

BOARD MEETING DATE: January 10, 2020

AGENDA NO. 4

PROPOSAL: Reallocate and Appropriate Funds and Execute Purchase Orders for Air Monitoring Programs

SYNOPSIS: In 2015, the U.S. EPA awarded \$569,682 to the South Coast AQMD to implement monitoring under the Community-Scale Air Toxics Ambient Monitoring Program. In January, June and December 2018, the Board recognized revenue from CARB to implement the AB 617 program. These actions are to appropriate funds for the Community-Scale Air Toxics Monitoring Program; and to reallocate and appropriate funds and execute purchase orders for the AB 617 program.

COMMITTEE: Administrative, December 13, 2019; Recommended for Approval

RECOMMENDED ACTIONS:

- 1) Appropriate up to \$62,000 from the General Fund Undesignated (Unassigned) Fund Balance into Science & Technology Advancement's FYs 2019-20 and/or 2020-21 Budgets, Services and Supplies Major Object, Professional & Special Services Account, for the Community-Scale Air Toxics Monitoring Program.
- 2) Reallocate funds up to \$160,000 between Capital Outlay items within Science & Technology Advancement's FY 2019-20 Budget and appropriate, as necessary, to the FY 2020-21 Budget for AB 617 expenditures as set forth in Table 1.
- 3) Authorize the Procurement Manager, in accordance with South Coast AQMD Procurement Policy and Procedure, to issue sole source purchase orders for the following equipment (as listed in Table 2 and described in this letter):
 - a) One Field X-ray Fluorescence Instrument Package (model Xact® 625i) from Cooper Environmental Services, LLC, in an amount not to exceed \$125,000; and
 - b) Up to three 8872B SiteNode Data Loggers from Agilair, LLC, in an amount not to exceed \$35,000.

Wayne Natri
Executive Officer

Background

Community-Scale Air Toxics Ambient Monitoring Program

In October 2015, the Board recognized \$569,682 in U.S. EPA Section 103 Grant funds to implement Community-Scale Air Toxics Ambient Monitoring projects. This comprehensive effort was to apply next generation air monitoring methods to characterize hazardous air pollutant (HAP) emissions from refineries and assess potential impacts to surrounding communities. Since then, staff has been conducting air monitoring activities in communities near refineries and other potential sources of air toxics using optical remote sensing and other advanced air monitoring technologies.

AB 617 Program

AB 617 requires CARB to select communities on an annual basis to be included in the program for the development of Community Air Monitoring Plans and Community Emission Reduction Plans (CAMPs and CERPs, respectively). In September 2018, CARB approved the selection of three communities in the South Coast Air Basin (Basin): Wilmington/Carson/West Long Beach; East Los Angeles/Boyle Heights/West Commerce; and San Bernardino/Muscoy. Community Steering Committees were formed (one for each community), and staff have been working with these steering committees to gather input and feedback for the development and implementation of the CAMPs and CERPs.

In January, June and December 2018, the Board recognized revenue from CARB for AB 617 expenditures and approved adding new positions and funding allocations for contracts, equipment purchases (capital outlays), and other services and supplies using first-year AB 617 funding. In December 2018, the Board authorized an appropriation of \$220,000 for the purchase of one Field X-ray Fluorescence Instrument for in-situ measurements of air toxic metals in either FY 2018-19 or 2019-20. In May 2019, Cooper Environmental Services, LLC, provided a demonstration to staff of the Field X-ray Fluorescence Instrument Package (model Xact® 625i) for evaluation.

Proposal

Community-Scale Air Toxics Ambient Monitoring Program

There is a need to reallocate the remaining program funds to conduct additional community air monitoring in the Basin. This action is to appropriate up to \$62,000 into Science & Technology Advancement's FYs 2019-20 and/or 2020-21 Budgets, Services and Supplies Major Object, Professional & Special Services Account, for the Community-Scale Air Toxics Monitoring Program. U.S. EPA concurs with staff's proposed allocations.

AB 617 Program

Based on an assessment of the AB 617 expenditures, including input from multiple Community Steering Committee meetings, there is a need to reallocate some of the available funds. In December 2018, the Board authorized the purchase of a Field X-ray Fluorescence Instrument through an RFQ process. Subsequently, staff identified a

specific Field X-ray Fluorescence Instrument Package which provides specific capabilities and enhanced features to satisfy current and future air monitoring needs for AB 617 implementation. Additional data loggers are needed to record data from monitoring instruments that are being deployed in AB 617 communities. These actions are to reallocate funds up to \$160,000 between Capital Outlay items within Science & Technology Advancement's FY 2019-20 Budget and appropriate, as necessary, to the FY 2020-21 Budget for AB 617 expenditures as set forth in Table 1. These reallocations are further described below and summarized in Table 2.

