

Office of the Mayor-President  
Purchasing Division



City of Baton Rouge  
Parish of East Baton Rouge  
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**ADDENDUM NO. 2 ISSUED FEBRUARY 8, 2024**  
**RFP 2023-33-7710**  
**Analytical Laboratory Services for Regulatory Compliance Sampling**

Your reference is directed to RFP 2023-33-7710 – Analytical Laboratory Services for Regulatory Compliance Sampling for the City of Baton Rouge/Parish of East Baton Rouge which is scheduled to open on February 15, 2024 at 11:00 AM.

The following questions were received during the Inquiry Period and the responses to each question is reflected below:

- Q1: Can we notate and group compounds together by method on the pricing sheet?
- R1: Proposers can opt to notate and group compounds together and the price of their analysis for that group compound; then divide it by how many we have in the recommended list of analytes on that group to get the individual price per analyte.
- Q2: What tests are needed on holiday and weekends?
- R2: Please review Attachment F in regards to samples that indicate a frequency as "Daily." City-Parish will typically opt to send samples on week days that are not noted as "Daily" unless they are sporadic events such as overflows, illegal dumping, etc.
- Q3: Historically, does the City of Baton Rouge receive pickups every Sat, Sun, and holidays? What samples are required to be run on weekends and holidays?
- R3: Yes, please refer to the answer on R2 above.
- Q4: Are micro-samples required on the weekends?
- R4: Yes, please refer to the answer on R2 above.
- Q5: Can we have an agreed upon time for samples – especially short holds to be pulled?
- R5: It is feasible to have agreed on times for daily Wastewater Treatment Plant samples and package plant samples. Stormwater samples are dependent on the weather and will not be able to be scheduled.

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- Q6: Can we get a copy of the current contract with the current provider?
- R6: Yes. The agreement between the City-Parish and Element Materials Technology as entered March 7, 2022, is attached.
- Q7: Can Pace use its own existing, notarized corporate resolution statement, or are we required to complete the Corporate Resolution form provided within the bid package?
- R7: Yes.
- Q8: Can method 8321 be used for 2,4-dichlorophenoxyacetic acid (2,4-D)?
- R8: This depends on the samples to be analyzed:  
2, 4-D on MS4 and LPDES permits should follow methods under CWA Methods on Attachment I (EPA 1658/515.1/615/515.2/555).  
2, 4-D on Sewage Sludge permit (TCLP) should follow methods under EPA SW 846 Methods on Attachment I (SW 8151A, SW 8321B).
- Q9: Can method 8321 be used for 2-(2,4,5-trichlorophenoxy) propionic acid (2,4,5-TP Silvex)?
- R9: This depends on the samples to be analyzed:  
2, 4, 5-TP Silvex on MS4 and LPDES permits should follow methods under CWA Methods on Attachment I (EPA 615, SM 6640 B-2006).  
2, 4, 5-TP Silvex on Sewage Sludge permit (TCLP) should follow methods under EPA SW 846 Methods on Attachment I (SW 8085, SW 8151A, SW 8321B)
- Q10: If we partner with a SEDBE, do we need to provide a monthly report?
- R10: Yes. See "Disadvantaged Business Enterprise Inclusion" document, Part I – C "subcontracts;" that follows "Attachment D – Sample Contract."
- Q11: Is it possible to extend the deadline for this RFP?
- R11: No, we are on a tight schedule since the current provider contract expires March 31, 2024.

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Q12: Table 1. Analytical Testing and Other Services – this table lists many compounds that are run by the same test method, e.g., 1,1,1,2-Tetrachloroethane (a Volatile Organic Compound or "VOC"), and with different required turnaround times, e.g., 14 and 5 days. Every other VOC in Table 1 is included in the cost of these line items, and therefore pricing for each VOC individually is not required. We suggest that Table 1 be revised thusly, using this example, for each of the required VOCs, Semi-VOCs, and Pesticides/PCBs:

Column A Test: VOCs    Column B Required Turnaround Time: 14 days    Column C Total Samples Annually: 74 (33 + **41** as this requirement is listed twice for 1,1,1,2-Tetrachloroethane). **The 41 is for 1,1,2,2-Tetrachloroethane.**

Column A Test: VOCs    Column B Required Turnaround Time: 5 days    Column C Total Samples Annually: 12

R12: No, difference on turn around times are based on our specific permit requirements. Table stays as it is. The recommendation on R1 will give the Proposer the price per analytes on the group compounds.

This addendum is hereby officially made a part of the referenced solicitation and should be attached to the bidder's proposal or otherwise acknowledged therein.

If you have already submitted your proposal and this addendum causes you to revise your original bid, please indicate changes herein and return to Purchasing prior to bid opening in an envelope marked with the file number, bid opening date, and time. If this addendum does not cause you to revise your bid, please acknowledge receipt of the addendum by signing your name and company below and returning it in accordance with the provisions above.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

## PROFESSIONAL SERVICES AGREEMENT

This Agreement entered into effective the 7<sup>th</sup> day of March, 2021 by and between the **City of Baton Rouge and Parish of East Baton Rouge**, hereinafter referred to as "City-Parish" on behalf of the Department of Environmental Services, and **Element Materials Technology Lafayette, LLC**, hereinafter referred to as "Service Provider".

### Article I: Term

This contract shall commence upon the issuance of a Notice to Proceed by the Department and shall continue through December 31, 2022. This contract will have the option of four annual renewals for calendar years 2023, 2024, 2025 and 2026. Extension of the contract into subsequent time periods shall be made by letter on or before the expiration of the contract and is only possible if all prices and conditions remain the same upon mutual agreement of both parties.

### Article II: Scope of Services

The City-Parish hereby engages the services of Service Provider, with said services to be rendered to the Department of Environmental Services herein referred to as the "DES" as defined per Attachment "A", attached and made a part of this agreement as authorized by Metropolitan Council resolution 56069 dated December 8, 2021.

### Article III: Status of Service Provider

Service Provider is serving as an independent contractor in providing the necessary services and neither the City-Parish nor any of its agents nor assigns shall have responsibility for any acts or omissions of Service Provider, its employees, agents or subcontractors. The Agreement shall not be construed as an employment contract and neither Service Provider nor any employees, agents or subcontractors of Service Provider shall receive benefits afforded by provisions or regulations governing classified or unclassified personnel for the City-Parish and the Service Provider's representative by signature hereto expressly waives and relinquishes any such rights.

### Article IV: Conflict of Interest and Louisiana Code of Ethics

In accordance with Louisiana law (La. Rev. Stat. Title 42, Chapter 15), all vendors and service providers to the City-Parish are required to adhere to the ethics standards for public employees (public employee defined at <https://www.legis.la.gov/legis/Law.aspx?d=99214>). As such, third party vendors and service providers shall be responsible for determining and ensuring that there will be no conflict or violation of the Louisiana Ethics Code if their company is awarded a contract with the City-Parish. In addition, third party vendors and service providers are responsible for adhering to the Louisiana Code of Governmental Ethics throughout the duration of this contract, to include any additional amendments and/or extensions or renewals. Care must be exercised to avoid impropriety.

The Louisiana Board of Ethics is the *only* entity which can officially rule on ethics issues. A link to the Guide for Governmental Ethics can be found at: <http://ethics.la.gov/Pub/Laws/ethsum.pdf>. The Louisiana Board of Ethics website is <http://ethics.la.gov/>.

## **Article V: Insurance**

Service Provider shall carry and maintain at all times during the performance of this contract, insurance coverage with limits of not less than \$1,000,000. A certificate of insurance evidencing the required coverage as noted in Attachment "D" shall be provided prior to final execution of the contract and commencement of work.

## **Article VI: Indemnification**

Service Provider shall indemnify, defend, and hold harmless the City-Parish from any and all losses, damages, expenses or other liabilities, including but not limited to punitive and/or exemplary damages connected with any claim for personal injury, death, property damage or other liability that may be asserted against the City-Parish, its officials, employees or agents, by any party which arises from or allegedly arising from the performing its obligations under this agreement.

Service Provider, its agents, employees and insurer(s) hereby release the City-Parish its agents and assigns from any and all liability or responsibility including anyone claiming through or under them by way or subrogation or otherwise for any loss or damage which Service Provider, its agents or insurers may sustain incidental to or in any way related to Service Provider's operation under this Agreement.

## **Article VII: Cybersecurity Prerequisites**

Service Provider, including all principals and employees who require access to City-Parish information technology assets, shall complete the cybersecurity training required by La. R.S. 42:1267 and furnish the City-Parish proof of said completion prior to being granted access to said assets.

## **Article VIII: Compensation**

The City-Parish shall pay and Service Provider agrees to accept the unit prices in Attachment B as full compensation for the professional services to be performed under this contract. The contract amount shall not exceed \$300,000.00 annually.

This compensation shall be payable within thirty (30) days after submission and approval of monthly invoices in the DES invoice portal with appropriate documentation.

## **Article IX: Inspection of Books and Records**

The Service Provider shall permit the authorized representative of the City-Parish to periodically inspect and audit all data and records of the Service Provider relating to performance under this Agreement for the purpose of audit, examination, excerpts, and transcriptions.

## **Article X: Record Retention**

The Service Provider must retain all financial records, supporting documents, statistical records, and all other records pertinent to the grant award for at least 3 years.

### **Article XI: Complete Agreement**

This is the complete agreement between the parties and supersedes all prior discussions and negotiations. Neither party shall rely on any statement or representations made by the other party not embodied in this agreement. This agreement shall become effective upon final signature by all parties.

### **Article XII: Contract Modifications**

No amendment or change to the terms of this agreement shall be valid unless made in writing, signed by the parties and approved as required by law. In the event of an inconsistency between this Professional Service Agreement and any Attachments or Exhibits, unless otherwise provided herein, the inconsistency shall be resolved by giving precedence first to this Professional Service Agreement.

### **Article XIII: Termination for Convenience**

The City-Parish may terminate this agreement at any time by giving thirty (30) days written notice to consultant of such termination or negotiating with the contractor an effective date. In the event of early termination of this Agreement, City-Parish shall pay all costs accrued by Service Provider as of the date of termination, including all non-cancelable obligations and all non-cancelable contracts. Service Provider shall deliver all completed deliverables to the City-Parish granting party at the time of termination.

### **Article XIV: Termination for Cause**

The City-Parish may terminate this agreement for cause based upon the failure of the Service Provider to comply with the terms and/or conditions of the agreement provided that written notice specifying the failure shall be given. Service Provider shall have thirty (30) days to correct such failure or, begin a good faith effort to correct the failure and thereafter proceed diligently to complete such correction. If such efforts are not made as defined herein, the City-Parish, may at its option, place the Service Provider in default and the agreement shall terminate on the date specified in such notice.

The Service Provider may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the City-Parish to comply with the terms and conditions of the agreement, provided that the Service Provider shall give the City-Parish written notice specifying the City-Parish's failure and a reasonable opportunity for the City-Parish to correct the failure. Should the Service Provider be determined to be in "default" under the terms, conditions and deliverables outlined in this contract, then all costs occurred will be subject to adjustment based on the remaining scope of services. In the event of contract termination, all relevant documents and work product shall be considered the property of the City-Parish and returned to the City-Parish.

### **Article XV: Assignment and Subcontracting**

This agreement is not assignable by the Service Provider without the City-Parish's written

consent, which it may withhold at its sole discretion, and any unapproved assignment will be invalid and ineffective. The Service Provider may not subcontract any of its responsibilities under this Agreement to another person without the City-Parish's prior approval.

#### **Article XVI: Governing Law and Venue**

This agreement shall be governed by and interpreted in accordance with the laws of the State of Louisiana. Venue of any action brought with regard to this Agreement shall be in the Nineteenth Judicial District court, parish of East Baton Rouge, State of Louisiana.

#### **Article XVII: Federal Clauses**

Attachment "H" contains federal clauses that were included in the RFP for this contract. These federal clauses are mandatory if Federal Funds are utilized. On this particular contract, the most common instance where federal funding would be used is in response to a declared disaster where FEMA reimbursement is requested for damages to City-Parish equipment. By signing this contract, the Service Provider acknowledges the use of and agrees to comply with these federal clauses if this contract is used in response to a declared disaster.

In witness whereof, the parties hereto have executed this Agreement effective as of the date first written above.

**WITNESSES**

*City of Baton Rouge and Parish of East Baton Rouge*

Jacob Shaffert

By: Sharon Weston Broome  
Sharon Weston Broome  
Mayor-President

Date: 3-7-2022

*Element Materials Technology Lafayette, LLC*

\_\_\_\_\_

By: Kinzie Austin  
Kinzie Austin  
Vice President  
Transportation & Industrials Unit

Date: 11Jan22

Approved:

Richard Speer  
Richard Speer, PE  
Environmental Services Director

Approved:

Kelvin J. Hill  
Kelvin J. Hill, Assistant CAO  
Office of the Mayor-President

Approved as to form:

Lisa C. Smith  
Office of the Parish Attorney



*ATTACHMENT A*  
SCOPE OF SERVICES

## **A.1 Scope of Services**

All analytical tests must be performed in accordance with the techniques described in 40 CFR part 136 (see LAC 33:IX.4901) and SW-846 (solid waste methods) and the amendments thereto following the schedule in Attachment D. Where 40 CFR part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using validated analytical methods or other applicable sampling and analytical procedures approved by the Environmental Division and the Louisiana Department of Environmental Quality. All reports, shall satisfy the minimum recommended conditions set forth in 40 CFR part 136. For reference, please refer to Attachment G for the list of required methods.

Furthermore, to the analytical testing services, the contract laboratory will also be responsible for providing services to the City-Parish on the following:

- l. The required sample bottles, sample kits vials, labels, and coolers, incidentals, etc. (including the preservative needed for the specific analysis), in containers appropriate for shipment back to the contract laboratory (refer to 40 CFR part 136 Sec 136.3 (e) or SW-846 for required containers, preservation techniques, and holding times). All cost associated with the shipment/delivery of sampling kits will be the responsibility of the contracted laboratory.
  - a. For the treatment plants sampling kits should be delivered to EITHER North Wastewater Treatment Plant (NWWTP), located at 50 Woodpecker Street, Baton Rouge, LA 70807, OR South Wastewater Treatment Plant(SWWTP), located at 2850 Gardere Lane, Baton Rouge, LA 70820 at the direction of the City-Parish.
  - b. For the Industrial Pretreatment Program (IPP), the North Landfill and the Municipal Separate Storm Sewer System (MS4) Program, the sampling kits should be delivered to the Environmental Division at EITHER 345 Chippewa Street, Baton Rouge, LA 70805 (current location) or 12422 Florida Boulevard, Baton Rouge, LA 70815 (future location) or to the sampling contractor as directed by the City-Parish.

## **A.2 Reporting**

The contract laboratory shall provide reports in electronic formats including .xlsx or .txt and .pdf made available on an ftp site. The .xlsx or .txt file is for a direct upload to the City-Parish's Operator10 process optimization software so it must be provided in the specified format. A priority pollutant list and total toxic organics list with the required MQLs for our permits are included in the attachments.

## **A.3 Safety Requirements**

The importance of safety in the performance of this scope of work cannot be overemphasized. To that end, the Contractor shall conduct his operation in a manner such that the safety and convenience of both the public and workers is regarded as of prime importance. The City-Parish

reserves the right to stop the Contractor from working or to order any piece of equipment taken off the project, should it be determined that minimum safety standards are not being met.

#### **A.4 Location**

The physical addresses of the facilities are provided in Attachment C.

