4,6-dinitrophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Methylnaphthalene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Naphthylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Nitroaniline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
2-Nitrophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-002	Sample Site:	OF-002
Grab Date/Time:	1/15/2013 12:30:00	Client Sample ID:	OF-002
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
2-Picoline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
3,3'-Dichlorobenzidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
3,3'-Dimethylbenzidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
3-Methylcholanthrene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
3-Nitroaniline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Aminobiphenyl	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Bromophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Chloro-3-methylphenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Chloroaniline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Chlorophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Nitroaniline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
4-Nitrophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
5-Nitro-o-toluidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
7,12-Dimethylbenz(a)anthracene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
a,a-Dimethylphenethylamine	nr	ug/L	5	1/29/2013 01:44:00	HAM	
Acenaphthene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Acenaphthylene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Acetophenone	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Aniline	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Anthracene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Azobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzo (A) Anthracene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzo (A) Pyrene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzo (B) Fluoranthene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzo (GHI) Perylene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzo (K) Fluoranthene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Benzyl Alcohol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Bis(2-Chloroethoxy) Methane	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Bis(2-chloroethyl) Ether	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Bis(2-chloroisopropyl) Ether	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Bis(2-ethylhexyl) Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-002	Sample Site:	OF-002
Grab Date/Time:	1/15/2013 12:30:00	Client Sample ID:	OF-002
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
Butyl Benzyl Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	
Chlorobenzilate	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Chrysene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Di-n-butyl Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	
Di-n-octyl Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	
Diallate 1	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Dibenzo(a,h)anthracene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Dibenzofuran	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Diethyl Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	
Dimethyl Phthalate	<10	ug/L	10	1/29/2013 01:44:00	HAM	
Ethyl Methanesulfonate	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Fluoranthene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Fluorene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Hexachlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Hexachlorobutadiene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Hexachlorocyclopentadiene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Hexachloroethane	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Hexachloropropene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Indeno(1,2,3-cd)pyrene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Isodrin	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Isophorone	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Isosafrole	<5	ug/L	5	1/29/2013 01:44:00	HAM	
m&p-Cresol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Methapyrilene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Methyl Methanesulfonate	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-Nitroso-di-n-butylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-Nitroso-di-n-propylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-nitrosodiethylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-Nitrosodimethylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-Nitrosodiphenylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-nitrosomethylethylamine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
N-Nitrosopiperidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number 1211159-002

Grab Date/Time: 1/15/2013 12:30:00
Composite Start: N/A
Composite Stop: N/A
Collected By: Client

Sample Site: OF-002
Client Sample ID: OF-002
Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
N-nitrosopyrrolidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Naphthalene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Nitrobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
o-Cresol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
o-Toluidine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pentachlorobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pentachloronitrobenzene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pentachlorophenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Phenacetin	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Phenanthrene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Phenol	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pronamide	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pyrene	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Pyridine	<5	ug/L	5	1/29/2013 01:44:00	HAM	
Safrole	<5	ug/L	5	1/29/2013 01:44:00	HAM	

Comments for 1211159-002
No comments

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number 1211159-003	Sample Site: OF-003
Grab Date/Time: 1/15/2013 12:50:00	Client Sample ID: OF-003
Composite Start: N/A	Sample Matrix: Stormwater
Composite Stop: N/A	
Collected By: Client	

