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Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority

REQUEST FOR QUALIFICATIONS

Notice is hereby given that Statement of Qualifications (SOQs) will be received from firms for **Operations, Maintenance, and Evaluation of Five (5) Regional Stormwater Capture and Treatment Projects**.

Responses to this Request for Qualifications (RFQ) will be accepted until **5:00 PM PDT** on **Wednesday, June 5, 2024**. It is the responsibility of the proposer to ensure that any qualifications submitted have sufficient time to be received prior to the due date and time.

SOQs shall be submitted electronically only. No hardcopies will be accepted.

Proposers shall submit one **(1) electronic file (.pdf)** of the SOQ via email to: **madelineanderson.gateway@gmail.com**.

Late SOQs will not be considered.

Key RFQ Dates (Subject to change at discretion of GWMA):

Release Date	May 1, 2024
Questions Due to GWMA	May 17, 2024 at 5:00 PM PDT
Posting of the Q&A	May 27, 2024
SOQ Due Date	June 5, 2024 at 5:00 PM PDT
SOQ Review	June 2024
Presented to GWMA Board	July 2024

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1. Introduction and Summary

The Gateway Water Management Authority (GWMA), a California joint powers authority, on behalf of the member agencies of the Los Cerritos Channel (LCC), Lower Los Angeles River (LLAR), and Lower San Gabriel River (LSGR) Watershed Management Groups (WMGs), is releasing this Request for Qualifications (RFQ) in order to solicit qualifications and pricing from engineering/contracting firms with stormwater and wastewater experience for the:

- Operation and Maintenance (O&M) of five existing regional stormwater capture infrastructure systems (regional projects), which have been designed to reduce the level of pollutants in urban and stormwater runoff (primarily through sediment and trash removal); and
- Evaluation of the five regional projects and preparation of recommendations for operational modifications to the regional projects to reduce the future operating costs. Unless otherwise noted herein, structural modifications and improvements to the regional projects are outside of the scope of this RFQ.

- Firms that were involved in project design and preparation of this RFQ are not permitted to respond to this RFQ.

The Regional Projects are: Bolivar Park, Ruth R. Caruthers Park, Mayfair Park, Sub Basin 4 (Long Beach Airport) and Urban Orchard, as further described below.

The purpose of this RFQ is to assist the WMG members in contracting with a qualified firm to provide the above-references services. Thus, it is a two-part selection process:

1. GWMA is requesting qualifications and cost estimates and will conduct an initial screening of submittals received.
2. The names of the qualified firm or firms will be provided to the individual municipalities with jurisdiction over each of the regional projects (jurisdictional municipalities). The selected firm(s) will negotiate with and enter into separate agreements with the respective jurisdictional municipalities.

Firms may submit Statement of Qualifications (SOQs) for one or more of the regional projects. The selected firm(s) shall be responsible for maintaining the equipment, including but not limited to: sensors, monitors, pumps, valves, removing sediment and trash from structures, control systems, water harvesting systems and other equipment as necessary as well as adherence to Los Angeles County Flood Control District (LACFCD), Sanitation Districts of Los Angeles County and Public Health Department Permits.

Responding firms are advised that additional regional projects are expected to come online over the next five to ten years. These projects may include, but are not limited to: Hermosillo Park, El Dorado Park, Furman Park, Spane Park, John Anson Ford Park, Apollo Park, Independence Park, Cerritos Sports Complex Park, Lynwood City Park, Heartwell Park, Skylinks Park and Salt Lake Park. The selected firm(s) may be asked at some future time to respond to a request for operation and maintenance services.

1.1. Project Summaries

1.1.1. Bolivar Park

Located at:
3300 Del Amo Blvd
Lakewood, CA 90712

The Bolivar Park Regional Stormwater Project is located in the Bolivar municipal park in the City of Lakewood. Underlying a significant portion of this park is a 7.5 ac-ft subsurface storage and infiltration system. Wet and dry weather flows are diverted from a nearby LACFCD 48" Reinforced Concrete Pipe (RCP) channel. This regional project's major components include:

- Rubber diversion dam (base raised 3")
- Grated drop inlet and diversion valve
- Nutrient Box pretreatment unit
- Pump Station with 4 pumps
- 8.9 ac-ft subsurface storage and infiltration gallery
- Wet well with 3 pumps
- Water harvesting unit (WAHASO) with connection to the Park's irrigation system
- Overflow discharge pump back to the Flood Control System
- Water harvesting system
- Discharges to Flood Control System

1.1.2. Mayfair Park

Located at
5720 Clark Ave
Lakewood, CA 90712

The Mayfair Park Regional Stormwater Project is located in the Mayfair municipal park in the City of Lakewood. Similar to Bolivar, underlying a significant portion of the park is a 13.8 ac-ft underground stormwater capture and infiltration facility. The regional project receives both wet and dry weather flows from a diversion structure, located in a nearby covered LACFCD Reinforced Concrete (RC) Channel (23'W x 11"-6'H). The regional project's major components include:

- 23'W x 3'H Rubber Diversion dam
- Grated drop inlet and Diversion valve
- Pretreatment unit
- 13.8 ac-ft subsurface storage unit
- Outlet valve and a wet well with 3 pumps
- Water harvesting unit (WAHASO) with connection to the Park's irrigation system
- Kraken discharge treatment unit
- Back-up Sanitary discharge line (The city has obtained a discharge permit from the Sanitation Districts)
- Treatment unit building with RC Controls

1.1.3. Ruth R Caruthers Park

Located at:
10500 Flora Vista St
Bellflower, CA 90706

The Ruth R Caruthers Park Regional Project is located at Ruth R Caruthers Park in the City of Bellflower. The park is underlain by a 9 ac-ft stormwater capture and infiltration system. Unlike Bolivar and Mayfair, it diverts wet and dry weather runoff from two LACFCD drains. One diversion point is the 38'W x 9'H channel to the east. The second diversion point is a 72" RCP FCD storm drain located to the south of the project. Existing major infrastructure components include:

FSD Line A (east)
Flush mounted 38'x3'10" rubber dam
Grated drop inlet structure
Diversion valve
Pretreatment unit

FCD 72" RCP
Rubber dam
Grated drop inlet structure
Diversion valve
Pretreatment unit

Storage Infiltration gallery
3-way plug valve
Pump station
Post-treatment system

1.1.4. Sub Basin 4

Located on the Long Beach Airport property

The major runoff treatment component is a 14 ac-ft subsurface storage and infiltration system. Wet and dry weather flows are diverted from a nearby LACFCD channel. The regional project's major components include:

- A grated inlet structure
- Flow Splitter Vault
- Two JDS pre-treatment systems
- 14 ac-ft storage and infiltration vault

1.1.5. Urban Orchard

Located at:
9475 West Frontage Road
South Gate CA 90280

This project differs from the above-named projects as it diverts wet and dry weather flows from the Badini Channel first to a constructed treatment wetland and a subsurface storage reservoir; a water quality pre-treatment hydrodynamic separator; and a stormwater harvesting system including additional filtration and a pump to provide irrigation for the orchard and buffer trees. This project is expected to be operational in December 2024. The selected firm will need to coordinate closely with the City of South Gate's Water and Park and Recreation Departments so

as not to overlap operations and maintenance efforts. The selected firm's responsibilities will be the operation and maintenance of:

- The diversion structure in the Bandini Channel
- Pumps to the hydrodynamic separators
- Pumps to the constructed wetlands
- 2.52 ac-ft storage gallery
- Water Harvesting System
- Water overflows and discharge system
- All pumps, valves, sensors, and monitors related to the above

2. Scope of Work

The primary purpose of these regional projects is the improvement of water quality of wet and dry weather urban runoff in the downstream receiving waters (i.e. Flood Control Channels and storm drains). This is accomplished primarily by capturing sediments and trash entrained in the runoff and allowing them to settle out. This is supplemented by various monitors, sensors, filters, screens, pumps, settling galleries as well as pre and post treatment systems and water harvesting systems that must be kept in operating condition.