**ATTACHMENT B**  
**PRICING SCHEDULE**

**ATTACHMENT B-1  
PRICING SCHEDULE**  
CITY OF BATON ROUGE  
PARISH OF EAST BATON ROUGE

Analytical Testing and Other Services

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
% Solids	14 days	17	\$5.00	\$85.00
% Solids (Sludge)	14 days	17	\$5.00	\$85.00
1,1,1,2-Tetrachloroethane	14 days	33	\$2.00	\$66.00
1,1,1-trichloroethane	14 days	41	\$2.00	\$82.00
1,1,1-Trichloroethane	5 days	12	\$2.60	\$31.20
1,1,2,2-tetrachloroethane	14 days	41	\$2.00	\$82.00
1,1,2,2-Tetrachloroethane	5 days	12	\$2.60	\$31.20
1,1,2-Trichloroethane	14 days	41	\$2.00	\$82.00
1,1,2-Trichloroethane	5 days	12	\$2.60	\$31.20
1,1-dichloroethane	14 days	41	\$2.00	\$82.00
1,1-Dichloroethane	5 days	12	\$2.60	\$31.20
1,1-dichloroethylene	14 days	8	\$2.00	\$16.00
1,1-Dichloroethylene	5 days	12	\$2.60	\$31.20
1,1-Dichloroethylene	7 days	2	\$11.00	\$22.00
1,2,3-Trichloropropane	14 days	33	\$2.00	\$66.00
1,2,4-trichlorobenzene	14 days	8	\$2.00	\$16.00
1,2,4-Trichlorobenzene	5 days	12	\$2.00	\$24.00
1,2-Dibromomethane	14 days	33	\$2.00	\$66.00
1,2-Dibromo-3-chloropropane	14 days	33	\$2.00	\$66.00
1,2-dichlorobenzene	14 days	41	\$2.00	\$82.00
1,2-Dichlorobenzene	5 days	12	\$2.60	\$31.20
1,2-dichloroethane	14 days	41	\$2.00	\$82.00
1,2-Dichloroethane	5 days	12	\$2.60	\$31.20
1,2-Dichloroethane	7 days	2	\$11.00	\$22.00
1,2-dichloropropane	14 days	41	\$2.00	\$82.00
1,2-Dichloropropane	5 days	12	\$2.60	\$31.20
1,2-diphenylhydrazine (as azobenzene)	14 days	8	\$1.50	\$12.00
1,2-Diphenylhydrazine (as azobenzene)	5 days	12	\$2.00	\$24.00
1,2-trans-dichloroethylene	14 days	8	\$2.00	\$16.00
1,2-trans-Dichloroethylene	5 days	12	\$2.60	\$31.20
1,3-dichlorobenzene	14 days	8	\$2.00	\$16.00
1,3-Dichlorobenzene	5 days	12	\$2.60	\$31.20
1,3-dichloropropylene	14 days	8	\$2.00	\$16.00
1,3-Dichloropropylene	5 days	12	\$5.20	\$62.40
1,4.Dichlorobenzene	14 days	41	\$2.00	\$82.00
1,4-Dichlorobenzene	5 days	12	\$2.60	\$31.20
1,4-Dichlorobenzene	7 days	2	\$11.00	\$22.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
2-(2,4,5-trichlorophenoxy)propionic acid	14 days	8	\$98.00	\$784.00
2,3,7,8-tetrachlorodibenzo-p-dioxin	14 days	8	\$385.00	\$3,080.00
2,3-dichlorophenol	14 days	8	\$1.50	\$12.00
2,4,5-Trichlorophenol	7 days	4	\$50.00	\$200.00
2,4,6-Trichlorophenol	5 days	12	\$18.00	\$216.00
2,4,6-Trichlorophenol	14 days	16	\$12.00	\$192.00
2,4-dichlorophenol	14 days	8	\$1.50	\$12.00
2,4-Dichlorophenol	5 days	12	\$2.00	\$24.00
2,4-dichlorophenoxyacetic acid (2,4-D)	7 days	10	\$200.00	\$2,000.00
2,4-dichlorophenoxyacetic acid (2,4-D)	14 days	8	\$98.00	\$784.00
2,4-dimethylphenol	14 days	8	\$1.50	\$12.00
2,4-Dimethylphenol	5 days	12	\$2.00	\$24.00
2,4-dinitrophenol	14 days	8	\$1.50	\$12.00
2,4-Dinitrophenol	5 days	12	\$2.00	\$24.00
2,4-dinitrotoluene	14 days	8	\$1.50	\$12.00
2,4-dinitrotoluene	5 days	12	\$2.00	\$24.00
2,4-Dinitrotoluene	7 days	2	\$11.00	\$22.00
2,5-dichlorophenol	14 days	8	\$1.50	\$12.00
2,6-dichlorophenol	14 days	8	\$1.50	\$12.00
2,6-dinitrotoluene	14 days	8	\$1.50	\$12.00
2,6-dinitrotoluene	5 days	12	\$2.00	\$24.00
2-Hexanone	14 days	33	\$2.00	\$66.00
2-chloroethyl vinyl ether	14 days	8	\$2.00	\$16.00
2-Chloroethyl vinyl ether	5 days	12	\$2.60	\$31.20
2-chloronaphthalene	14 days	8	\$1.50	\$12.00
2-Chloronaphthalene	5 days	12	\$2.00	\$24.00
2-chlorophenol	14 days	8	\$1.50	\$12.00
2-Chlorophenol	5 days	12	\$2.00	\$24.00
2-Methylphenol	7 days	2	\$11.00	\$22.00
2-nitrophenol	14 days	8	\$1.50	\$12.00
2-Nitrophenol	5 days	12	\$2.00	\$24.00
3,3'-dichlorobenzidine	14 days	8	\$1.50	\$12.00
3,3'-Dichlorobenzidine	5 days	12	\$2.00	\$24.00
3,4-benzofluoranthene	14 days	8	\$1.50	\$12.00
3,4-Benzofluoranthene	5 days	12	\$2.00	\$24.00
3,4-dichlorophenol	14 days	8	\$1.50	\$12.00
3-chlorophenol	14 days	8	\$1.50	\$12.00
3-Methylphenol	7 days	2	\$12.00	\$24.00
4,4'-DDD	14 days	8	\$6.40	\$51.20
4,4'-DDE	14 days	8	\$6.40	\$51.20
4,4'-DDT	14 days	8	\$6.40	\$51.20

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
4,6-dinitro-o-cresol	14 days	8	\$1.50	\$12.00
4,6-Dinitro-o-cresol	5 days	12	\$2.00	\$24.00
4-bromophenyl phenyl ether	14 days	8	\$1.50	\$12.00
4-Bromophenyl phenyl ether	5 days	12	\$2.00	\$24.00
4-chlorophenol	14 days	8	\$1.50	\$12.00
4-chlorophenyl phenyl ether	14 days	8	\$1.50	\$12.00
4-Chlorophenyl phenyl ether	5 days	12	\$2.00	\$24.00
4-Methylphenol	7 days	2	\$12.00	\$24.00
4-nitrophenol	14 days	8	\$1.50	\$12.00
4-Nitrophenol	5 days	12	\$2.00	\$24.00
Acenaphthene	14 days	8	\$1.50	\$12.00
Acenaphthene	5 days	12	\$2.00	\$24.00
Acenaphthylene	14 days	8	\$1.50	\$12.00
Acenaphthylene	5 days	12	\$2.00	\$24.00
Acetone	14 days	33	\$2.00	\$66.00
Acrolein	14 days	8	\$2.00	\$16.00
Acrolein	5 days	12	\$2.60	\$31.20
Acrylonitrile	14 days	41	\$2.00	\$82.00
Acrylonitrile	5 days	12	\$2.60	\$31.20
Aldrin	14 days	8	\$6.40	\$51.20
Alpha-BHC	14 days	8	\$6.40	\$51.20
Alpha-endosulfan	14 days	8	\$6.40	\$51.20
Ammonia Nitrogen, total (as N)	14 days	12	\$40.00	\$480.00
Anthracene	14 days	8	\$1.50	\$12.00
Anthracene	5 days	12	\$2.00	\$24.00
Antimony, Total	14 days	41	\$5.00	\$205.00
Aroclor 1016	7 days	4	\$44.00	\$176.00
Aroclor 1221	7 days	2	\$25.00	\$50.00
Aroclor 1232	7 days	2	\$25.00	\$50.00
Aroclor 1242	7 days	2	\$25.00	\$50.00
Aroclor 1248	7 days	2	\$25.00	\$50.00
Aroclor 1254	7 days	2	\$25.00	\$50.00
Aroclor 1260	7 days	2	\$25.00	\$50.00
Arsenic	14 days	12	\$5.00	\$60.00
Arsenic	7 days	2	\$6.00	\$12.00
Arsenic, Total	14 days	41	\$5.00	\$205.00
Atrazine	7 days	10	\$225.00	\$2,250.00
Barium	7 days	2	\$6.00	\$12.00
Barium (and compounds)	14 days	33	\$5.00	\$165.00
Benzene	14 days	41	\$2.00	\$82.00
Benzene	5 days	12	\$2.60	\$31.20

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Benzene	7 days	2	\$11.00	\$22.00
Benzidine	14 days	8	\$1.50	\$12.00
Benzidine	5 days	12	\$2.00	\$24.00
Benzo(a)anthracene	14 days	8	\$1.50	\$12.00
Benzo(a)anthracene	5 days	12	\$2.00	\$24.00
Benzo(a)pyrene	14 days	8	\$1.50	\$12.00
Benzo(a)pyrene	5 days	12	\$2.00	\$24.00
Benzo(ghi)perylene	14 days	8	\$1.50	\$12.00
Benzo(ghi)perylene	5 days	12	\$2.00	\$24.00
Benzo(k)fluoranthene	14 days	8	\$1.50	\$12.00
Benzo(k)fluoranthene	5 days	12	\$2.00	\$24.00
Benzoic Acid	14 days	4	\$40.00	\$160.00
Beryllium, Total (as Be)	14 days	41	\$5.00	\$205.00
Beta-BHC	14 days	8	\$6.40	\$51.20
Beta-endosulfan	14 days	8	\$6.40	\$51.20
Biochemical Oxygen Demand	14 days	28	\$20.00	\$560.00
Biochemical Oxygen Demand	6 days	2232	\$20.00	\$44,640.00
Biomonitoring, Coefficient of Variation, 48-Hour Acute, Daphnia pulex	14 days	8	NC (Result taken from 48 hour test)	-
Biomonitoring, Coefficient of Variation, 48-Hour Acute, Pimephales promelas	14 days	8	NC (Result taken from 48 hour test)	-
Biomonitoring, Coefficient of Variation, 7- Day Chronic, Ceiodaphina dubia	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Coefficient of Variation, 7- Day Chronic, Pimephales promelas	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Low Flow Pass/Fail Lethality Static Renewal. 7-day Chronic, Ceiodaphina dubia	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Low Flow Pass/Fail Lethality Static Renewal. 7-day Chronic, Pimephales promelas	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Low Flow Pass/Fail Static Renewal, 48-Hour Acute, Daphnia pulex	14 days	8	\$330.00	\$2,640.00
Biomonitoring, Low Flow Pass/Fail Static Renewal, 48-Hour Acute, Pimephales Promelas	14 days	8	\$330.00	\$2,640.00
Biomonitoring, NOEC Lethality Static Renewal, 48-Hour Acute, Daphnia pulex	14 days	8	NC (Result taken from 48 hour test)	-
Biomonitoring, NOEC Lethality Static Renewal, 48-Hour Acute, Pimephales promelas	14 days	8	NC (Result taken from 48 hour test)	-
Biomonitoring, NOEC Lethality Static Renewal. 7-day Chronic, Ceiodaphina dubia	14 days	4	NC (Result taken from 48 hour test)	-



Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Biomonitoring, NOEC Lethality Static Renewal. 7-day Chronic, Pimephales promelas	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, NOEC Sub-Lethality Static Renewal. 7-day Chronic, Cciodaphina dubia	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, NOEC Sub-Lethality Static Renewal. 7-day Chronic, Pimephales promelas	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Pass/Fail Static Renewal, 7-day Chronic, Cciodaphina dubia	14 days	4	NC (Result taken from 48 hour test)	-
Biomonitoring, Pass/Fail Static Renewal, 7-day Chronic, Pimephales promelas	14 days	4	\$660.00	\$2,640.00
Biomonitoring, Whole Effluent Toxicity, Cciodaphina dubia Lethal & Sub-Lethal	14 days	4	\$660.00	\$2,640.00
Bis(2-chloro-1-methylethyl)ether	14 days	8	\$1.50	\$12.00
Bis(2-chloroethoxy)methane	14 days	8	\$1.50	\$12.00
Bis(2-chloroethoxy)methane	5 days	12	\$2.00	\$24.00
Bis(2-chloroethyl)ether	14 days	8	\$1.50	\$12.00
Bis(2-chloroethyl)ether	5 days	12	\$2.00	\$24.00
Bis(2-chloroisopropyl)ether	14 days	8	\$1.50	\$12.00
Bis(2-chloroisopropyl)ether	5 days	12	\$2.00	\$24.00
Bis(2-ethylhexyl)phthalate	5 days	12	\$2.00	\$24.00
Bis(2-ethylhexyl)phthalate	14 days	16	\$12.00	\$192.00
Bromoform	14 days	41	\$2.00	\$82.00
Bromoform	5 days	12	\$2.60	\$31.20
Butylbenzyl phthalate	14 days	8	\$1.50	\$12.00
Butylbenzyl phthalate	5 days	12	\$2.00	\$24.00
Cadmium	7 days	2	\$6.00	\$12.00
Cadmium, Total	14 days	53	\$5.00	\$265.00
Carbazole	14 days	8	\$12.00	\$96.00
Carbazole	5 days	12	\$18.00	\$216.00
Carbon disulfide	14 days	33	\$2.00	\$66.00
Carbon tetrachloride	14 days	41	\$2.00	\$82.00
Carbon tetrachloride	5 days	12	\$2.60	\$31.20
Carbon Tetrachloride	7 days	2	\$11.00	\$22.00
Chemical Oxygen Demand	14 days	26	\$18.00	\$468.00
Chemical Oxygen Demand	7 days	10	\$18.00	\$180.00
Chemical Oxygen Demand	5 days	12	\$22.50	\$270.00
Chlordane	14 days	8	\$6.40	\$51.20
Chloride	14 days	33	\$10.00	\$330.00
Chloride	7 days	10	\$12.00	\$120.00
Chlorine	7 days	10	\$1.00	\$10.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Chlorobenzene	14 days	41	\$2.00	\$82.00
Chlorobenzene	5 days	12	\$2.60	\$31.20
Chlorobenzene	7 days	2	\$11.00	\$22.00
Chlorobromomethane	14 days	33	\$2.00	\$66.00
Chlorodibromomethane	14 days	41	\$2.00	\$82.00
Chlorodibromomethane	5 days	12	\$2.60	\$31.20
Chloroethane	14 days	41	\$2.00	\$82.00
Chloroethane	5 days	12	\$2.60	31.20
Chloroform	14 days	41	\$2.00	\$82.00
Chloroform	5 days	12	\$2.60	\$31.20
Chloroform	7 days	2	\$11.00	\$22.00
Chromium	14 days	12	\$5.00	\$60.00
Chromium	7 days	2	\$6.00	\$12.00
Chromium (3+)	14 days	8	\$5.00	\$40.00
Chromium (6+)	14 days	8	\$20.00	\$160.00
Chromium, Total (as Cr)	14 days	143	\$5.00	\$715.00
Chrysene	14 days	8	\$1.50	\$12.00
Chrysene	5 days	12	\$2.00	\$24.00
cis 1,3-Dichloropropylene	14 days	33	\$2.00	\$66.00
cis-1,2-Dichloroethene	14 days	33	\$2.00	\$66.00
Cobalt Compounds	14 days	33	\$5.00	\$165.00
Color (Cobalt-Platinum Units)	7 days	10	\$10.00	\$100.00
Copper	14 days	12	\$5.00	\$60.00
Copper, Total (as Cu)	14 days	41	\$5.00	\$205.00
Cyanide Total	14 days	30	\$23.00	\$690.00
Cyanide Total	5 days	12	\$34.50	\$414.00
Delta-BHC	14 days	8	\$6.40	\$51.20
Dibenzo(a,h)anthracene	14 days	8	\$1.50	\$12.00
Dibenzo(a,h)anthracene	5 days	12	\$2.00	\$24.00
Dichlorobromomethane	14 days	41	\$2.00	\$82.00
Dichlorobromomethane	5 days	12	\$2.60	\$31.20
Dichloromethane	14 days	33	\$2.00	\$66.00
Dieldrin	14 days	8	\$6.40	\$51.20
Diethyl phthalate	14 days	8	\$1.50	\$12.00
Diethyl phthalate	5 days	12	\$2.00	\$24.00
Dimethyl phthalate	14 days	8	\$1.50	\$12.00
Dimethyl phthalate	5 days	12	\$2.00	\$24.00
Di-n-butyl phthalate	14 days	8	\$1.50	\$12.00
Dj-n-butyl phthalate	5 days	12	\$2.00	\$24.00
Di-n-octyl phthalate	14 days	8	\$1.50	\$12.00
Di-n-octyl phthalate	5 days	12	\$2.00	\$24.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Dissolved phosphorus	7 days	10	\$20.00	\$200.00
Endosulfan sulfate	14 days	8	\$6.40	\$51.20
Endrin	14 days	8	\$6.40	\$51.20
Endrin aldehyde	14 days	8	\$6.40	\$51.20
Ethylbenzene	14 days	41	\$2.00	\$82.00
Ethylbenzene	5 days	12	\$2.60	\$31.20
Fecal Coliform	1 days	802	\$45.00	\$36,090.00
Fecal Coliform	7 days	10	\$25.00	\$250.00
Fecal Enterococci	5 days	12	\$35.00	\$420.00
Fecal Streptococci	5 days	12	\$125.00	\$1,500.00
Field pH	14 days	108	\$2.00	\$216.00
Field pH	5 days	12	\$2.00	\$24.00
Field pH	7 days	20	\$2.00	\$40.00
Flow (GPD)	14 days	108	N/C	-
Flow (GPD)	5 days	12	N/C	-
Flow (GPD)	7 days	20	N/C	-
Fluoranthene	5 days	12	\$2.00	\$24.00
Fluoranthene	14 days	16	\$1.50	\$24.00
Fluorene	14 days	8	\$12.00	\$96.00
Fluorene	5 days	12	\$18.00	\$216.00
Gamma-BHC	14 days	8	\$6.40	\$51.20
Hardness (as CaCO3)	7 days	10	\$25.00	\$250.00
Heptachlor	14 days	8	\$6.40	\$51.20
Heptachlor epoxide	14 days	8	\$6.40	\$51.20
Hexachlorobenzene	14 days	8	\$1.50	\$12.00
Hexachlorobenzene	5 days	12	\$2.00	\$24.00
Hexachlorobenzene	7 days	2	\$11.00	\$22.00
Hexachlorobutadiene	14 days	8	\$1.50	\$12.00
Hexachlorobutadiene	5 days	12	\$2.00	\$24.00
Hexachlorobutadiene	7 days	2	\$11.00	\$22.00
Hexachlorocyclopentadiene	14 days	8	\$1.50	\$12.00
Hexachlorocyclopentadiene	5 days	12	\$2.00	\$24.00
Hexachloroethane	14 days	8	\$1.50	\$12.00
Hexachloroethane	5 days	12	\$2.00	\$24.00
Hexachloroethane	7 days	2	\$11.00	\$22.00
Indeno (1,2,3-cd)pyrene	14 days	8	\$1.50	\$12.00
Indeno (1,2,3-cd)pyrene	5 days	12	\$2.00	\$24.00
Iodomethane	14 days	33	\$2.00	\$66.00
Isophorone	14 days	8	\$1.50	\$12.00
Isophorone	5 days	12	\$2.00	\$24.00
Lead	7 days	2	\$6.00	\$12.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Lead compounds	14 days	41	\$5.00	\$205.00
Lead, Total	14 days	8	\$5.00	\$40.00
Mercury	14 days	12	\$20.00	\$240.00
Mercury	7 days	2	\$22.00	\$44.00
Mercury, Total (Low Level)	14 days	8	\$225.00	\$1,800.00
Methyl bromide	14 days	41	\$2.00	\$82.00
Methyl bromide	5 days	12	\$2.60	\$31.20
Methyl chloride	14 days	41	\$2.00	\$82.00
Methyl chloride	5 days	12	\$2.60	\$31.20
Methyl ethyl ketone	14 days	33	\$2.00	\$66.00
Methyl Ethyl Ketone	7 days	2	\$11.00	\$22.00
Methyl isobutyl ketone	14 days	33	\$2.00	\$66.00
Methylene bromide	14 days	33	\$2.00	\$66.00
Methylene chloride	14 days	8	\$2.00	\$16.00
Methylene chloride	5 days	12	\$2.60	\$31.20
Molybdenum	14 days	12	\$5.00	\$60.00
Naphthalene	14 days	8	\$1.50	\$12.00
Naphthalene	5 days	12	\$2.00	\$24.00
n-Decane	5 days	12	\$18.00	\$216.00
n-Decane	14 days	8	\$12.00	\$96.00
Nickel	14 days	12	\$5.00	\$60.00
Nickel, Total	14 days	41	\$5.00	\$205.00
Nitrobenzene	14 days	8	\$1.50	\$12.00
Nitrobenzene	5 days	12	\$2.00	\$24.00
Nitrobenzene	7 days	2	\$11.00	\$22.00
N-nitrosodimethylamine	14 days	8	\$1.50	\$12.00
N-Nitrosodimethylamine	5 days	12	\$2.00	\$24.00
N-nitrosodi-n-propylamine	14 days	8	\$1.50	\$12.00
N-Nitrosodi-n-propylamine	5 days	12	\$2.00	\$24.00
N-nitrosodiphenylamine	14 days	8	\$1.50	\$12.00
N-Nitrosodiphenylamine	5 days	12	\$2.00	\$24.00
n-Octadecane	5 days	12	\$2.00	\$24.00
n-Octadecane	14 days	8	\$12.00	\$96.00
Non-Polar Material (SGT-HEM)	14 days	12	\$40.00	\$480.00
o-Cresol	14 days	8	\$1.50	\$12.00
o-Cresol (2-methylphenol)	5 days	12	\$2.00	\$24.00
Oil and Grease	14 days	43	\$30.00	\$1,290.00
Oil and Grease	7 days	10	\$45.00	\$450.00
Oil and Grease	5 days	24	\$35.00	\$840.00
Paint Filter Test	14 days	2	\$5.00	\$10.00
PCB-1016	14 days	8	\$8.50	\$68.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
PCB-1221	14 days	8	\$8.50	\$68.00
PCB-1232	14 days	8	\$8.50	\$68.00
PCB-1242	14 days	8	\$8.50	\$68.00
PCB-1248	14 days	8	\$8.50	\$68.00
PCB-1254	14 days	8	\$8.50	\$68.00
PCB-1260	14 days	8	\$8.50	\$68.00
PCB's-TOTAL	14 days	8	\$8.50	\$68.00
p-chloro-m-cresol	14 days	8	\$1.50	\$12.00
p-Chloro-m-cresol	5 days	12	\$2.00	\$24.00
p-Cresol	14 days	12	N/C cannot be separated from o-Cresol; will be reported as sum of the isomers	-
p-Cresol (4-methylphenol)	5 days	12	\$2.00	\$24.00
Pentachlorophenol	14 days	8	\$1.50	\$12.00
Pentachlorophenol	5 days	12	\$2.00	\$24.00
Pentachlorophenol	7 days	2	\$11.00	\$22.00
*Per-and Polyfluoroalkyl Substances (PFAS)	14 days	TBD	\$450.00	-
pH	7 days	2190	\$1.00	\$2,190.00
Phenanthrene	14 days	8	\$1.50	\$12.00
Phenanthrene	5 days	12	\$2.00	\$24.00
Phenol	14 days	12	\$1.50	\$18.00
Phenol	5 days	12	\$2.00	\$24.00
Phenol Total	14 days	22	\$20.00	\$440.00
Polychlorinated Biphenyls	7 days	2	\$68.00	\$136.00
Priority Pollutant Scan MS4 (Appendix E)	7 days	10	\$1,216.00	\$12,160.00
Pyrene	14 days	8	\$1.50	\$12.00
Pyrene	5 days	12	\$2.00	\$24.00
Pyridine	7 days	2	\$11.00	\$22.00
Selenium	7 days	2	\$6.00	\$12.00
Selenium	14 days	12	\$5.00	\$60.00
Selenium, Total	14 days	41	\$5.00	\$205.00
Silver	14 days	12	\$5.00	\$60.00
Silver	7 days	2	\$6.00	\$12.00
Sliver, Total (as Ag)	14 days	41	\$5.00	\$205.00
Styrene	14 days	33	\$2.00	\$66.00
Sulfate	14 days	33	\$10.00	\$330.00
Sulfate	7 days	10	\$12.50	\$125.00
Tetrachloroethylene	14 days	41	\$2.00	\$82.00
Tetrachloroethylene	5 days	12	\$2.60	\$31.20
Tetrachloroethylene	7 days	2	\$11.00	\$22.00
Thallium, Total (as Tl)	14 days	41	\$5.00	\$205.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Tin	14 days	8	\$5.00	\$40.00
Toluene	14 days	41	\$2.00	\$82.00
Toluene	5 days	12	\$2.60	\$31.20
Total Arsenic	14 days	124	\$5.00	\$620.00
Total Arsenic	5 days	12	\$8.00	\$96.00
Total Cadmium	14 days	124	\$5.00	\$620.00
Total Cadmium	7 days	10	\$6.00	\$60.00
Total Cadmium	5 days	12	\$8.00	\$96.00
Total Chromium	14 days	22	\$5.00	\$110.00
Total Chromium	5 days	12	\$8.00	\$96.00
Total Cobalt	14 days	8	\$5.00	\$40.00
Total Copper	14 days	130	\$5.00	\$650.00
Total Copper	7 days	10	\$6.00	\$60.00
Total Copper	5 days	12	\$8.00	\$96.00
Total Cyanide	14 days	102	\$23.00	\$2,346.00
Total Dissolved Solids	7 days	10	\$12.00	\$120.00
Total Kjeldahl Nitrogen	7 days	10	\$45.00	\$450.00
Total Lead	14 days	126	\$5.00	\$630.00
Total Lead	7 days	10	\$6.00	\$60.00
Total Lead	5 days	12	\$8.00	\$96.00
Total Mercury (0.0005 ug/ml)	14 days	124	\$20.00	\$2,480.00
Total Mercury (0.0005 ug/ml)	7 days	10	\$22.00	\$220.00
Total Mercury 0.0005 ug/ml	5 days	12	\$250.00	\$3,000.00
Total Molybdenum	14 days	102	\$5.00	\$510.00
Total Nickel	14 days	124	\$5.00	\$620.00
Total Nickel	7 days	10	\$6.00	\$60.00
Total Nickel	5 days	12	\$8.00	\$96.00
Total Nitrogen (As N)	7 days	10	\$55.00	\$550.00
Total Nitrogen (As N)	5 days	8	\$66.00	\$528.00
Total Organic Carbon	14 days	46	\$16.00	\$736.00
Total Organic Carbon	5 days	24	\$24.00	\$576.00
Total PCBs	7 days	10	\$60.00	\$600.00
Total Phosphorus (As P)	7 days	10	\$20.00	\$200.00
Total Phosphorus (As P)	5 days	8	\$25.00	\$200.00
Total Residual Chlorine	1 day	2190	\$2.00	\$4,380.00
Total Selenium	14 days	102	\$5.00	\$510.00
Total Silver	14 days	126	\$5.00	\$630.00
Total Silver	5 days	12	\$8.00	\$96.00
Total Solids	7 days	2190	\$8.00	\$17,520.00
Total Suspended Solids	14 days	108	\$9.00	\$972.00
Total Suspended Solids	7 days	10	\$13.50	\$135.00

Analytical Testing				
Column A Test	Column B Required Turnaround Time	Column C Total Samples Annually	Column D Unit Price	UNIT PRICE EXTENSION (Column C x Column D)
Total Suspended Solids	1 day	2222	\$16.00	\$35,552.00
Total Toxic Organics (TTO) (Appendix F)	14 days	2	\$925.00	\$1,850.00
Total Toxic Organics (TTO) (Appendix F)	5 days	12	\$1,380.00	\$16,560.00
Total Zinc	14 days	130	\$5.00	\$650.00
Total Zinc	7 days	10	\$6.00	\$60.00
Total Zinc	5 days	12	\$8.00	\$96.00
Toxaphene	14 days	8	\$6.40	\$51.20
trans-1,2-Dichloroethene	14 days	33	\$2.00	\$66.00
trans-1,3-Dichloropropene	14 days	33	\$2.00	\$66.00
trans-1,4-Dichlorobutene-2	14 days	33	\$2.00	\$66.00
Trichloroethylene	14 days	41	\$2.00	\$82.00
Trichloroethylene	5 days	12	\$2.60	\$31.20
Trichloroethylene	7 days	2	\$11.00	\$22.00
Trichlorofluoromethane	14 days	33	\$2.00	\$66.00
Vanadium, Total (as V)	14 days	33	\$5.00	\$165.00
Vinyl acetate	14 days	33	\$2.00	\$66.00
Vinyl chloride	14 days	41	\$2.00	\$82.00
Vinyl chloride	5 days	12	\$2.60	\$31.20
Vinyl Chloride	7 days	2	\$11.00	\$22.00
Vinylidene chloride	14 days	33	\$2.00	\$66.00
Volatile Solids	7 days	2190	\$14.00	\$30,660.00
Xylene (mixed isomers)	14 days	33	\$2.00	\$66.00
Zinc	14 days	12	\$5.00	\$60.00
Zinc, total (as Zn)	14 days	45	\$5.00	\$225.00
<b>Analytical Total</b>				<b>\$269,143.00</b>

• Per-and Polyfluoroalkyl Substances (PFAS) are currently not required under the existing LPDES Permits. Sampling for PFAS will likely be required in future LPDES Permits that will be issued during the term of this contract and is therefore being included.

Other Services (Weekend and Holiday Pickup from Treatment Plants)			
Column A Description	Column B Quantity, Each*	Column C Unit Price	Unit Price Extension (Column B x Column C)
NWWTP Samples (50 Woodpecker St., Baton Rouge, LA 70807)	114	\$40.00	\$4,560.00
SWWTP Samples (2850 Gardere Ln., Baton Rouge, LA 70820)	114	\$40.00	\$4,560.00
<i>Other Services Weekends/Holiday Pickups Subtotal</i>			\$9,120.00

Other Services (Weekday Pickup from Treatment Plants)			
Column A Description	Column B Quantity, Each*	Column C Unit Price	Unit Price Extension (Column B x Column C)
NWWTP Samples (50 Woodpecker St., Baton Rouge, LA 70807)	251	N/C	\$0.00
SWWTP Samples (2850 Gardere Ln., Baton Rouge, LA 70820)	251	N/C	\$0.00

Other Services (As Needed Weekday Pickup from Environmental Division)			
Column A Description	Column B Quantity, Each*	Column C Unit Price	Unit Price Extension (Column B x Column C)
Environmental Division Samples (Either current location: 345 Chippewa St., Baton Rouge, LA 70805 or further location 12422 Florida Blvd., Baton Rouge, LA 70806 or to the sampling contractor as directed by City Parish)	65	N/C	\$0.00
<i>Other Services Weekday Pickups Subtotal</i>			\$0.00
<b>Sum of Totals (Analytical Total + Other Services Subtotals)</b>			<b>\$278,263.00</b>

\*Number of pickups are estimated in Column B could vary depending on situations.



*ATTACHMENT C*

PERMITS AND LOCATIONS OF SAMPLING SITES

**ATTACHMENT C**  
**PERMITS AND LOCATIONS OF SAMPLING SITES**  
 CITY OF BATON ROUGE  
 PARISH OF EAST BATON ROUGE

PERMIT #	FACILITY NAME	ADDRESS
<b>MAJOR WASTEWATER TREATMENT PLANTS</b>		
LA0036412	South Wastewater Treatment Plant	2850 Gardere Lane Baton Rouge, LA 70820
LA0036439	North Wastewater Treatment Plant	50 Woodpecker Street Baton Rouge, LA 70807
<b>SATELLITE WASTEWATER PACKAGE PLANTS</b>		
LAG530178	Chaneyville Community Center	13211 Jackson Road Zachary, LA 70791
LAG570139	Shadow Oaks Subdivision	2100 Jon Michelle Drive Baton Rouge, LA 70815
LAG540279	Lake Jolie Vue	Treakle Drive Zachary, LA 70791
LAG530179	Pleasant Park Subdivision	2300 Pony Street Zachary, LA 70791
<b>NORTH LANDFILL</b>		
LA0086169	North Landfill	16001 Samuels Road Zachary, LA 70791

**ATTACHMENT D**  
**ANALYTICAL SCHEDULE**  
CITY OF BATON ROUGE  
PARISH OF EAST BATON ROUGE

Test	Frequency	Total Per Event	Required Turnaround Time
<b>Major Wastewater Treatment Plants (LPDES)</b>			
<i>Water Samples</i>			
Biochemical Oxygen Demand	Daily	6	6 days
Total Suspended Solids	Daily	6	1 day
Fecal Coliform	Daily	2	1 day
Toxicity - Daphnia Pulex	Quarterly (4x/Year)	2	7 days
Toxicity - Pimephales promelas	Quarterly (4x/Year)	2	7 days
Total Phosphorus (As P)	Quarterly (4x/Year)	2	5 days
Total Nitrogen (As N)	Quarterly (4x/Year)	2	5 days
Biomonitoring, Coefficient of Variation, 48-Hour Acute, Daphnia pulex	Quarterly (4x/Year)	2	14 days
Biomonitoring, Coefficient of Variation, 48-Hour Acute, Pimephales promelas	Quarterly (4x/Year)	2	14 days
Biomonitoring, Low Flow Pass/Fail Static Renewal, 48-Hour Acute, Daphnia pulex	Quarterly (4x/Year)	2	14 days
Biomonitoring, Low Flow Pass/Fail Static Renewal, 48-Hour Acute, Pimephales promelas	Quarterly (4x/Year)	2	14 days
Biomonitoring, NOEC Lethality Static Renewal, 48-Hour Acute, Daphnia pulex	Quarterly (4x/Year)	2	14 days
Biomonitoring, NOEC Lethality Static Renewal, 48-Hour Acute, Pimephales promelas	Quarterly (4x/Year)	2	14 days
Total Cyanide	Biannually (2x/Year)	4	14 days
Fluoride	Biannually (2x/Year)	2	14 days
Nitrate-N	Biannually (2x/Year)	2	14 days
Antimony	Biannually (2x/Year)	4	14 days
Arsenic	Biannually (2x/Year)	4	14 days
Barium	Biannually (2x/Year)	2	14 days
Beryllium	Biannually (2x/Year)	4	14 days
Cadmium	Biannually (2x/Year)	4	14 days
Chromium	Biannually (2x/Year)	4	14 days
Chromium III	Biannually (2x/Year)	4	14 days
Copper	Biannually (2x/Year)	4	14 days
Lead	Biannually (2x/Year)	4	14 days
Mercury	Biannually (2x/Year)	4	14 days

