

**Field Sample Collection (and tissue sample preparation):**

Note: Sample collection costs can vary widely, based upon many variables, including type of sample being collected, volume of sample (water and sediment) being collected, sample collection location (can it be reached by foot or boat), travel costs, sample collection method (VanVeen grab, diver core, hydrograb, etc.) QA/QC desired, species of fish, number of fish, size of fish, etc. A range of prices is provided below. Specific prices can be determined when details are provided in the Task Orders.

<b>FIELD SAMPLE COLLECTION</b>	<b>Cost</b>
<b>WALK-UP/CLOSE ACCESS SITES (for close access, drive-up sites only):</b> <u>Collect sediment and/or water samples; conduct centroid velocity measurement when possible, conduct multiparameter probe reading when possible; includes all sample shipping</u>	<u>\$788</u>
<b>BOAT SITES:</b> <u>sample collection required to be conducted from boat; includes only sample collection cost (sediment and/or water)</u>	<u>\$998</u>
<b>OTHER SITES:</b> <u>sites that have more difficult access requiring hiking of packing in of gear, of more than 15-20 minute duration to hike, and where proximal vehicle access is not possible, or other types of samples collection not described herein.</u>	<u>To be negotiated</u>
<b>FIELD PARAMETERS MEASUREMENT</b>	
<u>DO, pH, depth, temperature, conductivity, turbidity measurements using multiparameter probe; per station when done separately</u>	<u>\$140</u>
<b>FISH/BIVALVES</b>	
<u>Bagged bivalve bioaccumulation sample collection (SMW-style)</u>	<u>\$1,262</u>
<u>Fish collected within non-marine waters (TSM-style)</u>	<u>\$1,911</u>
<u>Fish collected within marine/estuarine waters (CFC-style)</u>	<u>\$1,545</u>
<u>Sample preparation for tissues (dissection &amp; homogenization)</u>	<u>\$79</u>

<b>SYNTHETIC ORGANIC CHEMISTRY (per lab replicate)</b>	<b>Sediment</b>	<b>Tissue</b>	<b>Water</b>
<b>Full Scan (pesticide and Aroclors): includes pesticides (OCs and most conventional OPs), and includes PCBs (congeners/arochlors); does not include PAHs</b>	<b>\$872</b>	<b>\$872</b>	<b>\$507</b>
<b>Full Scan (as described above) + PAHs (NIST list)</b>	<b>\$1,494</b>	<b>\$1,494</b>	<b>\$838</b>
<b>PAH (including substituted PAHs)</b>	<b>\$856</b>	<b>\$856</b>	<b>\$607</b>
<b>Total Petroleum Hydrocarbons (TPH)</b>	<b>\$403</b>	<b>\$403</b>	<b>\$221</b>
<b>Organophosphate scan: most conventional OPs are included in "Full Scan" above, more analytes are added for the OP-only scan</b>	<b>\$671</b>	<b>\$671</b>	<b>\$475</b>
<b>PCB only (Aroclors)</b>	<b>\$417</b>	<b>\$417</b>	<b>\$331</b>
<b>Toxaphene only</b>	<b>\$417</b>	<b>\$417</b>	<b>\$331</b>
<b>Total DDT with Individual DDT Compounds<sup>1</sup></b>	<b>\$417</b>	<b>\$417</b>	<b>\$386</b>
<b>Chlordane Compounds only<sup>2</sup></b>	<b>\$417</b>	<b>\$417</b>	<b>\$386</b>
<b>Hexachlorocyclohexanes (a,b,g,d-HCH) only</b>	<b>\$417</b>	<b>\$417</b>	<b>\$386</b>
<b>Hexachlorobenzene only</b>	<b>\$337</b>	<b>\$337</b>	<b>\$331</b>
<b>Chlorpyrifos and Diazinon only</b>	<b>\$417</b>	<b>\$417</b>	<b>\$386</b>
<b>Endosulfan (I,II, Sulfate) only<sup>3</sup></b>	<b>\$417</b>	<b>\$417</b>	<b>\$386</b>
<b>TCP/PCP</b>	<b>\$929</b>	<b>\$929</b>	<b>\$662</b>
<b>TBT</b>	<b>\$524</b>	<b>\$524</b>	<b>\$420</b>