The selected firm(s) will operate and maintain the system in such a manner as to capture (within the capabilities of the equipment as designed and installed) 100 percent of dry weather flows and in wet weather and when feasible up to the design capacity of each project per storm event.

Tracking and monitoring the amount of water captured and treated is an important component of this project:

- Twice a year, the respondent shall report the volume of water imputed to the system and the volume of treated water discharged and other related information as requested by the jurisdictional municipality.
- For the period January through June, the report will be due September 15 of the same year.
- For the period July through December, the report will be due March 15 of the following year.
- The respondent shall conduct required Department of Public Health testing for any applicable water harvesting systems, ponds and wetlands that are receiving harvested water and inlet and outlet testing to Municipal Separate Storm Sewer System (MS4) and Coordinated Integrated Monitoring Program (CIMP) requirements where applicable testing.

Exhibit C contains links to Operations and Maintenance manuals for each of the five (5) regional projects. Below are notes from city maintenance staff regarding their operational experience of the past few years.

2.1. Bolivar Park Project

Note that this project originally had an infiltration component, but the infiltration rates have significantly decreased and this will now be operated primarily as a storage and settling vault.

Bolivar Park Project Operation and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
1a	Diversion Structure and Rubber Dam	Rubber dam raised to capture water, lowered to flush trash and algae.	Before and after rain events and 1x per month minimum.	1x per month during the wet season 1x per qtr. during dry season.	- Rubber dam has a 3-inch lip, so there's problems with mosquitoes in the stagnant water. The system manager usually needs to flush the water. -System does not usually have enough dry weather flow, so system manager may need to accumulate flow until there is enough. - Channel may fill with trash and debris, needs to be cleared 1x per month with vacuum.
1b	Diversion Structure and Rubber Dam	TSS sensor	Before and after rain events and 1x per month minimum.	Cleaning as needed.	TSS sensor monitoring inlet flows is not working and needs to be repaired or replaced (Responding firm needs to specify replacement model and costs including installation labor).
2a	Motor Operated Valve	Regulates flow, knife-gate valve	1x per month	Cleaning quarterly minimum.	This knife-gate valve is in a vault 25 feet below the surface in a confined space. It is currently unable to be closed through SCADA. The valve does not shut properly, resulting in leaking.
3	Pre-Treatment Unit	Bio Clean Nutrient Separating Baffle Box (NSBB) is the first point of treatment.	After major storm events or 1x per month during wet season (whichever is more frequent), and once during dry season.	4x per year	-This unit has been Retrofitted to reduce bypass and the unit can be difficult to clean out. Prospective respondents are advised that previous maintenance efforts have experienced accessibility, lighting, and ventilation issues. - Estimated 38 cubic yards will be removed for cleaning.

Bolivar Park Project Operation and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
4	Inlet Pump Station	High flow pump discharges during storm events. Low flow pump only discharges dry weather flows and operates more frequently.	Clean and inspect before and after every rain event and every 6 months minimum.	Clean after every rain event and replace as needed.	Due to low dry-weather flows not activating pumps. Pumps need to be cycled regularly.
5	Subsurface Settling and Infiltration Gallery)	Sediment and debris are carried over the weir wall before full settling.	2x per year at the start and end of the rainy season.	1x per year	- Prospective respondents are advised that there are accessibility, lighting, and ventilation issues. - Hard to maintain and clean due to 1) lack of ventilation, 2) length of vacuum truck hose, 3) lack of access manholes, and debris that bypassed the settling basin. - Infiltration is not working due to fine sediment plugging infiltration pores.
6	Motor Operated Valve	An actuated valve connected from infiltration area that allows water to move into wet well to be pumped to stormwater harvesting system or back to the channel.	Before and after rain events and 1x per month minimum.	As needed, quarterly minimum.	- Not working remotely, only operated manually - in a confined space. - The valve vault and electrical box accumulates water, shortening the electrical system and corroding wiring from box down to valve.

Bolivar Park Project Operation and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
7	Multi-Media Stormwater Harvesting Facility (WAHASO System)	There are 4 stages: 1) self-backwashing Tekklen filters, 2) bag filters, 3) activated carbon filter media, and 4) ultraviolet (UV) treatment. City evacuates storage water to infiltration area when bacteria exceedances occur-happens often and WAHASO hasn't been operational since June 2022. Valves are hydraulically (water) operated.	Inspection shall occur monthly at minimum, or more frequently if needed and include: filter bags, UV bulbs, and sampling.	Every other day during wet weather, not in use as of now. Filter Bags should be replaced 1/day during wet weather, UV bulb: 1/yr or as needed, per sampling plan.	**NOTE: City staff is expending a considerable effort to maintain the water harvesting system. Concurrent with starting O&M, the selected firm shall provide an evaluation of the potential for:** ● **continued operation of the water harvesting unit or** ● **converting to a ultra-filtration SB-966 compliant system** ● **or permanently taking the water harvesting system offline.** - Bag filters clogged frequently. - Media is approx. 1/3 of the intended size system continues to have poor water quality and can't UV treat. - Turbidity sensor and flow meter are broken, pH sensor needs recalibration, intake filters have failed, and mechanical issues with irrigation pumps not sending water to WAHASO (likely due to clogging). - Media in the vessels is approaching its end-life and needs to be replaced. - Operators will consider the option of diverting captured flow to sanitary sewer for treatment.
8	Irrigation Pump and Discharge Pump	Pumps B1 and B2 deliver water to harvesting facility. A separate ejector pump (B3) discharges up to 5 cfs to FCD drain.	1x per month	As needed	- Problem is that high salt content causes sprinklers to breakdown quickly. - Reclaimed water is directed back to the storage gallery if it fails to pass the BacT test. Two pumps have been replaced in wet well. Cages installed to protect irrigation pumps.

2.1.1. Recommendations to Improve Bolivar Park Operations and Maintenance

Within one year of beginning operations, the selected firm shall provide recommendations and estimated costs for operational and structural improvements, including improvements to the infiltration aspects that can be made to operate this regional project in a more cost-effective manner while maintaining the goal of improving the quality of urban and stormwater runoff in the main channels. The jurisdictional municipality reserves the right to select another firm to install any recommended improvements. A preliminary report to this effect is included in Exhibit D.

2.2. Mayfair Park Project

Mayfair was intentionally designed as a storage and settling facility, it has no infiltration capacity.

Mayfair Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
1	Diversion Structures and Rubber Dam	a. Air-inflatable rubber dam in Del Amo Channel). b. Grated Drop Inlet Diversion Structure.	Before and after rain events and 1x per month minimum.	1x per month during the wet season 1x per quarter during dry season.	- Rubber dam can be retracted to be flush with the channel floor. - Channel may fill with trash and debris. - Last cleaned November 29, 2023.
2	Motor Operated Valve	Regulates flow, knife-gate valve.	Before and after rain events and 1x per month minimum.	Cleaning quarterly minimum.	- Manhole access to both settling and storage are buried 4 feet under an active baseball field. - Access to knife gate is in a manhole with no ladder installed. - Knife gate does not fully close, allowing water to enter NSBB area. - Maintenance will need to be timed to avoid active recreation and soil will need to be replaced.