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
GC/FPD						
TBT Tributyltin	<30	ng/l	30	1/23/2013 02:25:00	HAM	
SM-4500 S2/E						
Sulfide	<0.5	mg/L	0.5	1/18/2013 14:10:00	HAM	
SW-846 8270 D						
1,2,4,5-Tetrachlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,2,4-Trichlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,2-Dichlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,3,5-Trinitrobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,3-Dichlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,4-Dichlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,4-Dinitrobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1,4-Naphthoquinone	<5	ug/L	5	1/29/2013 02:14:00	HAM	
1-Naphthylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,3,4,6-Tetrachlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4,5-Trichlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4,6-Trichlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4-Dichlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4-Dimethylphenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4-Dinitrophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,4-Dinitrotoluene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,6-Dichlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2,6-Dinitrotoluene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Acetylaminofluorene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Chloronaphthalene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Chlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Methyl-4,6-dinitrophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Methylnaphthalene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Naphthylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Nitroaniline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Nitrophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
2-Picoline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
3,3'-Dichlorobenzidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-003	**Sample Site:**	OF-003
Grab Date/Time:	1/15/2013 12:50:00	Client Sample ID:	OF-003
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
3,3'-Dimethylbenzidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
3-Methylcholanthrene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
3-Nitroaniline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Aminobiphenyl	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Bromophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Chloro-3-methylphenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Chloroaniline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Chlorophenyl Phenyl Ether	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Nitroaniline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
4-Nitrophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
5-Nitro-o-toluidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
7,12-Dimethylbenz(a)anthracene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
a,a-Dimethylphenethylamine	nr	ug/L	5	1/29/2013 02:14:00	HAM	
Acenaphthene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Acenaphthylene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Acetophenone	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Aniline	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Anthracene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Azobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzo (A) Anthracene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzo (A) Pyrene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzo (B) Fluoranthene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzo (GHI) Perylene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzo (K) Fluoranthene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Benzyl Alcohol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Bis(2-Chloroethoxy) Methane	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Bis(2-chloroethyl) Ether	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Bis(2-chloroisopropyl) Ether	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Bis(2-ethylhexyl) Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Butyl Benzyl Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Chlorobenzilate	<5	ug/L	5	1/29/2013 02:14:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number 1211159-003

Grab Date/Time: 1/15/2013 12:50:00
Composite Start: N/A
Composite Stop: N/A
Collected By: Client

Sample Site: OF-003
Client Sample ID: OF-003
Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
Chrysene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Di-n-butyl Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Di-n-octyl Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Diallate 1	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Dibenzo(a,h)anthracene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Dibenzofuran	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Diethyl Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Dimethyl Phthalate	<10	ug/L	10	1/29/2013 02:14:00	HAM	
Ethyl Methanesulfonate	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Fluoranthene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Fluorene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Hexachlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Hexachlorobutadiene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Hexachlorocyclopentadiene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Hexachloroethane	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Hexachloropropene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Indeno(1,2,3-cd)pyrene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Isodrin	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Isophorone	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Isosafrole	<5	ug/L	5	1/29/2013 02:14:00	HAM	
m&p-Cresol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Methapyrilene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Methyl Methanesulfonate	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-Nitroso-di-n-butylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-Nitroso-di-n-propylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-nitrosodiethylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-Nitrosodimethylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-Nitrosodiphenylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-nitrosomethylethylamine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-Nitrosopiperidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
N-nitrosopyrrolidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Naphthalene	<5	ug/L	5	1/29/2013 02:14:00	HAM	

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

UL Sample Number	1211159-003	**Sample Site:**	OF-003
Grab Date/Time:	1/15/2013 12:50:00	Client Sample ID:	OF-003
Composite Start:	N/A	Sample Matrix:	Stormwater
Composite Stop:	N/A		
Collected By:	Client		

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
Nitrobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
o-Cresol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
o-Toluidine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pentachlorobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pentachloronitrobenzene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pentachlorophenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Phenacetin	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Phenanthrene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Phenol	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pronamide	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pyrene	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Pyridine	<5	ug/L	5	1/29/2013 02:14:00	HAM	
Safrole	<5	ug/L	5	1/29/2013 02:14:00	HAM	

Comments for 1211159-003

No comments

ANALYTICAL DATA REPORT

UL ORDER ID 1211159

Analytical Methods Reference

VDEH Lab# 00030 (Hampton) VDEH Lab# 00065 (Fredericksburg) NCWW Lab # 543 (Hampton)
NCDW Lab # 51706 (Hampton) VELAP ID 460036 (Hampton) VELAP ID 460164 (Fredericksburg