<sup>1</sup> Includes: o,p', p,p'-DDE; o,p',p,p'-DDT; p,p'-DDMU

<sup>2</sup> Includes: cis, trans-chlordane; apha, gamma-chlorden; cis, trans-nonachlor; oxychlordane

<sup>3</sup> Dacthal, Dieldrin, Endrin, Oxadiazon may be added for an additional \$63 or \$422 total

## B. INVOICING PROCEDURES

The Contractor shall be paid quarterly in arrears, upon submission of an original and two copies of the invoice which properly details all charges, expenses, direct and indirect costs. Invoices shall be submitted to:

~~Rachel Russell~~ Pamela Wilson  
Division of Water Quality  
State Water Resources Control Board  
P.O. Box ~~944243~~ 100  
Sacramento, CA ~~94244-2430~~ 95812-0100

1. The original and one (1) approved copy of the invoice or payment request will be forwarded to the State Water Board's Accounting Operations Section by the Contract Manager. Contractors who are certified as small businesses or recognized as non-profit organizations by the Office of Small Business Certification and Resources will be paid in accordance with California Government Code, Title 1, Section 926.15. Invoices for all other contractors shall be paid within 45 calendar days. In either situation, payment of any invoice will be made only after receipt of a complete, adequately supported, properly documented and accurately addressed invoice or payment request. Failure to use the address exactly as provided above may result in return of the invoice or payment request to the Contractor. Payment shall be deemed complete upon deposit of the payment, properly addressed, postage prepaid, in the United States mail. All invoices must be approved by the Contract Manager.
2. The invoice shall contain the following information:
  - (a) The word "INVOICE" should appear in a prominent location at the top of the page(s);
  - (b) Printed name of the Contractor;
  - (c) Business address of the Contractor, including P.O. Box, City, State, and Zip Code;
  - (d) Name of State Water Board/Regional Water Board being billed;
  - (e) The date of the invoice;
  - (f) The number of the agreement and the Task Order number upon which the claim is based; and
  - (g) An itemized account of the services for which the State Water Board is being billed:
    - (1) The time period covered by the invoice, i.e., the term "from" and "to";
    - (2) A brief description of the services performed;
    - (3) The method of computing the amount due. On cost reimbursable agreements, invoices must be based on the categories specified in the Schedule of Costs;

(4) The total amount due; this should be in a prominent location in the lower right-hand portion of the last page and clearly distinguished from other figures or computations appearing on the invoice; the total amount due shall include all costs incurred by the Contractor under the terms of this agreement; and

(5) Original signature of Contractor (not required of established firms or entities using preprinted

<u>TRACE METAL CHEMISTRY<sup>4</sup> (per lab replicate)</u>	<u>Sediment</u>	<u>Tissue</u>	<u>Water</u>
<u>*Note: 3 Lab replicates(tissue analysis) are required for bagged bivalve metal chemistry. in order for result to integrate with SMW data (to be comparable)</u>			
<u>Sample digestion, if requested independent of analyses below</u>	<u>\$60</u>	<u>\$60</u>	<u>\$15</u>
<u>ICP-MS SCANS FOR TRACE METAL</u>			
<u>Sediment suite: (Al, Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As); includes digestion and all other costs</u>	<u>\$246</u>	<u>N/A</u>	<u>N/A</u>
<u>Tissues suite: (Al, Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se); includes digestion, tissue dissection and homogenization, and all other costs; *must do 3 lab reps if bagged bivalves</u>	<u>N/A</u>	<u>\$340; (*\$1,020 if bag bivalve)</u>	<u>N/A</u>
<u>Water suite: total unfiltered: (Al, Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se); includes digestion and all other costs</u>	<u>N/A</u>	<u>N/A</u>	<u>\$209</u>
<u>Water suite: dissolved, filtered (Al, Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se); includes digestion, filtration and all other costs</u>	<u>N/A</u>	<u>N/A</u>	<u>\$230</u>
<u>Sediment Selenium (not done w/ICP for sediments; separate analysis if desired)</u>	<u>\$96</u>	<u>N/A</u>	<u>N/A</u>
<u>Total Mercury (*add \$25 if requesting dissolved, filtered Hg in water)</u>	<u>\$96</u>	<u>\$96</u>	<u>*\$96</u>

