

**COUNTY OF MONTEREY STANDARD AGREEMENT**  
**(MORE THAN \$100,000)**

This **Agreement** is made by and between the County of Monterey, a political subdivision of the State of California (hereinafter "County") and:  
BSK Associates ,  
(hereinafter "CONTRACTOR").

In consideration of the mutual covenants and conditions set forth in this Agreement, the parties agree as follows:

**1.0 GENERAL DESCRIPTION.**

1.01 The County hereby engages CONTRACTOR to perform, and CONTRACTOR hereby agrees to perform, the services described in **Exhibit A** in conformity with the terms of this Agreement. The goods and/or services are generally described as follows:

**Provide** Environmental Laboratory Testing and Analysis

**2.0 PAYMENT PROVISIONS.**

2.01 County shall pay the CONTRACTOR in accordance with the payment provisions set forth in **Exhibit A**, subject to the limitations set forth in this Agreement. The total amount payable by County to CONTRACTOR under this Agreement shall not exceed the sum of \$ 500,000 .

**3.0 TERM OF AGREEMENT.**

3.01 The term of this Agreement is from July 1, 2016 to June 30, 2019, unless sooner terminated pursuant to the terms of this Agreement. This Agreement is of no force or effect until signed by both CONTRACTOR and County and with County signing last, and **CONTRACTOR may not commence work before County signs this Agreement.**

3.02 The County reserves the right to cancel this Agreement, or any extension of this Agreement, without cause, with a thirty day (30) written notice, or with cause immediately.

**4.0 SCOPE OF SERVICES AND ADDITIONAL PROVISIONS.**

4.01 The following attached exhibits are incorporated herein by reference and constitute a part of this Agreement:

**Exhibit A** Scope of Services/Payment Provisions

**Exhibit B** Fee Schedule

## 5.0 PERFORMANCE STANDARDS.

- 5.01 CONTRACTOR warrants that CONTRACTOR and CONTRACTOR's agents, employees, and subcontractors performing services under this Agreement are specially trained, experienced, competent, and appropriately licensed to perform the work and deliver the services required under this Agreement and are not employees of the County, or immediate family of an employee of the County.
- 5.02 CONTRACTOR, its agents, employees, and subcontractors shall perform all work in a safe and skillful manner and in compliance with all applicable laws and regulations. All work performed under this Agreement that is required by law to be performed or supervised by licensed personnel shall be performed in accordance with such licensing requirements.
- 5.03 CONTRACTOR shall furnish, at its own expense, all materials, equipment, and personnel necessary to carry out the terms of this Agreement, except as otherwise specified in this Agreement. CONTRACTOR shall not use County premises, property (including equipment, instruments, or supplies) or personnel for any purpose other than in the performance of its obligations under this Agreement.

## 6.0 PAYMENT CONDITIONS.

- 6.01 Prices shall remain firm for the initial term of the Agreement and, thereafter, may be adjusted annually as provided in this paragraph. The County does not guarantee any minimum or maximum amount of dollars to be spent under this Agreement.
- 6.02 Negotiations for rate changes shall be commenced, by CONTRACTOR, a minimum of ninety days (90) prior to the expiration of the Agreement. Rate changes are not binding unless mutually agreed upon in writing by the County and the CONTRACTOR.
- 6.03 Invoice amounts shall be billed directly to the ordering department.
- 6.04 CONTRACTOR shall submit such invoice periodically or at the completion of services, but in any event, not later than 30 days after completion of services. The invoice shall set forth the amounts claimed by CONTRACTOR for the previous period, together with an itemized basis for the amounts claimed, and such other information pertinent to the invoice. The County shall certify the invoice, either in the requested amount or in such other amount as the County approves in conformity with this Agreement, and shall promptly submit such invoice to the County Auditor-Controller for payment. The County Auditor-Controller shall pay the amount certified within 30 days of receiving the certified invoice.

## 7.0 TERMINATION.

- 7.01 During the term of this Agreement, the County may terminate the Agreement for any reason by giving written notice of termination to the CONTRACTOR at least thirty (30) days prior to the effective date of termination. Such notice shall set forth the effective date of termination. In the event of such termination, the amount payable under this Agreement shall be reduced in proportion to the services provided prior to the date of termination.

- 7.02 The County may cancel and terminate this Agreement for good cause effective immediately upon written notice to CONTRACTOR. "Good cause" includes the failure of CONTRACTOR to perform the required services at the time and in the manner provided under this Agreement. If County terminates this Agreement for good cause, the County may be relieved of the payment of any consideration to CONTRACTOR, and the County may proceed with the work in any manner, which County deems proper. The cost to the County shall be deducted from any sum due the CONTRACTOR under this Agreement.
- 7.03 The County's payments to CONTRACTOR under this Agreement are funded by local, state and federal governments. If funds from local, state and federal sources are not obtained and continued at a level sufficient to allow for the County's purchase of the indicated quantity of services, then the County may give written notice of this fact to CONTRACTOR, and the obligations of the parties under this Agreement shall terminate immediately, or on such date thereafter, as the County may specify in its notice, unless in the meanwhile the parties enter into a written amendment modifying this Agreement.

## 8.0 INDEMNIFICATION.

- 8.01 CONTRACTOR shall indemnify, defend, and hold harmless the County, its officers, agents, and employees, from and against any and all claims, liabilities, and losses whatsoever (including damages to property and injuries to or death of persons, court costs, and reasonable attorneys' fees) occurring or resulting to any and all persons, firms or corporations furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement, and from any and all claims, liabilities, and losses occurring or resulting to any person, firm, or corporation for damage, injury, or death arising out of or connected with the CONTRACTOR's performance of this Agreement, unless such claims, liabilities, or losses arise out of the sole negligence or willful misconduct of the County. "CONTRACTOR's performance" includes CONTRACTOR's action or inaction and the action or inaction of CONTRACTOR's officers, employees, agents and subcontractors.

## 9.0 INSURANCE REQUIREMENTS.

### 9.01 Evidence of Coverage:

Prior to commencement of this Agreement, the Contractor shall provide a "Certificate of Insurance" certifying that coverage as required herein has been obtained. Individual endorsements executed by the insurance carrier shall accompany the certificate. In addition, the Contractor upon request shall provide a certified copy of the policy or policies.

This verification of coverage shall be sent to the County's Contracts/Purchasing Department, unless otherwise directed. The Contractor shall not receive a "Notice to Proceed" with the work under this Agreement until it has obtained all insurance required and the County has approved such insurance. This approval of insurance shall neither relieve nor decrease the liability of the Contractor.

### 9.02 Qualifying Insurers:

All coverage's, except surety, shall be issued by companies which hold a current policy holder's alphabetic and financial size category rating of not less than A- VII, according to

the current Best's Key Rating Guide or a company of equal financial stability that is approved by the County's Purchasing Manager.

- 9.03 **Insurance Coverage Requirements:** Without limiting CONTRACTOR's duty to indemnify, CONTRACTOR shall maintain in effect throughout the term of this Agreement a policy or policies of insurance with the following minimum limits of liability:

**Commercial General Liability Insurance,** including but not limited to premises and operations, including coverage for Bodily Injury and Property Damage, Personal Injury, Contractual Liability, Broad form Property Damage, Independent Contractors, Products and Completed Operations, with a combined single limit for Bodily Injury and Property Damage of not less than \$1,000,000 per occurrence.

*(Note: any proposed modifications to these general liability insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)*

**Business Automobile Liability Insurance,** covering all motor vehicles, including owned, leased, non-owned, and hired vehicles, used in providing services under this Agreement, with a combined single limit for Bodily Injury and Property Damage of not less than \$1,000,000 per occurrence.

*(Note: any proposed modifications to these auto insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)*

**Workers' Compensation Insurance,** if CONTRACTOR employs others in the performance of this Agreement, in accordance with California Labor Code section 3700 and with Employer's Liability limits not less than \$1,000,000 each person, \$1,000,000 each accident and \$1,000,000 each disease.

*(Note: any proposed modifications to these workers' compensation insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)*

**Professional Liability Insurance,** if required for the professional services being provided, (e.g., those persons authorized by a license to engage in a business or profession regulated by the California Business and Professions Code), in the amount of not less than \$1,000,000 per claim and \$2,000,000 in the aggregate, to cover liability for malpractice or errors or omissions made in the course of rendering professional services. If professional liability insurance is written on a "claims-made" basis rather than an occurrence basis, the CONTRACTOR shall, upon the expiration or earlier termination of this Agreement, obtain extended reporting coverage ("tail coverage") with the same liability limits. Any such tail coverage shall continue for at least three years following the expiration or earlier termination of this Agreement.

*(Note: any proposed modifications to these insurance requirements shall be attached as an Exhibit hereto, and the section(s) above that are proposed as not applicable shall be lined out in blue ink. All proposed modifications are subject to County approval.)*

9.04 Other Requirements:

All insurance required by this Agreement shall be with a company acceptable to the County and issued and executed by an admitted insurer authorized to transact Insurance business in the State of California. Unless otherwise specified by this Agreement, all such insurance shall be written on an occurrence basis, or, if the policy is not written on an occurrence basis, such policy with the coverage required herein shall continue in effect for a period of three years following the date CONTRACTOR completes its performance of services under this Agreement.

Each liability policy shall provide that the County shall be given notice in writing at least thirty days in advance of any endorsed reduction in coverage or limit, cancellation, or intended non-renewal thereof. Each policy shall provide coverage for Contractor and additional insureds with respect to claims arising from each subcontractor, if any, performing work under this Agreement, or be accompanied by a certificate of insurance from each subcontractor showing each subcontractor has identical insurance coverage to the above requirements.

**Commercial general liability and automobile liability policies shall provide an endorsement naming the County of Monterey, its officers, agents, and employees as Additional Insureds** with respect to liability arising out of the CONTRACTOR'S work, including ongoing and completed operations, **and shall further provide that such insurance is primary insurance to any insurance or self-insurance maintained by the County and that the insurance of the Additional Insureds shall not be called upon to contribute to a loss covered by the CONTRACTOR'S insurance.** The required endorsement form for Commercial General Liability Additional Insured is ISO Form CG 20 10 11-85 or CG 20 10 10 01 in tandem with CG 20 37 10 01 (2000). The required endorsement form for Automobile Additional Insured endorsement is ISO Form CA 20 48 02 99.

Prior to the execution of this Agreement by the County, CONTRACTOR shall file certificates of insurance with the County's contract administrator and County's Contracts/Purchasing Division, showing that the CONTRACTOR has in effect the insurance required by this Agreement. The CONTRACTOR shall file a new or amended certificate of insurance within five calendar days after any change is made in any insurance policy, which would alter the information on the certificate then on file. Acceptance or approval of insurance shall in no way modify or change the indemnification clause in this Agreement, which shall continue in full force and effect.

CONTRACTOR shall at all times during the term of this Agreement maintain in force the insurance coverage required under this Agreement and shall send, without demand by County, annual certificates to County's Contract Administrator and County's Contracts/Purchasing Division. If the certificate is not received by the expiration date, County shall notify CONTRACTOR and CONTRACTOR shall have five calendar days to send in the certificate, evidencing no lapse in coverage during the interim. Failure by CONTRACTOR to maintain such insurance is a default of this Agreement, which entitles County, at its sole discretion, to terminate this Agreement immediately.

## 10.0 RECORDS AND CONFIDENTIALITY.

- 10.01 Confidentiality. CONTRACTOR and its officers, employees, agents, and subcontractors shall comply with any and all federal, state, and local laws, which provide for the confidentiality of records and other information. CONTRACTOR shall not disclose any confidential records or other confidential information received from the County or prepared in connection with the performance of this Agreement, unless County specifically permits CONTRACTOR to disclose such records or information. CONTRACTOR shall promptly transmit to County any and all requests for disclosure of any such confidential records or information. CONTRACTOR shall not use any confidential information gained by CONTRACTOR in the performance of this Agreement except for the sole purpose of carrying out CONTRACTOR's obligations under this Agreement.
- 10.02 County Records. When this Agreement expires or terminates, CONTRACTOR shall return to County any County records which CONTRACTOR used or received from County to perform services under this Agreement.
- 10.03 Maintenance of Records. CONTRACTOR shall prepare, maintain, and preserve all reports and records that may be required by federal, state, and County rules and regulations related to services performed under this Agreement. CONTRACTOR shall maintain such records for a period of at least three years after receipt of final payment under this Agreement. If any litigation, claim, negotiation, audit exception, or other action relating to this Agreement is pending at the end of the three year period, then CONTRACTOR shall retain said records until such action is resolved.
- 10.04 Access to and Audit of Records. The County shall have the right to examine, monitor and audit all records, documents, conditions, and activities of the CONTRACTOR and its subcontractors related to services provided under this Agreement. Pursuant to Government Code section 8546.7, if this Agreement involves the expenditure of public funds in excess of \$10,000, the parties to this Agreement may be subject, at the request of the County or as part of any audit of the County, to the examination and audit of the State Auditor pertaining to matters connected with the performance of this Agreement for a period of three years after final payment under the Agreement.
- 10.05 Royalties and Inventions. County shall have a royalty-free, exclusive and irrevocable license to reproduce, publish, and use, and authorize others to do so, all original computer programs, writings, sound recordings, pictorial reproductions, drawings, and other works of similar nature produced in the course of or under this Agreement. CONTRACTOR shall not publish any such material without the prior written approval of County.

## 11.0 NON-DISCRIMINATION.

- 11.01 During the performance of this Agreement, CONTRACTOR, and its subcontractors, shall not unlawfully discriminate against any person because of race, religious creed, color, sex, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age (over 40), or sexual orientation, either in CONTRACTOR's employment practices or in the furnishing of services to recipients. CONTRACTOR shall ensure that the evaluation and treatment of its employees and applicants for employment and all persons receiving and requesting services are free of such discrimination. CONTRACTOR and any subcontractor shall, in the performance of this Agreement, fully comply with all federal,

state, and local laws and regulations which prohibit discrimination. The provision of services primarily or exclusively to such target population as may be designated in this Agreement shall not be deemed to be prohibited discrimination.

## 12.0 COMPLIANCE WITH TERMS OF STATE OR FEDERAL GRANTS.

- 12.01 If this Agreement has been or will be funded with monies received by the County pursuant to a contract with the state or federal government in which the County is the grantee, CONTRACTOR will comply with all the provisions of said contract, to the extent applicable to CONTRACTOR as a subgrantee under said contract, and said provisions shall be deemed a part of this Agreement, as though fully set forth herein. Upon request, County will deliver a copy of said contract to CONTRACTOR, at no cost to CONTRACTOR.

## 13.0 INDEPENDENT CONTRACTOR.

- 13.01 In the performance of work, duties, and obligations under this Agreement, CONTRACTOR is at all times acting and performing as an independent contractor and not as an employee of the County. No offer or obligation of permanent employment with the County or particular County department or agency is intended in any manner, and CONTRACTOR shall not become entitled by virtue of this Agreement to receive from County any form of employee benefits including but not limited to sick leave, vacation, retirement benefits, workers' compensation coverage, insurance or disability benefits. CONTRACTOR shall be solely liable for and obligated to pay directly all applicable taxes, including federal and state income taxes and social security, arising out of CONTRACTOR's performance of this Agreement. In connection therewith, CONTRACTOR shall defend, indemnify, and hold County harmless from any and all liability which County may incur because of CONTRACTOR's failure to pay such taxes.

## 14.0 NOTICES.

- 14.01 Notices required under this Agreement shall be delivered personally or by first-class, postage pre-paid mail to the County and CONTRACTOR'S contract administrators at the addresses listed below:

<b>FOR COUNTY:</b>	<b>FOR CONTRACTOR:</b>
Edward Moreno, Public Health Bureau Chief	John Montierth, PhD, Project Manager
Name and Title	Name and Title
Monterey County Health Department 1270 Natividad Road Salinas, CA 93906	BSK Associates 1414 Stanislaus Street Fresno, CA 93706
Address	Address
(831) 755-4585	(559) 497-2888, ext. 201
Phone	Phone

## 15.0 MISCELLANEOUS PROVISIONS.

- 15.01 Conflict of Interest. CONTRACTOR represents that it presently has no interest and agrees not to acquire any interest during the term of this Agreement, which would directly, or indirectly conflict in any manner or to any degree with the full and complete performance of the services required to be rendered under this Agreement.
- 15.02 Amendment. This Agreement may be amended or modified only by an instrument in writing signed by the County and the CONTRACTOR.
- 15.03 Waiver. Any waiver of any terms and conditions of this Agreement must be in writing and signed by the County and the CONTRACTOR. A waiver of any of the terms and conditions of this Agreement shall not be construed as a waiver of any other terms or conditions in this Agreement.
- 15.04 Contractor. The term "CONTRACTOR" as used in this Agreement includes CONTRACTOR's officers, agents, and employees acting on CONTRACTOR's behalf in the performance of this Agreement.
- 15.05 Disputes. CONTRACTOR shall continue to perform under this Agreement during any dispute.
- 15.06 Assignment and Subcontracting. The CONTRACTOR shall not assign, sell, or otherwise transfer its interest or obligations in this Agreement without the prior written consent of the County. None of the services covered by this Agreement shall be subcontracted without the prior written approval of the County. Notwithstanding any such subcontract, CONTRACTOR shall continue to be liable for the performance of all requirements of this Agreement.
- 15.07 Successors and Assigns. This Agreement and the rights, privileges, duties, and obligations of the County and CONTRACTOR under this Agreement, to the extent assignable or delegable, shall be binding upon and inure to the benefit of the parties and their respective successors, permitted assigns, and heirs.
- 15.08 Compliance with Applicable Law. The parties shall comply with all applicable federal, state, and local laws and regulations in performing this Agreement.
- 15.09 Headings. The headings are for convenience only and shall not be used to interpret the terms of this Agreement.
- 15.10 Time is of the Essence. Time is of the essence in each and all of the provisions of this Agreement.
- 15.11 Governing Law. This Agreement shall be governed by and interpreted under the laws of the State of California.
- 15.12 Non-exclusive Agreement. This Agreement is non-exclusive and both County and CONTRACTOR expressly reserve the right to contract with other entities for the same or similar services.



- 15.13 Construction of Agreement. The County and CONTRACTOR agree that each party has fully participated in the review and revision of this Agreement and that any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in the interpretation of this Agreement or any amendment to this Agreement.
- 15.14 Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same Agreement.
- 15.15 Authority. Any individual executing this Agreement on behalf of the County or the CONTRACTOR represents and warrants hereby that he or she has the requisite authority to enter into this Agreement on behalf of such party and bind the party to the terms and conditions of this Agreement.
- 15.16 Integration. This Agreement, including the exhibits, represent the entire Agreement between the County and the CONTRACTOR with respect to the subject matter of this Agreement and shall supersede all prior negotiations, representations, or agreements, either written or oral, between the County and the CONTRACTOR as of the effective date of this Agreement, which is the date that the County signs the Agreement.
- 15.17 Interpretation of Conflicting Provisions. In the event of any conflict or inconsistency between the provisions of this Agreement and the Provisions of any exhibit or other attachment to this Agreement, the provisions of this Agreement shall prevail and control.

