



Date: May 8, 2008  
To: Laboratory Vendors  
From: Diane Cowan, Purchasing Agent  
Re: EDC and PPCP Water Test Analysis

## **REQUEST FOR QUOTATION**

The University Area Joint Authority is currently soliciting written quotes for EDC and PPCP Water Testing. We hope you will take a few minutes to review the information and invite you to submit a quote by 2 p.m. on Thursday, May 15th, 2008. Quotes may be submitted via email ([dsc@uaja.com](mailto:dsc@uaja.com)), fax (814-238-1531), postal service or hand delivered. If you have any questions, please do not hesitate to contact me (814-238-5361). The specifications are as follows:

- 1) Cost will be based on a per sample basis (4-6 samples). All tests will be completed no later than June 30, 2008.
- 2) Analytical results must be emailed or faxed to University Area Joint Authority within 14 working days after shipment to vendor. A hard copy must be received no later than 14 days after the email/fax, via U.S. mail.
- 3) If vendor contracts with an outside agency to perform this work, UAJA must approve this arrangement before the work can be done.
- 4) Pricing should be submitted in such a way as to show in detail all costs involved with the analysis (including shipping costs to and from UAJA). Expenses not noted in the quote will be subject to non-payment by UAJA.
- 5) The University Area Joint Authority operates a municipal wastewater treatment facility in State College, PA that includes advanced water treatment for water reuse. We intend to analyze the influent (screened sewage); effluent (tertiary treated and UV disinfected wastewater); and high-purity reuse (micro-filter, reverse osmosis, and UV treated) water streams at our plant for a suite of endocrine disruptor compounds (EDCs), and pharmaceutical and personal care products (PPCPs). We would like to include all major environmental estrogens and androgens as well as a suite of representative (and well known) PCPPs.

At a minimum we would like to test for the following compounds:

Endocrine Disruptor Chemicals (EDC)/Pharmaceutical Personal Care Products (PPCP)

Required Chemicals (all major environmental Estrogens, Androgens, and some well known PPCPs)

Chemical Compound	Use	Preferred Reporting Limit (Negotiable)	
17-alpha-estradiol	Estrogen	1	ng/L
Estriol	Estrogen	1	ng/L
Estrone	Estrogen	1	ng/L
Progesterone	Estrogen, Ovulation Inhibitor	10	ng/L
17-alpha-ethynylestradiol	Synthetic Estrogen (Ovulation Inhibitor)	2	ng/L
17-beta-estradiol	Synthetic Estrogen (Ovulation Inhibitor)	2	ng/L
Diethylstilbestrol	Synthetic Estrogen	1	ng/L
Bisphenol A	Industrial Chemical with Estrogenic Effects	10	ng/L
Androstenedione	Androgen	10	ng/L
Testosterone	Androgen	10	ng/L
Caffeine	Stimulant	5	ng/L
DEET	Insect Repellent	5	ng/L
Atrazine or Simazine	Herbicide	1	ng/L
Acetaminophen or Ibuprofen	Analgesic	10	ng/L

We would prefer to include a broader list of PCPPs. While we do not require any specific compounds, here is an example of a list we would find acceptable:

Optional PCPP compounds (your list may vary)

Chemical Compound	Use	Preferred Reporting Limit (Negotiable)	
Hydrocodone	Analgesic	1	ng/L
Meprobamate	Anti-anxiety drug	5	ng/L
Sulfamethoxazole	Antibiotic	1	ng/L
Trimethoprim	Antibiotic	1	ng/L
Fluoxetine	Antidepressant	1	ng/L
Carbamazepine	Anti-seizure	1	ng/L
Pentoxifyline	Improves blood flow	1	ng/L
Diazepam	Muscle Relaxant	1	ng/L
Methadone	Opiate	5	ng/L
Oxybenzone	Sun Screen	2	ng/L

Please specify the methods that you will use and the detection and/or reporting limits that you expect to achieve. If you already provide these tests on a commercial basis, please provide a representative client reference. If you do not yet provide these tests commercially, please provide us with method development QC data that shows the % recovery of these analytes at a range of concentrations to confirm that you have the capability to perform these tests.

6. Our QC samples will include spikes of various compounds listed above at detectable levels. All analyses will be repeated (at your expense) if we are not satisfied with the results of these QC samples.