<sup>4</sup> Other elements can be analyzed, upon request and negotiated price.

<b>CONVENTIONAL WATER CHEMISTRY</b> <u>Many variations are possible in regard to collection and analysis of water samples for conventional constituents; these prices are given for the most standard techniques.</u>	<u>Sediment</u>	<u>Water</u>
<u>Anions: ortho-Phosphate; Nitrate+Nitrite; Chloride; Sulfate; Nitrate (separate); Nitrite (separate)</u>		<u>\$30 per anion</u>
<u>Ammonia</u>		<u>\$30</u>
<u>Total P</u>		<u>\$40</u>
<u>TKN</u>		<u>\$45</u>
<u>Chlorophyll-a, syringe-filtered</u>		<u>\$60</u>
<u>Alkalinity</u>		<u>\$20</u>
<u>TSS</u>		<u>\$35</u>
<u>TDS</u>		<u>\$30</u>
<u>Hardness (should be done when doing metals in water)</u>		<u>\$25</u>
<u>TOC</u>		<u>\$60</u>
<u>DOC</u>		<u>\$60</u>
<u>DO, pH, depth, temperature, conductivity, turbidity (through depth profile) using multiparameter probe</u>		<u>\$140</u>
<u>Sediment TOC</u>	<u>\$60</u>	
<u>Sediment grain size (% silt/clay)</u>	<u>\$60</u>	
<u>Sediment grain size – full analysis (phi scale)</u>	<u>\$130</u>	

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<b>RAPID BIOASSESSMENT MONITORING</b>	
<u>Site collection, sorting, taxonomy, QA, and data report (includes 3 replicate samples per station)</u>	<u>\$1,284</u> <u>(\$428 per replicate sample)</u>
<u>Sample sorting/taxonomy/QA/reporting only (no sample collection); must collect &amp; transport samples to lab. Includes 3 replicates per station in most cases; otherwise per replicate sample charge applies.</u>	<u>\$1,113</u> <u>(\$371 per sample)</u>