-----*This section left blank intentionally*-----

16.0 SIGNATURE PAGE.

IN WITNESS WHEREOF, County and CONTRACTOR have executed this Agreement as of the day and year written below.

**COUNTY OF MONTEREY**

By: \_\_\_\_\_  
Contracts/Purchasing Officer

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Department Head (if applicable)

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Board of Supervisors (if applicable)

Date: \_\_\_\_\_

Approved as to Form<sup>1</sup>

By: [Signature]  
Deputy County Counsel

Date: JUNE 1, 2016

Approved as to Fiscal Provisions<sup>2</sup>

By: [Signature]  
Auditor/Controller

Date: 5-2-16

Approved as to Liability Provisions<sup>3</sup>

By: \_\_\_\_\_  
Risk Management

Date: \_\_\_\_\_

**CONTRACTOR**

BSK Associates

Contractor's Business Name\*

By: [Signature]  
(Signature of Chair, President, or Vice-President)\*

Brad Meadows, Vice President  
Name and Title

Date: 5/11/2016

By: [Signature]  
(Signature of Secretary, Asst. Secretary, CFO, Treasurer or Asst. Treasurer)\*

MIKE VARTANIAN, CFO  
Name and Title

Date: 5/11/16

County Board of Supervisors' Agreement Number: \_\_\_\_\_, approved on (date): \_\_\_\_\_

\*INSTRUCTIONS: If CONTRACTOR is a corporation, including limited liability and non-profit corporations, the full legal name of the corporation shall be set forth above together with the signatures of two specified officers. If CONTRACTOR is a partnership, the name of the partnership shall be set forth above together with the signature of a partner who has authority to execute this Agreement on behalf of the partnership. If CONTRACTOR is contracting in an individual capacity, the individual shall set forth the name of the business, if any, and shall personally sign the Agreement.

<sup>1</sup>Approval by County Counsel is required

<sup>2</sup>Approval by Auditor-Controller is required

<sup>3</sup>Approval by Risk Management is necessary only if changes are made in paragraphs 8 or 9

## EXHIBIT A

**To The Standard Agreement  
Between The  
County of Monterey ("County")  
And  
BSK Associates ("Contractor")**

### Scope of Services / Payment Provisions

#### A. SCOPE OF SERVICES

CONTRACTOR shall provide services and staff, and otherwise do all things necessary for or incidental to the performance of work, as set forth below:

CONTRACTOR will provide Environmental Laboratory testing/analysis services as requested by the Public Health Laboratory Director and/or Health Officer.

Analysis shall be performed according to methods approved by the Environmental Protection Agency or California State Department of Health for the specific matrix.

Standard turnaround time for reporting results will be ten (10) days.

#### B. PAYMENT PROVISIONS

##### **COMPENSATION/ PAYMENT**

For the term of this Agreement, July 1, 2016 to June 30, 2019, County shall pay an **amount not to exceed \$500,000** for the performance of all things necessary for or incidental to the performance of work as set forth in the Scope of Services. CONTRACTOR'S compensation for services rendered shall be based on Exhibit B, Contractor's Fee Schedule.

#### C. INVOICING AND PAYEMNTS

1. For services satisfactorily rendered, and upon receipt and approval of the invoices, the County agrees to compensate the Contractor in accordance with this Exhibit A, Scope of Services/Payment Provisions. The County Auditor-Controller shall pay the amount certified within 30 days of receiving the certified invoice.
2. Invoices shall be submitted in duplicate to:

**Monterey County Health Department  
Public Health Laboratory  
1270 Natividad Road  
Salinas, CA 93906  
Telephone: (831) 755-1250**

3. Invoices shall:

- i. Be prepared on Contractor letterhead. An authorized official, employee, or agent certifying that the expenditures claimed represent services performed under this contract must sign invoices.
- ii. Bear the Contractor's name as shown on the agreement.
- iii. Identify the billing and/or performance period covered by the invoice.
- iv. Itemize costs for the billing period in the same detail as indicated in the scope of services in the agreement. Reimbursement may only be sought for those costs and/or cost categories expressly identified as allowable in this agreement and approved by the County of Monterey.



## BSK Standard Pricing, 2016

Monterey CHD  
1270 Natividad Rd. Rm A15  
Salinas, CA 93906

Printed: 06/10/2016  
Effective: 01/01/2013  
Expires: 12/31/2016

## Pricing Summary

Parameter	Method	Quantity	TAT (Days)	Unit Price	Extended Price
<b>Water</b>					
1,2,3-Trichloropropane by GC-MS SIM	SRL 524M-TCP	1	10	\$120.00	\$120.00
1,4-Dioxane by GC-MS	EPA 8270C	1	10	\$225.00	\$225.00
Aluminum (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Ammonium (NH <sub>4</sub> , PH/NH <sub>3</sub> )	[See Details]	1	10	\$54.00	\$54.00
Arsenic (Total) by ICP-MS	EPA 200.8	1	10	\$13.50	\$13.50
Asbestos, Bulk	Subcontract	1	10	\$180.00	\$180.00
Asbestos, Drinking Water	Subcontract	1	10	\$180.00	\$180.00
Biochemical Oxygen Demand (BOD)	SM 5210B	1	10	\$31.50	\$31.50
Bromate by Ion Chromatography	EPA 317.0	1	10	\$54.00	\$54.00
Calcium (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Carbamates by HPLC	EPA 531.1	1	10	\$100.00	\$100.00
Chemical Oxygen Demand (COD)	SM 5220D	1	10	\$36.00	\$36.00
Chlorinated Acid Herbicides by GC-ECD	EPA 515.3	1	10	\$92.00	\$92.00
Cryptosporidium, Giardia	Subcontract	1	10	\$525.00	\$525.00
Cyanide by Colorimetry	SM 4500-CN E	1	10	\$31.50	\$31.50
Dioxin, 2,3,7,8-TCDD	Subcontract	1	10	\$350.00	\$350.00
Diquat by HPLC	EPA 549.2	1	10	\$120.00	\$120.00
Dissolved Oxygen (DO) by Winkler Titration	SM 4500-O C	1	10	\$16.50	\$16.50
Diuron by HPLC	EPA 632	1	10	\$100.00	\$100.00
EDB and DBCP by GC-ECD	EPA 504.1	1	10	\$55.00	\$55.00
Endothall by GC-MS	EPA 548.1	1	10	\$107.00	\$107.00
Explosives by GC-MS [UCMR II]	EPA 529	1	10	\$225.00	\$225.00
EXT-Radium 226/228 Package	[See Details]	1	20	\$247.50	\$247.50
General Mineral Analysis Package	[See Details]	1	10	\$125.00	\$125.00
General Physical Package	[See Details]	1	10	\$33.00	\$33.00
Glyphosate by HPLC	EPA 547	1	10	\$100.00	\$100.00
Gross Alpha by Co-precipitation	SM 7110C	1	10	\$45.00	\$45.00
Gross Alpha, Beta	Subcontract	1	10	\$90.00	\$90.00
Gross Beta	Subcontract	1	10	\$45.00	\$45.00
Haloacetic Acids by GC-ECD	[See Details]	1	10	\$120.00	\$120.00
Herbicide Degradates by LC-MS/MS [UCMR II]	EPA 535	1	10	\$337.50	\$337.50
Hexavalent Chromium by Ion Chromatography	EPA 218.6	1	10	\$81.00	\$81.00
Hexavalent Chromium by Ion Chromatography	EPA 218.6	1	10	\$105.00	\$105.00

All quotations are strictly confidential

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**BSK Standard Pricing, 2016**

Monterey CHD  
 1270 Natividad Rd. Rm A15  
 Salinas, CA 93906

Printed: 06/10/2016  
 Effective: 01/01/2013  
 Expires: 12/31/2016

**Pricing Summary**

Parameter	Method	Quantity	TAT (Days)	Unit Price	Extended Price
<b>Water</b>					
Hydrogen Sulfide (HS, S2/PH/EC) by Calculation	[See Details]	1	10	\$40.00	\$40.00
Inorganics Analysis Package	[See Details]	1	10	\$122.00	\$122.00
Iron (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Lead (Total) by ICP-MS	EPA 200.8	1	10	\$13.50	\$13.50
Magnesium (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Manganese (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Miscellaneous External (1)	Subcontract	1	10	\$0.90	\$0.90
MTBE by GC-MS	EPA 524.2	1	10	\$46.00	\$46.00
Nitrogen , Total Kjeldahl (TKN)	EPA 351.2	1	10	\$32.60	\$32.60
Nitrogen, Total Organic	[See Details]	1	10	\$51.00	\$51.00
Nitrogen/Phosphorous Pesticides by GC-MS	EPA 525.2	1	10	\$125.00	\$125.00
Nitrosamines by GC-MS (CI) [UCMR II]	EPA 521	1	10	\$270.00	\$270.00
Oil and Grease (1664)	EPA 1664A	1	10	\$60.00	\$60.00
Oil and Grease, Total and Hydrocarbon (1664)	[See Details]	1	10	\$69.50	\$69.50
Organic Carbon (Dissolved)	SM 5310C	1	10	\$45.00	\$45.00
Organic Carbon, Total (TOC)	SM 5310C	1	10	\$36.00	\$36.00
Organochlorine Pesticides by GC-ECD	EPA 8081A	1	10	\$135.00	\$135.00
Organohalide Pesticides and PCBs by GC-ECD	EPA 505	1	10	\$92.00	\$92.00
Organophosphates (EPA 8141 List) by GC-MS	EPA 8270C	1	10	\$125.00	\$125.00
Organophosphorous Pesticides by GC-NPD	Subcontract	1	10	\$144.00	\$144.00
Paraquat by HPLC	EPA 549.2	1	10	\$120.00	\$120.00
Perchlorate by Ion Chromatography	EPA 314.0	1	10	\$47.00	\$47.00
Perchlorate by Ion Chromatography (CLO4/EC)	[See Details]	1	10	\$47.00	\$47.00
Pesticides, Flame Retardants by GC-MS [UCMR II]	EPA 527	1	10	\$225.00	\$225.00
Potassium (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Pyrethroids by GC-MS	EPA 8270C	1	10	\$250.00	\$250.00
Radium 226	Subcontract	1	10	\$112.00	\$112.00
Radium 228	Subcontract	1	10	\$167.00	\$167.00
Radon	Subcontract	1	10	\$50.00	\$50.00
RSK-175 Methane, Ethane, and Ethene	Subcontract	1	10	\$135.00	\$135.00
Semi-Volatile Organics (PAHs, 8100 List) by GC-MS	EPA 8270C	1	10	\$190.00	\$190.00
Semi-Volatile Organics by GC-MS	EPA 525.2	1	10	\$140.00	\$140.00
Semi-Volatile Organics by GC-MS	EPA 525.2	1	10	\$140.00	\$140.00

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**BSK Standard Pricing, 2016**

Monterey CHD  
 1270 Natividad Rd. Rm A15  
 Salinas, CA 93906

Printed: 06/10/2016  
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 Expires: 12/31/2016

**Pricing Summary**

Parameter	Method	Quantity	TAT (Days)	Unit Price	Extended Price
<b>Water</b>					
Semi-Volatile Organics by GC-MS [UCMR11]	EPA 525.2	1	10	\$157.50	\$157.50
Silica (Dissolved) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Silica (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Sodium (Total) by ICP	EPA 200.7	1	10	\$13.50	\$13.50
Solids, Total Fixed Dissolved (TFDS/TDS)	[See Details]	1	10	\$28.00	\$28.00
Surfactants (MBAS)	SM 5540C	1	10	\$45.00	\$45.00
Title 21 (FDA Bottled Water) Externals	[See Details]	1	10	\$720.00	\$720.00
Title 21 (FDA Bottled Water) Inorganics	[See Details]	1	10	\$424.50	\$424.50
Title 21 (FDA Bottled Water) Organics	[See Details]	1	10	\$1,327.50	\$1,327.50
Title 22 (CA SDWA) GM/IO/GP	[See Details]	1	10	\$210.00	\$210.00
Title 22 (CA SDWA) Organics	[See Details]	1	10	\$989.00	\$989.00
Title 22 (CA SDWA) Organics (excl. Diuron)	[See Details]	1	10	\$970.00	\$970.00
TPH-Diesel by GC-FID	EPA 8015B	1	10	\$55.00	\$55.00
TPH-Diesel by GC-FID	EPA 8015B	1	10	\$55.00	\$55.00
TPH-Diesel, Motor Oil by GC-FID	EPA 8015B	1	10	\$76.50	\$76.50
TPH-Diesel, Motor Oil by GC-FID	EPA 8015B	1	10	\$76.50	\$76.50
TPH-Gasoline by GC-MS	LUFT GC/MS	1	10	\$55.00	\$55.00
TPH-Gasoline by GC-MS	LUFT GC/MS	1	10	\$63.00	\$63.00
Transmission	BSK	1	10	\$40.00	\$40.00
Trihalomethanes by GC-ELCD	[See Details]	1	10	\$76.50	\$76.50
Trihalomethanes by GC-MS	[See Details]	1	10	\$63.00	\$63.00
Turbidity Screen, Metals Analysis	SM 2130B	1	10	\$0.00	\$0.00
UCMR3, DSMRT Field Blank	[See Details]	1	10	\$0.00	\$0.00
UCMR3, DSMRT List	[See Details]	1	10	\$148.50	\$148.50
UCMR3, List 1/EPTDS	[See Details]	1	10	\$486.00	\$486.00
UCMR3, List 1/EPTDS Field Blank	[See Details]	1	10	\$0.00	\$0.00
UCMR3, List 1/EPTDS Trip Blank	[See Details]	1	10	\$0.00	\$0.00
Uranium Decision	N/A	1	10	\$0.00	\$0.00
Uranium, Radiological by ICP-MS/Calculation	[See Details]	1	10	\$46.00	\$46.00
Volatile Organics (BTEX and Oxygenates) by GC-MS	[See Details]	1	10	\$135.00	\$135.00
Volatile Organics (Standard List) by GC-MS	[See Details]	1	10	\$157.50	\$157.50
Volatile Organics by GC-MS	[See Details]	1	10	\$83.00	\$83.00
Volatile Organics by GC-MS	EPA 624	1	10	\$157.50	\$157.50

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**Pricing Summary**

Parameter	Method	Quantity	TAT (Days)	Unit Price	Extended Price
<b>Water</b>					
Volatile Organics by GC-PID/ELCD	[See Details]	1	10	\$135.00	\$135.00
Volatile Organics by GC-PID/ELCD	EPA 502.2	1	10	\$135.00	\$135.00
Zinc (Total) by ICP-MS	EPA 200.8	1	10	\$13.50	\$13.50
<b>Solid</b>					
Asbestos, Bulk	Subcontract	1	10	\$25.00	\$25.00
Bioassay, Title 22 Hazardous Waste	Subcontract	1	10	\$225.00	\$225.00
Cyanide, Reactive	Subcontract	1	10	\$81.00	\$81.00
EXT-Ignitability	-	1	10	\$67.50	\$67.50
Metals (Total, CAM 17 List) by ICP/ICP-MS	[See Details]	1	10	\$180.00	\$180.00
Miscellaneous External (1)	Subcontract	1	10	\$0.90	\$0.90
Oil and Grease (9071)	EPA 9071B	1	10	\$72.00	\$72.00
Oil and Grease, Total and Hydrocarbon (9071)	[See Details]	1	10	\$81.00	\$81.00
Organophosphates (EPA 8141 List) by GC-MS	EPA 8270C	1	10	\$157.50	\$157.50
pH (DI Extraction)	EPA 9045C	1	10	\$22.50	\$22.50
Pyrethroids by GC-MS	EPA 8270C	1	10	\$270.00	\$270.00
Saturation Percentage, Soil	A 2540G / ASTM E 871-I	1	10	\$45.00	\$45.00
Semi-Volatile Organics (PAHs, 8100 List) by GC-MS	EPA 8270C	1	10	\$190.00	\$190.00
Semi-Volatile Organics (Standard List) by GC-MS	EPA 8270C	1	10	\$247.50	\$247.50
Solids, Percent	SM 2540B	1	10	\$27.00	\$27.00
Solids, Total Fixed Dissolved (TFDS/TDS)	[See Details]	1	10	\$28.00	\$28.00
Sulfide, Reactive	Subcontract	1	10	\$81.00	\$81.00
TPH-Diesel by GC-FID	EPA 8015B	1	10	\$55.00	\$55.00
TPH-Diesel, Motor Oil by GC-FID	EPA 8015B	1	10	\$76.50	\$76.50
TPH-Diesel, Motor Oil by GC-FID	EPA 8015B	1	10	\$76.50	\$76.50
Volatile Organics (Standard List) by GC-MS	[See Details]	1	10	\$157.50	\$157.50
<b>Air</b>					
Miscellaneous External (1)	Subcontract	1	10	\$0.90	\$0.90
				<b>Bid Total:</b>	<b>\$16,193.30</b>

**Quotation Prepared by...**

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Expires: 12/31/2016

John Montierth  
Project Manager



**BSK Standard Pricing, 2016**

Monterey CHD  
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**Package Analysis Details**

**Ammonium (NH4, PH/NH3) consists of:**

---

Ammonia by Continuous Flow (EPA 350.1)  
DO NOT USE - LOG THE PACKAGE (SM 8010F)  
pH (SM 4500-H+ B)

**Volatile Organics by GC-PID/ELCD consists of:**

---

Volatile Organics by GC-PID/ELCD (EPA 502.2)

**Trihalomethanes by GC-ELCD consists of:**

---

Trihalomethanes by GC-ELCD (EPA 502.2)

**Volatile Organics by GC-MS consists of:**

---

DO NOT USE - LOG THE PACKAGE (EPA 524.2a)  
Volatile Organics by GC-MS (EPA 524.2a)

**Trihalomethanes by GC-MS consists of:**

---

DO NOT USE - LOG THE PACKAGE (EPA 524.2a)  
Trihalomethanes by GC-MS (EPA 524.2)

**Haloacetic Acids by GC-ECD consists of:**

---

DO NOT USE - LOG THE PACKAGE (EPA 552.3a)  
Haloacetic Acids by GC-ECD, GC-MS (EPA 552.3)

**Volatile Organics (Standard List) by GC-MS consists of:**

---

Volatile Organics (Standard List) by GC-MS (EPA 8260B)

**Volatile Organics (BTEX and Oxygenates) by GC-MS consists of:**

---

DO NOT USE - LOG THE PACKAGE (EPA 8260Ba)  
Volatile Organics (BTEX and Oxygenates) by GC-MS (EPA 8260B)