Molybdenum	Biannually (2x/Year)	4	14 days
Nickel	Biannually (2x/Year)	4	14 days
Selenium	Biannually (2x/Year)	4	14 days
Silver	Biannually (2x/Year)	4	14 days
Thallium	Biannually (2x/Year)	4	14 days
Zinc	Biannually (2x/Year)	4	14 days
Chromium VI	Biannually (2x/Year)	4	14 days
Total Phenols	Biannually (2x/Year)	4	14 days
Volatile Organics (See Appendix I – CWA Methods for list)	Biannually (2x/Year)	4	14 days
Base/Neutrals and Acids (See Appendix I – CWA Methods for list)	Biannually (2x/Year)	4	14 days
Dioxins (2,3,7,8-TCDD)	Biannually (2x/Year)	4	14 days
Pesticides (See Appendix I – CWA Methods for list)	Biannually (2x/Year)	4	14 days
Polychlorinated Biphenyls	Biannually (2x/Year)	4	14 days
<i>Sludge Samples All sludge samples should follow SW-846 Methods</i>			
Total Solids	Daily	6	1 day
Volatile Solids	Daily	6	1 day
TCLP			
2-Methylphenol	Annually (1x/Year)	2	7 days
3-Methylphenol	Annually (1x/Year)	2	7 days
4-Methylphenol	Annually (1x/Year)	2	7 days
Pentachlorophenol	Annually (1x/Year)	2	7 days
2,4,5-Trichlorophenol	Annually (1x/Year)	2	7 days
2,4,6-Trichlorophenol	Annually (1x/Year)	2	7 days
1,4-Dichlorobenzene	Annually (1x/Year)	2	7 days
2,4-Dinitrotoluene	Annually (1x/Year)	2	7 days
Hexachlorobenzene	Annually (1x/Year)	2	7 days
Hexachlorobutadiene	Annually (1x/Year)	2	7 days
Hexachloroethane	Annually (1x/Year)	2	7 days
Nitrobenzene	Annually (1x/Year)	2	7 days
Pyridine	Annually (1x/Year)	2	7 days
Benzene	Annually (1x/Year)	2	7 days
Carbon Tetrachloride	Annually (1x/Year)	2	7 days
Chlorobenzene	Annually (1x/Year)	2	7 days
Chloroform	Annually (1x/Year)	2	7 days
1,2-Dichloroethane	Annually (1x/Year)	2	7 days
1,1-Dichloroethylene	Annually (1x/Year)	2	7 days
Methyl Ethyl Ketone	Annually (1x/Year)	2	7 days
Tetrachloroethylene	Annually (1x/Year)	2	7 days
Trichloroethylene	Annually (1x/Year)	2	7 days
Vinyl Chloride	Annually (1x/Year)	2	7 days
Arsenic	Annually (1x/Year)	2	7 days

Barium	Annually (1x/Year)	2	7 days
Cadmium	Annually (1x/Year)	2	7 days
Chromium	Annually (1x/Year)	2	7 days
Lead	Annually (1x/Year)	2	7 days
Mercury	Annually (1x/Year)	2	7 days
Selenium	Annually (1x/Year)	2	7 days
Silver	Annually (1x/Year)	2	7 days
Aroclor 1016	Annually (1x/Year)	2	7 days
Aroclor 1221	Annually (1x/Year)	2	7 days
Aroclor 1232	Annually (1x/Year)	2	7 days
Aroclor 1242	Annually (1x/Year)	2	7 days
Aroclor 1248	Annually (1x/Year)	2	7 days
Aroclor 1254	Annually (1x/Year)	2	7 days
Aroclor 1260	Annually (1x/Year)	2	7 days
Aroclor 1016	Annually (1x/Year)	2	7 days
Chlordane	Annually (1x/Year)	2	7 days
Endrin	Annually (1x/Year)	2	7 days
Gamma-BHC	Annually (1x/Year)	2	7 days
Heptachlor	Annually (1x/Year)	2	7 days
Heptachlor epoxide	Annually (1x/Year)	2	7 days
Methoxychlor	Annually (1x/Year)	2	7 days
Toxaphene	Annually (1x/Year)	2	7 days
2,4-D	Annually (1x/Year)	2	7 days
2,4,5-TP (Silvex)	Annually (1x/Year)	2	7 days
Paint Filter Test	Annually (1x/Year)	2	7 days
Polychlorinated Biphenyls	Annually (1x/Year)	2	7 days
Total Metals			
Arsenic	Bi-monthly (6x/Year)	2	14 days
Cadmium	Bi-monthly (6x/Year)	2	14 days
Chromium	Bi-monthly (6x/Year)	2	14 days
Copper	Bi-monthly (6x/Year)	2	14 days
Lead	Bi-monthly (6x/Year)	2	14 days
Mercury	Bi-monthly (6x/Year)	2	14 days
Molybdenum	Bi-monthly (6x/Year)	2	14 days
Nickel	Bi-monthly (6x/Year)	2	14 days
Selenium	Bi-monthly (6x/Year)	2	14 days
Silver	Bi-monthly (6x/Year)	2	14 days
Zinc	Bi-monthly (6x/Year)	2	14 days
<b>Satellite Wastewater Treatment Package Plants (LPDES)</b>			
Biochemical Oxygen Demand	Monthly (12x/Year)	1	6 days
Total Suspended Solids	Monthly (12x/Year)	1	1 day

Fecal Coliform	Monthly (12x/Year)	1	1 day
Biochemical Oxygen Demand	Quarterly (4x/Year)	1	6 days
Total Suspended Solids	Quarterly (4x/Year)	1	1 day
Fecal Coliform	Quarterly (4x/Year)	1	1 day
Biochemical Oxygen Demand	Biannually (2x/Year)	2	6 days
Total Suspended Solids	Biannually (2x/Year)	2	1 day
Fecal Coliform	Biannually (2x/Year)	2	1 day
<b>Industrial Pretreatment Program - Significant Industrial Users</b>			
2,4,6-Trichlorophenol	-	8	14 days
Acid Extractable	-	4	14 days
Total Arsenic	-	22	14 days
Base Neutral	-	4	14 days
Biochemical Oxygen Demand	-	28	14 days
Bis(2-ethylhexyl)phthalate	-	8	14 days
Total Cadmium	-	22	14 days
Carbazole	-	8	14 days
Chemical Oxygen Demand	-	26	14 days
Total Chromium	-	22	14 days
Total Cobalt	-	8	14 days
Total Copper	-	28	14 days
Cyanide Total	-	22	14 days
Fluoranthene	-	8	14 days
Total Lead	-	24	14 days
Total Mercury 0.0005 ug/ml	-	22	14 days
n-Decane	-	8	14 days
Total Nickel	-	22	14 days
n-Octadecane	-	8	14 days
Non-Polar Material (SGT-HEM)	-	12	14 days
o-Cresol	-	8	14 days
Oil and Grease	-	28	14 days
p-Cresol	-	8	14 days
Phenol Total	-	14	14 days
Total Silver	-	24	14 days
Tin	-	8	14 days
Total Organic Carbon	-	26	14 days
Total Suspended Solids	-	28	14 days
Total Toxic Organics	-	2	14 days
Volatiles	-	4	14 days
Total Zinc	-	28	14 days
<b>Industrial Pretreatment Program - Illegal Dumping Investigation</b>			
Total Organic Carbon	-	12	5 days

Oil and Grease	-	12	5 days
Total Toxic Organics (TTO) (Appendix H)			5 days
Acrolein	-	12	5 days
Acrylonitrile	-	12	5 days
Benzene	-	12	5 days
Bromoform	-	12	5 days
Carbon tetrachloride	-	12	5 days
Chlorobenzene	-	12	5 days
Chlorodibromomethane	-	12	5 days
Chloroethane	-	12	5 days
2-Chloroethyl vinyl ether	-	12	5 days
Chloroform	-	12	5 days
Dichlorobromomethane	-	12	5 days
1,1-Dichloroethane	-	12	5 days
1,2-Dichloroethane	-	12	5 days
1,1-Dichloroethylene	-	12	5 days
1,2-Dichloropropane	-	12	5 days
1,3-Dichloropropylene	-	12	5 days
Ethylbenzene	-	12	5 days
Methyl bromide	-	12	5 days
Methyl chloride	-	12	5 days
Methylene chloride	-	12	5 days
1,1,2,2-Tetrachloroethane	-	12	5 days
Tetrachloroethylene	-	12	5 days
Toluene	-	12	5 days
1,2-trans-Dichloroethylene	-	12	5 days
1,1,1-Trichloroethane	-	12	5 days
1,1,2-Trichloroethane	-	12	5 days
Trichloroethylene	-	12	5 days
Vinyl chloride	-	12	5 days
2-Chlorophenol	-	12	5 days
o-Cresol (2-methylphenol)	-	12	5 days
p-Cresol (4-methylphenol)	-	12	5 days
2,4-Dichlorophenol	-	12	5 days
2,4-Dimethylphenol	-	12	5 days
4,6-Dinitro-o-cresol	-	12	5 days
2,4-Dinitrophenol	-	12	5 days
2-Nitrophenol	-	12	5 days
4-Nitrophenol	-	12	5 days
p-Chloro-m-cresol	-	12	5 days
Pentachlorophenol	-	12	5 days
Phenol	-	12	5 days
2,4,6-Trichlorophenol	-	12	5 days
Acenaphthene	-	12	5 days
Acenaphthylene	-	12	5 days

Anthracene	-	12	5 days
Benzidine	-	12	5 days
Benzo(a)anthracene	-	12	5 days
Benzo(a)pyrene	-	12	5 days
3,4-Benzofluoranthene	-	12	5 days
Benzo(ghi)perylene	-	12	5 days
Benzo(k)fluoranthene	-	12	5 days
Bis(2-chloroethoxy)methane	-	12	5 days
Bis(2-chloroethyl)ether	-	12	5 days
Bis(2-chloroisopropyl)ether	-	12	5 days
Bis(2-ethylhexyl)phthalate	-	12	5 days
4-Bromophenyl phenyl ether	-	12	5 days
Butylbenzyl phthalate	-	12	5 days
Carbazole	-	12	5 days
2-Chloronaphthalene	-	12	5 days
4-Chlorophenyl phenyl ether	-	12	5 days
Chrysene	-	12	5 days
n-Decane	-	12	5 days
Dibenzo(a,h)anthracene	-	12	5 days
1,2-Dichlorobenzene	-	12	5 days
1,3-Dichlorobenzene	-	12	5 days
1,4-Dichlorobenzene	-	12	5 days
3,3'-Dichlorobenzidine	-	12	5 days
Diethyl phthalate	-	12	5 days
Dimethyl phthalate	-	12	5 days
Di-n-butyl phthalate	-	12	5 days
2,4-dinitrotoluene	-	12	5 days
2,6-dinitrotoluene	-	12	5 days
Di-n-octyl phthalate	-	12	5 days
1,2-Diphenylhydrazine (as azobenzene)	-	12	5 days
Fluoranthene	-	12	5 days
Fluorene	-	12	5 days
Hexachlorobenzene	-	12	5 days
Hexachlorobutadiene	-	12	5 days
Hexachlorocyclopentadiene	-	12	5 days
Hexachloroethane	-	12	5 days
Indeno (1,2,3-cd)pyrene	-	12	5 days
Isophorone	-	12	5 days
Naphthalene	-	12	5 days
Nitrobenzene	-	12	5 days
N-Nitrosodimethylamine	-	12	5 days
N-Nitrosodi-n-propylamine	-	12	5 days
N-Nitrosodiphenylamine	-	12	5 days
n-Octadecane	-	12	5 days
Phenanthrene	-	12	5 days



Pyrene	-	12	5 days
1,2,4-Trichlorobenzene	-	12	5 days
Total Arsenic	-	12	5 days
Total Cadmium	-	12	5 days
Total Chromium	-	12	5 days
Biochemical Oxygen Demand	-	12	5 days
Chemical Oxygen Demand	-	12	5 days
Oil and Grease	-	12	5 days
Total Organic Carbon	-	12	5 days
Total Suspended Solids	-	12	5 days
Cyanide Total	-	12	5 days
Total Zinc	-	12	5 days
Total Nickel	-	12	5 days
Total Silver	-	12	5 days
Total Copper	-	12	5 days
Total Lead	-	12	5 days
Total Mercury 0.0005 ug/ml	-	12	5 days
<b>North Landfill Groundwater Monitoring</b>			
	<i>All groundwater monitoring should follow SW-846 Methods</i>		
1,1,1,2-Tetrachloroethane	Triannually (3x/Year)	11	14 days
1,1,1-Trichloroethane	Triannually (3x/Year)	11	14 days
1,1,2,2-Tetrachloroethane	Triannually (3x/Year)	11	14 days
1,1,2-Trichloroethane	Triannually (3x/Year)	11	14 days
1,1-Dichloroethane	Triannually (3x/Year)	11	14 days
1,2,3-Trichloropropane	Triannually (3x/Year)	11	14 days
1,2-Dibromo-3-chloropropane	Triannually (3x/Year)	11	14 days
1,2-Dibromomethane (1,2-Dibromoethane)	Triannually (3x/Year)	11	14 days
1,2-Dichlorobenzene	Triannually (3x/Year)	11	14 days
1,2-Dichloroethane	Triannually (3x/Year)	11	14 days
1,2-Dichloropropane	Triannually (3x/Year)	11	14 days
1,4-Dichlorobenzene	Triannually (3x/Year)	11	14 days
2-Hexanone	Triannually (3x/Year)	11	14 days
Acetone	Triannually (3x/Year)	11	14 days
Acrylonitrile	Triannually (3x/Year)	11	14 days
Antimony (and compounds)	Triannually (3x/Year)	11	14 days
Arsenic (and compounds)	Triannually (3x/Year)	11	14 days
Barium (and compounds)	Triannually (3x/Year)	11	14 days
Benzene	Triannually (3x/Year)	11	14 days
Beryllium, Total (as Be)	Triannually (3x/Year)	11	14 days
Bromoform	Triannually (3x/Year)	11	14 days
Cadmium (and compounds)	Triannually (3x/Year)	11	14 days
Carbon disulfide	Triannually (3x/Year)	11	14 days
Carbon tetrachloride	Triannually (3x/Year)	11	14 days
Chlorobenzene	Triannually (3x/Year)	11	14 days
Chlorobromomethane (Bromochloromethane)	Triannually (3x/Year)	11	14 days

Chlorodibromomethane	Triannually (3x/Year)	11	14 days
Chloroethane	Triannually (3x/Year)	11	14 days
Chloroform	Triannually (3x/Year)	11	14 days
Chromium, Total (as Cr)	Triannually (3x/Year)	11	14 days
Cobalt Compounds	Triannually (3x/Year)	11	14 days
Copper, Total (as Cu)	Triannually (3x/Year)	11	14 days
Dichlorobromomethane	Triannually (3x/Year)	11	14 days
Dichloromethane	Triannually (3x/Year)	11	14 days
Iodomethane	Triannually (3x/Year)	11	14 days
Lead compounds	Triannually (3x/Year)	11	14 days
Methyl bromide	Triannually (3x/Year)	11	14 days
Methyl chloride	Triannually (3x/Year)	11	14 days
Methyl ethyl ketone	Triannually (3x/Year)	11	14 days
Methyl isobutyl ketone	Triannually (3x/Year)	11	14 days
Methylene bromide	Triannually (3x/Year)	11	14 days
Nickel (and compounds)	Triannually (3x/Year)	11	14 days
Selenium (and compounds)	Triannually (3x/Year)	11	14 days
Sliver, Total (as Ag)	Triannually (3x/Year)	11	14 days
Styrene	Triannually (3x/Year)	11	14 days
Tetrachlorethylene	Triannually (3x/Year)	11	14 days
Thallium, Total (as Tl)	Triannually (3x/Year)	11	14 days
Toluene	Triannually (3x/Year)	11	14 days
Trichloroethylene	Triannually (3x/Year)	11	14 days
Trichlorofluoromethane	Triannually (3x/Year)	11	14 days
Vanadium, Total (as V)	Triannually (3x/Year)	11	14 days
Vinyl acetate	Triannually (3x/Year)	11	14 days
Vinyl chloride	Triannually (3x/Year)	11	14 days
Vinylidene chloride	Triannually (3x/Year)	11	14 days
Xylene (mixed isomers)	Triannually (3x/Year)	11	14 days
Zinc (and compounds)	Triannually (3x/Year)	11	14 days
cis 1,3-Dichloropropylene	Triannually (3x/Year)	11	14 days
cis-1,2-Dichloroethene	Triannually (3x/Year)	11	14 days
trans-1,2-Dichloroethene	Triannually (3x/Year)	11	14 days
trans-1,3-Dichloropropene	Triannually (3x/Year)	11	14 days
trans-1,4-Dichlorobutene-2	Triannually (3x/Year)	11	14 days
Ethylbenzene	Triannually (3x/Year)	11	14 days
Chloride	Triannually (3x/Year)	11	14 days
Sulfate	Triannually (3x/Year)	11	14 days
<b>SSO Program Project</b>			
Fecal Streptococci	Quarterly (4x/Year)	1	5 days
Fecal Enterococci	Quarterly (4x/Year)	1	5 days
<b>North Landfill LPDES Permit Outfall 002</b>			
Carbon, total organic	Annually (1x/Year)	1	14 days

Oil and Grease	Annually (1x/Year)	1	14 days
Total Suspended Solids (TSS)	Quarterly (4x/Year)	1	14 days
<b>North Landfill LPDES Permit Outfall 003</b>			
Carbon, total organic	Annually (1x/Year)	1	14 days
Oil and Grease	Annually (1x/Year)	1	14 days
Total Suspended Solids	Quarterly (4x/Year)	1	14 days
<b>North Landfill LPDES Permit Outfall 004a</b>			
Carbon, total organic	Monthly (12x/Year)	1	14 days
COD (high level)	Monthly (12x/Year)	1	14 days
Oil and Grease	Monthly (12x/Year)	1	14 days
Total Suspended Solids	Monthly (12x/Year)	1	14 days
<b>North Landfill LPDES Permit Outfall 009</b>			
Ammonia Nitrogen, Total (as N)	Monthly (12x/Year)	1	14 days
Benzoic Acid	Quarterly (4x/Year)	1	14 days
Carbon, total organic	Annually (1x/Year)	1	14 days
Oil and Grease	Annually (1x/Year)	1	14 days
p-Cresol	Quarterly (4x/Year)	1	14 days
Phenol	Quarterly (4x/Year)	1	14 days
Total Suspended Solids	Quarterly (4x/Year)	1	14 days
Zinc, Total (as Zn)	Quarterly (4x/Year)	1	14 days
<b>North Landfill LPDES Permit Outfall 010</b>			
Carbon, total organic	Quarterly (4x/Year)	1	14 days
Total Suspended Solids	Quarterly (4x/Year)	1	14 days
<b>Industrial Pretreatment Program - Establishment of Local Limits - NWWTP</b>			
Total Arsenic	Single Event 17 consecutive days	3	14 days
Total Cadmium	Single Event 17 consecutive days	3	14 days
Chromium Total	Single Event 17 consecutive days	3	14 days
Total Copper	Single Event 17 consecutive days	3	14 days
Total Cyanide	Single Event 17 consecutive days	3	14 days
Total Lead	Single Event 17 consecutive days	3	14 days
Total Nickel	Single Event 17 consecutive days	3	14 days
Total Mercury (0.0005ug/ml)	Single Event 17 consecutive days	3	14 days
Total Molybdenum	Single Event 17 consecutive days	3	14 days
Total Selenium	Single Event 17 consecutive days	3	14 days
Total Silver	Single Event 17 consecutive days	3	14 days
Total Zinc	Single Event 17 consecutive days	3	14 days
% Solids	Single Event 17 consecutive days	1	14 days
<b>Industrial Pretreatment Program - Establishment of Local Limits - SWWTP</b>			
Total Arsenic	Single Event 17 consecutive days	3	14 days