Proposed Purchases through Sole Source Purchase Orders

This action is to authorize the Procurement Manager, in accordance with South Coast AQMD Procurement Policy and Procedure, to execute sole source purchase orders for the following equipment.

Field X-ray Fluorescence Instrument Package (Model Xact® 625i)

The Field X-ray Fluorescence multi-metals monitoring system package (model Xact® 625i), manufactured by Cooper Environmental Services, LLC, has unique features that will improve measurement capabilities and detection limits for measurement of certain metal pollutants in AB 617 communities. The purchase order for one instrument package will not exceed \$125,000.

8872B SiteNode Data Loggers

Several pieces of monitoring and measurement equipment required for AB 617 implementation are only available from a single source. Agilaire, LLC, is the only manufacturer of the 8872B SiteNode Data Loggers that are needed to process and send the monitoring equipment data to the centralized database at headquarters. The purchase order for up to three loggers will not exceed \$35,000.

Sole Source Justification

Field X-ray Fluorescence Instrument Package (Xact® 625i)

Section VIII.B.2 of the Procurement Policy and Procedure identifies provisions under which sole source awards can be made. This request for sole source purchase is made under provision VIII.B.3.a.: This item is available only from a single source. The Xact® 625i sold by Cooper Environmental Services, LLC, is the only field x-ray fluorescence instrument that offers an Automated Data Analysis Plotting Toolset (ADAPT) package to manage and analyze the measurements of over 40 different metals in ambient particles in real-time through a number of relevant graphical tools. The ADAPT package includes the hardware for on-site meteorological measurement and intuitive software which is accessed in the field or remotely through the on-board computer. The software platform generates multiple graphical reports in near real-time over user-selected time periods to deliver insights on the temporal and directional variability trends of the measured metals. This enables ADAPT to provide improved directionality estimation of metal sources impacting the monitoring site. In addition, the Xact® 625i is the only multi-metal monitor with demonstrated ability to provide

near-real time measurements of air toxic metals on a mobile platform. Overall, the ADAPT package drastically reduces data processing time and resources towards reaching AB 617 air quality objectives.

8872B SiteNode Data Loggers

Section VIII.B.2 of the Procurement Policy identifies provisions under which sole source awards can be made. This request for sole source purchase is made under provision VIII.B.2.c(2): The project involves the use of proprietary technology. Agilaire, LLC is the only manufacturer who produces data loggers to work with their AirVision® air quality data collection software. The South Coast AQMD uses the Agilaire LLC AirVision® software as the primary telemetry system for continuous measurements at all fixed air monitoring network sites. Therefore, only Agilaire's 8872B SiteNode Data Loggers can be purchased.

Benefits to South Coast AQMD

The equipment and related services and supplies, as described in this Board letter, will allow South Coast AQMD to fulfill the goals and objectives of the Community-Scale Air Toxics Monitoring Program and the legislative directives of AB 617, which will result in benefits to environmental justice communities and to all residents in the Basin.

Resource Impacts

U.S. EPA Section 103 Grant funding will support the continuation of the Community-Scale Air Toxics Monitoring Program.

Existing funding from CARB's Community Air Protection Program will be used for these purchases.

Attachments

Table 1 - Proposed AB 617 Reallocations from the December 2018 Board Letter #10

Table 2 - Proposed Capital Outlay Expenditures through Sole Source Purchase Orders for AB 617 for FYs 2019-20 and/or 2020-21

Table 1
Proposed AB 617 Reallocations from the December 2018 Board Letter #10

December 2018 #10 Board Letter (Table 7)	Estimated Amount	November 2019 Proposed Board Letter	Estimated Amount
Field X-ray Fluorescence Instrument	(\$220,000)	Purchase Field X-ray Fluorescence Instrument Package (Xact® 625i) (Qty 1)	\$125,000
		Purchase 8872B SiteNode Data Logger (Up to Qty 3)	\$35,000
Total	(\$220,000)	Total	\$160,000

Note: A proposal to use the remaining \$60,000 from the Field X-ray Fluorescence Instrument will be presented in a future Board letter.

Table 2
**Proposed Capital Outlay Expenditures through Sole Source Purchase Orders for
AB 617 for FYs 2019-20 and/or 2020-21**

Description	Quantity	Estimated Amount
Purchase Field X-ray Fluorescence Instrument Package (Xact® 625i)	1	\$125,000
8872B SiteNode Data Logger	Up to 3*	\$35,000
	Total	\$160,000

*Note: Quantities may be adjusted as monitoring needs are identified (not to exceed total estimated amount)