

# MEMO



Meeting Date: June 20, 2025

To: Board of Directors  
From: Director of Engineering and Compliance, David I. Ramirez  
Approved by: General Manager, Felipe Melchor

**Subject: Request for Approval to Award the Landfill Gas Collection and Control System (GCCS) Improvement Project contract to BSE General Engineering of Descanso, California in an Amount Not-to-Exceed \$782,221 (includes 10% contingency)**

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## RECOMMENDATION

That the Board authorize the General Manager to award a contract to BSE General Engineering of Descanso, California for the Construction of Landfill Gas Collection and Control System (GCCS) improvements in an amount not-to-exceed \$782,221 (\$711,110 contract amount plus authorization to staff to expend an additional up to 10% contingency).

## BACKGROUND

As landfilled organic waste decomposes in anerobic conditions it produces a gas containing methane, carbon dioxide (both greenhouse gases), and inert gases. ReGen Monterey collects this landfill gas to comply with regulatory requirements and produce electricity. Once collected, the landfill gas is either destroyed in a flare or burned as fuel in internal combustion engines that generate electricity for both on-site use and sale to the electrical power grid.

ReGen installed its first GCCS in 1983 and has expanded upon that system as the landfill has developed. ReGen's landfill gas collection and control system consists of vertical wells and horizontal collectors installed in the waste mass. A network of pipes applies vacuum pressure to the collection elements and conveys landfill gas to the Landfill Gas to Energy Facility for electricity generation or to an enclosed flare for destruction. As the landfill grows, the GCCS must grow and adjust with it. Wells are modified and abandoned due to age, damage, or poor gas quality. Periodic replacement and expansion of the system is necessary to collect landfill gas from maturing waste, replace abandoned wells, and improve the pipe network.

ReGen's last major GCCS Improvement Project was in March 2021 and included the installation of 25 gas collection wells and associated piping. Additionally, limited-scope well installation projects have occurred since then to successfully address periodic surface emissions exceedances.

In May 2024, the Board awarded a contract to Tetra Tech BAS, Inc. of Diamond Bar, CA to perform a wellfield evaluation, design improvements, and perform construction support activities for the GCCS Improvement Project. The construction work proposed in this report is the execution of Tetra Tech's proposed design.

## DISCUSSION

The GCCS Improvement Project is necessary to adequately collect landfill gas as it is being generated in the landfill. Both new and old waste generate gas of different quality and quantity. The new well installations will enable the site to collect gas before new waste areas reach gas production maturity

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*Let's not waste this.*

and create emissions exceedances. The proposed wells will fill gaps and add additional collection where it is necessary. The installation of new gas collection pipes networks will keep the GCCS infrastructure accessible as continued landfill operations progress and older pipe networks are deactivated.

The GCCS Improvement Project will occur over two phases, with Phase I scheduled for this month and Phase II scheduled for FY 2025/26. The phasing will allow for current fill operations to move into Module 7 and out of the Phase II work area. Phase I will be on the east side of the existing fill and will consist of the drilling and construction of ten (x10) vertical landfill gas extraction wells and the purchase and installation of associated (x10) wellheads, HDPE pipes, fittings, and accessory parts and materials. Phase II will be on the west side of the existing fill and will consist of the drilling and construction of twelve (x12) vertical landfill gas extraction wells, the purchase and installation of associated (x12) wellheads, HDPE pipes, fittings, and accessory parts and materials, and the abandonment of three (x3) damaged vertical wells.

Staff worked with Tetra Tech to develop a bid package for the GCCS Improvement Project. On June 3, 2025, ReGen received and publicly opened four bids for the Drilling and Construction of GCCS Wells. The four construction bids are summarized in the table below.

NAME OF BIDDER	BID AMOUNT
1. Blue Flame Crew	\$854,800.00
2. APTIM	\$736,740.00
3. SCS Engineers	\$944,209.00
<b>4. BSE General Engineering, Inc.</b>	<b>\$711,110.00</b>

Staff reviewed the bids and qualifications of the contractors and determined that the lowest qualified bidder was BSE General Engineering Inc. with a bid of \$711,110. A 10% contingency is being added to this authorization to cover potential unforeseen circumstances that may occur during the well construction in the landfill. The proposed Board authorization amount for this project is \$782,221.

This improvement project aligns with required landfill compliance infrastructure and ReGen's mission to reduce greenhouse gas emissions. Once the wells are installed and operational they will be evaluated to determine if they are good candidates for automated LOCI wellheads, which will provide additional data and control over gas collection.

### **FISCAL IMPACT**

The bid for the GCCS Improvements project submitted by BSE General Engineering, including a 10% contingency, totals \$782,221. This amount is within the approved fiscal year 2025/26 budget of \$1,250,000.

### **CONCLUSION**

The proposed GCCS improvements are part of routine and required environmental controls for landfill gas collection, which must be maintained for regulatory compliance. The installation of new wells will enhance gas collection efficiency and help reduce surface emissions at the landfill. The bid amount falls within the approved capital improvement budgets for fiscal year 2025/26. Staff recommends that the Board authorize the General Manager to award the GCCS Improvement Project to BSE General Engineering of Descanso, California, in an amount not to exceed \$782,221 (\$711,110 contract amount plus authorization to staff to expend an additional up to 10% contingency).

**ATTACHMENTS**

Proposed Well Locations

Example Vertical Well Detail

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