Total Cadmium	Single Event 17 consecutive days	3	14 days
Chromium Total	Single Event 17 consecutive days	3	14 days
Total Copper	Single Event 17 consecutive days	3	14 days
Total Cyanide	Single Event 17 consecutive days	3	14 days
Total Lead	Single Event 17 consecutive days	3	14 days
Total Nickel	Single Event 17 consecutive days	3	14 days
Total Mercury (0.0005 ug/ml)	Single Event 17 consecutive days	3	14 days
Total Molybdenum	Single Event 17 consecutive days	3	14 days
Total Selenium	Single Event 17 consecutive days	3	14 days
Total Silver	Single Event 17 consecutive days	3	14 days
Total Zinc	Single Event 17 consecutive days	3	14 days
% Solids (Sludge)	Single Event 17 consecutive days	1	14 days
<b>Municipal Separate Storm Sewer – MS4 Major Outfalls 001-005</b>			
Biochemical Oxygen Demand (BOD5)	Semiannually (2x/Year)	5	7 days
2,4-D	Semiannually (2x/Year)	5	7 days
Atrazine	Semiannually (2x/Year)	5	7 days
Chemical Oxygen Demand (COD)	Semiannually (2x/Year)	5	7 days
Chlorides	Semiannually (2x/Year)	5	7 days
Chlorine	Semiannually (2x/Year)	5	7 days
Color (Cobalt-Platinum Units)	Semiannually (2x/Year)	5	7 days
Dissolved Phosphorus	Semiannually (2x/Year)	5	7 days
Fecal Coliform	Semiannually (2x/Year)	5	7 days
Hardness (as CaCO3)	Semiannually (2x/Year)	5	7 days
Oil and Grease	Semiannually (2x/Year)	5	7 days
Priority Pollutant Scan (See Appendix G)	Semiannually (2x/Year)	5	7 days
Sulfates	Semiannually (2x/Year)	5	7 days
Total Cadmium	Semiannually (2x/Year)	5	7 days
Total Copper	Semiannually (2x/Year)	5	7 days
Total Dissolved Solids	Semiannually (2x/Year)	5	7 days
Total Kjeldahl Nitrogen	Semiannually (2x/Year)	5	7 days
Total Lead	Semiannually (2x/Year)	5	7 days
Total Mercury	Semiannually (2x/Year)	5	7 days
Total Nickel	Semiannually (2x/Year)	5	7 days
Total Nitrogen	Semiannually (2x/Year)	5	7 days
Total PCBs	Semiannually (2x/Year)	5	7 days
Total Phosphorus	Semiannually (2x/Year)	5	7 days
Total Suspended Solids	Semiannually (2x/Year)	5	7 days
Total Zinc	Semiannually (2x/Year)	5	7 days

**ATTACHMENT E**  
**PRIORITY POLLUTANT LIST (MQLs)**  
**CITY OF BATON ROUGE**  
**PARISH OF EAST BATON ROUGE**

	Required MQL, µg/L
<b><i>TABLE II</i></b>	
<b>VOLATILES</b>	
Acrolein	50
Acrylonitrile	20
Benzene	10
Bromoform	10
Carbon tetrachloride	2
Chlorobenzene	10
Chlorodibromomethane	10
Chloroethane	50
2-chloroethyl vinyl ether	10
Chloroform	10
Dichlorobromomethane	10
1,1-dichloroethane	10
1,2-dichloroethane	10
1,1-dichloroethylene	10
1,2-dichloropropane	10
1,3-dichloropropylene	10
Ethylbenzene	10
Methyl bromide	50
Methyl chloride	50
Methylene chloride	20
para-dichlorobenzene	-----
1,1,2,2-tetrachloroethane	10
Tetrachloroethylene	10
Toluene	10
1,2-trans-dichloroethylene	10
1,1,1-trichloroethane	10
1,1,2-trichloroethane	10
Trichloroethylene	10
Vinyl chloride	10
<b>ACID COMPOUNDS</b>	
2-chlorophenol	10
3-chlorophenol	10
4-chlorophenol	10

2,4-dichlorophenol	10
2,3-dichlorophenol	10
2,5-dichlorophenol	10
2,6-dichlorophenol	10
3,4-dichlorophenol	10
2,4-dimethylphenol	10
4,6-dinitro-o-cresol	50
2,4-dinitrophenol	50
2-nitrophenol	20
4-nitrophenol	50
p-chloro-m-cresol	10
Pentachlorophenol	5
Phenol	10
2,4,6-trichlorophenol	10
<b>PESTICIDES</b>	
Aldrin	0.01
Alpha-BHC	0.05
Beta-BHC	0.05
Gamma-BHC	0.05
Delta-BHC	0.05
Chlordane	0.2
4,4'-DDT	0.02
4,4'-DDE	0.1
4,4'-DDD	0.1
2,4-dichlorophenoxyacetic acid	10
2-(2,4,5-trichlorophenoxy)propionic acid	4
Dieldrin	0.02
Alpha-endosulfan	0.01
Beta-endosulfan	0.02
Endosulfan sulfate	0.1
Endrin	0.02
Endrin aldehyde	0.1
Heptachlor	0.01
Heptachlor epoxide	0.01
PCB-1242	0.2
PCB-1254	0.2
PCB-1221	0.2
PCB-1232	0.2
PCB-1248	0.2
PCB-1260	0.2
PCB-1016	0.2

PCB's-TOTAL	0.2
2,3,7,8-tetrachlorodibenzo-p-dioxin	0.00001
Toxaphene	0.3
<b>BASE/NEUTRAL COMPOUNDS</b>	
Acenaphthene	10
Acenaphthylene	10
Anthracene	10
Benzidine	50
Benzo(a)anthracene	5
Benzo(a)pyrene	5
3,4-benzofluoranthene	10
Benzo(ghi)perylene	20
Benzo(k)fluoranthene	5
Bis(2-chloroethoxy)methane	10
Bis(2-chloroethyl)ether	10
Bis(2-chloro-1-methylethyl)ether	10
Bis(2-chloroisopropyl)ether	10
Bis(2-ethylhexyl)phthalate	10
4-bromophenyl phenyl ether	10
Butylbenzyl phthalate	10
2-chloronaphthalene	10
4-chlorophenyl phenyl ether	10
Chrysene	5
Dibenzo(a,h)anthracene	5
1,2-dichlorobenzene	10
1,3-dichlorobenzene	10
1,4-dichlorobenzene	10
3,3'-dichlorobenzidine	5
Diethyl phthalate	10
Dimethyl phthalate	10
Di-n-butyl phthalate	10
2,4-dinitrotoluene	10
2,6-dinitrotoluene	10
Di-n-octyl phthalate	10
1,2-diphenylhydrazine (as azobenzene)	20
Fluoranthene	10
Fluorene	10
Hexachlorobenzene	5
Hexachlorobutadiene	10
Hexachlorocyclopentadiene	10
Hexachloroethane	20

Indeno (1,2,3-cd)pyrene	5
Isophorone	10
Naphthalene	10
Nitrobenzene	10
N-nitrosodimethylamine	50
N-nitrosodi-n-propylamine	20
N-nitrosodiphenylamine	20
Phenanthrene	10
Pyrene	10
1,2,4-trichlorobenzene	10

***TABLE III***

**METALS CYANIDE and PHENOLS**

Antimony, Total	60
Arsenic, Total	5
Beryllium, Total	0.5
Cadmium, Total	1
Chromium (3+)	10
Chromium (6+)	10
Chromium, Total	10
Copper, Total	3
Lead, Total	2
Mercury, Total (Low Level)	0.0005/0.005
Molybdenum	30
Nickel, Total	5
Selenium, Total	5
Silver, Total	0.5
Thallium, Total	0.5
Zinc, Total	20
Cyanide, Total	10
Phenols, Total	5



**ATTACHMENT F**  
**TOTAL TOXIC ORGANICS (TTO) LIST**  
 CITY OF BATON ROUGE  
 PARISH OF EAST BATON ROUGE

<b><i>Total Toxic Organic (TTO) List</i></b>
<b><i>(91 Compounds)</i></b>
<b><i>Volatile Compounds (mg/L) - 28</i></b>
Acrolein
Acrylonitrile
Benzene
Bromoform
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethyl vinyl ether
Chloroform
Dichlorobromomethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloropropane
1,3-Dichloropropylene
Ethyl Benzene
Methyl Bromide
Methyl Chloride
Methylene Chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,2-trans-Dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl Chloride
<b><i>Acid Extractable Compounds (mg/L) - 13</i></b>
2-Chlorophenol
o-Cresol
p-Cresol
2,4-Dichlorophenol
2,4-Dimethylphenol

4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
p-Chloro-m-cresol
Pentachlorophenol
Phenol
Phenol Total
<b><i>Base/Neutral Extractable (mg/L) - 50</i></b>
Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
3,4-Benzofluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloro-1-methylethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
4-Bromophenyl phenyl ether
Butylbenzyl phthalate
Carbazole
2-Chloronaphthalene
4-Chlorophenyl phenyl ether
Chrysene
n-Decane
Dibenzo(a,h)anthracene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3'-Dichlorobenzidine
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
2,4-dinitrotoluene
2,6-dinitrotoluene
Di-n-octyl phthalate
1,2-Diphenylhydrazine (as azobenzene)

Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1,2,3-cd)pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
n-Octadecane
Phenanthrene
Pyrene
1,2,4-Trichlorobenzene

**ATTACHMENT G**  
**REQUIRED & RECOMMENDED ANALYTICAL TEST METHODS**  
**CITY OF BATON ROUGE**  
**PARISH OF EAST BATON ROUGE**

The City-Parish is required to use approved Clean Water Act (CWA) methods referenced to 40 CFR Part 136 for compliance purposes of wastewater measurements. The SW – 846 Methods (solid waste methods from EPA Office of Resource Conservation and Recovery) are not necessarily developed for the same monitoring purposes or matrices for which CWA methods are developed, thus it cannot be used interchangeably. However, our permitting authority, the Louisiana Department of Environmental Quality (LDEQ) allows the City-Parish, to use SW – 846 for analyzing sewage sludge (biosolids) and groundwater monitoring. Furthermore, the City-Parish is required to have these analytical test methods performed by any laboratory that is certified by the National Environmental Laboratory Accreditation Program (NELAP) or Louisiana Environmental Laboratory Accreditation Program (LELAP).

The following tables below are all excerpts from the **most recently updated** 40 CFR Part 136 and the SW – 846, please refer to these two references to check the entailed footnotes. Additionally, should a parameter does not have EPA recommended method, please refer to Louisiana Environmental Laboratory Accreditation Program (LELAP) column on the table. Lastly, please refer to these two references for the required containers, preservation techniques, sample preparation techniques, and holding times. No other methods should be utilized to substitute the methods on these tables.

GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
<b>ORGANIC ANALYTES</b>		
1,1,1,2-Tetrachloroethane	GC	SW 8021B
	GC/MS	SW 8260D
1,1,1-Trichloroethane (Methylchloroform)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,1,2,2-Tetrachloroethane	GC	SW 8021B
	GC/MS	SW 8260D
1,1,2-Trichloroethane	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,1-Dichloroethane (Ethylidene Chloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,2,3-Trichloropropane	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,2,- Dibromo-3-chloropropane (DBCP)	GC	SW 8011, SW 8021B, SW 8081B
	GC/MS	SW 8260D, SW 8270E
	VD/GC/MS	SW 8261
1,2- Dibromoethane (EDB, Ethylene dibromide)	GC	SW 8011, SW 8021B
	GC/MS	SW 8260D
1,2- Dichlorobenzene (o-Dichlorobenzene)	GC	SW 8021B, SW 8121
	GC/MS	SW 8260D, SW 8270E
	VD/GC/MS	SW 8261
	GC/FT-IR	SW 8410
1,2-Dichloroethane (Ethylene dichloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,2-Dichloropropane (Propylene dichloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,4- Dichlorobenzene (p-Dichlorobenzene)	GC	SW 8021B, SW 8121
	GC/MS	SW 8260D, SW 8270E
	VD/GC/MS	SW 8261
	GC/FT-IR	SW 8410
2-Hexanone (Methyl butyl ketone)	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
2-Propanone (Acetone)	GC	SW 8015C

GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	HPLC	SW 8315A
Acrylonitrile	GC	SW 8015C, SW 8031
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	HPLC	SW 8316
Benzene	GC	SW 8015C, SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Bromoform (Tribromomethane)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Carbon Disulfide	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Carbon Tetrachloride	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	Colorimetric Screening	SW 8535
Chlorobenzene	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chlorobromomethane (Bromochloromethane)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chlorodibromomethane (Dibromochloromethane)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chloroethane (Ethyl Chloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chloroform (Trichloromethane)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Dichlorobromomethane (Bromodichloromethane)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Dichloromethane, DCM (Methylene Chloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261

GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
Ethylbenzene	GC	SW 8015C, SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Iodomethane (Methyl Iodide)	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Bromomethane (Methyl Bromide)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chloromethane (Methyl Chloride)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Methyl Ethyl Ketone (MEK, 2-Butanone)	GC	SW 8015C
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Methyl Isobutyl Ketone (MIBK, 4-Methyl-2-pentanone)	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Dibromomethane, (Methylene Bromide)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Styrene	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Tetrachloroethylene (Tetrachloroethene, Perchloroethylene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Toluene	GC	SW 8015C, SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Trichloroethylene (Trichloroethene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	Colorimetric Screening	SW 8535
Trichlorofluoromethane (CFC-11)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Vinyl Acetate	GC/MS	SW 8260D
Vinyl Chloride	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Vinylidene Chloride (1,1-	GC	SW 8021B

<b>GROUNDWATER MONITORING</b>		
<b>Parameter</b>	<b>Methodology</b>	<b>EPA (SW 846)</b>
Dichloroethene, 1,1-Dichloroethylene)	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Xylenes	GC	SW 8015C, SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
cis-1,3-Dichloropropene	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
trans-1,3-Dichloropropene	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
trans-1,4-Dichloro-2-butene	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
<b>INORGANIC ANALYTES</b>		
Chloride	Capillary Ion Electrophoresis	SW 6500
	Ion Chromatography	SW 9056A
	HCl/Cl <sub>2</sub> Emission Sampling Train (Methods 0050 and 0051) by Anion Chromatography	SW 9057
	Potentiometric Determination of Chloride in Aqueous Samples with Ion-Selective Electrode	SW 9212
	Colorimetric, Automated Ferricyanide AAI	SW 9250
	(Colorimetric, Automated Ferricyanide AAI)	SW9251
	Titrimetric, Silver Nitrate	SW 9253
Sulfate	Capillary Ion Electrophoresis	SW 6500
	Colorimetric, Automated, Chloranilate	SW 9035
	Colorimetric, Automated, Methylthymol Blue, AA II	SW 9036
	Turbidimetric	SW 9038
	Ion Chromatography	SW 9056A



GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
Antimony	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
		SW 6800
	Elemental and Speciated Isotope Dilution Mass Spectrometry	
	Flame AAS	SW 7000B
Arsenic	Antimony and Arsenic (Atomic Absorption, Borohydride Reduction)	SW 7062
	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	GFAAS	SW 7010
	Arsenic (Atomic Absorption, Gaseous Hydride)	SW 7061A
	Antimony and Arsenic (Atomic Absorption, Borohydride Reduction)	SW 7062
Arsenic in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)	SW 7063	
Barium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Beryllium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Cadmium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Chromium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B

GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Cobalt	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Copper	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Lead	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Nickel	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Selenium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	GFAAS	SW 7010
	Selenium (Atomic Absorption, Gaseous Hydride)	SW 7741A
	Selenium (Atomic Absorption, Borohydride Reduction)	SW 7742
Silver	ICP-AES	SW 6010D

GROUNDWATER MONITORING		
Parameter	Methodology	EPA (SW 846)
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Thallium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Vanadium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Zinc	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Mercury	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	SW 7470A
	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	SW 7471B
	Mercury in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)	SW 7472

<b>GROUNDWATER MONITORING</b>		
<b>Parameter</b>	<b>Methodology</b>	<b>EPA (SW 846)</b>
	Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry	SW 7473
	Mercury in Sediment and Tissue Samples by Atomic Fluorescence Spectrometry	SW 7474