**EXT-Radium 226/228 Package consists of:**

---

Radium 226-DW (Subcontract)  
Radium 228-DW (Subcontract)

**General Mineral Analysis Package consists of:**

---

Alkalinity (CaCO3, HCO3/CO3/OH) by Titration (SM 2320B)  
Calcium (Total) by ICP (EPA 200.7)  
Chloride by Ion Chromatography (EPA 300.0)  
Copper (Total) by ICP (EPA 200.7)  
DO NOT USE - LOG THE PACKAGE (-)  
Electrical Conductivity (EC) (SM 2510B)  
Iron (Total) by ICP (EPA 200.7)  
Magnesium (Total) by ICP (EPA 200.7)  
Manganese (Total) by ICP (EPA 200.7)



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**General Mineral Analysis Package consists of:**

---

pH (SM 4500-H+ B)  
Potassium (Total) by ICP (EPA 200.7)  
Silver (Total) by ICP (EPA 200.7)  
Sodium (Total) by ICP (EPA 200.7)  
Solids, Total Dissolved (TDS) (SM 2540C)  
Sulfate by Ion Chromatography (EPA 300.0)  
Surfactants (MBAS) (SM 5540C)  
Zinc (Total) by ICP (EPA 200.7)

**General Physical Package consists of:**

---

Color (SM 2120B)  
Odor (SM 2150B)  
pH (SM 4500-H+ B)  
Turbidity (SM 2130B)

**Hydrogen Sulfide (HS, S<sub>2</sub>/PH/EC) by Calculation consists of:**

---

DO NOT USE - LOG THE PACKAGE (SM 4500-S F)  
Electrical Conductivity (EC) (SM 2510B)  
pH (SM 4500-H+ B)  
Sulfide (Subcontract)

**Inorganics Analysis Package consists of:**

---

Aluminum (Total) by ICP (EPA 200.7)  
Antimony (Total) by ICP-MS (EPA 200.8)  
Arsenic (Total) by ICP-MS (EPA 200.8)  
Barium (Total) by ICP (EPA 200.7)  
Beryllium (Total) by ICP-MS (EPA 200.8)  
Cadmium (Total) by ICP-MS (EPA 200.8)  
Chromium (Total) by ICP-MS (EPA 200.8)  
Cyanide by Colorimetry (SM 4500-CN E)  
Fluoride by Ion Chromatography (EPA 300.0)  
Lead (Total) by ICP-MS (EPA 200.8)  
Mercury (Total) by ICP-MS (EPA 200.8)  
Nickel (Total) by ICP-MS (EPA 200.8)  
Nitrate (N) by Ion Chromatography (EPA 300.0)  
Nitrite (NO<sub>2</sub>) by Ion Chromatography (EPA 300.0)  
Selenium (Total) by ICP-MS (EPA 200.8)  
Thallium (Total) by ICP-MS (EPA 200.8)

**Metals (Total, CAM 17 List) by ICP/ICP-MS consists of:**

---

Antimony (Total) by ICP-MS (EPA 6020)  
Arsenic (Total) by ICP-MS (EPA 6020)  
Barium (Total) by ICP-MS (EPA 6020)  
Beryllium (Total) by ICP-MS (EPA 6020)  
Cadmium (Total) by ICP-MS (EPA 6020)  
Chromium (Total) by ICP-MS (EPA 6020)



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**Metals (Total, CAM 17 List) by ICP/ICP-MS consists of:**

---

- Cobalt (Total) by ICP-MS (EPA 6020)
- Copper (Total) by ICP-MS (EPA 6020)
- Lead (Total) by ICP-MS (EPA 6020)
- Mercury (Total) by ICP-MS (EPA 6020A)
- Molybdenum (Total) by ICP-MS (EPA 6020)
- Nickel (Total) by ICP-MS (EPA 6020)
- Selenium (Total) by ICP-MS (EPA 6020)
- Silver (Total) by ICP-MS (EPA 6020)
- Thallium (Total) by ICP-MS (EPA 6020)
- Vanadium (Total) by ICP-MS (EPA 6020)
- Zinc (Total) by ICP-MS (EPA 6020)

**Oil and Grease, Total and Hydrocarbon (1664) consists of:**

---

- Hydrocarbon Oil and Grease (1664) (EPA 1664A (SGT))
- Oil and Grease (1664) (EPA 1664A)

**Oil and Grease, Total and Hydrocarbon (9071) consists of:**

---

- Hydrocarbon Oil and Grease (9071) (EPA 9071B (SGT))
- Oil and Grease (9071) (EPA 9071B)

**Perchlorate by Ion Chromatography (CLO4/EC) consists of:**

---

- Electrical Conductivity (EC) (SM 2510B)
- Perchlorate by Ion Chromatography (EPA 314.0)

**Solids, Total Fixed Dissolved (TFDS/TDS) consists of:**

---

- Solids, Total Dissolved (TDS) (SM 2540C)
- Solids, Total Fixed Dissolved (TFDS) (SM 2540E)

**Title 21 (FDA Bottled Water) Externals consists of:**

---

- Chlorine Dioxide (24HR HT) (-)
- Dioxin, 2,3,7,8-TCDD (Subcontract)
- Gross Alpha, Beta (Subcontract)
- Phenolics (Low Level) (Subcontract)
- Radium 226-DW (Subcontract)
- Radium 228-DW (Subcontract)

**Title 21 (FDA Bottled Water) Inorganics consists of:**

---

- Alkalinity (CaCO3, HCO3/CO3/OH) by Titration (SM 2320B)
- Aluminum (Total) by ICP (EPA 200.7)
- Antimony (Total) by ICP-MS (EPA 200.8)
- Arsenic (Total) by ICP-MS (EPA 200.8)
- Barium (Total) by ICP (EPA 200.7)
- Beryllium (Total) by ICP-MS (EPA 200.8)
- Bromate by Ion Chromatography (EPA 317.0)
- Cadmium (Total) by ICP-MS (EPA 200.8)
- Calcium (Total) by ICP (EPA 200.7)



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**Title 21 (FDA Bottled Water) Inorganics consists of:**

---

- Chloramines by Titration (SM 4500-Cl F)
- Chloride by Ion Chromatography (EPA 300.0)
- Chlorine by Titration (SM 4500-Cl F)
- Chlorite by Ion Chromatography (EPA 300.1)
- Chromium (Total) by ICP-MS (EPA 200.8)
- Color (SM 2120B)
- Copper (Total) by ICP-MS (EPA 200.8)
- Cyanide by Colorimetry (SM 4500-CN E)
- DO NOT USE - LOG THE PACKAGE (SM 2330B)
- Electrical Conductivity (EC) (SM 2510B)
- Fluoride by Ion Chromatography (EPA 300.0)
- Iron (Total) by ICP (EPA 200.7)
- Lead (Total) by ICP-MS (EPA 200.8)
- Magnesium (Total) by ICP (EPA 200.7)
- Manganese (Total) by ICP (EPA 200.7)
- Mercury (Total) by ICP-MS (EPA 200.8)
- Nickel (Total) by ICP-MS (EPA 200.8)
- Nitrate (N) by Ion Chromatography (EPA 300.0)
- Nitrite (NO<sub>2</sub>) by Ion Chromatography (EPA 300.0)
- Odor (SM 2150B)
- pH (SM 4500-H+ B)
- Potassium (Total) by ICP (EPA 200.7)
- Selenium (Total) by ICP-MS (EPA 200.8)
- Silver (Total) by ICP-MS (EPA 200.8)
- Sodium (Total) by ICP (EPA 200.7)
- Solids, Total Dissolved (TDS, Low Level) (SM 2540C)
- Sulfate by Ion Chromatography (EPA 300.0)
- Surfactants (MBAS) (SM 5540C)
- Thallium (Total) by ICP-MS (EPA 200.8)
- Turbidity (SM 2130B)
- Uranium (Total) by ICP-MS (EPA 200.8)
- Zinc (Total) by ICP-MS (EPA 200.8)

**Title 21 (FDA Bottled Water) Organics consists of:**

---

- Carbamates by HPLC (EPA 531.1)
- Chlorinated Acid Herbicides by GC-ECD (EPA 515.3)
- Diquat by HPLC (EPA 549.2)
- DO NOT USE - LOG THE PACKAGE (EPA 552.3a)
- EDB and DBCP by GC-ECD (EPA 504.1)
- Endothall by GC-MS (EPA 548.1)
- Glyphosate by HPLC (EPA 547)
- Haloacetic Acids by GC-ECD, GC-MS (EPA 552.3)
- Organohalide Pesticides and PCBs by GC-ECD (EPA 505)
- Semi-Volatile Organics by GC-MS (EPA 525.2)
- Volatile Organics by GC-MS (EPA 524.2)

**Title 22 (CA SDWA) GM/IO/GP consists of:**

---



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**Title 22 (CA SDWA) GM/IO/GP consists of:**

---

- Alkalinity (CaCO<sub>3</sub>, HCO<sub>3</sub>/CO<sub>3</sub>/OH) by Titration (SM 2320B)
- Aluminum (Total) by ICP (EPA 200.7)
- Antimony (Total) by ICP-MS (EPA 200.8)
- Arsenic (Total) by ICP-MS (EPA 200.8)
- Barium (Total) by ICP (EPA 200.7)
- Beryllium (Total) by ICP-MS (EPA 200.8)
- Cadmium (Total) by ICP-MS (EPA 200.8)
- Calcium (Total) by ICP (EPA 200.7)
- Chloride by Ion Chromatography (EPA 300.0)
- Chromium (Total) by ICP-MS (EPA 200.8)
- Color (SM 2120B)
- Copper (Total) by ICP-MS (EPA 200.8)
- Cyanide by Colorimetry (SM 4500-CN E)
- DO NOT USE - LOG THE PACKAGE (-)
- Electrical Conductivity (EC) (SM 2510B)
- Fluoride by Ion Chromatography (EPA 300.0)
- Iron (Total) by ICP (EPA 200.7)
- Lead (Total) by ICP-MS (EPA 200.8)
- Magnesium (Total) by ICP (EPA 200.7)
- Manganese (Total) by ICP (EPA 200.7)
- Mercury (Total) by ICP-MS (EPA 200.8)
- Nickel (Total) by ICP-MS (EPA 200.8)
- Nitrate (N) by Ion Chromatography (EPA 300.0)
- Nitrite (NO<sub>2</sub>) by Ion Chromatography (EPA 300.0)
- Odor (SM 2150B)
- pH (SM 4500-H+ B)
- Potassium (Total) by ICP (EPA 200.7)
- Selenium (Total) by ICP-MS (EPA 200.8)
- Silver (Total) by ICP-MS (EPA 200.8)
- Sodium (Total) by ICP (EPA 200.7)
- Solids, Total Dissolved (TDS) (SM 2540C)
- Sulfate by Ion Chromatography (EPA 300.0)
- Surfactants (MBAS) (SM 5540C)
- Thallium (Total) by ICP-MS (EPA 200.8)
- Turbidity (SM 2130B)
- Zinc (Total) by ICP (EPA 200.7)

**Title 22 (CA SDWA) Organics consists of:**

---

- Carbamates by HPLC (EPA 531.1)
- Chlorinated Acid Herbicides by GC-ECD (EPA 515.3)
- Diquat by HPLC (EPA 549.2)
- Diuron by HPLC (EPA 632)
- DO NOT USE - LOG THE PACKAGE (EPA 524.2a)
- EDB and DBCP by GC-ECD (EPA 504.1)
- Endothall by GC-MS (EPA 548.1)
- Glyphosate by HPLC (EPA 547)
- Organohalide Pesticides and PCBs by GC-ECD (EPA 505)



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**Title 22 (CA SDWA) Organics consists of:**

---

Semi-Volatile Organics by GC-MS (EPA 525.2)  
Volatile Organics by GC-MS (EPA 524.2)

**Title 22 (CA SDWA) Organics (excl. Diuron) consists of:**

---

Carbamates by HPLC (EPA 531.1)  
Chlorinated Acid Herbicides by GC-ECD (EPA 515.3)  
Diquat by HPLC (EPA 549.2)  
DO NOT USE - LOG THE PACKAGE (EPA 524.2a)  
EDB and DBCP by GC-ECD (EPA 504.1)  
Endothall by GC-MS (EPA 548.1)  
Glyphosate by HPLC (EPA 547)  
Organohalide Pesticides and PCBs by GC-ECD (EPA 505)  
Semi-Volatile Organics by GC-MS (EPA 525.2)  
Volatile Organics by GC-MS (EPA 524.2)

**Nitrogen, Total Organic consists of:**

---

Ammonia by Continuous Flow (EPA 350.1)  
Nitrogen , Total Kjeldahl (TKN) (EPA 351.2)

**UCMR3, DSMRT Field Blank consists of:**

---

Chromium (Total) by ICP-MS (EPA 200.8)  
Cobalt (Total) by ICP-MS (EPA 200.8)  
Molybdenum (Total) by ICP-MS (EPA 200.8)  
Strontium (Total) by ICP-MS (EPA 200.8)  
Vanadium (Total) by ICP-MS (EPA 200.8)

**UCMR3, DSMRT List consists of:**

---

Chromium (Total) by ICP-MS (EPA 200.8)  
Cobalt (Total) by ICP-MS (EPA 200.8)  
Molybdenum (Total) by ICP-MS (EPA 200.8)  
Strontium (Total) by ICP-MS (EPA 200.8)  
UCMR3, Chlorate by Ion Chromatography (EPA 300.1)  
UCMR3, Hexavalent Chromium by Ion Chromatography (EPA 218.7)  
Vanadium (Total) by ICP-MS (EPA 200.8)

**UCMR3, List 1/EPTDS consists of:**

---

Chromium (Total) by ICP-MS (EPA 200.8)  
Cobalt (Total) by ICP-MS (EPA 200.8)  
Molybdenum (Total) by ICP-MS (EPA 200.8)  
Strontium (Total) by ICP-MS (EPA 200.8)  
UCMR3, 1,4-Dioxane by GC-MS SIM (EPA 522)  
UCMR3, Chlorate by Ion Chromatography (EPA 300.1)  
UCMR3, Hexavalent Chromium by Ion Chromatography (EPA 218.7)  
UCMR3, Low Level Volatile Organics by GC-MS (EPA 524.3)  
UCMR3, Perfluorinated Compounds by LC-MS/MS (EPA 537)  
Vanadium (Total) by ICP-MS (EPA 200.8)



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**UCMR3, List 1/EPTDS Field Blank consists of:**

---

- Chromium (Total) by ICP-MS (EPA 200.8)
- Cobalt (Total) by ICP-MS (EPA 200.8)
- Molybdenum (Total) by ICP-MS (EPA 200.8)
- Strontium (Total) by ICP-MS (EPA 200.8)
- UCMR3, Perfluorinated Compounds by LC-MS/MS (EPA 537)
- Vanadium (Total) by ICP-MS (EPA 200.8)

**UCMR3, List 1/EPTDS Trip Blank consists of:**

---

- UCMR3, Low Level Volatile Organics by GC-MS (EPA 524.3)

**Uranium, Radiological by ICP-MS/Calculation consists of:**

---

- Uranium (Total) by ICP-MS (EPA 200.8)





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**Sample Collection / Hold Time Info**

**General Chemistry**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Alkalinity (CaCO<sub>3</sub>, HCO<sub>3</sub>/CO<sub>3</sub>/OH) by Titration (SM 2320B)</b>				
Water	1L P / None	No preservative; Refrigerate	100mL	14 days
<b>Ammonia by Continuous Flow (EPA 350.1)</b>				
Water	250mL P / H <sub>2</sub> SO <sub>4</sub>	Add H <sub>2</sub> SO <sub>4</sub> to pH<2; Refrigerate	250mL	28 days
<b>Biochemical Oxygen Demand (BOD) (SM 5210B)</b>				
Water	1L P / None	No preservative; Refrigerate	600mL	2 days
<b>Bromate by Ion Chromatography (EPA 317.0)</b>				
Water	250mL P / EDA	Refrigerate	250mL	28 days
<b>Chemical Oxygen Demand (COD) (SM 5220D)</b>				
Water	250mL AG / H <sub>2</sub> SO <sub>4</sub>	Add H <sub>2</sub> SO <sub>4</sub> to pH<2; Refrigerate	250mL	28 days
<b>Chloramines by Titration (SM 4500-CI F)</b>				
Water	1L P / None	No preservative; Refrigerate	250mL	1 day
<b>Chloride by Ion Chromatography (EPA 300.0)</b>				
Water	250mL P / None	No preservative; Refrigerate	200 mL	28 days
<b>Chlorine by Titration (SM 4500-CI F)</b>				
Water	1L P / None	No preservative; Refrigerate	250mL	1 day
<b>Chlorite by Ion Chromatography (EPA 300.1)</b>				
Water	250mL P / EDA	Refrigerate	250mL	14 days
<b>Color (SM 2120B)</b>				
Water	1L P / None	No preservative; Refrigerate	100mL	2 days
<b>Cyanide by Colorimetry (SM 4500-CN E)</b>				
Water	250mL P / NaOH	Add NaOH to pH>12; Refrigerate	250mL	14 days
<b>Dissolved Oxygen (DO) by Winkler Titration (SM 4500-O C)</b>				
Water	300mL CG DO Bottle	Refrigerate	300mL	0.333 days
<b>DO NOT USE - LOG THE PACKAGE (SM 4500-S F)</b>				
Water	Z- 125mL P / None	Refrigerate	125mL	180 days

