

**Metropolitan Domestic Water Improvement District
Board of Directors Meeting**

June 9, 2014

Approval of Contract for Synthetic Organic Chemicals Analyses

Synopsis

The Board of Directors is requested to approve the contract for Synthetic Organic Chemical (SOCs) analyses to Eurofins Eaton Analytical, Inc. This is to ensure that the District complies with the required monitoring under the Arizona Department of Environmental Quality Drinking Water Rules.

Background

According to the Arizona Department of Environmental Quality (ADEQ) Drinking Water Rules, the District must monitor for regulated Synthetic Organic Chemicals for two non-consecutive quarters once every three years unless a waiver exists for existing sampling locations. The District must monitor for both Unregulated and Regulated Synthetic Organic Chemicals for new Source Water samples, and for four quarters with no detections for new sampling locations.

Synthetic Organic Chemicals (SOCs) are man-made chemicals consisting of PCB's (Polychlorinated Biphenyls), pesticides and herbicides. If an SOC is detected at less than the drinking water MCL (Maximum Contaminant Level), the District must monitor for a minimum of two consecutive quarters until the results are below the MCL. If an SOC is detected at the MCL or greater, the District must monitor at least four consecutive quarters until results are below the MCL. The District monitors SOC's at 25 active Entry Points into the Distribution System (EPDSs) within the District's Metro-Main Service area.

The ADEQ Monitoring Assistance Program (MAP) program monitors for SOC's at the District's Metro-Hub and Metro-South West service areas, but the District would be responsible for the SOC monitoring in these service areas should a detection occur. Currently, the District has monitoring waivers for the 2012-2014 monitoring period at all of its active EPDS for the Metro-Main service area. New monitoring waivers will be completed in the Summer/Fall of 2014 for the 2015-2017 monitoring period. However, samples are to be collected in accordance with ADEQ once every nine years, regardless if a monitoring waiver is granted every monitoring period or not. These are next due to be collected in Metro-Main in 2015 during two non-consecutive quarters at each active EPDS.

In addition, quarterly samples will be required for any new wells/EPDS, and ADEQ does have the right to revoke the monitoring waivers if it chooses to do so. An Entry Point into the Distribution System (EPDS) is the point at which water is discharged from a well, storage tank, reservoir or pressure tank into the distribution system, prior to any service connection. Results for detections for

regulated SOCs are reported in the District's annual Consumer Confidence Reports. Currently, none of the Metro-Main Service areas have had any regulated SOC detections.

Issues

The District published a request for proposals from laboratories for Synthetic Chemical Analyses in the Daily Territorial on April 21-24, 2014. Seven laboratories were sent the proposal package and two proposals were received. The proposals received were from Eurofins Eaton Analytical, Inc. (EEA Labs), a small laboratory and office in Scottsdale, Arizona and a main office and laboratory in Monrovia, California; and Turner Laboratories, Inc. (Turner Labs), a Tucson, AZ based Laboratory and office. The selection of a laboratory is made by rating each laboratory according to quality assurance/quality control (QA/QC), method detection limits (MDLs), costs, turnaround time, references, certification, and other pertinent factors such as methods used and laboratory reports.

Issues arose mainly with the costs and method detection limits (MDLs). Costs were derived from the cost of all SOC constituents that would be monitored at the District's active EPDS. The total number of samples per year is subject to a detection, monitoring waivers, new well installation, or if the District decides to increase the number of samples taken.

District staff reviewed the analytical contract proposals and had EEA Labs with the highest Total Score from Table 1, the best cost ranking from Table 2, and the best method detection limits (MDLs) ranking from Table 3. EEA Labs also had the best QA/QC and costs ranking on Table 1. Turner Labs was second for total score on Table 1, second for cost ranking on Table 2 and second on the method detection limits ranking from Table 3. (Tables are attached.)

As noted above, EEA Labs had the best ranking for MDLs on Table 3. Method Detection Limits or MDLs are important should EPA decide to lower a detection level due to health risks, or have a very low MDL for any new SOCs that may be regulated in the future. The EEA Labs also had the best Cost Ranking as noted above. In addition, the District has been contracted with EEA Labs for the past three years for SOC analyses and has been pleased with their performance.

In the event that a QA/QC laboratory problem error occurs that requires a resample, the District requires the contracted laboratory to pay for both the original sample and resample analyses if more than three resamples are necessary.

Staff Recommendation

Staff recommends that the Board of Directors approve the contract for SOC analysis to Eurofins Eaton Analytical, Inc. The laboratory has the best total score for its proposal review, the best ranking for costs and the best ranking for Method Detection Limits. The contract award to Eurofins Eaton Analytical, Inc. would not exceed \$75,000. This cost accounts for any compliance sampling, contingency sampling and sampling at Metro-Main, Metro-Hub and Metro-SW through June 30, 2015. Funding is included in the Fiscal Year 2015 budget. The contract would also have the option to be extended annually for an additional two years with Board approval. In the event that Eurofins

Eaton Analytical, Inc. is unable to perform its contracted duties, staff recommends that Turner Laboratories, Inc. be named as the back-up laboratory due to its second best ranking for overall proposal review criteria.

Suggested Motion

I move to approve the analytical services contract for Synthetic Organic Chemicals to Eurofins Eaton Analytical, Inc. for a not-to-exceed amount of \$75,000, and would expire on June 30, 2015, with the option to extend the contract for two additional years pending the Board of Directors annual approval. In addition, Turner Laboratories, Inc. shall be the back-up laboratory to Eurofins Eaton Analytical, Inc. in the event they are unable to perform their contracted duties.

Respectfully submitted,

Charlie A. Maish, P.E., R.L.S.
District Engineer

I concur with the above-noted recommendation

Respectfully submitted,

Joseph Olsen, P.E.
General Manager

Table 1 – Total Proposal Review Criteria - SOCs

Criteria	EEA Labs	Turner Labs
QA/QC Score (QA/QC Plan, Back-up Plan, Method Detection Limits)	24	18
Costs (Total Cost, Unit Cost, RUSH Cost)	36	23
Professional Expertise (References/Expertise, Lab and Equipment Certifications, Turn-Around Time (TAT), Lab/Office Locations)	19	18
Lab Team (Resumes/Organization Chart and Subcontractors)	5	3
RFP, ADEQ Forms and License Included Score	15	15
Total Score	99	77

Table 2 – Regular Costs

Parameter	EEA Labs	Turner Labs
SOCs	\$740	\$2,055
Dioxin	\$200	\$225
Unit Costs	\$940.00	\$2,280.00
Cost Ranking	1	2

Table 3 – Method Detection Limits Ranking

Criteria	EEA Labs	Turner Labs
Method Detection Limits Ranking	1	2