
Date: April 9, 2025

To: The Honorable Board of Directors **From:** Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

Staff Contact: Kevin Alexander, Deputy General Manager

Subject: Award Contract for Data Warehouse Roadmap

Executive Summary:

IEUA staff utilizes multiple data sources for reporting and analysis. However, data is often incomplete or inconsistently formatted and exists in various mediums, including scattered spreadsheets, which are easily modifiable and corrupted, as well as in independent database programs managed by different departments throughout IEUA. These issues have compounded, resulting in the need for constant manual data re-compilation and manipulation to produce analyses that would otherwise be readily accessible in a modern database system. Additionally, these isolated database silos require staff to regularly request data from different departments as opposed to having it readily available in a shared system. With these limitations and the increasing need for more advanced analytical capabilities, the Planning and Resources and Information Technology departments collaborated and identified the need for a data warehouse. A data warehouse platform consolidates data from multiple sources and reduces reliance on isolated databases to streamline reporting, analysis, and decision-making. Once implemented, this will allow for the prevention of potential data loss, integration of Microsoft Power Business Intelligence (BI) and Artificial Intelligence (AI) software, and enhanced cybersecurity. To initiate this effort, the Data Warehouse Roadmap project will develop a guiding document for future implementation of a data warehouse. The Database Warehouse Roadmap project will provide a timeline for implementation, a proposed framework for the transition, security requirements, and evaluation, and a pilot implementation strategy utilizing recycled water usage data from the Agency's recycled water database. Once completed, this blueprint will enable IEUA to pursue a larger-scale data warehouse platform transition in the future.

On September 5, 2024, a Request for Proposal (RFP) was posted on Planet Bids and a pre-bid meeting was held on September 30, 2024. On October 24, 2024, IEUA received 27 proposals. A review committee consisting of IEUA staff from the Planning and Resources and Information Technology Departments evaluated the proposals based on comprehensive evaluation criteria. The top three consultants were interviewed on January 29 and 30, 2025. Based on the expertise and the needs of the project. Trinnex, Inc. (a subsidiary of CDM Smith) was selected as the most qualified consultant. Staff recommends awarding a consultant contract for the Data Warehouse Roadmap, Project No. PL24003, for a one-year period, with the option of two-year extensions, for a total potential contract term of three years, for an aggregate not-to-exceed amount of \$218,090.

Staff's Recommendation:

Staff recommends that the Committee/Board:

1. Award a consultant contract to Trinnex, Inc. for the Data Warehouse Roadmap, Project No.

PL24003, for a one-year period, with the option of two one-year extensions, for a total potential contract term of three years, for an aggregate not-to-exceed amount of \$218,090; and

2. Authorize the General Manager to execute the contract, subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y* *Amendment (Y/N): N* *Amount for Requested Approval*

Fiscal Impact (explain if not budgeted):

There will be no immediate budget impact. Funds have been budgeted to cover the contract amount.

Regional Sewerage *Technical Committee (Y/N):*

Policy Committee (Y/N):

Environmental Determination:

Not Applicable

Attachments:

Attachment 1 - [PowerPoint](#)

Attachment 2 - [Contract](#)