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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>DO NOT USE - LOG THE PACKAGE (SM 8010F)</b>				
<i>Water</i>	<i>250mL P / H2SO4</i>	<i>Add H2SO4 to pH&lt;2; Refrigerate</i>	<i>250mL</i>	<i>28 days</i>
<b>Electrical Conductivity (EC) (SM 2510B)</b>				
<i>Water</i>	<i>1L P / None</i>	<i>No preservative; Refrigerate</i>	<i>75mL</i>	<i>28 days</i>
<b>Fluoride by Ion Chromatography (EPA 300.0)</b>				
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>200mL</i>	<i>28 days</i>
<b>Hexavalent Chromium by Ion Chromatography (EPA 218.6)</b>				
<i>Water</i>	<i>250mL P / NH4OH(NH4)2SO4_DW</i>	<i>Refrigerate</i>	<i>250mL</i>	<i>14 days</i>
<b>Nitrate (N) by Ion Chromatography (EPA 300.0)</b>				
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>250mL</i>	<i>2 days</i>
<b>Nitrite (NO2) by Ion Chromatography (EPA 300.0)</b>				
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>250mL</i>	<i>2 days</i>
<b>Nitrogen , Total Kjeldahl (TKN) (EPA 351.2)</b>				
<i>Water</i>	<i>250mL P / H2SO4</i>	<i>Add H2SO4 to pH&lt;2; Refrigerate</i>	<i>250mL</i>	<i>28 days</i>
<b>Odor (SM 2150B)</b>				
<i>Water</i>	<i>500mL AG / None</i>	<i>No preservative; Refrigerate</i>	<i>500mL</i>	<i>1 day</i>
<b>Organic Carbon (Dissolved) (SM 5310C)</b>				
<i>Water</i>	<i>40mL VOA / None</i>	<i>No preservative; Refrigerate</i>	<i>40mL</i>	<i>28 days</i>
<b>Organic Carbon, Total (TOC) (SM 5310C)</b>				
<i>Water</i>	<i>40mL VOA / H3PO4</i>	<i>Add H3PO4 to pH &lt;2; Refrigerate</i>	<i>40mL</i>	<i>28 days</i>
<b>Perchlorate by Ion Chromatography (EPA 314.0)</b>				
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Store ambient</i>	<i>200mL</i>	<i>28 days</i>
<b>pH (DI Extraction) (EPA 9045C)</b>				
<i>Solid</i>	<i>Other</i>	<i>Refrigerate</i>	<i>100g</i>	<i>180 days</i>
<b>pH (SM 4500-H+ B)</b>				
<i>Water</i>	<i>1L P / None</i>	<i>Refrigerate</i>	<i>100mL</i>	<i>180 days</i>
<b>Saturation Percentage, Soil (SM 2540G / ASTM E 871-82)</b>				
<i>Solid</i>	<i>Other</i>	<i>NA</i>	<i>125g</i>	<i>180 days</i>



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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Solids, Percent (SM 2540B)</b>				
<i>Solid</i>	<i>Other</i>	<i>NA</i>	<i>125g</i>	<i>180 days</i>
<b>Solids, Total Dissolved (TDS) (SM 2540C)</b>				
<i>Solid</i>	<i>Other</i>	<i>Refrigerate</i>	<i>40g</i>	<i>28 days</i>
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>250mL</i>	<i>7 days</i>
<b>Solids, Total Dissolved (TDS, Low Level) (SM 2540C)</b>				
<i>Water</i>	<i>1L P / None</i>	<i>No preservative; Refrigerate</i>	<i>1000mL</i>	<i>7 days</i>
<b>Solids, Total Fixed Dissolved (TFDS) (SM 2540E)</b>				
<i>Solid</i>	<i>Other</i>	<i>NA</i>	<i>40g</i>	<i>28 days</i>
<i>Water</i>	<i>250mL P / None</i>	<i>None</i>	<i>250 mL</i>	<i>7 days</i>
<b>Sulfate by Ion Chromatography (EPA 300.0)</b>				
<i>Water</i>	<i>250mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>250mL</i>	<i>28 days</i>
<b>Surfactants (MBAS) (SM 5540C)</b>				
<i>Water</i>	<i>1L P / None</i>	<i>No preservative; Refrigerate</i>	<i>300mL</i>	<i>2 days</i>
<b>Transmission (BSK)</b>				
<i>Water</i>	<i>500mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>500mL</i>	<i>28 days</i>
<b>Turbidity (SM 2130B)</b>				
<i>Water</i>	<i>1L P / None</i>	<i>No preservative; Refrigerate</i>	<i>100mL</i>	<i>2 days</i>
<b>UCMR3, Chlorate by Ion Chromatography (EPA 300.1)</b>				
<i>Water</i>	<i>250mL P / EDA</i>	<i>Refrigerate</i>	<i>250mL</i>	<i>28 days</i>
<b>UCMR3, Hexavalent Chromium by Ion Chromatography (EPA 218.7)</b>				
<i>Water</i>	<i>250mL P / NH4OH(NH4)2SO4</i>	<i>Refrigerate</i>	<i>250mL</i>	<i>14 days</i>

**Metals**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Aluminum (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>

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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Antimony (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Antimony (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Arsenic (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Arsenic (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Barium (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Barium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Beryllium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Beryllium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Cadmium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Cadmium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Calcium (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Chromium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Chromium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Cobalt (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>250mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>250mL</i>	<i>28 days</i>



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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Cobalt (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Copper (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Copper (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Copper (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Iron (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Lead (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Lead (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Magnesium (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Manganese (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Mercury (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>28 days</i>
<b>Mercury (Total) by ICP-MS (EPA 6020A)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>28 days</i>
<b>Molybdenum (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>250mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>250mL</i>	<i>28 days</i>
<b>Molybdenum (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Nickel (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>

*All quotations are strictly confidential*

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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Nickel (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Potassium (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Selenium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Selenium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Silica (Dissolved) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>500mL</i>	<i>28 days</i>
<b>Silica (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / None</i>	<i>No preservative; Refrigerate</i>	<i>500mL</i>	<i>28 days</i>
<b>Silver (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Silver (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Silver (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Sodium (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Strontium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>250mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>250mL</i>	<i>28 days</i>
<b>Thallium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Thallium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Uranium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>

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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Vanadium (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>250mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>250mL</i>	<i>28 days</i>
<b>Vanadium (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>
<b>Zinc (Total) by ICP (EPA 200.7)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Zinc (Total) by ICP-MS (EPA 200.8)</b>				
<i>Water</i>	<i>500mL P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>500mL</i>	<i>180 days</i>
<b>Zinc (Total) by ICP-MS (EPA 6020)</b>				
<i>Solid</i>	<i>250mL CG / None</i>	<i>Refrigerate</i>	<i>5g</i>	<i>180 days</i>

**Miscellaneous**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Sulfide (Subcontract)</b>				
<i>Water</i>	<i>1L AG / None</i>	<i>No preservative; Refrigerate</i>	<i>1000mL</i>	<i>7 days</i>

**Radio Chemistry**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Gross Alpha by Co-precipitation (SM 7110C)</b>				
<i>Water</i>	<i>1L P / HNO3</i>	<i>Add HNO3 to pH&lt;2; Store ambient</i>	<i>1000mL</i>	<i>365 days</i>

**Semi-volatile Organics**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>1,4-Dioxane by GC-MS (EPA 8270C)</b>				
<i>Water</i>	<i>1L AG / None</i>	<i>Refrigerate</i>	<i>1000mL</i>	<i>7 days</i>

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<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Carbamates by HPLC (EPA 531.1)</b>				
Water	40mL VOA / MCAA + Na2S2O3	Dechlorinate; Refrigerate	250mL	28 days
<b>Chlorinated Acid Herbicides by GC-ECD (EPA 515.3)</b>				
Water	250mL AG / Na2S2O3	Sodium thiosulfate; Refrigerate	250	14 days
<b>Diquat by HPLC (EPA 549.2)</b>				
Water	1L AP / Na2S2O3	Dechlorinate; Refrigerate	1000mL	7 days
<b>Diuron by HPLC (EPA 632)</b>				
Water	1L AG / None	Refrigerate	1000mL	7 days
<b>EDB and DBCP by GC-ECD (EPA 504.1)</b>				
Water	40mL VOA / Na2S2O3	Sodium thiosulfate; Refrigerate	40mL	14 days
<b>Endothall by GC-MS (EPA 548.1)</b>				
Water	250mL AG / Na2S2O3	Dechlorinate; Refrigerate	250mL	7 days
<b>Explosives by GC-MS [UCMR II] (EPA 529)</b>				
Water	1L AG / CuSO4 + Trizma	*** DEFAULT PRESERVATION ***	1000mL	14 days
<b>Glyphosate by HPLC (EPA 547)</b>				
Water	40mL VOA / Na2S2O3	Sodium thiosulfate; Refrigerate	250mL	14 days
<b>Haloacetic Acids by GC-ECD, GC-MS (EPA 552.3)</b>				
Water	250mL AG / NH4CL	Dechlorinate; Refrigerate	250mL	14 days
<b>Herbicide Degradates by LC-MS/MS [UCMR II] (EPA 535)</b>				
Water	1L AG / NH4Cl	Dechlorinate; Refrigerate	1000mL	14 days
<b>Hydrocarbon Oil and Grease (1664) (EPA 1664A (SGT))</b>				
Water	1L AG / HCl	Add HCl to pH<2; refrigerate	1000mL	28 days
<b>Hydrocarbon Oil and Grease (9071) (EPA 9071B (SGT))</b>				
Solid	500mL CG / None	No preservative; Refrigerate	50g	28 days
<b>Nitrogen/Phosphorous Pesticides by GC-MS (EPA 525.2)</b>				
Water	1L AG / Na2S2O3	Dechlorinate; Refrigerate	1000mL	14 days
<b>Nitrosamines by GC-MS (CI) [UCMR II] (EPA 521)</b>				
Water	1L AG / Na2S2O3	Dechlorinate; Refrigerate	1000mL	14 days





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**Semi-volatile Organics**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Oil and Grease (1664) (EPA 1664A)</b>				
Water	1L AG / HCl	Add HCl to pH<2; refrigerate	1000mL	28 days
<b>Oil and Grease (9071) (EPA 9071B)</b>				
Solid	500mL CG / None	No preservative; Refrigerate	50g	28 days
<b>Organochlorine Pesticides by GC-ECD (EPA 8081A)</b>				
Water	1L AG / None	No preservative; Refrigerate	1000mL	7 days
<b>Organohalide Pesticides and PCBs by GC-ECD (EPA 505)</b>				
Water	40mL VOA / Na2S2O3	Sodium thiosulfate; Refrigerate	40	7 days
<b>Organophosphates (EPA 8141 List) by GC-MS (EPA 8270C)</b>				
Solid	250mL CG / None	Refrigerate	100g	14 days
Water	1L AG / None	Refrigerate	1000mL	7 days
<b>Paraquat by HPLC (EPA 549.2)</b>				
Water	1L AP / Na2S2O3	Dechlorinate; Refrigerate	1000mL	7 days
<b>Pesticides, Flame Retardants by GC-MS [UCMR II] (EPA 527)</b>				
Water	*** DEFAULT CONTAINER ***	*** DEFAULT PRESERVATION ***	1000mL	14 days
<b>Pyrethroids by GC-MS (EPA 8270C)</b>				
Solid	250mL CG / None	Refrigerate	100g	14 days
Water	1L AG / None	Refrigerate	1000mL	7 days
<b>Semi-Volatile Organics (PAHs, 8100 List) by GC-MS (EPA 8270C)</b>				
Solid	250mL CG / None	Refrigerate	100g	14 days
Water	1L AG / None	Refrigerate	1000mL	7 days
<b>Semi-Volatile Organics (Standard List) by GC-MS (EPA 8270C)</b>				
Solid	250mL CG / None	Refrigerate	100g	14 days
<b>Semi-Volatile Organics by GC-MS (EPA 525.2)</b>				
Water	1L AG / Na2S2O3	Dechlorinate; Refrigerate	1000mL	14 days
<b>Semi-Volatile Organics by GC-MS [UCMR II] (EPA 525.2)</b>				
Water	1L AG / Na2S2O3	Dechlorinate; Refrigerate	1000mL	14 days

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**Semi-volatile Organics**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>TPH-Diesel by GC-FID (EPA 8015B)</b>				
<i>Solid</i>	<i>Soil Tube</i>	<i>Refrigerate</i>	<i>40g</i>	<i>14 days</i>
<i>Water</i>	<i>1L AG / HCl</i>	<i>Add HCl to pH&lt;2; refrigerate</i>	<i>1000mL</i>	<i>14 days</i>
<b>TPH-Diesel, Motor Oil by GC-FID (EPA 8015B)</b>				
<i>Solid</i>	<i>Soil Tube</i>	<i>Refrigerate</i>	<i>40g</i>	<i>14 days</i>
<i>Water</i>	<i>1L AG / HCl</i>	<i>Add HCl to pH&lt;2; refrigerate</i>	<i>1000mL</i>	<i>14 days</i>
<b>UCMR3, 1,4-Dioxane by GC-MS SIM (EPA 522)</b>				
<i>Water</i>	<i>500mL AG / Na2SO3</i>	<i>Dechlorinate; Refrigerate</i>	<i>500mL</i>	<i>28 days</i>
<b>UCMR3, Perfluorinated Compounds by LC-MS/MS (EPA 537)</b>				
<i>Water</i>	<i>250mL P / Trizma</i>	<i>Refrigerate</i>	<i>250mL</i>	<i>14 days</i>

**Volatile Organics**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>1,2,3-Trichloropropane by GC-MS SIM (SRL 524M-TCP)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Add HCl to pH&lt;2; refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>MTBE by GC-MS (EPA 524.2)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>TPH-Gasoline by GC-MS (LUFT GC/MS)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Add HCl to pH&lt;2; refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>Trihalomethanes by GC-ELCD (EPA 502.2)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40 mL</i>	<i>14 days</i>
<b>Trihalomethanes by GC-MS (EPA 524.2)</b>				
<i>Water</i>	<i>40mL VOA AG / Na2S2O3</i>	<i>Dechlorinate; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>UCMR3, Low Level Volatile Organics by GC-MS (EPA 524.3)</b>				
<i>Water</i>	<i>40mL VOA / Maleic + Ascorbic Acid</i>	<i>Refrigerate</i>	<i>40mL</i>	<i>14 days</i>



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**Volatile Organics**

<i>Matrix</i>	<i>Container</i>	<i>Preservation</i>	<i>Amount Required</i>	<i>Hold Time</i>
<b>Volatile Organics (BTEX and Oxygenates) by GC-MS (EPA 8260B)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>Volatile Organics (Standard List) by GC-MS (EPA 8260B)</b>				
<i>Solid</i>	<i>Soil Tube</i>	<i>Refrigerate</i>	<i>5g</i>	<i>14 days</i>
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>Volatile Organics by GC-MS (EPA 524.2)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>Volatile Organics by GC-MS (EPA 624)</b>				
<i>Water</i>	<i>40mL VOA / HCL</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40mL</i>	<i>14 days</i>
<b>Volatile Organics by GC-PID/ELCD (EPA 502.2)</b>				
<i>Water</i>	<i>40mL VOA / HCL + AA</i>	<i>Dechlorinate; add HCl to pH&lt;2; Refrigerate</i>	<i>40 mL</i>	<i>14 days</i>



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>General Chemistry</b>							
<b>Alkalinity (CaCO<sub>3</sub>, HCO<sub>3</sub>/CO<sub>3</sub>/OH) by Titration in Water (SM 2320B)</b>							
Alkalinity as CaCO <sub>3</sub>	3.0 mg/L		80 - 120	20			10
Bicarbonate as CaCO <sub>3</sub>	3.0 mg/L						10
Carbonate as CaCO <sub>3</sub>	3.0 mg/L						10
Hydroxide as CaCO <sub>3</sub>	3.0 mg/L						10
<b>Ammonia by Continuous Flow in Water (EPA 350.1)</b>							
Ammonia as N	0.10 mg/L		90 - 110	20	90 - 110	20	
<b>Biochemical Oxygen Demand (BOD) in Water (SM 5210B)</b>							
Biochemical Oxygen Demand	1.0 mg/L		85 - 115	20			10
<b>Bromate by Ion Chromatography in Water (EPA 317.0)</b>							
Bromate	0.0010 mg/L		85 - 115	10	75 - 125	10	
<b>Chemical Oxygen Demand (COD) in Water (SM 5220D)</b>							
Chemical Oxygen Demand	15 mg/L		80 - 120	20	80 - 120	20	
<b>Chloramines by Titration in Water (SM 4500-CI F)</b>							
Dichloramine	0.10 mg/L						20
Monochloramine	0.10 mg/L						20
<b>Chloride by Ion Chromatography in Water (EPA 300.0)</b>							
Chloride	1.0 mg/L		90 - 110	20	80 - 120	20	
<b>Chlorine by Titration in Water (SM 4500-CI F)</b>							
Chlorine, Free	0.10 mg/L		80 - 120				20
Chlorine, Total	0.10 mg/L		80 - 120				20
<b>Chlorite by Ion Chromatography in Water (EPA 300.1)</b>							
Chlorite	0.0050 mg/L		85 - 115	10	75 - 125	10	
surr: Dichloroacetate			90 - 115				
<b>Color in Water (SM 2120B)</b>							
Color, Apparent	5.0 CU		80 - 120				20
<b>Cyanide by Colorimetry in Water (SM 4500-CN E)</b>							
Cyanide (total)	0.0050 mg/L		80 - 120	20	80 - 120	20	



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>General Chemistry</b>							
<b>Dissolved Oxygen (DO) by Winkler Titration in Water (SM 4500-O C)</b>							
Dissolved Oxygen	0.10 mg/L						
<b>DO NOT USE - LOG THE PACKAGE in Water (-)</b>							
Aggressive Index	[blank]						
<b>DO NOT USE - LOG THE PACKAGE in Water (SM 2330B)</b>							
Langelier Index	-10 SI Units						
<b>DO NOT USE - LOG THE PACKAGE in Water (SM 4500-S F)</b>							
Hydrogen Sulfide	0.10 mg/L						
<b>DO NOT USE - LOG THE PACKAGE in Water (SM 8010F)</b>							
Ammonia as N, unionized (NH3)	0.10 mg/L						
Ammonium (NH4) as N	0.10 mg/L						
<b>Electrical Conductivity (EC) in Water (SM 2510B)</b>							
Conductivity @ 25C	1.0 umhos/cm		90 - 110				20
<b>Fluoride by Ion Chromatography in Water (EPA 300.0)</b>							
Fluoride	0.10 mg/L		90 - 110	10	80 - 120		10
<b>Hexavalent Chromium by Ion Chromatography in Water (EPA 218.6)</b>							
Hexavalent Chromium	0.20 ug/L		90 - 110	10	90 - 110		10
Hexavalent Chromium	0.050 ug/L		90 - 110	10	90 - 110		10
<b>Nitrate (N) by Ion Chromatography in Water (EPA 300.0)</b>							
Nitrate as N	0.23 mg/L		90 - 110	20	80 - 120		20
<b>Nitrite (NO2) by Ion Chromatography in Water (EPA 300.0)</b>							
Nitrite as N	0.050 mg/L		90 - 110	20	50 - 110		20
<b>Nitrogen , Total Kjeldahl (TKN) in Water (EPA 351.2)</b>							
Total Kjeldahl Nitrogen	1.0 mg/L		90 - 110	10	90 - 110		10
<b>Odor in Water (SM 2150B)</b>							
Threshold Odor	1.0 T.O.N.						20
<b>Organic Carbon (Dissolved) in Water (SM 5310C)</b>							
Dissolved Organic Carbon	0.20 mg/L		80 - 120	20	80 - 120		20



