

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

**June 11, 2012**

**Approval of Amendment No. 1 for the Analytical Laboratory Services Contract for  
Volatile Organic Chemicals, Total Trihalomethanes & Haloacetic Acid Chemical Analyses**

**Synopsis**

The Board of Directors is requested to approve Amendment No. 1 for the Analytical Laboratory Services Contract for Volatile Organic Chemicals (VOC), Total Trihalomethanes (TTHM), and Haloacetic Acid (HAA5) Analyses with TestAmerica Laboratories, Inc. The VOC, TTHM and HAA5 contract will increase the contract amount and extend the contract through Fiscal Year 2012/2013. This will ensure that the District complies with the Arizona Department of Environmental Quality's Drinking Water Rules.

**Background**

According to the Arizona Department of Environmental Quality (ADEQ) Drinking Water Rules, the District must annually monitor for Volatile Organic Chemicals. Volatile Organic Chemicals (VOCs) are chemicals consisting of industrial solvents such as Benzene and Toluene. If a VOC is detected at greater than or equal to 0.0005 mg/L, the District must monitor until four consecutive quarters result in detections below the Maximum Contaminant Level (MCL) value, as noted in the proposal, available in the Board office. The MCL is the maximum allowable level for a contaminant in drinking water that is delivered to any person who is served by a public water system. After four quarters of monitoring with no detection, monitoring can be reduced to annual monitoring for each sampling point. After at least three years of annual monitoring with no detection, annual monitoring can be reduced to once every three years or once every six years at ADEQ's discretion.

ADEQ also requires that the District monitor quarterly for Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAA5) at representative points within the distribution system. Trihalomethanes are disinfection treatment by-products that are a result of the addition of chlorine into the District's distribution system. Total Trihalomethanes can consist of Bromodichloromethane, Bromoform, Chlorodibromomethane and Chloroform. Currently the District collects TTHMs on a quarterly basis at two distribution system sample station locations that represent all of Metro-Main; on an annual basis at select distribution sample locations that represent active Metro-Southwest EPDS'; and on a once every three years basis at five distribution sample station locations for the active Metro-Hub EPDS'. The current MCL for TTHMs is 0.080 mg/L and 0.060 mg/L for HAA5 and the laboratory detection limit for both is 0.0005 mg/L. After four quarters of results  $\leq$  half of the MCL, ADEQ can grant reduced monitoring from quarterly to annual for both TTHMs and HAA5. Results on detections are reported in the District's Consumer Confidence Reports.

### **Issues**

Based on the state and federal drinking water regulatory requirements to analyze for VOCs, TTHMs and HAA5, the District requires the renewal of the Analytical Laboratory Services Contracts for the VOC, TTHM and HAA5 Analyses in FY 2010/2011. In June of 2011, the Board of Director's approved the VOC, TTHM and HAA5 Analytical Contract with TestAmerica Laboratories, Inc., with the ability to extend the contract two additional years. This would be the second year of the Contract, pending Board approval. Staff prefers to retain the services of TestAmerica Laboratories, Inc. for an additional year, rather than soliciting for RFPs to select a new laboratory to complete these analytical services due to their past performance.

Should the District need an emergency/back-up laboratory for VOCs, TTHMs or HAA5 when TestAmerica Laboratories, Inc. is unavailable or cannot meet a certain turn-around time, MWH Laboratories, A Division of MWH Americas, Inc. in Phoenix, AZ has quoted the District a price of \$90.00 for VOCs, \$45.00 for TTHMs and \$80.00 for HAA5.

It is anticipated for FY 2012/2013, the total cost for the VOC, TTHM and HAA5 analytical services contract will not exceed \$32,000, which would increase the overall contract amount from \$53,000 to \$85,000 under Amendment No. 1. There is no increase to the unit costs for VOCs, TTHM or HAA5 for FY 2012/2013. Funds for these analytical services were included in the proposed FY 2012/2013 Budget for Water Quality Testing Services. The amendment includes all compliance sampling, new well sampling, and contingency sampling for any detections that may occur.

### **Staff Recommendation**

Staff recommends that the Board of Directors approve Amendment No. 1 to the analytical services contracts for Volatile Organic Chemicals, Total Trihalomethanes and Haloacetic Acids with TestAmerica Laboratories, Inc. to extend the contract's expiration date to June 30, 2013 and increase the contract amount to \$85,000 for the VOC, TTHM and HAA5 Contract for FY 2012/2013.

### **Suggested Motion**

I move that Amendment No. 1 for the Analytical Laboratory Services Contract for Volatile Organic Chemicals, Total Trihalomethanes and Haloacetic Acids with Turner Laboratories, Inc. to extend the contract's expiration date to June 30, 2013 and increase the contract amount to \$85,000 for FY 2012/2013 be approved.

Respectfully submitted,

Steve Shepard  
Utility Superintendent

I concur with the above-noted recommendation.

Respectfully submitted,

Mark R. Stratton, P.E.  
General Manager