Mayfair Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
3	Pre-Treatment Unit	a. Bio Clean Nutrient Separating Baffle Box (NSBB) is the first point of treatment. b. Has been retrofitted with screen to reduce larger debris.	After major storm events or 1x per month during wet season (whichever is more frequent), and once during dry season.	4x per year.	- Accessibility, lighting, ventilation issues. Unit is approximately 25 feet deep with narrow accessway. - No ladder to NSBB. - The unit is not fully operational, pre-treatment unit has not been cleaned.
4	Subsurface Storage Structure	13.8 ac-ft underground storage reservoir to provide initial detention before the captured stormwater is pumped for irrigation onsite or infiltrated into the underlying soils. City staff can send water from storage to the wet well via the actuated valve.	2x per year at the start and end of the rainy season.	1x per year.	- Top of the access way is buried approximately 4 feet under a baseball field. Maintenance will need to be timed to avoid active recreation periods soil will need to be replaced and, at a minimum, hand compacted. No access to settling basin. - Hard to maintain and clean due to 1) lack of ventilation, 2) length of Vactor truck hose, 3) lack of access manholes, and debris that bypassed the settling basin needs to be removed. - High organic contents/debris impact harvesting units.
5a	Post BMP Pump Station	Convey the captured stormwater for treatment and subsequent irrigation, or for filtration and return to the Clark Channel. Mayfair has no infiltration, only settling and storage.	After major storm events or monthly during wet season and once per dry season.	Clean annually in advance of wet season and replace every 20 years.	Exercise monthly during dry season.

Mayfair Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
5b	Motor Operated Valve	An actuated valve connected to infiltration area allows water to move into wet well, to be pumped to stormwater harvesting system or back to the channel.	Before and after rain events and 1x per month minimum.	As needed, quarterly minimum.	- Not working remotely, partially works manually. - The valve vault and electrical box accumulates water, shortening the electrical system and corroding wiring from box down to valve. - Suggest a lip above the electric box. - Mayfair is using compressed air to keep vessels pressurized. Bolivar is using water.
6	Stormwater Harvesting Facility (WAHASO System)	a. Nearly identical unit as Bolivar. 4 stages: 1) self-backwashing Tekklen filters, 2) activated carbon filter media, and 3) ultraviolet (UV) treatment. b. Undergoing final certification testing for the Public Health Department. Has yet to go fully online. c. Valves are controlled by compressed air.	Inspection shall occur monthly at minimum, or more frequently if needed, and, UV bulbs, and sampling.	Every other day during wet weather, not in use as of now and filter bags should be replaced once per day during wet weather, UV bulb: 1x per year or as needed, per sampling plan.	**NOTE: City staff is expending a considerable effort to maintain the water harvesting system. Concurrent with starting O&M, the selected firm shall provide an evaluation of the potential for:** ● **Continued operation of the water harvesting unit or** ● **converting to an ultra-filtration SB-966 compliant system or** ● **permanently taking the water harvesting system offline.**
7	Irrigation Pump and Discharge Pump	Pumps are required to convey captured stormwater for irrigation or diversion to the stormwater channel for emergency evacuation. a. Irrigation use: 2 submersible pumps capable of 200 GPM to the	1x per month.	As needed.	- Mayfair already has a recycling water irrigation system but is undergoing a test for County Health to use the collected water. They are expected to be complete by the end of 2024.

Mayfair Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
		irrigation system. b. Emergency evacuation diversion to the stormwater channel: 1 duty pump capable of 3,150 GPM.			- Site does have the option for discharge to the sanitary sewer. - Reclaimed water is directed back to the storage gallery if it fails to pass the BacT test.

2.2.1. Recommendations to Improve Mayfair Park Operations and Maintenance

Within one year of beginning operations, the selected firm shall provide recommendations and estimated costs for operational and structural improvements, including improvements to the infiltration aspects that can be made to operate this regional project in a more cost-effective manner while maintaining the goal of improving the quality of urban and stormwater runoff in the main channels. The jurisdictional municipality reserves the right to select another firm to install any recommended improvements.

2.3. Ruth R Caruthers Park Project

Note that this project originally had an infiltration component, but the infiltration rates have significantly decreased, and this will now be operated primarily as a storage and settling vault.

Ruth R Caruthers Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
1	Diversion Structures (2) and Rubber Dam	a. Air-inflatable rubber dam (Project 16 Channel) b. Grated Drop Inlet Diversion Structure (Project 16 Channel) c. Junction Drop Inlet Diversion Structure (72" RCP - BI1902)	Before and after rain events and 1x per month minimum.	1x per month during the wet season 1x per qtr. during dry season.	- Caruthers system rubber dam can be retracted to be flush with the channel floor. - Channel may fill with trash and debris and may need to be cleared 1x per month with vacuum.
2	Motor Operated Valve	Regulates flow, knife-gate valve.	Before and after rain events and 1x per month minimum.	Cleaning, quarterly minimum.	
3	Pre-Treatment Unit	Bio Clean Nutrient Separating Baffle Box (NSBB) is the first point of treatment.	After major storm events or 1x per month during wet season (whichever is more frequent), and once during dry season.	4x per year.	-Needs to be retrofitted to prevent bypass and unit can be difficult to clean out. - Accessibility, lighting, ventilation issues.

Ruth R Caruthers Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
4	Subsurface Storage Structure (Settling and infiltration Basin)	a. 9 ac-ft underground storage reservoir to provide initial detention before the captured stormwater is pumped for irrigation onsite or infiltrated into the underlying soils. b. City staff can send water from storage to the infiltration area via an actuated valve.	After major storm events or bi-monthly during wet season and 2x per year at the start and end of the rainy season.	1x per year cleaning or as needed.	- Hard to maintain and clean due to 1) lack of ventilation, 2) length of Vactor truck hose, 3) lack of access manholes, and debris that bypassed the settling basin needs to be removed. - High organic contents/debris impact harvesting unit.
5	Motor Operated Valve	An actuated valve connected to an infiltration area that allows water to move into a wet well, to be pumped to a stormwater harvesting system or back to the channel.	Before and after rain events and 1x per month minimum.	As needed, quarterly minimum.	
6	Stormwater Harvesting Facility (WAHASO System)	a. Nearly identical unit as Bolivar and Mayfair. b. 4 stages: 1) self-backwashing Tekklen filters, 2) bag filters, 3) activated carbon filter media, and 4) ultraviolet (UV) treatment. City evacuates storage water to infiltration area when bacteria exceedances occur. c. Valving is controlled electronically.	Inspection shall occur monthly at minimum, or more frequently if needed, and filter bags, UV bulbs, and sampling.	Not in use as of now and Filter Bags should be replaced once per day during wet weather, UV bulb: 1x per year or as needed, per sampling plan.	**NOTE: City staff are expending a considerable effort to maintain the water harvesting system. Concurrent with starting O&M, the selected firm shall provide an evaluation of the potential for:** • **Continued operation of the water harvesting unit or** • **converting to an ultra-filtration SB-966 compliant system or** • **permanently taking the water harvesting system offline.** -Bag filters clogged frequently. - Media is approx. 1/3 of the intended size system continues to have poor water quality and can't UV treat. - Turbidity sensor and flow meter are broken, pH sensor needs recalibration, intake filters have failed, and mechanical issues with irrigation pumps not sending water to WAHASO (likely due to clogging).

Ruth R Caruthers Park Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
					- Media in the vessels is reportedly nearing its life-expectancy.
7	Irrigation Pump and Discharge Pump	Pumps are required to convey captured stormwater for irrigation or diversion to the stormwater channel for emergency evacuation. a. Irrigation use: 2 submersible pumps capable of 200 GPM to the irrigation system. b. Emergency evacuation diversion to the stormwater channel: 1 duty pump capable of 3,150 GPM.	1x per month.	As needed.	- Reclaimed water is directed back the storage gallery if it fails to pass the BacT test.

2.3.1. Recommendations to Improve Caruthers Park Operations and Maintenance

Within one year of beginning operations, the selected firm shall provide recommendations and estimated costs for operational and structural improvements, including improvements to the infiltration aspects that can be made to operate this regional project in a more cost-effective manner while maintaining the goal of improving the quality of urban and stormwater runoff in the main channels. The jurisdictional municipality reserves the right to select another firm to install any recommended improvements.