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>General Chemistry</b>							
<b>Organic Carbon, Total (TOC) in Water (SM 5310C)</b>							
Total Organic Carbon	0.20 mg/L		80 - 120	20	80 - 120	20	
<b>Perchlorate by Ion Chromatography in Water (EPA 314.0)</b>							
Perchlorate	2.0 ug/L		85 - 115	15	80 - 120	15	
<b>pH in Water (SM 4500-H+ B)</b>							
pH (1)	pH Units						20
pH Temperature in °C	pH Units						
<b>Solids, Total Dissolved (TDS) in Water (SM 2540C)</b>							
Total Dissolved Solids	5.0 mg/L		70 - 130				20
<b>Solids, Total Dissolved (TDS, Low Level) in Water (SM 2540C)</b>							
Total Dissolved Solids	1.0 mg/L		70 - 130				20
<b>Solids, Total Fixed Dissolved (TFDS) in Water (SM 2540E)</b>							
Total Fixed Dissolved Solids	5.0 mg/L						20
<b>Sulfate by Ion Chromatography in Water (EPA 300.0)</b>							
Sulfate as SO4	1.0 mg/L		90 - 110	20	80 - 120	20	
<b>Surfactants (MBAS) in Water (SM 5540C)</b>							
MBAS, Calculated as LAS, mol wt 340	0.050 mg/L		90 - 110	20	90 - 110	20	
<b>Transmission in Water (BSK)</b>							
Transmission	0.10 %						
<b>Turbidity in Water (SM 2130B)</b>							
Turbidity	0.10 NTU		90 - 110				20
<b>UCMR3, Chlorate by Ion Chromatography in Water (EPA 300.1)</b>							
Chlorate	20 ug/L		85 - 115	10			
surr: Dichloroacetate		90 - 115					
<b>UCMR3, Hexavalent Chromium by Ion Chromatography in Water (EPA 218.7)</b>							
Hexavalent Chromium	0.030 ug/L						

**Metals**



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Metals</b>							
<b>Aluminum (Total) by ICP in Water (EPA 200.7)</b>							
Aluminum	0.050 mg/L		85 - 115	20	70 - 130	20	
<b>Antimony (Total) by ICP-MS in Water (EPA 200.8)</b>							
Antimony	2.0 ug/L		85 - 115	20	70 - 130	20	
<b>Arsenic (Total) by ICP-MS in Water (EPA 200.8)</b>							
Arsenic	2.0 ug/L		85 - 115	20	70 - 130	20	
<b>Barium (Total) by ICP in Water (EPA 200.7)</b>							
Barium	0.050 mg/L		85 - 115	20	70 - 130	20	
<b>Beryllium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Beryllium	1.0 ug/L		85 - 115	20	70 - 130	20	
<b>Cadmium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Cadmium	1.0 ug/L		85 - 115	20	70 - 130	20	
<b>Calcium (Total) by ICP in Water (EPA 200.7)</b>							
Calcium	0.10 mg/L		85 - 115	20	70 - 130	20	
<b>Chromium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Chromium	0.20 ug/L		50 - 150				
Chromium	10 ug/L		85 - 115	20	70 - 130	20	
<b>Cobalt (Total) by ICP-MS in Water (EPA 200.8)</b>							
Cobalt	1.0 ug/L		50 - 150				
<b>Copper (Total) by ICP in Water (EPA 200.7)</b>							
Copper	0.050 mg/L		85 - 115	20	70 - 130	20	
<b>Copper (Total) by ICP-MS in Water (EPA 200.8)</b>							
Copper	5.0 ug/L		85 - 115	20	70 - 130	20	
<b>Iron (Total) by ICP in Water (EPA 200.7)</b>							
Iron	0.030 mg/L		85 - 115	20	70 - 130	20	
<b>Lead (Total) by ICP-MS in Water (EPA 200.8)</b>							
Lead	5.0 ug/L		85 - 115	20	70 - 130	20	



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<b>Metals</b>							
<b>Magnesium (Total) by ICP in Water (EPA 200.7)</b>							
Magnesium	0.10 mg/L		85 - 115	20	70 - 130	20	
<b>Manganese (Total) by ICP in Water (EPA 200.7)</b>							
Manganese	0.010 mg/L		85 - 115	20	70 - 130	20	
<b>Mercury (Total) by ICP-MS in Water (EPA 200.8)</b>							
Mercury	0.20 ug/L		85 - 115	20	70 - 130	20	
<b>Molybdenum (Total) by ICP-MS in Water (EPA 200.8)</b>							
Molybdenum	1.0 ug/L		50 - 150				
<b>Nickel (Total) by ICP-MS in Water (EPA 200.8)</b>							
Nickel	10 ug/L		85 - 115	20	70 - 130	20	
<b>Potassium (Total) by ICP in Water (EPA 200.7)</b>							
Potassium	2.0 mg/L		85 - 115	20	70 - 130	20	
<b>Selenium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Selenium	2.0 ug/L		85 - 115	20	70 - 130	20	
<b>Silica (Dissolved) by ICP in Water (EPA 200.7)</b>							
Silica (SiO2)	0.20 mg/L		85 - 115	20	70 - 130	20	
<b>Silica (Total) by ICP in Water (EPA 200.7)</b>							
Silica (SiO2)	0.20 mg/L		85 - 115	20	70 - 130	20	
<b>Silver (Total) by ICP in Water (EPA 200.7)</b>							
Silver	0.010 mg/L		85 - 115	20	70 - 130	20	
<b>Silver (Total) by ICP-MS in Water (EPA 200.8)</b>							
Silver	10 ug/L		75 - 125	20	70 - 130	20	
<b>Sodium (Total) by ICP in Water (EPA 200.7)</b>							
Sodium	1.0 mg/L		85 - 115	20	70 - 130	20	
<b>Strontium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Strontium	0.30 ug/L		50 - 150				
<b>Thallium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Thallium	1.0 ug/L		85 - 115	20	70 - 130	20	





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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Metals</b>							
<b>Uranium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Uranium	1.0 ug/L		85 - 115	20	70 - 130		20
<b>Vanadium (Total) by ICP-MS in Water (EPA 200.8)</b>							
Vanadium	0.20 ug/L		50 - 150				
<b>Zinc (Total) by ICP in Water (EPA 200.7)</b>							
Zinc	0.050 mg/L		85 - 115	20	70 - 130		20
<b>Zinc (Total) by ICP-MS in Water (EPA 200.8)</b>							
Zinc	50 ug/L		85 - 115	20	70 - 130		20

**Miscellaneous**

**Sulfide in Water (Subcontract)**

Sulfide mg/L

**Radio Chemistry**

**Gross Alpha by Co-precipitation in Water (SM 7110C)**

1.65 Sigma Uncertainty	1.00 pCi/L						
Gross Alpha	1.00 pCi/L		80 - 120	50	70 - 130		50
MDA95	1.00 pCi/L						

**Semi-volatile Organics**

**1,4-Dioxane by GC-MS in Water (EPA 8270C)**

1,4-Dioxane	0.50 ug/L						
surr: 1,4-Dioxane-d8			40 - 126				

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<b>Semi-volatile Organics</b>							
<b>Carbamates by HPLC in Water (EPA 531.1)</b>							
3-Hydroxycarbofuran	3.0 ug/L		80 - 120	20	65 - 135	20	
Aldicarb	3.0 ug/L		80 - 120	20	65 - 135	20	
Aldicarb Sulfone	2.0 ug/L		80 - 120	20	65 - 135	20	
Aldicarb Sulfoxide	3.0 ug/L		80 - 120	20	65 - 135	20	
Carbaryl	5.0 ug/L		80 - 120	20	65 - 135	20	
Carbofuran	5.0 ug/L		80 - 120	20	65 - 135	20	
Methomyl	2.0 ug/L		80 - 120	20	65 - 135	20	
Oxamyl	20 ug/L		80 - 120	20	65 - 135	20	
<b>Chlorinated Acid Herbicides by GC-ECD in Water (EPA 515.3)</b>							
2,4,5-T	1.0 ug/L		70 - 130	20	70 - 130	20	30
2,4,5-TP (Silvex)	1.0 ug/L		70 - 130	20	70 - 130	20	30
2,4-D	10 ug/L		70 - 130	20	70 - 130	20	30
Bentazon	2.0 ug/L		70 - 130	20	70 - 130	20	30
Dalapon	10 ug/L		70 - 130	20	70 - 130	20	30
Dicamba	1.5 ug/L		70 - 130	20	70 - 130	20	30
Dinoseb	2.0 ug/L		70 - 130	20	70 - 130	20	30
Pentachlorophenol	0.20 ug/L		70 - 130	20	70 - 130	20	30
Picloram	1.0 ug/L		70 - 130	20	70 - 130	20	30
surr: DCPAA			70 - 130				
<b>Diquat by HPLC in Water (EPA 549.2)</b>							
Diquat	4.0 ug/L		70 - 130	30	70 - 130	30	30
<b>Diuron by HPLC in Water (EPA 632)</b>							
Diuron	1.0 ug/L		80 - 119	30	80 - 119	30	30
surr: Benthocarb			70 - 127				
<b>DO NOT USE - LOG THE PACKAGE in Water (EPA 552.3a)</b>							
Total Haloacetic Acids	2.0 ug/L						
<b>EDB and DBCP by GC-ECD in Water (EPA 504.1)</b>							
Dibromochloropropane (DBCP)	0.010 ug/L		70 - 130	20	65 - 135	20	30
Ethylene Dibromide (EDB)	0.020 ug/L		70 - 130	20	65 - 135	20	30
surr: 1-Br-2-Nitrobenzene			70 - 130				
<b>Endothall by GC-MS in Water (EPA 548.1)</b>							
Endothall	45 ug/L		46 - 116	30	46 - 116	30	30



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**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	Blank Spike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Semi-volatile Organics</b>							
<b>Explosives by GC-MS [UCMR II] in Water (EPA 529)</b>							
1,3-Dinitrobenzene	0.80 ug/L		50 - 150	20			
RDX	1.0 ug/L		50 - 150	20			
TNT	0.80 ug/L		50 - 150	20			
surr: 1,2,4-Trimethyl-5-nitrobenzene		70 - 130					20
surr: 1,3,5-Trimethyl-2-nitrobenzene		70 - 130					20
<b>Glyphosate by HPLC in Water (EPA 547)</b>							
Glyphosate	25 ug/L		70 - 130	30	70 - 130	30	30
surr: AMPA		70 - 130	70 - 130	30	70 - 130	30	30
<b>Haloacetic Acids by GC-ECD, GC-MS in Water (EPA 552.3)</b>							
Dibromoacetic Acid (DBAA)	1.0 ug/L		70 - 130	30	70 - 130	30	30
Dichloroacetic Acid (DCAA)	1.0 ug/L		70 - 130	30	70 - 130	30	30
Monobromoacetic Acid (MBAA)	1.0 ug/L		70 - 130	30	70 - 130	30	30
Monochloroacetic Acid (MCAA)	2.0 ug/L		70 - 130	30	70 - 130	30	30
Trichloroacetic Acid (TCAA)	1.0 ug/L		70 - 130	30	70 - 130	30	30
surr: 2-Bromobutanoic Acid		70 - 130					
<b>Herbicide Degradates by LC-MS/MS [UCMR II] in Water (EPA 535)</b>							
Acetochlor ESA	1.0 ug/L		50 - 150	20			
Acetochlor OA	2.0 ug/L		50 - 150	20			
Alachlor ESA	1.0 ug/L		50 - 150	20			
Alachlor OA	2.0 ug/L		50 - 150	20			
Metolachlor ESA	1.0 ug/L		50 - 150	20			
Metolachlor OA	2.0 ug/L		50 - 150	20			
surr: Dimethachlor ESA		70 - 130					20
<b>Hydrocarbon Oil and Grease (1664) in Water (EPA 1664A (SGT))</b>							
Total Petroleum Hydrocarbons	5.0 mg/L		64 - 132	30	64 - 132	30	



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<b>Semi-volatile Organics</b>							
<b>Nitrogen/Phosphorous Pesticides by GC-MS in Water (EPA 525.2)</b>							
Alachlor	1.0 ug/L		70 - 130	30	70 - 130	30	30
Atrazine	0.50 ug/L		70 - 130	30	70 - 130	30	30
Bromacil	10 ug/L		70 - 130	30	70 - 130	30	30
Butachlor	0.38 ug/L		70 - 130	30	70 - 130	30	30
Dimethoate	10 ug/L		70 - 130	30	70 - 130	30	30
Metolachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Metribuzin	0.50 ug/L		70 - 130	30	70 - 130	30	30
Molinate	2.0 ug/L		70 - 130	30	70 - 130	30	30
Propachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Simazine	1.0 ug/L		70 - 130	30	70 - 130	30	30
Thiobencarb	1.0 ug/L		70 - 130	30	70 - 130	30	30
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130	70 - 130	30	70 - 130	30	30
<b>Nitrosamines by GC-MS (CI) [UCMR II] in Water (EPA 521)</b>							
N-Nitrosodiethylamine (NDEA)	0.0050 ug/L		50 - 150	20			
N-Nitrosodimethylamine (NDMA)	0.0020 ug/L		50 - 150	20			
N-Nitrosodi-n-butylamine (NDBA)	0.0040 ug/L		50 - 150	20			
N-Nitrosodi-n-propylamine (NDPA)	0.0070 ug/L		50 - 150	20			
N-Nitrosomethylethylamine (NMEA)	0.0030 ug/L		50 - 150	20			
N-Nitrosopyrrolidine (NPYR)	0.0020 ug/L		50 - 150	20			
surr: N-Nitrosodimethylamine-d6		70 - 130					20
<b>Oil and Grease (1664) in Water (EPA 1664A)</b>							
Total Oil & Grease	5.0 mg/L		78 - 114	30	78 - 114	30	20



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<b>Semi-volatile Organics</b>							
<b>Organochlorine Pesticides by GC-ECD in Water (EPA 8081A)</b>							
4,4'-DDD	0.050 ug/L		63 - 146	30	63 - 146	30	30
4,4'-DDE	0.050 ug/L		49 - 150	30	49 - 150	30	30
4,4'-DDT	0.050 ug/L		66 - 146	30	66 - 146	30	30
Aldrin	0.050 ug/L		24 - 144	30	24 - 144	30	30
alpha-BHC	0.050 ug/L		32 - 176	30	32 - 176	30	30
beta-BHC	0.050 ug/L		59 - 152	30	59 - 152	30	30
Chlordane	0.50 ug/L			30		30	30
delta-BHC	0.050 ug/L		46 - 156	30	46 - 156	30	30
Dieldrin	0.050 ug/L		62 - 146	30	62 - 146	30	30
Endosulfan I	0.050 ug/L		53 - 151	30	53 - 151	30	30
Endosulfan II	0.050 ug/L		63 - 144	30	63 - 144	30	30
Endosulfan Sulfate	0.050 ug/L		65 - 145	30	65 - 145	30	30
Endrin	0.050 ug/L		55 - 153	30	55 - 153	30	30
Endrin Aldehyde	0.050 ug/L		68 - 128	30	68 - 128	30	30
Heptachlor	0.050 ug/L		34 - 147	30	34 - 147	30	30
Heptachlor Epoxide	0.050 ug/L		57 - 150	30	57 - 150	30	30
Lindane	0.050 ug/L		58 - 148	30	58 - 148	30	30
Methoxychlor	0.050 ug/L		68 - 153	30	68 - 153	30	30
Toxaphene	2.0 ug/L			30		30	30
surr: TCMX			26 - 144				
<b>Organohalide Pesticides and PCBs by GC-ECD in Water (EPA 505)</b>							
Aldrin	0.075 ug/L		70 - 130	20	65 - 135	20	30
Chlordane	0.10 ug/L		70 - 130	20	65 - 135	20	30
Dieldrin	0.020 ug/L		70 - 130	20	65 - 135	20	30
Endrin	0.10 ug/L		70 - 130	20	65 - 135	20	30
Heptachlor	0.010 ug/L		70 - 130	20	65 - 135	20	30
Heptachlor Epoxide	0.010 ug/L		70 - 130	20	65 - 135	20	30
Hexachlorobenzene	0.50 ug/L		70 - 130	20	65 - 135	20	30
Hexachlorocyclopentadiene	1.0 ug/L		70 - 130	20	65 - 135	20	30
Lindane	0.20 ug/L		70 - 130	20	65 - 135	20	30
Methoxychlor	10 ug/L		70 - 130	20	65 - 135	20	30
PCB Aroclor Screen	0.50 ug/L		70 - 130	20	65 - 135	20	30
Toxaphene	1.0 ug/L		70 - 130	20	65 - 135	20	30
surr: 1-Br-2-Nitrobenzene			70 - 130				



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<b>Semi-volatile Organics</b>							
<b>Organophosphates (EPA 8141 List) by GC-MS in Water (EPA 8270C)</b>							
Bolstar	0.10 ug/L		53 - 132	30	53 - 132	30	
Chlorpyrifos	0.010 ug/L		63 - 142	30	63 - 142	30	
Demeton O & S	0.10 ug/L		10 - 103	30	10 - 103	30	
Diazinon	0.050 ug/L		62 - 136	30	62 - 136	30	
Dichlorvos	0.15 ug/L		72 - 133	30	72 - 133	30	
Dimethoate	0.25 ug/L		69 - 143	30	69 - 143	30	
Disulfoton	0.10 ug/L		10 - 131	30	10 - 131	30	
Ethion	0.10 ug/L		82 - 133	30	82 - 133	30	
Ethoprop	0.15 ug/L		81 - 131	30	81 - 131	30	
Fensulfothion	0.10 ug/L		69 - 141	30	69 - 141	30	
Fenthion	0.10 ug/L		64 - 118	30	64 - 118	30	
Guthion	0.15 ug/L		74 - 144	30	74 - 144	30	
Malathion	0.25 ug/L		68 - 150	30	68 - 150	30	
Mevinphos	0.10 ug/L		82 - 134	30	82 - 134	30	
Naled	0.10 ug/L		48 - 176	30	48 - 176	30	
Parathion Ethyl	0.25 ug/L		65 - 161	30	65 - 161	30	
Parathion Methyl	0.10 ug/L		67 - 158	30	67 - 158	30	
Phorate	0.10 ug/L		53 - 128	30	53 - 128	30	
Phosmet	1.0 ug/L		69 - 146	30	69 - 146	30	
Ronnel	0.10 ug/L		78 - 122	30	78 - 122	30	
Stirophos	0.10 ug/L		74 - 143	30	74 - 143	30	
Tokuthion	0.10 ug/L		80 - 125	30	80 - 125	30	
Trichloronate	0.10 ug/L		76 - 136	30	76 - 136	30	
surr: 2-Fluorobiphenyl		40 - 127					
surr: Nitrobenzene-d5		49 - 133					
surr: p-Terphenyl-d14		39 - 135					
<b>Paraquat by HPLC in Water (EPA 549.2)</b>							
Paraquat	0.40 ug/L		70 - 130	30	70 - 130	30	30