Description:	Prep Method:	Method	Reference	accredited/status
Field Services				
Shipping charges		Manual		
Stormwater				
Semi-Volatile Organic Compounds	SW-846 3510	SW-846 8270 D	3rd Edition	Accredited
IDEXX ES E-coli test		IDEXX-Colifert	40 CFR part 136 App. A	
Sulfide		SM-4500 S2/E	18th Edition	
TributylTin	liq/liq	GC/FPD		Accredited

NOTE: Analysis is performed according to Universal Laboratories Standard Operating Procedures which are based on the analytical methods referenced above

GLOSSARY OF TERMS AND ABBREVIATIONS

RL (Reporting Limit): The minimum levels, concentrations, or quantities of target analyte that can be reported with a specified degreee of confidence.Generally this number is near or equal to the lowest calibration standard run with the analytical batch.

MDL (Method Detection Limit): The constituent concentration that, when processed through the complete method, produces a signal with a 99% probability that it is different from the blank.

LCS (Laboratory Control Sample): is a sample matrix free from the analytes of interest, spiked with verified amounts of analytes.

MS (Matrix Spike): a sample prepared by adding a known mass of target analyte to a specific amount of sample for which an independant estimate of target analyte concentration is available.

MSD (Matrix Spike Duplicate): is a replicate matrix spike prepared in the laboratory and anlyzed to obtain a measure of the precision recovery for each analtye.

Surrogate is a substance with properties that mimic the analyte of interest.It is unlikely to be found in environmental samples and is added to them for quality control purposes

IS (Internal Standard): is a known amount of standard added to a test portion of the sample as a reference for evaluation and controlling the precsion and bias of the applied analytical method.
RPD (Relative Percent Difference) is the difference between a set of sample duplicates or sample spike duplicates

ICV (Initial Calibration Verification) CCV (Continuing Calibration Verification) FCV (Final Calibration Verification)

Method Blank is a sample matrix smilar to the batch of associated samples that is free from analytes of interest and is processed simultaneously with and under the same conditions as samples.

Trip Blank is a sample of analyte free media collected in the same type of container that is required for the analytical test, taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures

Holding Time is the maximum times that samples may be held prior to analysis and still be considered valid or not compromised

ug/L=ppb ug/kg=ppb mg/kg=ppm mg/L=ppm

HAM= Analyzed in Hampton Lab

FRED= Analyzed in Fredericksburg Lab

QC Flag	Description
B	Analyte found in method blank
H	Holding time exceeded
L	LCS outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
D	RPD outside acceptable limits
MS	Matrix spike recovery outside acceptable limits
J	Result above calibration curve approximate value
QC	Method QC Critera not met
MI	Matrix Interference
S	Surrogate outside acceptable limits
IS	Internal standard outside acceptable limits

Universal Laboratories
20 Research Drive Hampton, Va.
Phone: (757)-865-0880 Fax: (757) 865-8014

EXPRESS LOG-IN CHAIN OF CUSTODY

UL ORDER ID **1211159**

Pre-Log Date: Tuesday, November 13, 2012

Samples Must Be Received on or Before:

Order Comment:

PO 88120 0193

ATCINC Cardno ATC
211 Expressway Court
Virginia Beach VA 23462

ProjectID:

Project Notes:

QuoteID: Q1211003
Permit Number:
ProjectLocation:

Customer Contact: Eric Shertzer
Phone Number: 757 467 2100
FaxNumber: (757) 467-9178

1211159-001 **SAMPLE 1** 004

Sample Date/Time 01 / 15 / 13 1:20pm
Field Reading
Sampler Initials SG

Stormwater AB 8270MO Semi-Volatile Organic Compounds Δ
C HS Sulfide Δ
D TBT TributylTin Δ
E FC96W IDEXX ES E-coli test

Container Type	Preservative
Amber Glass	Refrigerate, 4 C
HDPE	2N zinc acetate/NaOH pH
Polycarbonate	HCL pH< 2/4C
Sterile	Refrigerate, 4 C