2.4. Sub Basin 4 (Airport) Project

Note that this project originally had an infiltration component, but the infiltration rates appear to be negligible, and groundwater appears to be entering the storage/infiltration gallery through the bottom and sides of the gallery effectively negating any infiltration of runoff. Similar to the prior three projects, this gallery will be used primarily for settling and storage.

Sub Basin 4 (Long Beach Airport) Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
1	Grated Drop Inlet Diversion Structure	The Los Cerritos Channel Diversion Inlet Structure is a rectangular reinforced concrete box RCB) with a 16' wide by 2.75' high diversion opening. The diversion opening will drop and transition into a 60" diameter reinforced concrete pipe (RCP), which will convey discharge to the Stormwater Flow Splitter Structure. This structure has been built into the sidewall of the existing channel.	Before and after rain events and 1x per month minimum.	1x per month during the wet season 1x per qtr during dry season.	- Channel may fill with trash and debris, may need to be cleared 1x/month during rainy season 1x per qtr during dry season. -Currently there is no way to restrict dry weather flows estimated at 100 gpm. Provide a cost estimate to install a slide gate.
2	Stormwater Flow Splitter	The Stormwater Flow Splitter Structure is a rectangular reinforced concrete vault that is used to split flows before pre-treatment. The structure does this by utilizing a split weir, which directs stormwater into the two Jensen Diversion Structure (JDS) Units for treatment. Once the water is treated, the stormwater enters the box again before exiting through the motor activate sluice gate into a 60" RCP.	Before and after rain events and 1x per month minimum.	As needed, quarterly minimum.	- The slide gate separating the flow splitter vault and the JDS units does not close. properly, which leads to water coming in when maintenance is performed. - There is essentially no bypass mechanism.

Sub Basin 4 (Long Beach Airport) Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
3	Two (2) JDS Pre-Treatment Unit	The two Stormwater Pre-treatment JDS units use vortex concentration and a non-blocking screen to treat flows entering the units. This treatment allows for the capture of trash, debris, and other particulates that affect water quality.	After major storm events or 1x per month during wet season (whichever is more frequent), and once during dry season.	2x per year, contractor cleans.	- There is an accumulation of floatables and sediment at the JDS units after storm events, which is expected and indicates the units are working. -Per the O&M staff, the JDS units are cleaned twice a year. The pumping of residual water within is directed to either the inlet of the infiltration gallery or the parallel JDS unit.
	Sluice Gate	Stormwater exiting the flow splitter structure will pass through a motor activated sluice gate. This gate will be used to control the flow rate by changing the position of the gate.	Every 3 months and after runoff events of 0.8 inches or less.	See attached manual.	
4	Flow Meter	Current flow meter is inoperable.	Inspect weekly.	Once a year or as needed, whichever is more frequent.	Flow meter is submerged. Firms will provide installation cost of new meter model.
5a	Subsurface Storage Structure (Settling Basin)	The underground infiltration gallery chambers provide storage capacity to retain stormwater for groundwater infiltration. Each chamber is 14 feet in height. There are also two access shafts that are 10' by 10,' located at the north-eastern and south-western corner of the storage chamber area. For Phase 1 of construction, the approximate storage capacity is 14 acre-feet (ac-ft.).	Annually (during dry months) and after every runoff event once the water has infiltrated and the gallery is dry.	1x per year.	-There is persistent water in the structure indicating infiltration is not occurring or is otherwise well below initial expectations. - Access to the galleries is difficult.

Sub Basin 4 (Long Beach Airport) Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
5b	Water Level Sensor	The water level sensor is located inside the underground infiltration gallery and measures the water surface elevation within the chambers. The programmable logic controller is used to operate the sluice gate when the infiltration gallery reaches its storage capacity.	Concurrently with the infiltration gallery inspection. Annually (during dry months) and after every runoff event once the water has infiltrated and the gallery is dry.	As needed.	Level sensor inside the infiltration gallery has a discrepancy of approximately 2.5 feet.
5c	Programmable Logic Controller (PLC)	The PLC is used to control the sluice gate by using the data gathered by the flow meter and the water level sensor. This controller is used to power the motor on the sluice gate to open and close depending on the conditions in the system.	Frequency period: weekly (preferred) or monthly at a minimum.		

2.4.1. Recommendations to Improve Sub Basin 4 Operations and Maintenance

Within one year of beginning operations, the selected firm shall provide recommendations and estimated costs for operational and structural improvements, including improvements to the infiltration aspects that can be made to operate this regional project in a more cost-effective manner while maintaining the goal of improving the quality of urban and stormwater runoff in the main channels. The jurisdictional municipality reserves the right to select another firm to install any recommended improvements. A preliminary report to this effect is included in Exhibit D.

2.5. Urban Orchard Park Project – expected to be operational as of December 2024

Urban Orchard Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
1a	Bandini Grated Drop Inlet and Low Flow Diversion Structure	Drop Inlet Structure	Before and after major storm events or monthly during wet season, once during dry season.	- Debris removal and vacuum cleaning 3x per wet season, once per dry season after major storm events as needed. -Hydrojetting as needed.	
1b	Actuated Valve Structure		After major storm events or monthly during wet season, once per dry season.	- Debris removal and vacuum cleaning as needed. - Hydrojetting annually or as needed. - Valve maintenance as needed. - Actuator battery replacement every 5 years.	
2a	Diversion Pump Station	Wet well	After major storm, monthly during wet season, once during dry season.	Vacuuming annually or as needed.	
2b	Diversion Pump Station	Valve Operation and Pump Operation		- Cycle monthly (minimum) during the dry season. - Clean and service annually in advance of the wet season.	
3	Hydrodynamic Separator	- -			

Urban Orchard Operations and Maintenance					
#	Task Name	Description	Inspection Frequency	Cleaning/ replacement Frequency	Notes
4a	Pump Station	6-pump configuration	Wet well inspection.		
5a	PreCast Concrete Reservoir	- -	After major storm events (inspect from surface minimum 72 hrs after storm event) or monthly during wet season, once per dry season.		
5b	Sediment Basin			Vacuum cleaning every 2 years or as needed, whichever is more frequent.	
5c	Storage/ Infiltration Chamber			Every 10 years or as needed, whichever is more frequent.	
6	Active Controls		- Monthly or as needed based on receipt of an alert. - Review annually.	As needed.	**NOTE: Contractor is required to:** ● **Review system status and performance using cloud-based dashboard** ● **Calibrate RTC logic** ● **Renew OptiRTC subscription**
7	Post BMP Pump Station	Irrigation Pumps	After major storm, monthly during wet season, once during dry season.	- Cycle monthly (minimum) during dry season. - Clean and service annually in advance of the wet season.	

2.5.1. Recommendations to Improve Urban Orchard Operations and Maintenance

Within one year of beginning operations, the selected firm shall provide recommendations and estimated costs for operational and structural improvements, including improvements to the infiltration aspects that can be made to operate this regional project in a more cost-effective manner while maintaining the goal of improving the quality of urban and stormwater runoff in the main channels. The jurisdictional municipality reserves the right to select another firm to install any recommended improvements.

3. Contract Term and Prevailing Wage

GWMA estimates that each municipality will enter into a contract with a firm for a term of 3 years. This will be determined in the second phase of the selection process by the jurisdictional municipality.

In accordance with the California Prevailing Wage Law (Labor Code Section 1720 et seq.), the Project is a "public works project." The selected firm(s) and any subcontractors shall pay wages in accordance with the determination of the Director of the DIR regarding the prevailing rate of per diem wages.

4. Minimum Bidder Requirements

The selected firm shall be a qualified California-licensed Contractor or Engineering/Contracting firm with a minimum of 5 years of experience with stormwater or wastewater projects of similar size and complexity. The responding firms shall provide enough detail in their response to enable GWMA and the jurisdictional municipalities to evaluate the ability of the firm to meet or exceed the requirements herein, and perform the Services described in a professional, high-quality manner.