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<b>Semi-volatile Organics</b>							
<b>Pesticides, Flame Retardants by GC-MS [UCMR II] in Water (EPA 527)</b>							
BDE-100	0.50 ug/L		50 - 150	20			
BDE-153	0.80 ug/L		50 - 150	20			
BDE-47	0.30 ug/L		50 - 150	20			
BDE-99	0.90 ug/L		50 - 150	20			
Dimethoate	0.70 ug/L		50 - 150	20			
HBB	0.70 ug/L		50 - 150	20			
Terbufos Sulfone	0.40 ug/L		50 - 150	20			
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130					
surr: Perylene-d12		70 - 130					
surr: Triphenyl Phosphate		70 - 130					
<b>Pyrethroids by GC-MS in Water (EPA 8270C)</b>							
Bifenthrin	10 ng/L		50 - 150	30	50 - 150	30	
cis-Permethrin	20 ng/L		50 - 150	30	50 - 150	30	
Cyfluthrin	20 ng/L		50 - 150	30	50 - 150	30	
Cypermethrin	20 ng/L		50 - 150	30	50 - 150	30	
Fenpropathrin	10 ng/L		50 - 150	30	50 - 150	30	
Fenvalerate/Esfenvalerate	20 ng/L		50 - 150	30	50 - 150	30	
lambda-Cyhalothrin	20 ng/L		50 - 150	30	50 - 150	30	
trans-Permethrin	20 ng/L		50 - 150	30	50 - 150	30	
surr: 2-Fluorobiphenyl		40 - 127					
surr: Nitrobenzene-d5		49 - 133					
surr: p-Terphenyl-d14		39 - 135					



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<b>Semi-volatile Organics</b>							
<b>Semi-Volatile Organics (PAHs, 8100 List) by GC-MS in Water (EPA 8270C)</b>							
Acenaphthene	0.010 ug/L		53 - 107	30	53 - 107	30	30
Acenaphthylene	0.010 ug/L		52 - 111	30	52 - 111	30	30
Anthracene	0.010 ug/L		57 - 117	30	57 - 117	30	30
Benzo(a)anthracene	0.010 ug/L		62 - 153	30	62 - 153	30	30
Benzo(a)pyrene	0.010 ug/L		56 - 122	30	56 - 122	30	30
Benzo(b)fluoranthene	0.010 ug/L		43 - 139	30	43 - 139	30	30
Benzo(g,h,i)perylene	0.010 ug/L		24 - 163	30	24 - 163	30	30
Benzo(k)fluoranthene	0.010 ug/L		41 - 144	30	41 - 144	30	30
Chrysene	0.010 ug/L		52 - 124	30	52 - 124	30	30
Dibenzo(a,h)anthracene	0.010 ug/L		30 - 175	30	30 - 175	30	30
Fluoranthene	0.010 ug/L		62 - 119	30	62 - 119	30	30
Fluorene	0.010 ug/L		62 - 106	30	62 - 106	30	30
Indeno(1,2,3-cd)pyrene	0.010 ug/L		33 - 163	30	33 - 163	30	30
Naphthalene	0.010 ug/L		51 - 99	30	51 - 99	30	30
Phenanthrene	0.010 ug/L		64 - 114	30	64 - 114	30	30
Pyrene	0.010 ug/L		49 - 123	30	49 - 123	30	30
surr: 2-Fluorobiphenyl		40 - 127					
surr: Nitrobenzene-d5		49 - 133					
surr: p-Terphenyl-d14		39 - 135					
<b>Semi-Volatile Organics by GC-MS [UCMR II] in Water (EPA 525.2)</b>							
Acetochlor	2.0 ug/L		50 - 150	30			
Alachlor	2.0 ug/L		50 - 150	30			30
Metolachlor	1.0 ug/L		50 - 150	30			30
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130	70 - 130	30			30
surr: Pyrene-d10		70 - 130	70 - 130	30			30
surr: Triphenyl Phosphate		70 - 130	70 - 130	30			30





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<b>Semi-volatile Organics</b>							
<b>Semi-Volatile Organics by GC-MS in Water (EPA 525.2)</b>							
Alachlor	1.0 ug/L		70 - 130	30	70 - 130	30	30
Alachlor	1.0 ug/L		70 - 130	30	70 - 130	30	30
Alachlor	1.0 ug/L		70 - 130	30	70 - 130	30	30
Atrazine	0.50 ug/L		70 - 130	30	70 - 130	30	30
Atrazine	0.50 ug/L		70 - 130	30	70 - 130	30	30
Atrazine	0.50 ug/L		70 - 130	30	70 - 130	30	30
Benzo(a)pyrene	0.10 ug/L		70 - 130	30	70 - 130	30	30
Benzo(a)pyrene	0.10 ug/L		70 - 130	30	70 - 130	30	30
Benzo(a)pyrene	0.10 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) adipate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) adipate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) adipate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) phthalate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) phthalate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bis(2-ethylhexyl) phthalate	3.0 ug/L		70 - 130	30	70 - 130	30	30
Bromacil	10 ug/L		70 - 130	30	70 - 130	30	30
Bromacil	10 ug/L		70 - 130	30	70 - 130	30	30
Bromacil	10 ug/L		70 - 130	30	70 - 130	30	30
Butachlor	0.38 ug/L		70 - 130	30	70 - 130	30	30
Butachlor	0.38 ug/L		70 - 130	30	70 - 130	30	30
Butachlor	0.38 ug/L		70 - 130	30	70 - 130	30	30
Chlorpyrifos	1.0 ug/L		70 - 130	30	70 - 130	30	30
Diazinon	0.25 ug/L		70 - 130	30	70 - 130	30	30
Diazinon	0.25 ug/L		70 - 130	30	70 - 130	30	30
Diazinon	0.25 ug/L		70 - 130	30	70 - 130	30	30
Dimethoate	10 ug/L		70 - 130	30	70 - 130	30	30
Dimethoate	10 ug/L		70 - 130	30	70 - 130	30	30
Dimethoate	10 ug/L		70 - 130	30	70 - 130	30	30
Metolachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Metolachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Metribuzin	0.50 ug/L		70 - 130	30	70 - 130	30	30
Metribuzin	0.50 ug/L		70 - 130	30	70 - 130	30	30
Metribuzin	0.50 ug/L		70 - 130	30	70 - 130	30	30
Molinate	2.0 ug/L		70 - 130	30	70 - 130	30	30
Molinate	2.0 ug/L		70 - 130	30	70 - 130	30	30
Molinate	2.0 ug/L		70 - 130	30	70 - 130	30	30



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<b>Semi-volatile Organics</b>							
<b>Semi-Volatile Organics by GC-MS in Water (EPA 525.2)</b>							
Propachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Propachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Propachlor	0.50 ug/L		70 - 130	30	70 - 130	30	30
Simazine	1.0 ug/L		70 - 130	30	70 - 130	30	30
Simazine	1.0 ug/L		70 - 130	30	70 - 130	30	30
Simazine	1.0 ug/L		70 - 130	30	70 - 130	30	30
Thiobencarb	1.0 ug/L		70 - 130	30	70 - 130	30	30
Thiobencarb	1.0 ug/L		70 - 130	30	70 - 130	30	30
Thiobencarb	1.0 ug/L		70 - 130	30	70 - 130	30	30
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130	70 - 130	30	70 - 130	30	30
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130	70 - 130	30	70 - 130	30	30
surr: 1,3-Dimethyl-2-nitrobenzene		70 - 130	70 - 130	30	70 - 130	30	30
<b>TPH-Diesel by GC-FID in Water (EPA 8015B)</b>							
Diesel Range Organics (C10-24)	50 ug/L		50 - 150	30	50 - 150	30	
TPH as Diesel	50 ug/L		50 - 150	30	50 - 150	30	
surr: Tetracosane		50 - 150					30
surr: Tetracosane		50 - 150					30
<b>TPH-Diesel, Motor Oil by GC-FID in Water (EPA 8015B)</b>							
Diesel Range Organics (C10-24)	50 ug/L		50 - 150	30	50 - 150	30	
Motor Oil Range Organics (C24-C40)	100 ug/L		50 - 150	30	50 - 150	30	
TPH as Diesel	50 ug/L		50 - 150	30	50 - 150	30	
TPH as Motor Oil	100 ug/L		50 - 150	30	50 - 150	30	
surr: Tetracosane		50 - 150					30
surr: Tetracosane		50 - 150					30
<b>UCMR3, 1,4-Dioxane by GC-MS SIM in Water (EPA 522)</b>							
1,4-Dioxane	0.070 ug/L		50 - 150				
surr: 1,4-Dioxane-d8		70 - 130					



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<b>Semi-volatile Organics</b>							
<b>UCMR3, Perfluorinated Compounds by LC-MS/MS in Water (EPA 537)</b>							
Perfluoro-1-butanesulfonic acid (PFBS)	0.090 ug/L		50 - 150				
Perfluoro-1-hexanesulfonic acid (PFHxS)	0.030 ug/L		50 - 150				
Perfluoro-1-octanesulfonic acid (PFOS)	0.040 ug/L		50 - 150				
Perfluoro-n-heptanoic acid (PFHpA)	0.010 ug/L		50 - 150				
Perfluoro-n-nonanoic acid (PFNA)	0.020 ug/L		50 - 150				
Perfluoro-n-octanoic acid (PFOA)	0.020 ug/L		50 - 150				
surr: Perfluoro-n-(1,2-13C2)decanoic acid		70 - 130					
surr: Perfluoro-n-(1,2-13C2)hexanoic acid		70 - 130					
<b>Volatile Organics</b>							
<b>1,2,3-Trichloropropane by GC-MS SIM in Water (SRL 524M-TCP)</b>							
1,2,3-Trichloropropane	0.0050 ug/L		80 - 120	30			20
<b>DO NOT USE - LOG THE PACKAGE in Water (EPA 524.2a)</b>							
Total Trihalomethanes	0.50 ug/L						
Total Xylenes, EPA 524.2	0.50 ug/L						
<b>DO NOT USE - LOG THE PACKAGE in Water (EPA 8260Ba)</b>							
Total Xylenes, EPA 8260B	0.50 ug/L						
<b>MTBE by GC-MS in Water (EPA 524.2)</b>							
Methyl-t-butyl ether	0.50 ug/L		70 - 130	30	41 - 156		30
surr: 1,2-Dichlorobenzene-d4		70 - 130	70 - 130	30			30
surr: Bromofluorobenzene		70 - 130					30
<b>TPH-Gasoline by GC-MS in Water (LUFT GC/MS)</b>							
Gasoline Range Organics (C6-10)	50 ug/L		50 - 150	30	50 - 150	30	
TPH as Gasoline	50 ug/L		50 - 150	20	50 - 150		
surr: 1,2-Dichloroethane-d4		70 - 130					30
surr: 1,2-Dichloroethane-d4		50 - 150					30
<b>Trihalomethanes by GC-ELCD in Water (EPA 502.2)</b>							
Bromodichloromethane	0.50 ug/L		80 - 120	20			20
Bromoform	0.50 ug/L		80 - 120	20			20
Chloroform	0.50 ug/L		80 - 120	20			20
Dibromochloromethane	0.50 ug/L		80 - 120	20			20

All quotations are strictly confidential

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**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Trihalomethanes by GC-MS in Water (EPA 524.2)</b>							
Bromodichloromethane	0.50 ug/L		70 - 130	30	47 - 151		30
Bromoform	0.50 ug/L		70 - 130	30	29 - 162		30
Chloroform	0.50 ug/L		70 - 130	30	52 - 148		30
Dibromochloromethane	0.50 ug/L		70 - 130	30	44 - 149		30
surr: Bromofluorobenzene		70 - 130					30
<b>UCMR3, Low Level Volatile Organics by GC-MS in Water (EPA 524.3)</b>							
1,1-Dichloroethane	0.030 ug/L		70 - 130	30			30
1,2,3-Trichloropropane	0.030 ug/L		70 - 130	30			30
1,3-Butadiene	0.10 ug/L		70 - 130	30			30
Bromochloromethane	0.060 ug/L		70 - 130	30			30
Bromomethane	0.20 ug/L		70 - 130	30			30
Chlorodifluoromethane	0.080 ug/L		70 - 130	30			30
Chloromethane	0.20 ug/L		70 - 130	30			30
surr: 1,2-Dichlorobenzene-d4		70 - 130					
surr: Bromofluorobenzene		70 - 130					
surr: Methyl tert-butyl ether-d3		70 - 130					
<b>Volatile Organics (BTEX and Oxygenates) by GC-MS in Water (EPA 8260B)</b>							
1,2-Dibromoethane (EDB)	0.50 ug/L		82 - 113	30	72 - 123		30
1,2-Dichloroethane	0.50 ug/L		82 - 127	30	65 - 150		30
Benzene	0.50 ug/L		83 - 129	30	67 - 157		30
Di-isopropyl ether (DIPE)	1.0 ug/L		64 - 127	30	64 - 127		30
Ethyl tert-Butyl Ether (ETBE)	1.0 ug/L		62 - 129	30	62 - 129		30
Ethylbenzene	0.50 ug/L		82 - 115	30	76 - 127		30
m,p-Xylenes	0.50 ug/L		83 - 108	30	73 - 127		30
Methyl-t-butyl ether	0.50 ug/L		79 - 131	30	60 - 150		30
Naphthalene	5.0 ug/L		57 - 125	30	10 - 190		30
o-Xylene	0.50 ug/L		81 - 115	30	76 - 122		30
tert-Amyl Methyl Ether (TAME)	1.0 ug/L		64 - 129	30	64 - 129		30
tert-Butyl alcohol (TBA)	50 ug/L		40 - 199	30	40 - 199		30
Toluene	0.50 ug/L		83 - 115	30	64 - 136		30
surr: 1,2-Dichloroethane-d4		70 - 130					30
surr: Bromofluorobenzene		70 - 130					30
surr: Toluene-d8		70 - 130					30



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**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics (Standard List) by GC-MS in Water (EPA 8260B)</b>							
1,1,1,2-Tetrachloroethane	0.50 ug/L		80 - 118	30	75 - 119	30	
1,1,1-Trichloroethane	0.50 ug/L		80 - 137	30	63 - 169	30	
1,1,2,2-Tetrachloroethane	0.50 ug/L		73 - 124	30	69 - 129	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 ug/L		52 - 176	30	56 - 187	30	
1,1,2-Trichloroethane	0.50 ug/L		83 - 114	30	73 - 121	30	
1,1-Dichloroethane	0.50 ug/L		82 - 129	30	58 - 167	30	
1,1-Dichloroethene	0.50 ug/L		80 - 139	30	69 - 174	30	
1,1-Dichloropropene	5.0 ug/L		76 - 142	30	66 - 169	30	
1,2,3-Trichlorobenzene	5.0 ug/L		54 - 133	30	20 - 176	30	
1,2,3-Trichloropropane	5.0 ug/L		65 - 129	30	58 - 137	30	
1,2,4-Trichlorobenzene	5.0 ug/L		66 - 128	30	33 - 143	30	
1,2,4-Trimethylbenzene	5.0 ug/L		69 - 127	30	69 - 122	30	
1,2-Dibromoethane (EDB)	0.50 ug/L		82 - 113	30	72 - 123	30	
1,2-Dichlorobenzene	0.50 ug/L		68 - 128	30	69 - 122	30	
1,2-Dichloroethane	0.50 ug/L		82 - 127	30	65 - 150	30	
1,2-Dichloropropane	0.50 ug/L		83 - 128	30	64 - 155	30	
1,3,5-Trimethylbenzene	5.0 ug/L		70 - 128	30	70 - 123	30	
1,3-Dichlorobenzene	0.50 ug/L		64 - 132	30	64 - 129	30	
1,3-Dichloropropane	5.0 ug/L		84 - 113	30	73 - 121	30	
1,4-Dichlorobenzene	0.50 ug/L		68 - 129	30	70 - 122	30	
2,2-Dichloropropane	5.0 ug/L		65 - 150	30	29 - 167	30	
2-Butanone	20 ug/L		46 - 156	30	10 - 173	30	
2-Chlorotoluene	5.0 ug/L		70 - 127	30	77 - 120	30	
2-Hexanone	20 ug/L		56 - 135	30	33 - 159	30	
4-Chlorotoluene	5.0 ug/L		68 - 129	30	76 - 121	30	
4-Methyl-2-pentanone	20 ug/L		67 - 136	30	49 - 164	30	
Acetone	20 ug/L		19 - 194	30	10 - 195	30	
Benzene	0.50 ug/L		83 - 129	30	67 - 157	30	
Bromobenzene	0.50 ug/L		71 - 125	30	78 - 122	30	
Bromochloromethane	5.0 ug/L		81 - 129	30	65 - 152	30	
Bromodichloromethane	0.50 ug/L		81 - 129	30	58 - 154	30	
Bromoform	0.50 ug/L		66 - 131	30	69 - 120	30	
Bromomethane	1.0 ug/L		50 - 152	30	10 - 163	30	
Carbon disulfide	50 ug/L		78 - 140	30	50 - 196	30	
Carbon Tetrachloride	0.50 ug/L		76 - 147	30	61 - 175	30	
Chlorobenzene	0.50 ug/L		81 - 115	30	76 - 123	30	



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Analyte	Reporting Limit	Surr %R	Blank Spike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics (Standard List) by GC-MS in Water (EPA 8260B)</b>							
Chloroethane	0.50 ug/L		77 - 132	30	62 - 166	30	
Chloroform	0.50 ug/L		81 - 130	30	66 - 155	30	
Chloromethane	0.50 ug/L		64 - 138	30	34 - 178	30	
cis-1,2-Dichloroethene	0.50 ug/L		81 - 130	30	57 - 156	30	
cis-1,3-Dichloropropene	0.50 ug/L		81 - 129	30	51 - 153	30	
Dibromochloromethane	0.50 ug/L		78 - 119	30	71 - 121	30	
Dibromochloropropane (DBCP)	5.0 ug/L		60 - 131	30	43 - 155	30	
Dibromomethane	0.50 ug/L		81 - 128	30	62 - 148	30	
Dichlorodifluoromethane	1.0 ug/L		52 - 171	30	32 - 188	30	
Dichloromethane	0.50 ug/L		68 - 151	30	58 - 161	30	
Ethylbenzene	0.50 ug/L		82 - 115	30	76 - 127	30	
Hexachlorobutadiene	5.0 ug/L		63 - 142	30	25 - 157	30	
Hexachloroethane	50 ug/L		60 - 138	30	43 - 143	30	
Iodomethane	50 ug/L		51 - 147	30	10 - 174	30	
Isopropylbenzene	5.0 ug/L		69 - 129	30	76 - 127	30	
m,p-Xylenes	0.50 ug/L		83 - 108	30	73 - 127	30	
Methyl-t-butyl ether	0.50 ug/L		79 - 131	30	60 - 150	30	
Naphthalene	5.0 ug/L		57 - 125	30	10 - 190	30	
n-Butylbenzene	5.0 ug/L		61 - 136	30	50 - 135	30	
n-Propylbenzene	5.0 ug/L		68 - 131	30	71 - 129	30	
o-Xylene	0.50 ug/L		81 - 115	30	76 - 122	30	
p-Isopropyltoluene	5.0 ug/L		68 - 132	30	56 - 136	30	
sec-Butylbenzene	5.0 ug/L		68 - 134	30	57 - 140	30	
Styrene	5.0 ug/L		78 - 117	30	66 - 121	30	
tert-Butylbenzene	5.0 ug/L		70 - 127	30	67 - 131	30	
Tetrachloroethene (PCE)	0.50 ug/L		72 - 130	30	36 - 157	30	
Toluene	0.50 ug/L		83 - 115	30	64 - 136	30	
trans-1,2-Dichloroethene	0.50 ug/L		81 - 130	30	60 - 171	30	
trans-1,3-Dichloropropene	0.50 ug/L		79 - 116	30	71 - 117	30	
Trichloroethene (TCE)	0.50 ug/L		82 - 133	30	64 - 160	30	
Trichlorofluoromethane	0.50 ug/L		64 - 164	30	52 - 187	30	
Vinyl Chloride	0.50 ug/L		68 - 150	30	54 - 181	30	
surr: 1,2-Dichloroethane-d4		70 - 130					30
surr: Bromofluorobenzene		70 - 130					30
surr: Toluene-d8		70 - 130					30