↳ includes 250 for sed TOC, grain size

<b><u>TOXICITY TESTING<sup>5</sup></u></b>	
<b><u>TOXICITY TESTING OF SALT WATER-ORIGIN SAMPLES</u></b>	
<b><u>Water (Salt Water) Toxicity Testing</u></b>	
<b><u>Larval Development in Salt Water (Sea Urchin, Abalone, Bivalve)</u></b>	<b><u>\$662</u></b>
<b><u>Larval Development at Sediment-Water Interface (SW) in Salt Water</u></b>	<b><u>\$689</u></b>
<b><u>Sea Urchin Fertilization in Salt Water</u></b>	<b><u>\$662</u></b>
<b><u>Mysid Juvenile 96-h Survival in Salt Water</u></b>	<b><u>\$551</u></b>
<b><u>Additional Sample Dilutions (After 100%) for Salt Water Invert. Tests</u></b>	<b><u>\$441</u></b>
<b><u>Sediment (Salt Water) Toxicity Testing</u></b>	
<b><u>Amphipod 10-d Survival in Salt Water Sediments (<i>Rhepoxynius</i> or <i>Eohaustorius</i>)</u></b>	<b><u>\$855</u></b>
<b><u>Amphipod 10-d Survival in Salt Water Sediments (<i>Ampelisca</i>)</u></b>	<b><u>\$965</u></b>
<b><u>Polychaete 20-d Growth and Survival in Salt Water Sediments (<i>Neanthes</i>)</u></b>	<b><u>\$1,048</u></b>
<b><u>TOXICITY TESTING OF FRESHWATER-ORIGIN SAMPLES</u></b>	
<b><u>Water (Fresh Water) Toxicity Testing</u></b>	
<b><u>Mysid Juvenile 96-h Survival in Fresh Water</u></b>	<b><u>\$551</u></b>
<b><u><i>Ceriodaphnia</i> 96-h Survival in Fresh Water</u></b>	<b><u>\$386</u></b>
<b><u>Additional Sample Dilutions (After 100%) for <i>Ceriodaphnia</i> 96-h Tests</u></b>	<b><u>\$221</u></b>
<b><u><i>Ceriodaphnia</i> 96-h Survival in Fresh Water (in situ)</u></b>	<b><u>\$607</u></b>
<b><u><i>Ceriodaphnia</i> 7-d Survival and Reproduction in Fresh Water</u></b>	<b><u>\$717</u></b>
<b><u>Additional Sample Dilutions (After 100%) for <i>Ceriodaphnia</i> 7-d Tests</u></b>	<b><u>\$551</u></b>
<b><u><i>Selenastrum</i> alga test in Fresh Water</u></b>	<b><u>\$717</u></b>
<b><u><i>Pimephales</i> minnow test in Fresh Water</u></b>	<b><u>\$717</u></b>
<b><u>Sediment (Fresh Water) Toxicity Testing</u></b>	
<b><u>Amphipod 10-d (acute toxicity) Survival in Fresh Water Sediments (<i>Hyalella</i>)</u></b>	<b><u>\$882</u></b>
<b><u>Amphipod 28-d (chronic toxicity) Survival in Fresh Water</u></b>	<b><u>\$1,103</u></b>

<sup>5</sup> Prices shown are for the 100% concentration, non-diluted sample.

<u>Sediments (<i>Hyaletia</i>)</u>	
<b><u>OTHER TOXICITY TESTING SERVICES<sup>6,7</sup></u></b>	
<u>Tests with Additional Salt or Freshwater Species, including algae, fish, and invertebrates (costs per sample negotiable).</u>	
<u>Phase I Toxicity Identification Evaluation (TIE) Fresh or Salt (price shown is maximum cost for budget planning purposes only, and would only be charged fully if all possible TIE sub-procedures are able to be implemented; cost would be less depending on how many sub-procedures are able to be implemented).</u>	<u>\$3,990</u>
<u>Phase II and Phase III TIE (Negotiable based on Objective)</u>	<u>Will be negotiated on case by case basis</u>
<u>ELISA Analysis of Diazinon</u>	<u>\$35</u>
<u>ELISA Analysis of Chlorpyrifos</u>	
<u>OTHER SERVICES</u>	<u>Cost</u>
<b><u>MISCELLANEOUS SERVICES</u></b>	
<u>Pass-through sub-contract fee payable to Contractor (DF&amp;G)</u>	<u>15.3% FY00-01, and 15.0% maximum thereafter, on 1<sup>st</sup> \$50,000</u>
<u>Cruise Reports (per unique sampling event)</u>	<u>\$575</u>
<u>Technical Reports (Interpretive Reports, GIS Mapping, Peer-review publications, etc).</u>	<u>Will be negotiated on case by case basis, depending on requested content, format, schedule, etc.</u>

<sup>6</sup> Costs shown for all toxicity tests include 5 laboratory replicates (or field replicates for in Situ & SWI), negative controls, positive control reference toxicant tests, and measurements of water quality parameters, including DO, pH, salinity, temperature, hardness, conductivity, and when requested ammonia.

<sup>7</sup> Toxicity Data Reports include all QA/QC data, and an interpretation of data quality based on QA objectives. Interpretive reports on toxicity data and synthesized with other data can be provided at additional cost.