5. Estimate of Annual Costs

The estimate to annually perform the services requested herein is roughly between $125,000 and $150,000 per project.

6. Discharges to the Sanitary Sewer

Discharges to any sanitary sewer discharge line are not to occur without first having evidence of a valid discharge permit or other valid permission from the Sanitation Districts of Los Angeles County and the explicit knowledge and approval of a representative of the jurisdictional municipality with the authority to approve such a discharge.

A valid discharge permit or other valid permission from the Sanitation Districts of Los Angeles County and the explicit knowledge and approval of a representative of the jurisdictional municipality must be procured before flow discharges to any sanitary sewer discharge line occur.

7. Project Hardware, Software and Office Equipment

All Regional Projects are equipped with SCADA control system. The respondents will work from their office. It is the responsibility of the respondent to ensure they have all necessary equipment or have included pricing in their SOQ for such equipment to be able to interface and operate successfully through SCADA (Exhibit E (3 SCADA)).

Firm shall provide all labor, materials, tools, equipment, and incidentals for the work. The Firm shall commence the work and related services upon the receipt of a written Notice to Proceed from the jurisdictional municipality. It is the Contractor's responsibility to provide sufficient and qualified personnel, equipment, and materials.

8. RFQ Contact

All questions are to be directed to the RFQ contact person:

Gateway Water Management Authority
Madeline Anderson
madelineanderson.gateway@gmail.com
Subject: GWMA O&M RFQ

9. Permits

The selected firm(s) are responsible for obtaining all necessary permits, including access permits from LACFCD.

10. Assistance to Bidders with a Disability

Respondents with disabilities will be accommodated as appropriate. Contact the RFQ Contact ten (10) business days prior to the deadline for receipt of a SOQs.

11. Schedule

- RFQ released: **May 1, 2024**
- Deadline for receiving questions: **May 17, 2024 at 5:00 PM PDT**
- Response to questions: **May 27, 2024**
- SOQ due: **June 5, 2024 at 5:00 PM PDT**
- SOQ Review: **June 2024**
- Presented to GWMA Board: **July 2024**

GWMA reserves the right to make changes to the above schedule at the discretion of the GWMA and/or the jurisdictional municipalities.

12. Questions Regarding the RFQ

Any questions will need to be submitted electronically to the RFQ contact person by the deadline specified on the front page and Section 11, “Schedule” of this RFQ.

Responses to questions will be posted on GWMA’s website (www.gatewaywater.org) home page under “GWMA News” on the date specified on the front page and Section 11, “Schedule” of this RFQ.

GWMA shall not be responsible for failure to respond to a question or request for clarification and/or comment that has not been properly labeled. Questions received after the stated deadline will not be answered.

13. Conflicts of Interest

GWMA prohibits practices that result in unlawful activity including rebates, kickbacks, or other unlawful considerations. Further, a selected firm may not assist in preparing or assisting the jurisdictional municipality with any portion of its preparation of a request for proposals, request for qualifications, or any other solicitation regarding a subsequent or additional contract with the public entity, including contracts for work proposed to improve the efficiency of each regional project.

14. Statement of Qualification Submission

SOQ format shall be:

Cover Page

Executive summary

Briefly describing the firm's understanding of the O&M and evaluation scope of work, background and experience, ability to perform the work requested, and include the firm's understanding of the scope of work being requested.

Qualifications of Firm and Project Team

- Provide recent experience of the firm's and project personnel on similar projects.
- Qualifications and pertinent licenses and certifications of personal being assigned to this project.
- Qualifications and pertinent licenses and certifications of subcontractors that will be part of the project team.
- Availability of workforce.
- A statement indicating whether the responding firm including team subcontractors has had any contracts terminated within the last five (5) years. If any such terminations exist, the Contractor must include details regarding the contract, the reason for termination, date of termination, and client contact information.
- A statement indicating whether the responding firm including team subcontractors is or has been involved in litigation regarding any contracts to which the responding firm is a party, within the previous five (5) years. If any such litigation exists, the responding firm must include details regarding the contract, the reason for litigation, date of litigation, and client contact information.
- A description of any Prime or Subcontractor formal relationships with GWMA or the jurisdictional municipalities over the last twelve months.

Staffing Approach

Include an organization chart displaying the relationships of the firm and subcontractors related to the services requests and show that the firm has sufficient resources and availability to complete the tasks requests.

References

Provide the name, description, address, and contact information from at least 2 projects of similar size and complexity. Include a brief description of the projects. GWMA and/or the jurisdictional municipalities are likely to contact the references.

Fee

Provide a billing rates sheet for services included but not limited to:

- Materials,
- Hourly staff rates,
- Volume/weight removal, for each anticipated item.

Schedule

Provide an annual timeline for the proposed O&M activities.

Signature Page

The SOQ shall be signed by a representative of the firm with authority to enter into agreements with municipalities.

SOQ Size Limitation

Submittals should be on a separate per project basis. The submitted SOQ is not to exceed 20 MB which is the receiving limit. Respondents may attach links to larger documents referencing experience. GWMA, jurisdictional municipalities and JLHA are not responsible for transmission difficulties.

SOQs must be submitted electronically before 5:00 PM PDT on June 5, 2024.

Gateway Water Management Authority
Attention: Madeline Anderson
Email address: madelineanderson.gateway@gmail.com
Subject Line: GWMA O&M SOQ

SOQs received after the SOQ deadline will not be opened and not be considered. Hard copies will not be accepted.

If the GWMA's Executive Officer, in the Executive Officer's sole discretion, believes there is a need for clarification, the Executive Officer will issue an Addendum. GWMA shall make any changes to the requirements of this RFQ by written addenda only. Changes to the RFQ will be posted on GWMA's website (www.gatewaywater.org) under "GWMA News".