TCLP Sewage Sludge		
Parameter	Methodology	EPA (SW 846)
<b>ORGANIC ANALYTES</b>		
2-Methylphenol (o-cresol)	GC	SW 8041A
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
3-Methylphenol (m-cresol)	GC	SW 8041A
	GC/MS	SW 8270E
4-Methylphenol (p-cresol)	GC	SW 8041A
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
Pentachlorophenol	GC	SW 8041A
	GC/AED	SW 8085
	GC	SW 8151A
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
2,4,5-Trichlorophenol	GC	SW 8041A
	GC/AED	SW 8085
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
2,4,6-Trichlorophenol	GC	SW 8041A
	GC/AED	SW 8085
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
1,4-Dichlorobenzene	GC	SW 8021B
	GC	SW 8121
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
2,4-Dinitrotoluene (2,4-DNT)	GC	SW 8091
	GC	SW 8095
	GC/MS	SW 8270E
	HPLC	SW 8330A
	GC/FTIR	SW 8410
Hexachlorobenzene	GC	SW 8081B
	GC/AED	SW 8085
	GC	SW 8121
	GC/MS	SW 8270E
	TE/GC/MS	SW 8275A
	GC/FTIR	SW 8410

TCLP Sewage Sludge		
Parameter	Methodology	EPA (SW 846)
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	GC	SW 8021B
	GC	SW 8121
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
Hexachloroethane	GC	SW 8121
	GC/MS	SW 8260D
	GC/MS	SW 8270E
	GC/FTIR	SW 8410
Nitrobenzene (NB)	GC	SW 8091
	GC	SW 8095
	GC/MS	SW 8260D
	GC/MS	SW 8270E
	HPLC	SW 8330A
	GC/FTIR	SW 8410
Pyridine	GC	SW 8015C
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Benzene	GC	SW 8015C
	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Carbon Tetrachloride	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chlorobenzene	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Chloroform	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,2-Dichloroethane	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
1,1-Dichloroethylene (1,1-Dichloroethene, Vinylidene chloride, 1,1-DCE)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Methyl Ethyl Ketone (MEK, 2-Butanone)	GC	SW 8015C
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261

TCLP Sewage Sludge		
Parameter	Methodology	EPA (SW 846)
Tetrachloroethylene (Perchloroethylene, Tetrachloroethylene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Trichloroethylene (Trichloroethene)	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Vinyl Chloride	GC	SW 8021B
	GC/MS	SW 8260D
	VD/GC/MS	SW 8261
Polychlorinated Biphenyls (PCBs), as Aroclors or congeners	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1016 (PCB-1016)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1221 (PCB-1221)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1232 (PCB-1232)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1242 (PCB-1242)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1248 (PCB-1248)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1254 (PCB-1254)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Aroclor-1260 (PCB-1260)	GC/MS	SW 8082A
	GC/MS	SW 8270E
Chlordane (not otherwise specified, NOS)	GC	SW 8081B
	GC/MS	SW 8270E
Endrin	GC	SW 8081B
	GC/AED	SW 8085
	GC/MS	SW 8270E
$\gamma$ -BHC ( $\gamma$ -Hexachlorocyclohexane, Lindane)	GC	SW 8081B
	GC/AED	SW 8085
	GC	SW 8121
	GC/MS	SW 8270E
Heptachlor	GC	SW 8081B
	GC/AED	SW 8085
	GC/MS	SW 8270E
Heptachlor Epoxide	GC	SW 8081B
	GC/AED	SW 8085
	GC/MS	SW 8270E

<b>TCLP Sewage Sludge</b>		
<b>Parameter</b>	<b>Methodology</b>	<b>EPA (SW 846)</b>
Methoxychlor	GC	SW 8081B
	GC/AED	SW 8085
	GC/MS	SW 8270E
Toxaphene	GC	SW 8081B
	GC/MS	SW 8270E
	GC-NICI/MS	SW 8276
2,4-Dichlorophenoxyacetic acid (2,4-D)	GC	SW 8151A
	HPLC/TS/MS	SW 8321B
2,4,5-TP [Silvex,Fenoprop, 2-(2,4,5-trichlorophenoxy) propionic acid]	GC/AED	SW 8085
	GC	SW 8151A
	HPLC/TS/MS	SW 8321B
Paint Filter Liquids Test	Physical/Chemical Methods	SW 9095B
<b>INORGANIC ANALYTES</b>		
Arsenic	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	GFAAS	SW 7010
	Arsenic (Atomic Absorption, Gaseous Hydride)	SW 7061A
	Antimony and Arsenic (Atomic Absorption, Borohydride Reduction)	SW 7062
	Arsenic in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)	SW 7063
Barium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Cadmium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010



TCLP Sewage Sludge		
Parameter	Methodology	EPA (SW 846)
Chromium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Lead	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010
Mercury	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	SW 7470A
	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	SW 7471B
	Mercury in Aqueous Samples and Extracts by Anodic Stripping Voltammetry (ASV)	SW 7472
	Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry	SW 7473
	Mercury in Sediment and Tissue Samples by Atomic Fluorescence Spectrometry	SW 7474

TCLP Sewage Sludge		
Parameter	Methodology	EPA (SW 846)
Selenium	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	GFAAS	SW 7010
	Selenium (Atomic Absorption, Gaseous Hydride)	SW 7741A
	Selenium (Atomic Absorption, Borohydride Reduction)	SW 7742
Silver	ICP-AES	SW 6010D
	ICP-MS	SW 6020B
	XRFS	SW 6200
	Elemental and Speciated Isotope Dilution Mass Spectrometry	SW 6800
	Flame AAS	SW 7000B
	GFAAS	SW 7010

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
<b>VOLATILE COMPOUNDS</b>						
Acrolein	GC	603				
	GC/MS	624.1, <sup>4</sup> 1624 B				
Acrylonitrile	GC	603				
	GC/MS	624.1, <sup>4</sup> 1624 B			O-4127-96 <sup>13</sup>	
Benzene	GC	602	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Bromoform	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011			
Carbon tetrachloride	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Chlorobenzene	GC	601, 602	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Dibromochloromethane (Chlorodibromomethane)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Chloroethane	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup>	
2-Chloroethylvinyl ether	GC	601				
	GC/MS	624.1, 1624B				
Chloroform	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Bromodichloromethane	GC	601	6200 C-2011			

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
(Dichlorobromomethane)	GC/MS	624.1, 1624B	6200 B-2011			
1,1-Dichloroethane	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,2-Dichloroethane	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,1-Dichloroethene (1,1-Dichloroethylene)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,2-Dichloropropane	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
<i>cis</i> -1,3-Dichloropropene	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
<i>trans</i> -1,3-Dichloropropene (1,3-Dichloropropylene, 1,3-D, CAS#542-75-6)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Ethylbenzene	GC	602	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Bromomethane (Methyl Bromide)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011			
Chloromethane (Methyl Chloride)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Methylene chloride	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,1,2,2-Tetrachloroethane	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup>	
Tetrachloroethene (Tetrachloroethylene)	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
trans-1,2-Dichloroethene (1,2-trans-dichloroethylene)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Toluene	GC	602	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,1,1-Trichloroethane	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,1,2-Trichloroethane	GC	601	6200 C-2011		See footnote, <sup>3</sup> p. 130.	
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Trichloroethene (Trichloroethylene)	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
Vinyl chloride	GC	601	6200 C-2011			
	GC/MS	624.1, 1624B	6200 B-2011		O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
<b>BASE/NEUTRAL COMPOUNDS</b>						
Acenaphthene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Acenaphthylene	GC	610				

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Anthracene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Benzidine	Spectro-photometric				See footnote, <sup>3</sup> p.1.	
	GC/MS	625.1 <sup>5</sup> , 1625B	6410 B-2000			
	HPLC	605				
Benzo(a)anthracene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Benzo(a)pyrene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Benzo(b)fluoranthene (3,4-benzofluoranthene)	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Benzo(g,h,i)perylene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
	HPLC	610	6440 B-2005	D4657-92 (98)		
Benzo(k)fluoranthene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
bis(2-Chloroethoxy) methane	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
bis(2-Chloroethyl) ether	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2,2'-oxybis(1-chloropropane) <sup>12</sup> [also known as bis(2-Chloro-1-methylethyl) ether]	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Bis(2-chloroisopropyl)ether	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
bis(2-Ethylhexyl) phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
4-Bromophenyl phenyl ether	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Butyl benzyl phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2-Chloronaphthalene	GC	612				

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
4-Chlorophenyl phenyl ether	GC	611				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Chrysene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Dibenzo(a,h)anthracene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
1,2-Dichlorobenzene	GC	601, 602	6200 C-2011			
	GC/MS	624.1, 1625B	6200 B-2011		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,3-Dichlorobenzene	GC	601, 602	6200 C-2011			
	GC/MS	624.1, 1625B	6200 B-2011		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
1,4-Dichlorobenzene	GC	601, 602	6200 C-2011			
	GC/MS	624.1, 1625B	6200 B-2011		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	
3,3'-Dichlorobenzidine	GC/MS	625.1, 1625B	6410 B-2000			



ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	HPLC	605				
Diethyl phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Dimethyl phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Di-n-butyl phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2,4-Dinitrotoluene	GC	609				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2,6-Dinitrotoluene	GC	609				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Di-n-octyl phthalate	GC	606				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
1,2-Diphenylhydrazene (as azobenzene)	GC					
	GC/MS	625.1, 1625B				
Fluoranthene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Fluorene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	HPLC	610	6440 B-2005	D4657-92 (98)		
Hexachlorobenzene	GC	612				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Hexachlorobutadiene	GC	612				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup>	
Hexachlorocyclopentadiene	GC	612				
	GC/MS	625.1, <sup>5</sup> 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup>	
Hexachloroethane	GC	612				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup>	
Indeno(1,2,3-c,d) pyrene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Isophorone	GC	609				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Naphthalene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005			
Nitrobenzene	GC	609				

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC			D4657-92 (98)		
N-Nitrosodimethylamine	GC	607				
	GC/MS	625.1, <sup>5</sup> 1625 B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
N-Nitrosodi-n-propylamine	GC	607				
	GC/MS	625.1, <sup>5</sup> 1625 B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
N-Nitrosodiphenylamine	GC	607				
	GC/MS	625.1, <sup>5</sup> 1625 B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Phenanthrene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
Pyrene	GC	610				
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
	HPLC	610	6440 B-2005	D4657-92 (98)		
1,2,4-Trichlorobenzene	GC	612			See footnote, <sup>3</sup> p. 130.	
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27. O-4127-96 <sup>13</sup> , O-4436-16 <sup>14</sup>	

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
<b>ACID COMPOUNDS</b>						
2-Chlorophenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
3-Chlorophenol (no recommended method)	GC					
	GC/MS					8270D, 625.1
4-Chlorophenol (no recommended method)	GC					
	GC/MS					8270C, 8270 D, 8270 E
2,4-Dichlorophenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2,3-Dichlorophenol (no recommended method)	GC					
	GC/MS					8270C, 8270 D, 625.1
2,5-Dichlorophenol (no recommended method)	GC					
	GC/MS					8270C, 8270 D, 8270 E, 625.1
2,6-Dichlorophenol	GC					
	GC/MS	625.1				
3,4-Dichlorophenol (no recommended method)	GC					
	GC/MS					8270C, 8270 D, 8270 E, 625.1
2,4-Dimethylphenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2-Methyl-4,6-dinitrophenol (4,6-dinitro-o-cresol)	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	

**ORGANIC COMPOUNDS CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
2, 4-Dinitrophenol	GC	604	6420 B-2000		See footnote, <sup>9</sup> p. 27.	
	GC/MS	625.1, 1625B	6410 B-2000			
2-Nitrophenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
4-Nitrophenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
4-Chloro-3-methyl phenol (p-chloro-m-cresol)	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Pentachlorophenol	GC	604	6420 B-2000		See footnote, <sup>3</sup> p. 140.	
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
Phenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	
2,4,6-Trichlorophenol	GC	604	6420 B-2000			
	GC/MS	625.1, 1625B	6410 B-2000		See footnote, <sup>9</sup> p. 27.	

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
<b>PESTICIDE COMPOUNDS</b>						
Aldrin	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96 (02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
$\alpha$ -BHC	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.15	6410 B-2000		See footnote, <sup>11</sup> O-1126-95.	
$\beta$ -BHC	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
$\delta$ -BHC	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
$\gamma$ -BHC (Lindane)	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.15	6410 B-2000		See footnote, <sup>11</sup> O-1126-95.	

**ORGANIC COMPOUNDS CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Chlordane	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
4,4'-DDD	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3105-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
4,4'-DDE	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000		See footnote, <sup>11</sup> O-1126-95.	
4,4'-DDT	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
Dieldrin	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000		See footnote, <sup>11</sup> O-1126-95.	
Endosulfan I	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222).	
	GC/MS	625.15	6410 B-2000		See footnote, <sup>13</sup> O-2002-01.	
Endosulfan II	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.15	6410 B-2000		See footnote, <sup>13</sup> O-2002-01.	
Endosulfan Sulfate	GC	617, 608.3	6630 C-2007		See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
Endrin	GC	505, 508, 617, 1656, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	



ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
	GC/MS	525.1, 525.2, 625.1 <sup>5</sup>	6410 B-2000			
Endrin aldehyde	GC	617, 608.3	6630 C-2007		See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1				
Heptachlor	GC	505, 508, 617, 1656, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	525.1, 525.2, 625.1	6410 B-2000			
Heptachlor epoxide	GC	617, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>4</sup> O-3104-83; See footnote, <sup>6</sup> p. S73; See footnote, <sup>8</sup> 3M0222.	
	GC/MS	625.1	6410 B-2000			
PCB-1016	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
PCB-1221	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
PCB-1232	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
PCB-1242	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
PCB-1248	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
PCB-1254	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
PCB-1260	GC	608.3			See footnote, <sup>3</sup> p. 43; See footnote. <sup>8</sup>	
	GC/MS	625.1	6410 B-2000			
Total PCBs (no recommended method)	Total PCBs represents the sum of all measured PCB congeners					
2,3,7,8-Tetrachloro-dibenzo- <i>p</i> -dioxin (2,3,7,8-TCDD)	GC/MS	613, 625.1, <sup>5a</sup> 1613 B				

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
Toxaphene	GC	505, 508, 617, 1656, 608.3	6630 B-2007 & C-2007	D3086-90, D5812-96(02)	See footnote, <sup>3</sup> p. 7; See footnote, <sup>8</sup> See footnote, <sup>4</sup> O-3105-83.	
	GC/MS	525.1, 525.2, 625.1	6410 B-2000			
<b>HERBICIDE COMPOUNDS</b>						
Atrazine, ug/mL	GC	507, 619, 608.3			See footnote, <sup>3</sup> p. 83; See footnote, <sup>6</sup> p. S68; See footnote, <sup>9</sup> O-3106-93.	
	HPLC/MS				See footnote, <sup>12</sup> O-2060-01.	
	GC/MS	525.1, 525.2, 625.1			See footnote, <sup>11</sup> O-1126-95.	
2,4-Dichlorophenoxyacetic acid (2,4 D)	GC	1658/515.1/615/515.2/555				
2-(2,4,5-trichlorophenoxy)propionic acid (2,4,5-TP/ Silvex)	GC	615	6640 B-2006		See footnote, <sup>3</sup> p. 115; See footnote, <sup>4</sup> O-3105-83.	
<b>OTHER ORGANIC COMPOUNDS</b>						
Benzoic Acid	GC/MS	625.1				
Carbazole	GC/MS	625.1, 1625B				
n- Decane	GC/MS	625.1, 1625B				

ORGANIC COMPOUNDS CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
n- Octadecane	GC/MS	625.1, 1625B				
o- Cresol (2-methylphenol)	GC/MS	625.1, 1625B				
p- Cresol (4-methylphenol)	GC/MS	625.1, 1625B				

BIOLOGICAL CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
<b>AQUATIC TOXICITY</b>						
Toxicity, acute, fresh water organisms, LC <sub>50</sub> , percent effluent	<i>Ceriodaphnia dubia</i> acute	2002.0 <sup>26</sup>				
	<i>Daphnia pulex</i> and <i>Daphnia magna</i> acute	2021.0 <sup>26</sup>				
	Fathead Minnow, <i>Pimephales promelas</i> , and Bannerfin shiner, <i>Cyprinella leedsi</i> , acute	2000.0 <sup>26</sup>				
	Rainbow Trout, <i>Oncorhynchus mykiss</i> , and brook trout, <i>Salvelinus fontinalis</i> , acute	2019.0 <sup>26</sup>				
Toxicity, acute, estuarine and marine organisms of the Atlantic Ocean and Gulf of Mexico, LC <sub>50</sub> , percent effluent	Mysid, <i>Mysidopsis bahia</i> , acute	2007.0 <sup>26</sup>				
	Sheepshead Minnow, <i>Cyprinodon variegatus</i> , acute	2004.0 <sup>26</sup>				
	Silverside, <i>Menidia beryllina</i> , <i>Menidia menidia</i> , and <i>Menidia peninsulae</i> , acute	2006.0 <sup>26</sup>				
Toxicity, chronic, fresh water organisms, NOEC or IC <sub>25</sub> , percent effluent	Fathead minnow, <i>Pimephales promelas</i> , larval survival and growth	1000.0 <sup>27</sup>				