1211159-002 **SAMPLE 2** 002

Sample Date/Time 01 / 15 / 13 12:30
Field Reading
Sampler Initials SG

Stormwater AB 8270MO Semi-Volatile Organic Compounds Δ
C HS Sulfide Δ
D TBT TributylTin Δ
E FC96W IDEXX ES E-coli test

Container Type	Preservative
Amber Glass	Refrigerate, 4 C
HDPE	2N zinc acetate/NaOH pH
Polycarbonate	HCL pH< 2/4C
Sterile	Refrigerate, 4 C

1211159-003 **SAMPLE 3** 003

Sample Date/Time 1 / 15 / 13 12:50
Field Reading
Sampler Initials SG

Stormwater AB 8270MO Semi-Volatile Organic Compounds Δ
C HS Sulfide Δ
D TBT TributylTin Δ
E FC96W IDEXX ES E-coli test *

Container Type	Preservative
Amber Glass	Refrigerate, 4 C
HDPE	2N zinc acetate/NaOH pH
Polycarbonate	HCL pH< 2/4C
Sterile	Refrigerate, 4 C

1211159-004 **Field Services**

Sample Date/Time
Field Reading
Sampler Initials

Field Services SHIP Shipping charges

Container Type	Preservative
N/A	N/A

Δ sent to Hampton BB 1/16/13
copy of COC left in Fred
original sent to Hampton

* client broke sterile container and will resample -JG 1/15/13

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Virginia Beach VA 23462

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Phone Number: 757 467 2100
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ProjectID:

Project Notes:

QuoteID: Q1211003
Permit Number:
ProjectLocation:

Comments:

CN int check | Phenol in check | NH3 int check | BOD int check

Cooler Temp @ Log-in: On Ice
Preservation:

Relinquished By Signature:	Stephen Gray	Company: CPS	Date/Time:
Received By Signature:	Duke McBroom	Company:	Date/Time: P.V. 2:15 p.m
Relinquished By Signature:	Duke McBroom	Company:	Date/Time: Del. 2:40 p.m
Received By Signature:	[signature]	Company: VL	Date/Time: 1/15/13 1440
Relinquished By Signature:	[signature]	Company: VL	Date/Time: 1/16/13 14:00
Received By Signature:	[signature]	Company: VL	Date/Time: 1/16/13 1555

UNIVERSAL LABORATORIES

REPORT OF ANALYSIS

Order ID: 1301259

(REPORT DATE)
17-Jan-13

TO: Cardno ATC
211 Expressway Court

Virginia Beach VA 23462

ATTN: Eric Shertzer

FaxNumber: (757) 467-9178
E-MAIL

This report contains the analytical results for Project Id N/A
designated as UL Order Id **1301259** and received on *Tuesday, January 15, 2013*
The results contained in this report relate only to the samples identified on this order. The analytical results meet all requirements of NELAC unless specifically stated. This report shall not be reproduced except in full.

REPLACEMENT FOR ORIGINAL SAMPLE BROKEN IN TRANSIT

The data in this report has been reviewed and validated by:

Carol Kleemeier — Signature
Carol Kleemeier — Name
Pres / Tech Director — Title

ANALYTICAL DATA REPORT

UL ORDER ID 1301259

UL Sample Number 1301259-001

Grab Date/Time: 1/15/2013 15:25:00
Composite Start: N/A
Composite Stop: N/A
Collected By: Client

Sample Site: OF-003
Client Sample ID: OF-003
Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Location	Comment
IDEXX-Colilert						
E-Coli	**206**	mpn/100ml	1	1/15/2013 16:12:00	FRED	

Comments for 1301259-001
No comments

ANALYTICAL DATA REPORT

UL ORDER ID **1301259**

Analytical Methods Reference

VDEH Lab# 00030 (Hampton) VDEH Lab# 00065 (Fredericksburg) NCWW Lab # 543 (Hampton)
NCDW Lab # 51706 (Hampton) VELAP ID 460036 (Hampton) VELAP ID 460164 (Fredericksburg

Description:	*Prep Method:*	*Method*	*Reference*	*accredited/status*
Stormwater				
IDEXX ES E-coli test		IDEXX-Colilert	40 CFR part 136 App. A	

NOTE: Analysis is performed according to Universal Laboratories Standard Operating Procedures which are based on the analytical methods referenced above

GLOSSARY OF TERMS AND ABBREVIATIONS

RL (Reporting Limit): The minimum levels, concentrations, or quantities of target analyte that can be reported with a specified degree of confidence.Generally this number is near or equal to the lowest calibration standard run with the analytical batch.

