





Henderson Water Utility
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 270.826.2421

 www.hkywater.org

 111 Fifth Street
Henderson, KY 42420

Memo to: Bidders

From: Kathy Manker *KM*
HWU Purchasing Manager

Re: Lab Services – Drinking Water – Addendum #1 Bid Reference 2022-04

Date: March 3, 2022

Additional information has been requested for the testing breakdown and methods. Detailed table follows.



| Parameter | North Treatment Plant Qty & Frequency | South Treatment Plant Qty & Frequency | Total Qty | Methods |
|----------------------|---------------------------------------|---------------------------------------|-----------|--|
| Alkalinity | 1/month | 1/month | 24 | 849 SM 2320B |
| Chlorite | 3/month | 3/month | 72 | 720 EPA 300.0 |
| Secondary | 1/year | 1/year | 2 | (Aluminum, Copper, Manganese, Silver, Zinc)797 EPA 200.8 (Chloride, Fluoride, Sulfate)720 EPA 300.0 (Iron)799 EPA 200.7 (Color)829 SM 2120B (Corrosivity)838 SM 2330B (Odor)833 SM 2150B (PH)835 SM 4500H-B (Total Dissolved Solids)806 SM 2540C (Foaming Agents)855 SM 5540C |
| Haloacetic Acids | 5/quarter | 2/quarter | 28 | 737 EPA 522.2 |
| Inorganics | 1/year | 1/year | 2 | (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium total, Mercury, Nickel, Selenium, Thallium)797 EPA 200.8 (Cyanide)818 SM 4500CN-E (Fluoride)720 EPA 300.0 |
| Nitrate | 1/year | 1/year | 2 | 720 EPA 300.0 |
| Nitrite | 1/year | 1/year | 2 | 720 EPA 300.0 |
| Radium 226 & 228 | Multi Year Interval | Multi-Year Interval | | (Radium 226)757 EPA 903.1 (Radium 228)927 EPA 904.0 |
| Trihalomethanes | 5/quarter | 2/quarter | 28 | 721 EPA 524.2 |
| Total Organic Carbon | 2/month | 2/month | 48 | 839 SM 5310C |

| Parameter | North Treatment Plant Qty & Frequency | South Treatment Plant Qty & Frequency | Total Qty | Methods |
|-----------------------|---------------------------------------|---------------------------------------|-----------|---|
| SOCs Regulated | Multi Year Interval | Multi-Year Interval* | | (Alachlor, Atrazine, Simazine)707 EPA 507 (Aldicarb, Aldicarb-Sulfone, Aldicarb-Sulfoxide)710 EPA 531.1 (Benzo(A)Pyrene)729 EPA 550.1 (Carbofuran, Oxamyl)710 EPA 531.1 (Chlordane, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Polychlorinated Biphenyls, Toxaphene)708 EPA 508 (Dalapon, Dinoseb, Pentachlorophenol, Picloram, 2,4-D, 2,4,5-TP Silvex)703 EPA 515.1 (Di(2-ethylhexyl) phthalate, Di-(2-ethylhexyl) adipate)711 EPA 525.2 (Diquat)727 EPA 549.2 (Endothall)726 EPA 548.1 (Ethylene Dibromide, 1,2-Dibromo-3-chloropropane)751 EPA 524.3 (Glyphosate)724 EPA 547 |
| VOCs Regulated | 1/year | 1/year | 2 | All Analytes 721 EPA524.2 |
| Fluoride | 2/month | 2/month | 48 | 107 4500-F C-2011 |
| Gross Alpha Particles | Multi Year Interval | Multi-Year Interval | | 756 EPA 900.0 |
| Dioxin | 2/year | | 2 | 723 EPA 1613 |
| Sodium | 1/year | 1/year | 2 | 799 EPA 200.7 |
| Asbestos | Multi Year Interval | Multi Year Interval | | 776 EPA 100.2 |
| Lead | 30/ Multi Year Interval | 5/Multi Year Interval | 35 | 797 EPA 200.8 |
| Copper | 30/ Multi Year Interval | 5/Multi Year Interval | 35 | 797 EPA 200.8 |
| PFAS | 3/Quarter (+2 filed blanks/Quarter | 2/year | 12 | EPA 537.1 |