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Engineers/Surveyors/Planners
TECHNICAL MEMORANDUM

Date: October 22, 2014
BKF No.: 20136004
To: Clarke Miller

## Copies To:

Strada Investment Group
From: Jacob Nguyen, P.E.

## Subject: Golden State Warriors, Mission Bay Blocks 29-32 <br> On-site Alternate Water Sources

The purpose of this memorandum is to discuss the potential for the Golden State Warriors Arena project at Mission Bay Blocks 29-32 using onsite alternate water sources (e.g., rainwater, greywater, stormwater) for non-potable water uses (e.g., irrigation, toilet-flushing). This technical memorandum will assist San Francisco Public Utilities Commission (SFPUC) in completing their review of the Administrative Draft Initial Study and Notice of Preparation for the project.

## Outdoor Non-Potable Water Supply

The project is located in a separate sewer area and must comply with the City's Stormwater Design Guidelines, specifically LEED Sustainable Site Credit 6.2 Stormwater Design: Quality Control. The project is not required to meet LEED Sustainable Site Credit 6.2 Stormwater Design: Quantity Control. Based on these requirements, the project proposes to meet the stormwater requirements with green roofs and flow-through planters (Credit 6.1), not with cisterns for rainwater harvesting (Credit 6.2). Therefore, rainwater and stormwater will not be used for non-potable water uses.

## Indoor Non-Potable Water Supply

On-site alternate water sources were considered for non-potable water uses in line with the SFPUC Non-Potable Water Calculator (see attached Exhibit A). Based on this calculation, the use of greywater from indoor non-potable water supplies was considered infeasible based on the project constraints.

## Conclusion

Based on the City's stormwater requirements and the Non-Potable Water Calculation, the project proposes the use of recycled water for select non-potable water uses. Alternate water sources such as rainwater, greywater, and stormwater will not be used.

## Attachments

- Exhibit A - SFPUC Non-Potable Water Calculator