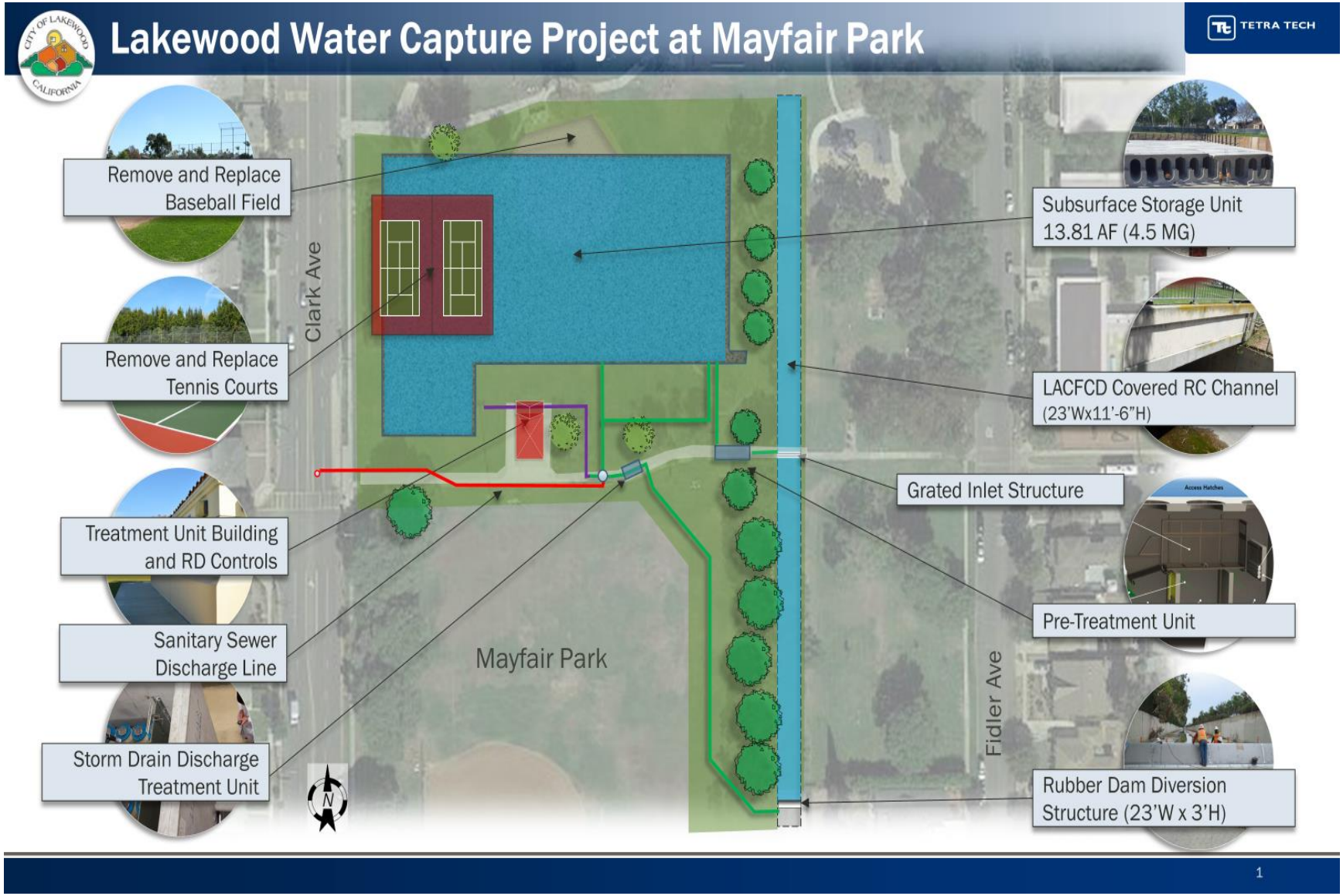
15. Miscellaneous

Respondents shall bear the total cost of the preparation of the SOQs. Neither the GWMA nor the jurisdictional municipalities are under any obligation to, nor will they reimburse responding firms for any expense incurred in the preparation of SOQs. All SOQs submitted to GWMA shall become the property of GWMA City and will not be returned.

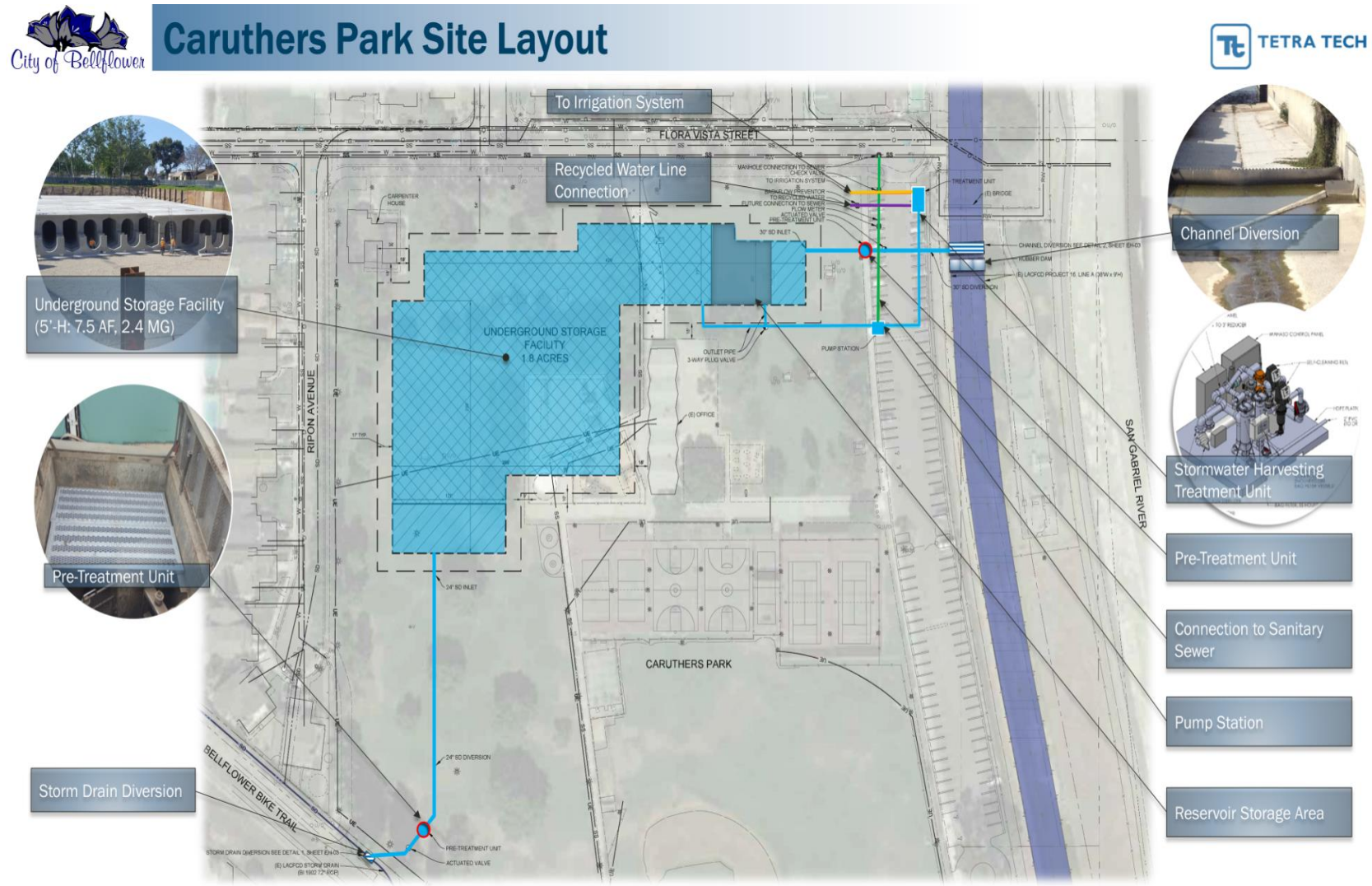
GWMA reserves the right to reject any or all SOQs, in whole or in part, and to recommend the statement(s) of qualification to a municipality which, at its sole discretion, is in the best interest of GWMA and the jurisdictional municipality.