MDL (Method Detection Limit): The constituent concentration that, when processed through the complete method, produces a signal with a 99% probability that it is different from the blank.

LCS (Laboratory Control Sample): is a sample matrix free from the analytes of interest, spiked with verified amounts of analytes.

MS (Matrix Spike): a sample prepared by adding a known mass of target analyte to a specific amount of sample for which an independant estimate of target analyte concentration is available.

MSD (Matrix Spike Duplicate): is a replicate matrix spike prepared in the laboratory and anlyzed to obtain a measure of the precision recovery for each analtye.

Surrogate is a substance with properties that mimic the analyte of interest.It is unlikely to be found in environmental samples and is added to them for quality control purposes

IS (Internal Standard): is a known amount of standard added to a test portion of the sample as a reference for evaluation and controlling the precsion and bias of the applied analytical method.
RPD (Relative Percent Difference) is the difference between a set of sample duplicates or sample spike duplicates

ICV (Initial Calibration Verification) CCV (Continuing Calibration Verification) FCV (Final Calibration Verification)

Method Blank is a sample matrix similar to the batch of associated samples that is free from analytes of interest and is processed simultaneously with and under the same conditions as samples.

Trip Blank is a sample of analyte free media collected in the same type of container that is required for the analytical test, taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures

Holding Time is the maximum times that samples may be held prior to analysis and still be considered valid or not compromised

ug/L=ppb ug/kg=ppb mg/kg=ppm mg/L=ppm

HAM= Analyzed in Hampton Lab

FRED= Analyzed in Fredericksburg Lab

QC Flag	Description
B	Analyte found in method blank
H	Holding time exceeded
L	LCS outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
D	RPD outside acceptable limits
MS	Matrix spike recovery outside acceptable limits
J	Result above calibration curve approximate value
QC	Method QC Critera not met
MI	Matrix Interference
S	Surrogate outside acceptable limits
IS	Internal standard outside acceptable limits

1301259

UNIVERSAL LABORATORIES CHAIN OF CUSTODY FORM

COMPANY/NAME	ATC inc.
STREET/BOX	211 Expressway Court
CITY/STATE/ZIP	Virginia Beach, Va 23462
PHONE	757-467 2100
CONTACT	Eric Shertzer
EMAIL/FAX	757-467 9178

Universal Laboratories
20 Research Drive
Hampton, Virginia, 23666
Phone: (757) 865-0880
Fax: (757)865-8014
info@universallaboratories.net

ANALYSIS REQUIRED: FC96well

UL ORDER ID (Laboratory Use Only): 1211159

CUSTOMER SAMPLE ID (location where sample was taken i.e. address if different from above or bathroom sink, outside faucet, etc.)	DATE/TIME (when sample was taken)	SAMPLED BY (initials)	MATRIX	SAMPLE TYPE	FIELD NOTES	FC96well			UL ORDER ID
Outfall 003	1/15/13 15:25	client	SW	G					

Comments:	resample of 1211159-003				
Cooler Temperature		Pres. check			
Relinquished by	[signature]	Company		Date/Time	1-18-13 4:03 pm
Received by	[signature]	Company	VL	Date/Time	1/15/13 16:03
Relinquished by		Company		Date/Time	
Received by		Company		Date/Time	
Relinquished by		Company		Date/Time	
Received by		Company		Date/Time	

www.universallaboratories.net

*Clients who request rush analysis must provide an email and/or fax to receive results within 48 hrs. Please allow for two full business days to receive results. Samples that are received after 2 pm are considered to be received on the following business day.