BIOLOGICAL CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	Fathead minnow, <i>Pimephales promelas</i> , embryol- larval survival and teratogenicity	1001.0 <sup>27</sup>				
	Daphnia, <i>Ceriodaphnia dubia</i> , survival and reproduction	1002.0 <sup>27</sup>				
	Green alga, <i>Selenastrum capricornutum</i> , growth	1003.0 <sup>27</sup>				
Toxicity, chronic, estuarine and marine organisms of the Atlantic Ocean and Gulf of Mexico, NOEC or IC <sub>25</sub> , percent effluent	Sheepshead minnow, <i>Cyprinodon variegatus</i> , larval survival and growth	1004.0 <sup>28</sup>				
	Sheepshead minnow, <i>Cyprinodon variegatus</i> , embryo- larval survival and teratogenicity	1005.0 <sup>28</sup>				
	Inland silverside, <i>Menidia beryllina</i> , larval survival and growth	1006.0 <sup>28</sup>				
	Mysid, <i>Mysidopsis bahia</i> , survival, growth, and fecundity	1007.0 <sup>28</sup>				
	Sea urchin, <i>Arbacia punctulata</i> , fertiliza- tion	1008.0 <sup>28</sup>				
<b>BACTERIA</b>						

**BIOLOGICAL CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Coliform (fecal), number per 100 mL or number per gram dry weight	Most Probable Number (MPN), 5 tube, 3 dilution, or	p. 132, <sup>3</sup> 1680, <sup>11</sup> 15 1681 <sup>11,20</sup>	9221 E-2014			
	Membrane filter (MF) <sup>2</sup> , single step	p. 124 <sup>3</sup>	9222 D-2015	B-0050-85 <sup>4</sup>		
Coliform (fecal), number per 100 mL	MPN, 5 tube, 3 dilution, or	p. 132 <sup>3</sup>	9221 E-2014; 9221 F-2014			
	Multiple tube/multiple well, or				Colilert-18 <sup>®13</sup> 18 21 29	
	MF <sup>2</sup> , single step <sup>5</sup>	p. 124 <sup>3</sup>	9222 D-2015			
Coliform (total), number per 100 mL	MPN, 5 tube, 3 dilution, or	p. 114 <sup>3</sup>	9221 B-2014			
	MF <sup>2</sup> , single step or two step	p. 108 <sup>3</sup>	9222 B-2015	B-0025-85 <sup>4</sup>		
	MF <sup>2</sup> with enrichment <sup>5</sup>	p. 111 <sup>3</sup>	9222 B-2015			
<i>E. coli</i> , number per 100 mL <sup>21</sup>	MPN <sup>6,8,16</sup> multiple tube, or		9221B.2-2014/9221F-2014			
	multiple tube/multiple well, or		9223 B-2004 <sup>13</sup>	991.15 <sup>10</sup>	Colilert <sup>® 13 18</sup> Colilert-18 <sup>® 13</sup> 17 18	
	MF <sup>2,5,6,7,8</sup> two step, or		9222 B-2015, 9222 I-2015			
	MF <sup>2,6,7,8</sup> single step	1603 <sup>22</sup>			mColiBlue-24 <sup>®19</sup>	
Fecal streptococci, number per 100 mL	MPN, 5 tube, 3 dilution, or	p. 139 <sup>3</sup>	9230 B-2013			
	MF <sup>2</sup> , or	p. 136 <sup>3</sup>	9230 C-2013	B-0055-85 <sup>4</sup>		
	Plate count	p. 143 <sup>3</sup>				
Enterococci, number per 100 mL <sup>21</sup>	MPN, 5 tube, 3 dilution, or	p. 139 <sup>3</sup>	9230 B-2013			

**BIOLOGICAL CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	MPN <sup>6,8</sup> , multiple tube/multiple well, or		9230 D-2013	D6503-99 <sup>9</sup>	Enterolert <sup>®</sup> 13 <sup>24</sup>	
	MF <sup>2,6,7,8</sup> single step or	1600 <sup>25</sup>	9230 C-2013			
	Plate count	p. 143 <sup>3</sup>				
<i>Salmonella</i> number per gram dry weight <sup>11</sup>	MPN multiple tube	1682 <sup>23</sup>				



**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
<b>METALS</b>						
Aluminum— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 D-2011 or 3111 E-2011		I-3051-85. <sup>2</sup>	
	AA furnace		3113 B-2010.			
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	Direct Current Plasma (DCP) <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (Eriochrome cyanine R)			3500-Al B-2011		
Antimony— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011			
	AA furnace		3113 B-2010			
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12		

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
Arsenic-Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:	206.5 (Issued 1978) <sup>1</sup>				
	AA gaseous hydride		3114 B-2011 or 3114 C-2011	D2972-15 (B)	I-3062-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D2972-15 (C)	I-4063-98. <sup>49</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12		
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup>	
	Colorimetric (SDDC)			3500-As B-2011	D2972-15 (A)	I-3060-85. <sup>2</sup>
Barium—Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 D-2011		I-3084-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D4382-18		
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011		I-4471-97. <sup>50</sup>	

INORGANIC CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>				See footnote. <sup>34</sup>	
Beryllium— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration		3111 D-2011 or 3111 E-2011	D3645-15 (A)	I-3095-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D3645-15 (B)		
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (aluminon)		See footnote. <sup>61</sup>			
Cadmium— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D3557-17 (A or B)	974.27, <sup>3</sup> p. 37, <sup>9</sup> I-3135-85 <sup>2</sup> or I-3136-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D3557-17 (D)	I-4138-89. <sup>51</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-1472-85 <sup>2</sup> or I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Voltametry <sup>11</sup>			D3557-17 (C)		
	Colorimetric (Dithizone)		3500-Cd-D-1990			
Cobalt— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration		3111 B-2011 or 3111 C-2011	D3558-15 (A or B)	p. 37, <sup>9</sup> I-3239-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D3558-15 (C)	I-4243-89. <sup>51</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup> I-4472-97. <sup>81</sup>	
	DCP				D4190-15	See footnote. <sup>34</sup>

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Chromium III dissolved, mg/L (No recommended direct method)	0.45-micron filtration followed by any of the following:					EPA 200.7 minus SM 3500 Cr B (calc.);
	AA chelation-extraction					EPA 6010B minus SM 3500 Cr B (calc.);
	Ion Chromatography					EPA 200.8 minus SM 3500 Cr B-2011;
	Colorimetric (diphenyl-carbazide)					EPA 6010C minus SM 3500 Cr B-2011; EPA 6010D minus SM 3500 Cr B-2011; EPA 6020B minus SM 3500 Cr B-2011
Chromium VI dissolved, mg/L	0.45-micron filtration followed by any of the following:					
	AA chelation-extraction		3111 C-2011		I-1232-85. <sup>2</sup>	
	Ion Chromatography	218.6, Rev. 3.3 (1994)	3500-Cr C-2011	D5257-17	993.23. <sup>3</sup>	
	Colorimetric (diphenyl-carbazide)		3500-Cr B-2011	D1687-17 (A)	I-1230-85. <sup>2</sup>	
Chromium—Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	AA direct aspiration <sup>36</sup>		3111 B-2011	D1687-17 (B)	974.27, <sup>3</sup> I-3236-85. <sup>2</sup>	
	AA chelation-extraction		3111 C-2011			
	AA furnace		3113 B-2010	D1687-17 (C)	I-3233-93. <sup>46</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003), <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (diphenyl-carbazide)		3500-Cr B-2011			
Copper— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D1688-17 (A or B)	974.27, <sup>3</sup> p. 37, <sup>9</sup> I-3270-85 <sup>2</sup> or I-3271-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D1688-17 (C)	I-4274-89. <sup>51</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup> , I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (Neocuproine)		3500-Cu B-2011			
	Colorimetric (Bathocuproine)		3500-Cu C-2011		See footnote. <sup>19</sup>	
Iron— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D1068-15 (A)	974.27, <sup>3</sup> I-3381-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D1068-15 (B)		
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev. 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14. <sup>3</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (Phenanthroline)		3500-Fe B-2011	D1068-15 (C)	See footnote. <sup>22</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Lead— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D3559-15 (A or B)	974.27, <sup>3</sup> I-3399-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D3559-15 (D)	I-4403-89. <sup>51</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev. 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Voltametry <sup>11</sup>			D3559-15 (C)		
	Colorimetric (Dithizone)			3500-Pb B-2011		
Mercury— Total, <sup>4</sup> mg/L	Cold vapor, Manual	245.1, Rev. 3.0 (1994)	3112 B-2011	D3223-17	977.22, <sup>3</sup> I-3462-85. <sup>2</sup>	
	Cold vapor, Automated	245.2 (Issued 1974) <sup>1</sup>				
	Cold vapor atomic fluorescence spectrometry (CVAFS)	245.7 Rev. 2.0 (2005) <sup>17</sup>			I-4464-01. <sup>71</sup>	
	Purge and Trap CVAFS	1631E <sup>43</sup>				



**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Molybdenum— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration		3111 D-2011		I-3490-85. <sup>2</sup>	
	AA furnace		3113 B-2010		I-3492-96. <sup>47</sup>	
	ICP/AES <sup>36</sup>	200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP				See footnote. <sup>34</sup>	
Nickel— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D1886-14 (A or B)	I-3499-85. <sup>2</sup>	
	AA furnace		3113 B-2010	D1886-14 (C)	I-4503-89. <sup>51</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev. 4.2 (2003); <sup>68</sup> 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup> , I-4472-97. <sup>81</sup>	
DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>		
Selenium— Total <sup>4</sup> , mg/L	Digestion, <sup>4</sup> followed by any of the following:					

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	AA furnace		3113 B-2010	D3859-15 (B)	I-4668-98. <sup>49</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES <sup>36</sup>	200.5, Rev 4.2 (2003) <sup>68</sup> ; 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12		
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup> , I-4472-97. <sup>81</sup>	
	AA gaseous hydride		3114 B-2011, or 3114 C-2011	D3859-15 (A)	I-3667-85. <sup>2</sup>	
Silver—Total, <sup>4</sup> <sup>31</sup> mg/L	Digestion, <sup>4,29</sup> followed by any of the following:					
	AA direct aspiration		3111 B-2011 or 3111 C-2011		974.27, <sup>3</sup> p. 37, <sup>9</sup> I-3720-85. <sup>2</sup>	
	AA furnace		3113 B-2010		I-4724-89. <sup>51</sup>	
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES	200.5, Rev. 4.2 (2003) <sup>68</sup> ; 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4472-97. <sup>81</sup>	
	DCP				See footnote. <sup>34</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Thallium— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration		3111 B-2011			
	AA furnace	279.2 (Issued 1978) <sup>1</sup>	3113 B-2010			
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES	200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12		
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4471-97, <sup>50</sup> I-4472-97. <sup>81</sup>	
Tin— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					
	AA direct aspiration		3111 B-2011		I-3850-78. <sup>8</sup>	
	AA furnace		3113 B-2010			
	STGFAA	200.9, Rev. 2.2 (1994)				
	ICP/AES	200.5, Rev. 4.2 (2003) <sup>68</sup> ; 200.7, Rev. 4.4 (1994)				
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14. <sup>3</sup>	
Zinc— Total, <sup>4</sup> mg/L	Digestion, <sup>4</sup> followed by any of the following:					

INORGANIC CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>27</sup>	Standard methods	ASTM	Other	LELAP
	AA direct aspiration <sup>36</sup>		3111 B-2011 or 3111 C-2011	D1691-17 (A or B)	974.27, <sup>3</sup> p. 37, <sup>9</sup> I-3900-85. <sup>2</sup>	
	AA furnace	289.2 (Issued 1978) <sup>1</sup>				
	ICP/AES <sup>36</sup>	200.5, Rev. 4.2 (2003) <sup>68</sup> ; 200.7, Rev. 4.4 (1994)	3120 B-2011	D1976-12	I-4471-97. <sup>50</sup>	
	ICP/MS	200.8, Rev. 5.4 (1994)	3125 B-2011	D5673-16	993.14, <sup>3</sup> I-4020-05. <sup>70</sup> I-4472-97. <sup>81</sup>	
	DCP <sup>36</sup>			D4190-15	See footnote. <sup>34</sup>	
	Colorimetric (Zincon)		3500 Zn B-2011		See footnote. <sup>33</sup>	
OTHER INORGANIC TESTS						
Ammonia (as N), mg/L	Manual distillation <sup>6</sup> or gas diffusion (pH > 11), followed by any of the following:	350.1, Rev. 2.0 (1993)	4500-NH <sub>3</sub> B-2011		973.49. <sup>3</sup>	
	Nesslerization			D1426-15 (A)	973.49, <sup>3</sup> I-3520-85. <sup>2</sup>	
	Titration		4500-NH <sub>3</sub> C-2011			
	Electrode		4500-NH <sub>3</sub> D-2011 or E-2011	D1426-15 (B)		

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	Manual phenate, salicylate, or other substituted phenols in Berthelot reaction based methods		4500-NH <sub>3</sub> F-2011		See footnote. <sup>60</sup>	
	Automated phenate, salicylate, or other substituted phenols in Berthelot reaction based methods	350.1, <sup>30</sup> Rev. 2.0 (1993)	4500-NH <sub>3</sub> G-2011, 4500-NH <sub>3</sub> H-2011		I-4523-85, <sup>2</sup> I-2522-90 <sup>80</sup>	
	Automated electrode				See footnote. <sup>7</sup>	
	Ion Chromatography			D6919-17		
	Automated gas diffusion, followed by conductivity cell analysis				Timberline Ammonia-001. <sup>74</sup>	
	Automated gas diffusion, followed by fluorescence detector analysis				FIALab100 <sup>82</sup>	
Biochemical oxygen demand (BOD <sub>5</sub> ), mg/L	Dissolved Oxygen Depletion		5210 B-2016		973.44, <sup>3</sup> p. 17, <sup>9</sup> I-1578-78, <sup>8</sup> See footnote. <sup>10 63</sup>	
Chemical oxygen demand (COD), mg/L	Titrimetric	410.3 (Rev. 1978) <sup>1</sup>	5220 B-2011 or C-2011	D1252-12 (A)	973.46, <sup>3</sup> p. 17, <sup>9</sup> I-3560-85. <sup>2</sup>	
	Spectrophotometric, manual or automatic	410.4, Rev. 2.0 (1993)	5220 D-2011	D1252-12 (B)	See footnotes. <sup>13 14</sup> <sup>83</sup> , I-3561-85. <sup>2</sup>	
Chlorine-Free Available, mg/L	Amperometric direct		4500-Cl D-2011	D1253-14		
	Amperometric direct (low level)		4500-Cl E-2011			

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	DPD-FAS		4500-Cl F-2011			
	Spectrophotometric, DPD		4500-Cl G-2011			
Chlorine-Total residual, mg/L	Amperometric direct		4500-Cl D-2011	D1253-14		
	Amperometric direct (low level)		4500-Cl E-2011			
	Iodometric direct		4500-Cl B-2011			
	Back titration ether end-point <sup>15</sup>		4500-Cl C-2011			
	DPD-FAS		4500-Cl F-2011			
	Spectrophotometric, DPD		4500-Cl G-2011			
	Electrode					See footnote. <sup>16</sup>
Chloride, mg/L	Titrimetric: (silver nitrate)		4500-Cl <sup>-</sup> B-2011	D512-12 (B)	I-1183-85. <sup>2</sup>	
	(Mercuric nitrate)		4500-Cl <sup>-</sup> C-2011	D512-12 (A)	973.51, <sup>3</sup> I-1184-85. <sup>2</sup>	
	Colorimetric: Manual				I-1187-85. <sup>2</sup>	
	Automated (ferricyanide)		4500-Cl <sup>-</sup> E-2011		I-2187-85. <sup>2</sup>	
	Potentiometric Titration		4500-Cl <sup>-</sup> D-2011			
	Ion Selective Electrode			D512-12 (C)		
	Ion Chromatography	300.0, Rev 2.1 (1993) and 300.1, Rev 1.0 (1997)	4110 B-2011 or 4110 C-2011	D4327-17	993.30, <sup>3</sup> I-2057-90. <sup>51</sup>	
	CIE/UV		4140 B-2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Color, platinum cobalt units or dominant wavelength, hue, luminance purity	Colorimetric (ADMI)		2120 F-2011 <sup>78</sup>			
	Platinum cobalt visual comparison		2120 B-2011		I-1250-85. <sup>2</sup>	
	Spectrophotometric				See footnote. <sup>18</sup>	
Cyanide— Total, mg/L	Automated UV digestion/distillation and Colorimetry				Kelada-01. <sup>55</sup>	
	Segmented Flow Injection, In-Line Ultraviolet Digestion, followed by gas diffusion amperometry			D7511-12 (17)		
	Manual distillation with MgCl <sub>2</sub> , followed by any of the following:	335.4, Rev. 1.0 (1993) <sup>57</sup>	4500-CN <sup>-</sup> B-2016 and C-2016	D2036-09(15)(A), D7284-13 (17)	10-204-00-1-X. <sup>56</sup>	
	Flow Injection, gas diffusion amperometry			, D7284-13 (17)		
	Titrimetric		4500-CN <sup>-</sup> D-2016	D2036-09(15)(A)	p. 22. <sup>9</sup>	
	Spectrophotometric, manual		4500-CN <sup>-</sup> E-2016	D2036-09(15)(A)	I-3300-85. <sup>2</sup>	
	Semi-Automated <sup>20</sup>	335.4, Rev. 1.0 (1993) <sup>57</sup>			10-204-00-1-X, <sup>56</sup> I-4302-85. <sup>2</sup>	
	Ion Chromatography			D2036-09(15)(A)		
	Ion Selective Electrode		4500-CN <sup>-</sup> F-2016	D2036-09(15)(A)		
Fluoride— Total, mg/L	Manual distillation, <sup>6</sup> followed by any of the following:		4500-F <sup>-</sup> B-2011	D1179-16 (A)		
	Electrode, manual		4500-F <sup>-</sup> C-2011	D1179-19 (B)		