Exhibit A - Illustrative Schematic for Each of the Project Site

Mayfair Park

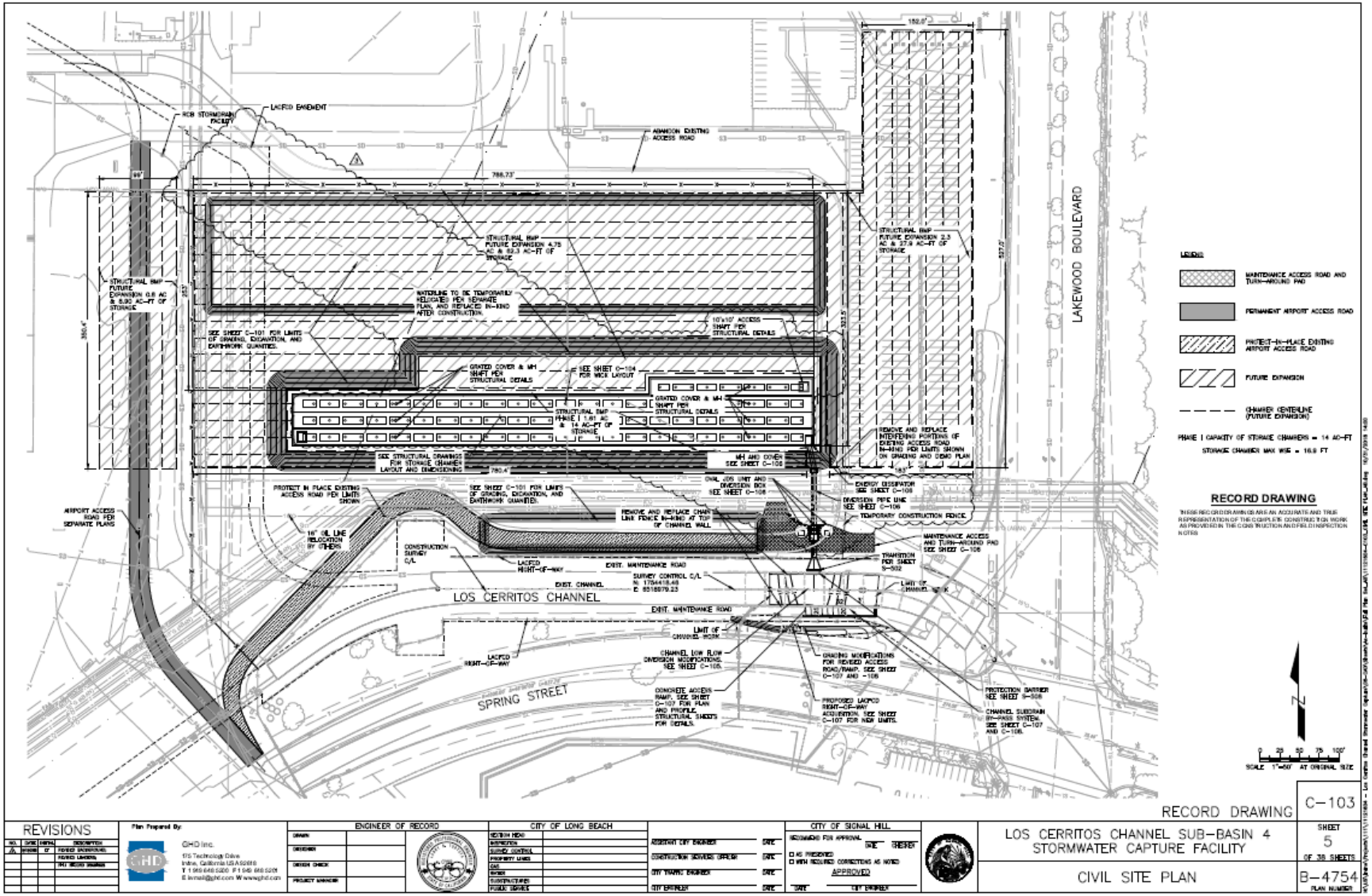


Caruthers Park



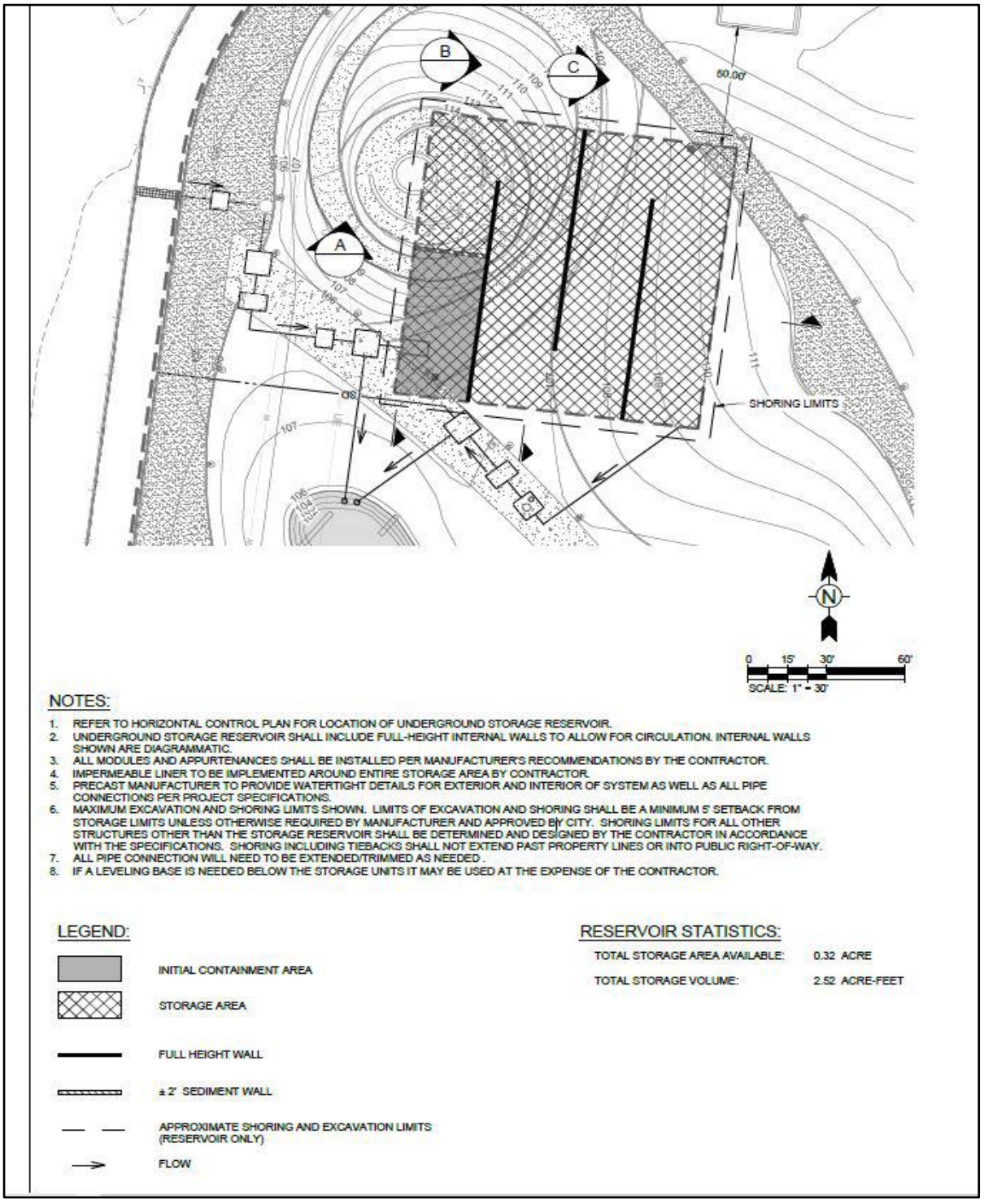
Bolivar Park

Sub Basin 4



See full map here: [LCC Sub Basin 4 Map]

Urban Orchard



NOTES:

1. REFER TO HORIZONTAL CONTROL PLAN FOR LOCATION OF UNDERGROUND STORAGE RESERVOIR.
2. UNDERGROUND STORAGE RESERVOIR SHALL INCLUDE FULL-HEIGHT INTERNAL WALLS TO ALLOW FOR CIRCULATION. INTERNAL WALLS SHOWN ARE DIAGRAMMATIC.
3. ALL MODULES AND APPURTENANCES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS BY THE CONTRACTOR.
4. IMPERMEABLE LINER TO BE IMPLEMENTED AROUND ENTIRE STORAGE AREA BY CONTRACTOR.
5. PRECAST MANUFACTURER TO PROVIDE WATERTIGHT DETAILS FOR EXTERIOR AND INTERIOR OF SYSTEM AS WELL AS ALL PIPE CONNECTIONS PER PROJECT SPECIFICATIONS.
6. MAXIMUM EXCAVATION AND SHORING LIMITS SHOWN. LIMITS OF EXCAVATION AND SHORING SHALL BE A MINIMUM 5' SETBACK FROM STORAGE LIMITS UNLESS OTHERWISE REQUIRED BY MANUFACTURER AND APPROVED BY CITY. SHORING LIMITS FOR ALL OTHER STRUCTURES OTHER THAN THE STORAGE RESERVOIR SHALL BE DETERMINED AND DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS. SHORING INCLUDING TIEBACKS SHALL NOT EXTEND PAST PROPERTY LINES OR INTO PUBLIC RIGHT-OF-WAY.
7. ALL PIPE CONNECTION WILL NEED TO BE EXTENDED/TRIMMED AS NEEDED .
8. IF A LEVELING BASE IS NEEDED BELOW THE STORAGE UNITS IT MAY BE USED AT THE EXPENSE OF THE CONTRACTOR.