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<b>Volatile Organics</b>							
<b>Volatile Organics by GC-MS in Water (EPA 524.2)</b>							
1,1,1,2-Tetrachloroethane	0.50 ug/L		70 - 130	30	41 - 156		30
1,1,1-Trichloroethane	0.50 ug/L		70 - 130	30	48 - 160		30
1,1,1,2-Tetrachloroethane	0.50 ug/L		70 - 130	30	42 - 151		30
1,1,2-Trichloro-1,2,2-trifluoroethane	10 ug/L		70 - 130	30	47 - 164		30
1,1,2-Trichloroethane	0.50 ug/L		70 - 130	30	45 - 152		30
1,1-Dichloroethane	0.50 ug/L		70 - 130	30	48 - 157		30
1,1-Dichloroethene	0.50 ug/L		70 - 130	30	51 - 158		30
1,1-Dichloropropene	0.50 ug/L		70 - 130	30	46 - 162		30
1,2,3-Trichlorobenzene	0.50 ug/L		70 - 130	30	37 - 145		30
1,2,4-Trichlorobenzene	0.50 ug/L		70 - 130	30	33 - 149		30
1,2,4-Trimethylbenzene	0.50 ug/L		70 - 130	30	44 - 146		30
1,2-Dichlorobenzene	0.50 ug/L		70 - 130	30	44 - 146		30
1,2-Dichloroethane	0.50 ug/L		70 - 130	30	47 - 151		30
1,2-Dichloropropane	0.50 ug/L		70 - 130	30	47 - 155		30
1,3,5-Trimethylbenzene	0.50 ug/L		70 - 130	30	45 - 154		30
1,3-Dichlorobenzene	0.50 ug/L		70 - 130	30	44 - 146		30
1,3-Dichloropropane	0.50 ug/L		70 - 130	30	45 - 151		30
1,4-Dichlorobenzene	0.50 ug/L		70 - 130	30	43 - 146		30
2,2-Dichloropropane	0.50 ug/L		70 - 130	30	24 - 182		30
2-Butanone	5.0 ug/L		70 - 130	30	55 - 144		30
2-Chlorotoluene	0.50 ug/L		70 - 130	30	48 - 150		30
2-Hexanone	10 ug/L		70 - 130	30	40 - 159		30
4-Chlorotoluene	0.50 ug/L		70 - 130	30	43 - 150		30
4-Methyl-2-pentanone	5.0 ug/L		70 - 130	30	30 - 171		30
Acetone	10 ug/L		70 - 130	30	27 - 181		30
Benzene	0.50 ug/L		70 - 130	30	48 - 155		30
Bromobenzene	0.50 ug/L		70 - 130	30	43 - 151		30
Bromochloromethane	0.50 ug/L		70 - 130	30	48 - 161		30
Bromodichloromethane	0.50 ug/L		70 - 130	30	47 - 151		30
Bromoform	0.50 ug/L		70 - 130	30	29 - 162		30
Bromomethane	0.50 ug/L		70 - 130	30	10 - 200		30
Carbon Tetrachloride	0.50 ug/L		70 - 130	30	47 - 163		30
Chlorobenzene	0.50 ug/L		70 - 130	30	46 - 152		30
Chloroethane	0.50 ug/L		70 - 130	30	28 - 189		30
Chloroform	0.50 ug/L		70 - 130	30	52 - 148		30
Chloromethane	0.50 ug/L		70 - 130	30	53 - 159		30



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<b>Volatile Organics</b>							
<b>Volatile Organics by GC-MS in Water (EPA 524.2)</b>							
cis-1,2-Dichloroethene	0.50 ug/L		70 - 130	30	50 - 152		30
cis-1,3-Dichloropropene	0.50 ug/L		70 - 130	30	34 - 156		30
Dibromochloromethane	0.50 ug/L		70 - 130	30	44 - 149		30
Dibromomethane	0.50 ug/L		70 - 130	30	46 - 150		30
Dichlorodifluoromethane	0.50 ug/L		70 - 130	30	33 - 170		30
Dichloromethane	0.50 ug/L		70 - 130	30	47 - 156		30
Di-isopropyl ether (DIPE)	3.0 ug/L		70 - 130	30	41 - 159		30
Ethyl tert-Butyl Ether (ETBE)	0.50 ug/L		70 - 130	30	32 - 160		30
Ethylbenzene	0.50 ug/L		70 - 130	30	40 - 157		30
Hexachlorobutadiene	0.50 ug/L		70 - 130	30	38 - 151		30
Isopropylbenzene	0.50 ug/L		70 - 130	30	41 - 156		30
m,p-Xylenes	0.50 ug/L		70 - 130	30	49 - 154		30
Methyl-t-butyl ether	0.50 ug/L		70 - 130	30	41 - 156		30
Naphthalene	0.50 ug/L		70 - 130	30	35 - 154		30
n-Butylbenzene	0.50 ug/L		70 - 130	30	31 - 153		30
n-Propylbenzene	0.50 ug/L		70 - 130	30	39 - 156		30
o-Xylene	0.50 ug/L		70 - 130	30	27 - 164		30
p-Isopropyltoluene	0.50 ug/L		70 - 130	30	26 - 161		30
sec-Butylbenzene	0.50 ug/L		70 - 130	30	39 - 154		30
Styrene	0.50 ug/L		70 - 130	30	10 - 200		30
tert-Amyl Methyl Ether (TAME)	3.0 ug/L		70 - 130	30	24 - 161		30
tert-Butyl alcohol (TBA)	2.0 ug/L		70 - 130	30	22 - 174		30
tert-Butylbenzene	0.50 ug/L		70 - 130	30	40 - 153		30
Tetrachloroethene (PCE)	0.50 ug/L		70 - 130	30	48 - 155		30
Toluene	0.50 ug/L		70 - 130	30	40 - 159		30
trans-1,2-Dichloroethene	0.50 ug/L		70 - 130	30	52 - 157		30
trans-1,3-Dichloropropene	0.50 ug/L		70 - 130	30	28 - 160		30
Trichloroethene (TCE)	0.50 ug/L		70 - 130	30	49 - 155		30
Trichlorofluoromethane	5.0 ug/L		70 - 130	30	47 - 169		30
Vinyl Chloride	0.50 ug/L		70 - 130	30	21 - 183		30
surr: 1,2-Dichlorobenzene-d4		70 - 130	70 - 130	30			30
surr: Bromofluorobenzene		70 - 130					30

**Volatile Organics by GC-MS in Water (EPA 524.2a)**

Total 1,3-Dichloropropene	0.50 ug/L
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<b>Volatile Organics</b>							
<b>Volatile Organics by GC-MS in Water (EPA 624)</b>							
1,1,1-Trichloroethane	0.50 ug/L		52 - 162	30	52 - 162	30	
1,1,1,2-Tetrachloroethane	0.50 ug/L		46 - 157	30	46 - 157	30	
1,1,2-Trichloroethane	0.50 ug/L		52 - 150	30	52 - 150	30	
1,1-Dichloroethane	0.50 ug/L		59 - 155	30	59 - 155	30	
1,1-Dichloroethene	0.50 ug/L		10 - 234	30	10 - 234	30	
1,2-Dichlorobenzene	0.50 ug/L		18 - 190	30	18 - 190	30	
1,2-Dichloroethane	0.50 ug/L		49 - 155	30	49 - 155	30	
1,2-Dichloropropane	0.50 ug/L		10 - 210	30	10 - 210	30	
1,3-Dichlorobenzene	0.50 ug/L		59 - 156	30	59 - 156	30	
1,4-Dichlorobenzene	0.50 ug/L		18 - 190	30	18 - 190	30	
2-Butanone	20 ug/L		50 - 142	30	50 - 142	30	
2-Hexanone	20 ug/L		56 - 143	30	56 - 143	30	
4-Methyl-2-pentanone	20 ug/L		61 - 131	30	61 - 131	30	
Acetone	20 ug/L		10 - 198	30	10 - 198	30	
Benzene	0.50 ug/L		37 - 151	30	37 - 151	30	
Bromodichloromethane	0.50 ug/L		35 - 155	30	35 - 155	30	
Bromoform	0.50 ug/L		45 - 169	30	45 - 169	30	
Bromomethane	1.0 ug/L		10 - 242	30	10 - 242	30	
Carbon disulfide	50 ug/L		67 - 140	30	67 - 140	30	
Carbon Tetrachloride	0.50 ug/L		70 - 140	30	70 - 140	30	
Chlorobenzene	0.50 ug/L		37 - 160	30	37 - 160	30	
Chloroethane	0.50 ug/L		14 - 230	30	14 - 230	30	
Chloroform	0.50 ug/L		51 - 138	30	51 - 138	30	
Chloromethane	0.50 ug/L		10 - 273	30	10 - 273	30	
cis-1,2-Dichloroethene	0.50 ug/L		70 - 126	30	70 - 126	30	
cis-1,3-Dichloropropene	0.50 ug/L		10 - 227	30	10 - 227	30	
Dibromochloromethane	0.50 ug/L		53 - 149	30	53 - 149	30	
Dichlorodifluoromethane	1.0 ug/L		59 - 135	30	59 - 135	30	
Dichloromethane	0.50 ug/L		10 - 221	30	10 - 221	30	
Ethylbenzene	0.50 ug/L		37 - 162	30	37 - 162	30	
Hexachloroethane	1.0 ug/L		78 - 145	30	78 - 145	30	
m,p-Xylenes	0.50 ug/L		79 - 126	30	79 - 126	30	
Methyl-t-butyl ether	0.50 ug/L		73 - 124	30	73 - 124	30	
o-Xylene	0.50 ug/L		79 - 127	30	79 - 127	30	
Styrene	5.0 ug/L		80 - 129	30	80 - 129	30	
Tetrachloroethene (PCE)	0.50 ug/L		64 - 148	30	64 - 148	30	



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<b>Volatile Organics</b>							
<b>Volatile Organics by GC-MS in Water (EPA 624)</b>							
Toluene	0.50 ug/L		47 - 150	30	47 - 150	30	
trans-1,2-Dichloroethene	0.50 ug/L		54 - 156	30	54 - 156	30	
trans-1,3-Dichloropropene	0.50 ug/L		17 - 183	30	17 - 183	30	
Trichloroethene (TCE)	0.50 ug/L		71 - 157	30	71 - 157	30	
Trichlorofluoromethane	0.50 ug/L		17 - 181	30	17 - 181	30	
Vinyl Chloride	0.50 ug/L		10 - 251	30	10 - 251	30	
surr: 1,2-Dichloroethane-d4		70 - 130					20
surr: Bromofluorobenzene		70 - 130					20
surr: Toluene-d8		70 - 130					20



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**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics by GC-PID/ELCD in Water (EPA 502.2)</b>							
1,1,1,2-Tetrachloroethane	0.50 ug/L			20			20
1,1,1-Trichloroethane	0.50 ug/L			20			20
1,1,2,2-Tetrachloroethane	0.50 ug/L		80 - 120	20			20
1,1,2-Trichloro-1,2,2-trifluoroethane	10 ug/L			20			20
1,1,2-Trichloroethane	0.50 ug/L			20			20
1,1-Dichloroethane	0.50 ug/L			20			20
1,1-Dichloroethene	0.50 ug/L			20			20
1,1-Dichloropropene	0.50 ug/L			20			20
1,2,3-Trichlorobenzene	0.50 ug/L			20			20
1,2,3-Trichloropropane	0.50 ug/L			20			20
1,2,4-Trichlorobenzene	0.50 ug/L			20			20
1,2,4-Trimethylbenzene	0.50 ug/L			20			20
1,2-Dichlorobenzene	0.50 ug/L		80 - 120	20			20
1,2-Dichloroethane	0.50 ug/L			20			20
1,2-Dichloropropane	0.50 ug/L			20			20
1,3,5-Trimethylbenzene	0.50 ug/L			20			20
1,3-Dichlorobenzene	0.50 ug/L			20			20
1,3-Dichloropropane	0.50 ug/L			20			20
1,4-Dichlorobenzene	0.50 ug/L			20			20
2,2-Dichloropropane	0.50 ug/L			20			20
2-Chlorotoluene	0.50 ug/L			20			20
4-Chlorotoluene	0.50 ug/L			20			20
Benzene	0.50 ug/L		80 - 120	20			20
Bromobenzene	0.50 ug/L			20			20
Bromochloromethane	0.50 ug/L			20			20
Bromodichloromethane	0.50 ug/L		80 - 120	20			20
Bromoform	0.50 ug/L		80 - 120	20			20
Bromomethane	0.50 ug/L			20			20
Carbon Tetrachloride	0.50 ug/L		80 - 120	20			20
Chlorobenzene	0.50 ug/L		80 - 120	20			20
Chloroethane	0.50 ug/L			20			20
Chloroform	0.50 ug/L		80 - 120	20			20
Chloromethane	0.50 ug/L			20			20
cis-1,2-Dichloroethene	0.50 ug/L			20			20
cis-1,3-Dichloropropene	0.50 ug/L			20			20
Dibromochloromethane	0.50 ug/L		80 - 120	20			20



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**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	Blank Spike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics by GC-PID/ELCD in Water (EPA 502.2)</b>							
Dibromomethane	0.50 ug/L			20			20
Dichlorodifluoromethane	0.50 ug/L			20			20
Dichloromethane	0.50 ug/L		80 - 120	20			20
Ethyl tert-Butyl Ether (ETBE)	3.0 ug/L			20			20
Ethylbenzene	0.50 ug/L		80 - 120	20			20
Hexachlorobutadiene	0.50 ug/L			20			20
Isopropylbenzene	0.50 ug/L			20			20
Methyl-t-butyl ether	3.0 ug/L		80 - 120	20			20
m-Xylene/p-Xylene	0.50 ug/L			20			20
Naphthalene	1.0 ug/L			20			20
n-Butylbenzene	0.50 ug/L			20			20
n-Propylbenzene	0.50 ug/L			20			20
o-Xylene	0.50 ug/L			20			20
p-Isopropyltoluene	0.50 ug/L			20			20
sec-Butylbenzene	0.50 ug/L			20			20
Styrene	0.50 ug/L			20			20
tert-Amyl Methyl Ether (TAME)	3.0 ug/L			20			20
tert-Butylbenzene	0.50 ug/L			20			20
Tetrachloroethene (PCE)	0.50 ug/L		80 - 120	20			20
Toluene	0.50 ug/L		80 - 120	20			20
trans-1,2-Dichloroethene	0.50 ug/L			20			20
trans-1,3-Dichloropropene	0.50 ug/L			20			20
Trichloroethene (TCE)	0.50 ug/L		80 - 120	20			20
Trichlorofluoromethane	5.0 ug/L			20			20
Vinyl Chloride	0.50 ug/L		80 - 120	20			20
surr: 1-Chloro-2-fluorobenzene		80 - 120	80 - 120	20			20

**General Chemistry**

**pH (DI Extraction) in Solid (EPA 9045C)**

pH Temperature in °C	pH Units	
pH, DI Extract	pH Units	20

**Saturation Percentage, Soil in Solid (SM 2540G / ASTM E 871-82)**

Soil Saturation Percentage	0.10 % by Weight	20
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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>General Chemistry</b>							
<b>Solids, Percent in Solid (SM 2540B)</b>							
Percent Solids	0.10 % by Weight						20
<b>Solids, Total Dissolved (TDS) in Solid (SM 2540C)</b>							
Total Dissolved Solids, DI Extract	25 mg/kg		70 - 130				20
<b>Solids, Total Fixed Dissolved (TFDS) in Solid (SM 2540E)</b>							
Total Fixed Dissolved Solids	25 mg/kg						20
<b>Metals</b>							
<b>Antimony (Total) by ICP-MS in Solid (EPA 6020)</b>							
Antimony	10 mg/kg		75 - 125	20	75 - 125		20
<b>Arsenic (Total) by ICP-MS in Solid (EPA 6020)</b>							
Arsenic	2.5 mg/kg		75 - 125	20	75 - 125		20
<b>Barium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Barium	6.2 mg/kg		75 - 125	20	75 - 125		20
<b>Beryllium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Beryllium	1.2 mg/kg		75 - 125	20	75 - 125		20
<b>Cadmium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Cadmium	1.2 mg/kg		75 - 125	20	75 - 125		20
<b>Chromium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Chromium	12 mg/kg		75 - 125	20	75 - 125		20
<b>Cobalt (Total) by ICP-MS in Solid (EPA 6020)</b>							
Cobalt	12 mg/kg		75 - 125	20	75 - 125		20
<b>Copper (Total) by ICP-MS in Solid (EPA 6020)</b>							
Copper	5.0 mg/kg		75 - 125	20	75 - 125		20
<b>Lead (Total) by ICP-MS in Solid (EPA 6020)</b>							
Lead	6.2 mg/kg		75 - 125	20	75 - 125		20