INORGANIC CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
	Electrode, automated				I-4327-85. <sup>2</sup>	
	Colorimetric, (SPADNS)		4500-F <sup>-</sup> D-2011			
	Automated complexone		4500-F <sup>-</sup> E-2011			
	Ion Chromatography	300.0, Rev 2.1 (1993) and 300.1, Rev 1.0 (1997)	4110 B-2011 or C-2011	D4327-17	993.30. <sup>3</sup>	
	CIE/UV		4140 B-2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	
Hardness— Total, as CaCO <sub>3</sub> , mg/L	Automated colorimetric	130.1 (Issued 1971) <sup>1</sup>				
	Titrimetric (EDTA)		2340 C-2011	D1126-17	973.52B, <sup>3</sup> I-1338-85. <sup>2</sup>	
	Ca plus Mg as their carbonates, by any approved method for Ca and Mg (See Parameters 13 and 33), provided that the sum of the lowest point of quantitation for Ca and Mg is below the NPDES permit requirement for Hardness.		2340 B-2011			
Kjeldahl Nitrogen <sup>5</sup> — Total, (as N), mg/L	Manual digestion <sup>20</sup> and distillation or gas diffusion, followed by any of the following:		4500-N <sub>org</sub> B-2011 or C-2011 and 4500-NH <sub>3</sub> B-2011	D3590-17 (A)	I-4515-91. <sup>45</sup>	



**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	Titration		4500-NH <sub>3</sub> C-2011		973.48. <sup>3</sup>	
	Nesslerization			D1426-15 (A)		
	Electrode		4500-NH <sub>3</sub> D-2011 or E-2011	D1426-15 (B)		
	Semi-automated phenate	350.1, Rev. 2.0 (1993)	4500-NH <sub>3</sub> G-2011 4500-NH <sub>3</sub> H-2011			
	Manual phenate, salicylate, or other substituted phenols in Berthelot reaction based methods		4500-NH <sub>3</sub> F-2011		See footnote. <sup>60</sup>	
	Automated gas diffusion, followed by conductivity cell analysis				Timberline Ammonia-001. <sup>74</sup>	
	Automated gas diffusion, followed by fluorescence detector analysis				FIALab 100. <sup>82</sup>	
	Automated Methods for TKN that do not require manual distillation.					
	Automated phenate, salicylate, or other substituted phenols in Berthelot reaction based methods colorimetric (auto digestion and distillation)	351.1 (Rev. 1978) <sup>1</sup>			I-4551-78. <sup>8</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	Semi-automated block digester colorimetric (distillation not required)	351.2, Rev. 2.0 (1993)	4500-N <sub>org</sub> D-2011	D3590-17 (B)	I-4515-91. <sup>45</sup>	
	Block digester, followed by Auto distillation and Titration				See footnote. <sup>39</sup>	
	Block digester, followed by Auto distillation and Nesslerization				See footnote. <sup>40</sup>	
	Block Digester, followed by Flow injection gas diffusion (distillation not required)				See footnote. <sup>41</sup>	
	Digestion with peroxodisulfate, followed by Spectrophotometric (2,6-dimethyl phenol)				Hach 10242. <sup>76</sup>	
	Digestion with persulfate, followed by Colorimetric				NCASI TNTP W10900. <sup>77</sup>	
Nitrate (as N), mg/L	Ion Chromatography	300.0, Rev. 2.1 (1993) and 300.1, Rev. 1.0 (1997)	4110 B-2011 or C-2011	D4327-17	993.30. <sup>3</sup>	
	CIE/UV		4140 B-2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	
	Ion Selective Electrode		4500-NO <sub>3</sub> <sup>-</sup> D-2016			

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
	Colorimetric (Brucine sulfate)	352.1 (Issued 1971) <sup>1</sup>			973.50, <sup>3</sup> 419D <sup>1</sup> 7 p. 28. <sup>9</sup>	
	Spectrophotometric (2,6-dimethylphenol)				Hach 10206. <sup>75</sup>	
	Nitrate-nitrite N minus Nitrite N (See parameters 39 and 40)					
39. Nitrate-nitrite (as N), mg/L	Cadmium reduction, Manual		4500-NO <sub>3</sub> <sup>-</sup> E-2016	D3867-16 (B)		
	Cadmium reduction, Automated	353.2, Rev. 2.0 (1993)	4500-NO <sub>3</sub> <sup>-</sup> F-2016, 4500-NO <sub>3</sub> <sup>-</sup> I-2016	D3867-16 (A)	I-2545-90. <sup>51</sup>	
	Automated hydrazine		4500-NO <sub>3</sub> <sup>-</sup> H-2016			
	Reduction/Colorimetric				See footnote. <sup>62</sup>	
	Ion Chromatography	300.0, Rev. 2.1 (1993) and 300.1, Rev. 1.0 (1997)	4110 B-2011 or C-2011	D4327-17	993.30. <sup>3</sup>	
	CIE/UV		4140 B-2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	
	Enzymatic reduction, followed by automated colorimetric determination			D7781-14	I-2547-11, <sup>72</sup> I-2548-11, <sup>72</sup> N07-0003. <sup>73</sup>	
	Enzymatic reduction, followed by manual colorimetric determination		4500-NO <sub>3</sub> <sup>-</sup> J-2018			

INORGANIC CWA METHODS						
Parameter <sup>1</sup>	Method	EPA <sup>2,7</sup>	Standard methods	ASTM	Other	LELAP
	Spectrophotometric (2,6-dimethylphenol)				Hach 10206. <sup>75</sup>	
40. Nitrite (as N), mg/L	Spectrophotometric: Manual		4500-NO <sub>2</sub> <sup>-</sup> B-2011		See footnote. <sup>25</sup>	
	Automated (Diazotization)				I-4540-85, <sup>2</sup> See footnote. <sup>62</sup> , I-2540-90 <sup>80</sup>	
	Automated (*bypass cadmium reduction)	353.2, Rev. 2.0 (1993)	4500-NO <sub>3</sub> <sup>-</sup> F-2016, 4500-NO <sub>3</sub> <sup>-</sup> I-2016	D3867-16 (A)	I-4545-85. <sup>2</sup>	
	Manual (*bypass cadmium reduction)		4500-NO <sub>3</sub> <sup>-</sup> E-2016, 4500-NO <sub>3</sub> <sup>-</sup> J-2018	D3867-16 (B)		
	Ion Chromatography	300.0, Rev. 2.1 (1993) and 300.1, Rev. 1.0 (1997)	4110 B-2011 or C-2011	D4327-17	993.30. <sup>3</sup>	
	CIE/UV		4140 B-2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	
	Automated (*bypass Enzymatic reduction)			D7781-14	I-2547-11, <sup>72</sup> I-2548-11, <sup>72</sup> N07-0003. <sup>73</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Total Nitrogen, mg/L as N (No recommended direct method)	The sum of TKN and Total nitrate-nitrite (all expressed as N)					SM 4500-N C Modified VTDEC, 21st ED; EPA 300.0 plus EPA 351.2 (calc.); TKN + Total nitrate-nitrite
Oil and grease—Total recoverable, mg/L	Hexane extractable material (HEM): n-Hexane extraction and gravimetry	1664 Rev. A; 1664 Rev. B <sup>42</sup>	5520 B-2011 <sup>38</sup>			
	Silica gel treated HEM (SGT-HEM): Silica gel treatment and gravimetry	1664 Rev. A; 1664 Rev. B <sup>42</sup>	5520 B-2011 <sup>38</sup> and 5520 F-2011 <sup>38</sup>			
Organic carbon—Total (TOC), mg/L	Combustion		5310 B-2014	D7573-09 (17)	973.47, <sup>3</sup> p. 14. <sup>24</sup>	
	Heated persulfate or UV persulfate oxidation		5310 C-2014, 5310 D-2011	D4839-03 (17)	973.47, <sup>3</sup> p. 14. <sup>24</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>27</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Phosphorus, Dissolved mg/L (No recommended method)	The dissolved phosphorus test measures that fraction of the total phosphorus which is in solution in the water (as opposed to being attached to suspended particles). It is determined by first filtering the sample, then analyzing the filtered sample for total phosphorus.					
Phosphorus—Total, mg/L	Digestion, <sup>20</sup> followed by any of the following:		4500-P B(5)-2011		973.55. <sup>3</sup>	
	Manual	365.3 (Issued 1978) <sup>1</sup>	4500-P E-2011	D515-88 (A)		
	Automated ascorbic acid reduction	365.1 Rev. 2.0 (1993)	4500-P (F-H)-2011		973.56, <sup>3</sup> I-4600-85. <sup>2</sup>	
	ICP/AES <sup>4 36</sup>	200.7, Rev. 4.4 (1994)	3120 B-2011		I-4471-97. <sup>50</sup>	
	Semi-automated block digester (TKP digestion)	365.4 (Issued 1974) <sup>1</sup>		D515-88 (B)	I-4610-91. <sup>48</sup>	
	Digestion with persulfate, followed by Colorimetric				NCASI TNTP W10900. <sup>77</sup>	
Residue—non-filterable (TSS), mg/L	Gravimetric, 103-105° post washing of residue		2540 D-2015	D5907-13	I-3765-85. <sup>2</sup>	
Residue—filterable (TDS), mg/L	Gravimetric, 180°		2540 C-2015	D5907-13	I-1750-85. <sup>2</sup>	

**INORGANIC CWA METHODS**

<b>Parameter<sup>1</sup></b>	<b>Method</b>	<b>EPA<sup>2,7</sup></b>	<b>Standard methods</b>	<b>ASTM</b>	<b>Other</b>	<b>LELAP</b>
Residue— Total, mg/L	Gravimetric, 103-105°		2540 B- 2015		I-3750-85. <sup>2</sup>	
Residue— Volatile, mg/L	Gravimetric, 550°	160.4 (Issued 1971) <sup>1</sup>	2540-E- 2015		I-3753-85. <sup>2</sup>	
Sulfate (as SO <sub>4</sub> ), mg/L	Automated colorimetric	375.2, Rev. 2.0 (1993)	4500- SO <sub>4</sub> <sup>2-</sup> F- 2011 or G- 2011			
	Gravimetric		4500- SO <sub>4</sub> <sup>2-</sup> C- 2011 or D- 2011		925.54. <sup>3</sup>	
	Turbidimetric		4500- SO <sub>4</sub> <sup>2-</sup> E- 2011	D516-16		
	Ion Chromatography	300.0, Rev. 2.1 (1993) and 300.1, Rev. 1.0 (1997)	4110 B- 2011 or C- 2011	D4327-17	993.30, <sup>3</sup> I- 4020-05. <sup>70</sup>	
	CIE/UV		4140 B- 2011	D6508-15	D6508, Rev. 2. <sup>54</sup>	

*ATTACHMENT H*  
FEDERAL CLAUSES



## **Remedies**

As a breach of service would cause serious and substantial damages to the City-Parish and its occupants, and the nature of resulting contract would render it impractical or extremely difficult to fix the actual damage sustained by the City-Parish by such breach, it is agreed that in case of a breach of service, the City-Parish may elect to collect liquidated damages as specified in the resulting contract, not as a penalty, such sums being agreed as the amount which the City-Parish will be damaged by the breach of such service.

The decision to seek such remedies shall not be construed as a waiver of any legal remedies the City- Parish may have as to any subsequent breach of service.

If the Service Provider fails to perform, or to perform in a satisfactory manner, or to perform in strict compliance with the resulting Contract, the Service Provider will be considered to be in Breach of Contract, in addition to such remedies of a less formal but corrective nature as may be delineated between the City-Parish and the Service Provider elsewhere in the resulting Contract Documents, the City-Parish retains, solely to itself, all such remedies.

## **Equal Employment Opportunity**

During the performance of this Agreement, the Service Provider agrees as follows:

1. The Service Provider will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Service Provider will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Service Provider agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The Service Provider will, in all solicitations or advertisements for employees placed by or on behalf of the Service Provider, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
3. The Service Provider will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other

employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Service Provider's legal duty to furnish information.

4. The Service Provider will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Service Provider's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
5. The Service Provider will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
6. The Service Provider will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
7. In the event of the Service Provider's noncompliance with the nondiscrimination clauses of this Agreement or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Service Provider may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
8. The Service Provider will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each sub-contractor or vendor. The Service Provider will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Provided, however, that in the event a Service Provider becomes involved in, or is threatened with, litigation with a sub-contractor or vendor as a result of such direction by the administering agency, the Service Provider may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a state or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of Service Provider and sub-contractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon Service Providers and sub-contractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

#### **Davis-Bacon and Copeland Anti-Kickback Act**

The Service Provider shall comply with the Davis-Bacon Act (40 U.S.C. 3141-3144 and 3146-3148) as supplemented by the Department of Labor regulations (29 CFR Part 5, "Labor Standard Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with this statute, the Service Provider is required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, the Service Provider is required to pay wages not less than once a week.

The Service Provider shall comply with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by the Department of Labor regulations (29 CFR Part 3, "Contractors and Sub-contractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Service Provider is prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.

### **Contract Work Hours and Safety Standards Act**

Pursuant to 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5), the Service Provider is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

### **Rights to Interventions Made Under a Contract or Agreement**

If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Interventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

### **Clean Air Act and the Federal Water Pollution Control Act**

The Service Provider is required to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

### **Byrd Anti-Lobbying Amendment**

Service Providers that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier, up to the non-Federal award.

### **Procurement Recovered Materials**

Service Provider shall comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act which pertains to procuring only items designated in the guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with

maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000.00 or the value of the quantity acquired during the preceding fiscal year exceed \$10,000.00; procuring solid waste management services in a manner that maximizes energy resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

**Program Fraud and False or Fraudulent Statements or Related Acts**

The Service Provider acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Service Provider's actions pertaining to this contract.

**Compliance with Federal Law, Regulations, and Executive Orders**

The Service Provider will comply will all applicable federal law, regulations, executive orders, FEMA and/or HUD policies, procedures, and directives.

**No Obligation by Federal Government**

The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, Service Provider, or any other party pertaining to any matter resulting from the contract.

# ATTACHMENT I

## CONTRACTOR'S AND SUB CONTRACTOR'S INSURANCE

Service Provider and any subcontractor shall carry and maintain at least the minimum insurance as specified below until completion and acceptance of the work. Service Provider shall not commence work under this contract until certificates of insurance have been approved by the City-Parish Purchasing Division. Insurance companies listed on certificates must have industry rating of A-, Class VI or higher, according to Best's Key Rating Guide. Service Provider is responsible for assuring that its subcontractors meet these insurance requirements.

A. Commercial General Liability on an occurrence basis as follows:

General Aggregate	\$2,000,000
Products-Comp/Op Agg	\$1,000,000
Personal & Adv Injury	\$1,000,000
Each Occurrence	\$1,000,000
Fire Damage (Any one fire)	\$ 50,000
Med Exp	\$ 5,000

B. Business Auto Policy  
Any Auto, or Combined Single Limit  
Owned, Non-Owned & Hired \$1,000,000

C. Standard Workers Compensation - Full statutory liability for State of Louisiana with Employer's Liability Coverage.

D. The City of Baton Rouge and Parish of East Baton Rouge, must be named as additional insured on all general liability policies described above.

E. Waiver of subrogation in favor of City of Baton Rouge and Parish of East Baton Rouge, is required from Workers Compensation Insurer.

F. Certificates must provide for thirty (30) days written notice to Certificate Holder prior to cancellation or change.

G. The Certificate Holder should be shown as:

City of Baton Rouge and Parish of East Baton Rouge  
Attn: Purchasing Division  
Post Office Box 1471  
Baton Rouge, Louisiana 70821

By Moak  
Introduction 11/23/21  
P.H. 12/8/21

**ADOPTED**  
METROPOLITAN COUNCIL

DEC 08 2021

*Cheryl*  
COUNCIL ADMINISTRATOR TREASURER

21-01603

RESOLUTION **56069**

AWARDING THE CONTRACT FOR ANALYTICAL LABORATORY SERVICES FOR REGULATORY COMPLIANCE SAMPLING TO THE SELECTED VENDOR, ELEMENT MATERIALS TECHNOLOGY LAFAYETTE, LLC; AND DIRECTING THE EXECUTION OF THE CONTRACT FOR AN AMOUNT NOT TO EXCEED \$300,000.00 COVERING SUCH WORK (ACCOUNT NO. 5100-7700-40-7710-7750-7711-000000-643541, 5100-770-40-7710-7720-0000-000000-643541 AND 5510-7700-40-7760-7765-0000-000000-643541).

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and the City of Baton Rouge that:

Section 1. The Mayor-President is hereby authorized to award the contract for Analytical Laboratory Services for Regulatory Compliance Sampling to the selected vendor, Element Materials Technology Lafayette, LLC and direct the execution of the contract for an amount not to exceed \$300,000.00 covering such work (Account No. 5100-7700-40-7710-7750-7711-000000-643541, 5100-770-40-7710-7720-0000-000000-643541 and 5510-7700-40-7760-7765-0000-000000-643541).

Section 2. Said agreement shall be approved by the Office of the Parish Attorney as to form and legality.