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Metals</b>							
<b>Mercury (Total) by ICP-MS in Solid (EPA 6020A)</b>							
Mercury	0.50 mg/kg		75 - 125	20	75 - 125	20	
<b>Molybdenum (Total) by ICP-MS in Solid (EPA 6020)</b>							
Molybdenum	12 mg/kg		75 - 125	20	75 - 125	20	
<b>Nickel (Total) by ICP-MS in Solid (EPA 6020)</b>							
Nickel	12 mg/kg		75 - 125	20	75 - 125	20	
<b>Selenium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Selenium	2.5 mg/kg		75 - 125	20	75 - 125	20	
<b>Silver (Total) by ICP-MS in Solid (EPA 6020)</b>							
Silver	12 mg/kg		75 - 125	20	75 - 125	20	
<b>Thallium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Thallium	2.0 mg/kg		75 - 125	20	75 - 125	20	
<b>Vanadium (Total) by ICP-MS in Solid (EPA 6020)</b>							
Vanadium	12 mg/kg		75 - 125	20	75 - 125	20	
<b>Zinc (Total) by ICP-MS in Solid (EPA 6020)</b>							
Zinc	62 mg/kg		75 - 125	20	75 - 125	20	
<b>Semi-volatile Organics</b>							
<b>Hydrocarbon Oil and Grease (9071) in Solid (EPA 9071B (SGT))</b>							
Total Petroleum Hydrocarbons	250 mg/kg		70 - 130	30	70 - 130	30	
<b>Oil and Grease (9071) in Solid (EPA 9071B)</b>							
Total Oil & Grease	250 mg/kg		70 - 130	30	70 - 130	30	30



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Semi-volatile Organics</b>							
<b>Organophosphates (EPA 8141 List) by GC-MS in Solid (EPA 8270C)</b>							
Bolstar	10 ug/kg		10 - 160	30	10 - 160	30	
Chlorpyrifos	10 ug/kg		64 - 142	30	64 - 142	30	
Demeton O & S	10 ug/kg		10 - 130	30	10 - 130	30	
Diazinon	10 ug/kg		61 - 144	30	61 - 144	30	
Dichlorvos	10 ug/kg		18 - 181	30	18 - 181	30	
Dimethoate	10 ug/kg		12 - 200	30	12 - 200	30	
Disulfoton	10 ug/kg		10 - 123	30	10 - 123	30	
Ethion	10 ug/kg		66 - 153	30	66 - 153	30	
Ethoprop	10 ug/kg		53 - 148	30	53 - 148	30	
Fensulfothion	10 ug/kg		10 - 200	30	10 - 200	30	
Fenthion	10 ug/kg		10 - 164	30	10 - 164	30	
Guthion	10 ug/kg		10 - 200	30	10 - 200	30	
Malathion	10 ug/kg		61 - 167	30	61 - 167	30	
Mevinphos	10 ug/kg		43 - 161	30	43 - 161	30	
Naled	10 ug/kg		10 - 200	30	10 - 200	30	
Parathion Ethyl	10 ug/kg		65 - 153	30	65 - 153	30	
Parathion Methyl	10 ug/kg		58 - 170	30	58 - 170	30	
Phorate	10 ug/kg		33 - 125	30	33 - 125	30	
Phosmet	10 ug/kg		10 - 200	30	10 - 200	30	
Ronnel	10 ug/kg		72 - 138	30	72 - 138	30	
Stirophos	10 ug/kg		44 - 184	30	44 - 184	30	
Tokuthion	10 ug/kg		82 - 120	30	82 - 120	30	
Trichloronate	10 ug/kg		72 - 134	30	72 - 134	30	
surr: 2-Fluorobiphenyl		46 - 144					
surr: Nitrobenzene-d5		30 - 149					
surr: p-Terphenyl-d14		45 - 161					



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Semi-volatile Organics</b>							
<b>Pyrethroids by GC-MS in Solid (EPA 8270C)</b>							
Bifenthrin	1.0 ug/kg		50 - 150	30	50 - 150	30	
cis-Permethrin	1.0 ug/kg		50 - 150	30	50 - 150	30	
Cyfluthrin	2.0 ug/kg		50 - 150	30	50 - 150	30	
Cypermethrin	2.0 ug/kg		50 - 150	30	50 - 150	30	
Fenpropathrin	1.0 ug/kg		50 - 150	30	50 - 150	30	
Fenvalerate/Esfenvalerate	1.0 ug/kg		50 - 150	30	50 - 150	30	
lambda-Cyhalothrin	1.0 ug/kg		50 - 150	30	50 - 150	30	
trans-Permethrin	1.0 ug/kg		50 - 150	30	50 - 150	30	
surr: 2-Fluorobiphenyl		46 - 144					
surr: Nitrobenzene-d5		30 - 149					
surr: p-Terphenyl-d14		45 - 161					
<b>Semi-Volatile Organics (PAHs, 8100 List) by GC-MS in Solid (EPA 8270C)</b>							
Acenaphthene	1.0 ug/kg		57 - 115	30	57 - 115	30	30
Acenaphthylene	1.0 ug/kg		38 - 119	30	38 - 119	30	30
Anthracene	1.0 ug/kg		31 - 129	30	31 - 129	30	30
Benzo(a)anthracene	1.0 ug/kg		68 - 143	30	68 - 143	30	30
Benzo(a)pyrene	1.0 ug/kg		29 - 150	30	29 - 150	30	30
Benzo(b)fluoranthene	1.0 ug/kg		62 - 144	30	62 - 144	30	30
Benzo(g,h,i)perylene	1.0 ug/kg		18 - 193	30	18 - 193	30	30
Benzo(k)fluoranthene	1.0 ug/kg		62 - 133	30	62 - 133	30	30
Chrysene	1.0 ug/kg		61 - 117	30	61 - 117	30	30
Dibenzo(a,h)anthracene	1.0 ug/kg		22 - 200	30	22 - 200	30	30
Fluoranthene	1.0 ug/kg		62 - 126	30	62 - 126	30	30
Fluorene	1.0 ug/kg		60 - 117	30	60 - 117	30	30
Indeno(1,2,3-cd)pyrene	1.0 ug/kg		28 - 185	30	28 - 185	30	30
Naphthalene	1.0 ug/kg		56 - 112	30	56 - 112	30	30
Phenanthrene	1.0 ug/kg		39 - 143	30	39 - 143	30	30
Pyrene	1.0 ug/kg		50 - 127	30	50 - 127	30	30
surr: 2-Fluorobiphenyl		46 - 144					
surr: Nitrobenzene-d5		30 - 149					
surr: p-Terphenyl-d14		45 - 161					



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Semi-volatile Organics</b>							
<b>Semi-Volatile Organics (Standard List) by GC-MS in Solid (EPA 8270C)</b>							
1,2,4-Trichlorobenzene	100 ug/kg		46 - 117	30	46 - 117	30	30
2,4,6-Trichlorophenol	200 ug/kg		53 - 123	30	53 - 123	30	30
2,4-Dichlorophenol	100 ug/kg		50 - 121	30	50 - 121	30	30
2,4-Dimethylphenol	100 ug/kg		12 - 109	30	12 - 109	30	30
2,4-Dinitrophenol	1000 ug/kg		28 - 147	30	28 - 147	30	30
2,4-Dinitrotoluene	100 ug/kg		44 - 152	30	44 - 152	30	30
2,6-Dinitrotoluene	100 ug/kg		45 - 144	30	45 - 144	30	30
2-Chloronaphthalene	100 ug/kg		54 - 113	30	54 - 113	30	30
2-Chlorophenol	100 ug/kg		44 - 103	30	44 - 103	30	30
2-Nitrophenol	100 ug/kg		36 - 128	30	36 - 128	30	30
3,3-Dichlorobenzidine	650 ug/kg		10 - 127	30	10 - 127	30	30
4,6-Dinitro-2-methylphenol	500 ug/kg		24 - 140	30	24 - 140	30	30
4-Bromophenyl phenyl ether	100 ug/kg		55 - 122	30	55 - 122	30	30
4-Chloro-3-methylphenol	200 ug/kg		58 - 121	30	58 - 121	30	30
4-Chlorophenyl phenyl ether	100 ug/kg		56 - 122	30	56 - 122	30	30
4-Nitrophenol	1000 ug/kg		57 - 127	30	57 - 127	30	30
Acenaphthene	100 ug/kg		57 - 115	30	57 - 115	30	30
Acenaphthylene	100 ug/kg		38 - 119	30	38 - 119	30	30
Anthracene	100 ug/kg		31 - 129	30	31 - 129	30	30
Benzo(a)anthracene	100 ug/kg		68 - 143	30	68 - 143	30	30
Benzo(a)pyrene	100 ug/kg		29 - 150	30	29 - 150	30	30
Benzo(b)fluoranthene	100 ug/kg		62 - 144	30	62 - 144	30	30
Benzo(g,h,i)perylene	100 ug/kg		18 - 193	30	18 - 193	30	30
Benzo(k)fluoranthene	100 ug/kg		62 - 133	30	62 - 133	30	30
Bis(2-chloroethoxy)methane	100 ug/kg		56 - 110	30	56 - 110	30	30
Bis(2-chloroethyl) ether	1700 ug/kg		45 - 110	30	45 - 110	30	30
Bis(2-chloroisopropyl) ether	330 ug/kg		46 - 117	30	46 - 117	30	30
Bis(2-ethylhexyl) phthalate	500 ug/kg		53 - 119	30	53 - 119	30	30
Butyl benzyl phthalate	100 ug/kg		50 - 120	30	50 - 120	30	30
Chrysene	100 ug/kg		61 - 117	30	61 - 117	30	30
Dibenzo(a,h)anthracene	100 ug/kg		22 - 200	30	22 - 200	30	30
Diethyl phthalate	100 ug/kg		55 - 121	30	55 - 121	30	30
Dimethyl phthalate	100 ug/kg		43 - 133	30	43 - 133	30	30
Di-n-butyl phthalate	100 ug/kg		67 - 110	30	67 - 110	30	30
Di-n-octyl phthalate	100 ug/kg		48 - 135	30	48 - 135	30	30
Fluoranthene	100 ug/kg		62 - 126	30	62 - 126	30	30



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Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
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**Semi-volatile Organics**

**Semi-Volatile Organics (Standard List) by GC-MS in Solid (EPA 8270C)**

Fluorene	100 ug/kg		60 - 117	30	60 - 117	30	30
Hexachlorobenzene	100 ug/kg		55 - 124	30	55 - 124	30	30
Hexachlorobutadiene	100 ug/kg		39 - 127	30	39 - 127	30	30
Indeno(1,2,3-cd)pyrene	100 ug/kg		28 - 185	30	28 - 185	30	30
Isophorone	100 ug/kg		47 - 122	30	47 - 122	30	30
Naphthalene	100 ug/kg		56 - 112	30	56 - 112	30	30
Nitrobenzene	100 ug/kg		52 - 117	30	52 - 117	30	30
N-Nitrosodi-n-propylamine (NDPA)	500 ug/kg		37 - 125	30	37 - 125	30	30
N-Nitrosodiphenylamine (as DPA)	100 ug/kg		58 - 142	30	58 - 142	30	30
Pentachlorophenol	1000 ug/kg		28 - 147	30	28 - 147	30	30
Phenanthrene	100 ug/kg		39 - 143	30	39 - 143	30	30
Phenol	100 ug/kg		32 - 117	30	32 - 117	30	30
Pyrene	100 ug/kg		50 - 127	30	50 - 127	30	30
surr: 2,4,6-Tribromophenol		41 - 200					
surr: 2-Fluorobiphenyl		46 - 144					
surr: 2-Fluorophenol		30 - 155					
surr: Nitrobenzene-d5		30 - 149					
surr: Phenol-d6		40 - 162					
surr: p-Terphenyl-d14		45 - 161					

**TPH-Diesel by GC-FID in Solid (EPA 8015B)**

Diesel Range Organics (C10-24)	2.0 mg/kg		50 - 150	30	50 - 150	30	
surr: Tetracosane		50 - 150					30

**TPH-Diesel, Motor Oil by GC-FID in Solid (EPA 8015B)**

Diesel Range Organics (C10-24)	2.0 mg/kg		50 - 150	30	50 - 150	30	
Motor Oil Range Organics (C24-C40)	2.0 mg/kg		50 - 150	30	50 - 150	30	
TPH as Diesel	2.0 mg/kg		50 - 150	30	50 - 150	30	
TPH as Motor Oil	2.0 mg/kg		50 - 150	30	50 - 150	30	
surr: Tetracosane		50 - 150					30
surr: Tetracosane		50 - 150					30

**Volatile Organics**



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Analyte	Reporting Limit	Surr %R	Blank Spike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics (Standard List) by GC-MS in Solid (EPA 8260B)</b>							
1,1,1,2-Tetrachloroethane	5.0 ug/kg		75 - 121	30	26 - 148	30	
1,1,1-Trichloroethane	5.0 ug/kg		75 - 145	30	32 - 163	30	
1,1,1,2,2-Tetrachloroethane	5.0 ug/kg		55 - 151	30	18 - 154	30	
1,1,2-Trichloroethane	5.0 ug/kg		44 - 159	30	38 - 135	30	
1,1-Dichloroethane	5.0 ug/kg		72 - 151	30	43 - 159	30	
1,1-Dichloroethene	5.0 ug/kg		68 - 157	30	39 - 166	30	
1,1-Dichloropropene	5.0 ug/kg		74 - 149	30	28 - 165	30	
1,2,3-Trichlorobenzene	5.0 ug/kg		53 - 138	30	10 - 148	30	
1,2,3-Trichloropropane	5.0 ug/kg		50 - 145	30	14 - 158	30	
1,2,4-Trichlorobenzene	5.0 ug/kg		49 - 141	30	10 - 149	30	
1,2,4-Trimethylbenzene	5.0 ug/kg		58 - 138	30	13 - 158	30	
1,2-Dibromoethane (EDB)	5.0 ug/kg		65 - 135	30	28 - 138	30	
1,2-Dichlorobenzene	5.0 ug/kg		64 - 127	30	25 - 134	30	
1,2-Dichloroethane	5.0 ug/kg		81 - 146	30	34 - 155	30	
1,2-Dichloropropane	5.0 ug/kg		75 - 147	30	30 - 162	30	
1,3,5-Trimethylbenzene	5.0 ug/kg		63 - 129	30	10 - 157	30	
1,3-Dichlorobenzene	5.0 ug/kg		64 - 127	30	27 - 135	30	
1,3-Dichloropropane	5.0 ug/kg		62 - 139	30	32 - 139	30	
1,4-Dichlorobenzene	5.0 ug/kg		62 - 134	30	27 - 139	30	
2,2-Dichloropropane	5.0 ug/kg		70 - 151	30	40 - 153	30	
2-Butanone	20 ug/kg		40 - 209	30	10 - 155	30	
2-Chlorotoluene	5.0 ug/kg		62 - 131	30	21 - 148	30	
2-Hexanone	20 ug/kg		48 - 166	30	10 - 123	30	
4-Chlorotoluene	5.0 ug/kg		57 - 137	30	18 - 149	30	
4-Methyl-2-pentanone	20 ug/kg		66 - 163	30	10 - 179	30	
Acetone	50 ug/kg		30 - 216	30	10 - 196	30	
Benzene	5.0 ug/kg		75 - 147	30	27 - 162	30	
Bromobenzene	5.0 ug/kg		60 - 129	30	16 - 154	30	
Bromochloromethane	5.0 ug/kg		74 - 147	30	38 - 156	30	
Bromodichloromethane	5.0 ug/kg		82 - 146	30	21 - 164	30	
Bromoform	5.0 ug/kg		61 - 135	30	22 - 146	30	
Bromomethane	5.0 ug/kg		54 - 194	30	11 - 190	30	
Carbon disulfide	5.0 ug/kg		67 - 153	30	31 - 157	30	
Carbon Tetrachloride	5.0 ug/kg		71 - 148	30	22 - 169	30	
Chlorobenzene	5.0 ug/kg		77 - 116	30	16 - 147	30	
Chloroethane	5.0 ug/kg		36 - 196	30	30 - 192	30	



**BSK Standard Pricing, 2016**

Monterey CHD  
 1270 Natividad Rd.  
 Salinas, CA 93906

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 Effective: 01/01/2013  
 Expires: 12/31/2016

**Analysis Details / Quality Control Limits**

Analyte	Reporting Limit	Surr %R	BlankSpike/LCS %R	RPD	Matrix Spike %R	RPD	Dup RPD
<b>Volatile Organics</b>							
<b>Volatile Organics (Standard List) by GC-MS in Solid (EPA 8260B)</b>							
Chloroform	5.0 ug/kg		80 - 149	30	36 - 164	30	
Chloromethane	5.0 ug/kg		46 - 188	30	31 - 179	30	
cis-1,2-Dichloroethene	5.0 ug/kg		75 - 147	30	36 - 159	30	
cis-1,3-Dichloropropene	5.0 ug/kg		78 - 145	30	12 - 163	30	
Dibromochloromethane	5.0 ug/kg		65 - 136	30	31 - 136	30	
Dibromochloropropane (DBCP)	5.0 ug/kg		44 - 159	30	22 - 148	30	
Dibromomethane	5.0 ug/kg		78 - 144	30	29 - 156	30	
Dichlorodifluoromethane	5.0 ug/kg		46 - 171	30	45 - 161	30	
Dichloromethane	5.0 ug/kg		75 - 148	30	45 - 153	30	
Ethylbenzene	5.0 ug/kg		75 - 123	30	14 - 156	30	
Hexachlorobutadiene	5.0 ug/kg		55 - 138	30	18 - 134	30	
Hexachloroethane	5.0 ug/kg		56 - 134	30	10 - 148	30	
Iodomethane	5.0 ug/kg		43 - 190	30	10 - 192	30	
Isopropylbenzene	5.0 ug/kg		61 - 131	30	15 - 160	30	
m,p-Xylenes	5.0 ug/kg		75 - 118	30	18 - 156	30	
Methyl-t-butyl ether	5.0 ug/kg		73 - 147	30	48 - 149	30	
Naphthalene	5.0 ug/kg		37 - 169	30	10 - 148	30	
n-Butylbenzene	5.0 ug/kg		55 - 142	30	12 - 147	30	
n-Propylbenzene	5.0 ug/kg		60 - 134	30	21 - 150	30	
o-Xylene	5.0 ug/kg		73 - 121	30	22 - 147	30	
p-Isopropyltoluene	5.0 ug/kg		60 - 130	30	19 - 145	30	
sec-Butylbenzene	5.0 ug/kg		59 - 132	30	19 - 147	30	
Styrene	5.0 ug/kg		71 - 126	30	14 - 149	30	
tert-Butylbenzene	5.0 ug/kg		61 - 130	30	16 - 147	30	
Tetrachloroethene (PCE)	5.0 ug/kg		58 - 139	30	10 - 198	30	
Toluene	5.0 ug/kg		65 - 136	30	11 - 172	30	
trans-1,2-Dichloroethene	5.0 ug/kg		65 - 156	30	39 - 162	30	
trans-1,3-Dichloropropene	5.0 ug/kg		52 - 151	30	26 - 137	30	
Trichloroethene (TCE)	5.0 ug/kg		71 - 148	30	17 - 172	30	
Trichlorofluoromethane	5.0 ug/kg		62 - 159	30	36 - 170	30	
Vinyl Chloride	5.0 ug/kg		61 - 169	30	43 - 164	30	
surr: 1,2-Dichloroethane-d4		70 - 130					30
surr: Bromofluorobenzene		70 - 130					30
surr: Toluene-d8		70 - 130					30