LEGEND:

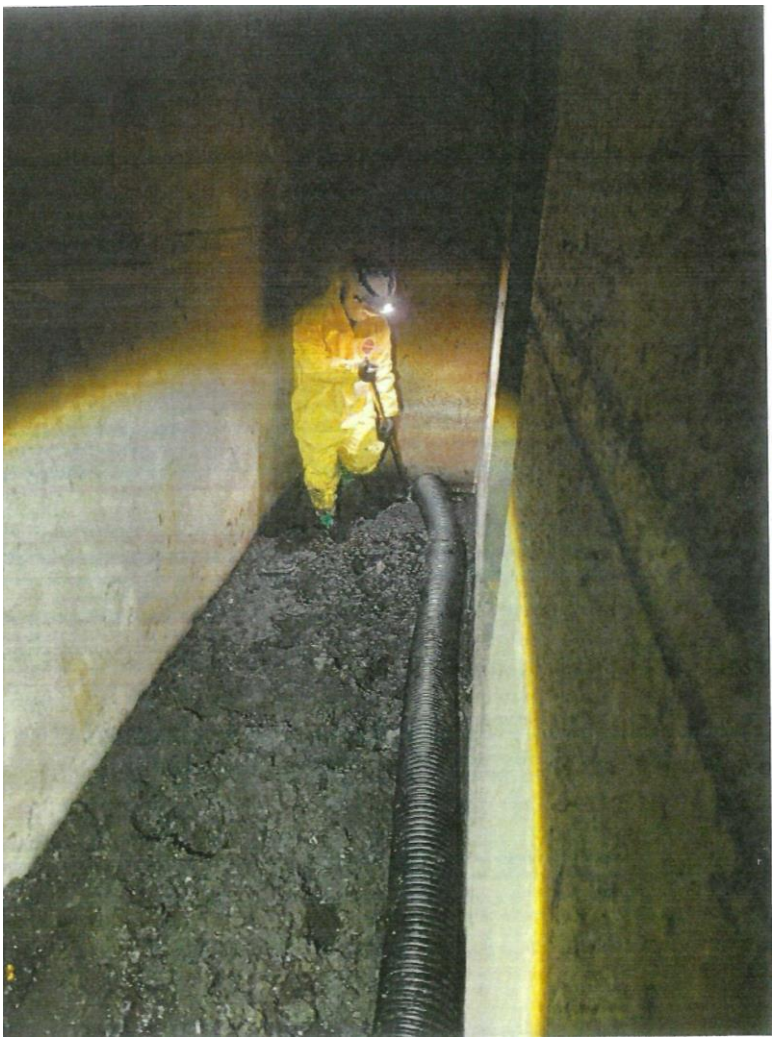
- INITIAL CONTAINMENT AREA
- STORAGE AREA
- FULL HEIGHT WALL
- ± 2' SEDIMENT WALL
- APPROXIMATE SHORING AND EXCAVATION LIMITS (RESERVOIR ONLY)
- FLOW

RESERVOIR STATISTICS:

TOTAL STORAGE AREA AVAILABLE:	0.32 ACRE
TOTAL STORAGE VOLUME:	2.52 ACRE-FEET

See full map here: Urban Orchard Map

Exhibit B - Photos of Existing O&M Efforts (Plastic Bags in Pumps, Sludge in Storage Vaults, etc.)



Workman removing solids from vault.

Plastic bags entwined in pump impeller.

Exhibit C - Links to O&M Manuals

Mayfair O&M Manual: Mayfair O&M Manual

Bolivar O&M Manual: Bolivar O&M Manual

Caruthers O&M Manual: Caruthers O&M Manual

Sub Basin 4 O&M Manual: Long Beach Airport O&M Manual

Urban Orchard O&M Manual: Urban Orchard O&M Manual

Exhibit D - BMP Engineering Recommendations

Bolivar Park: Engineering Report

Ruth R. Caruthers Park: Not available at this time

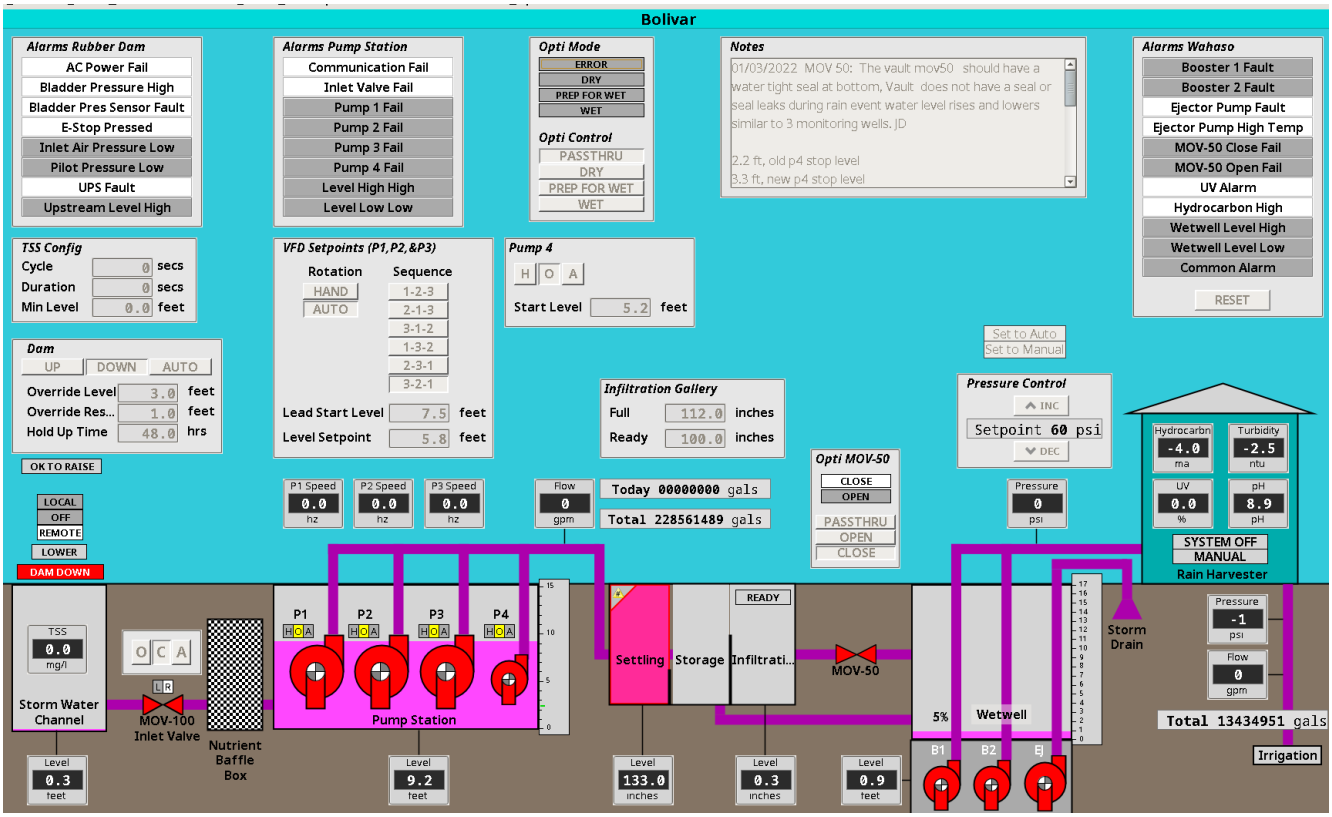
Mayfair Park: Not available at this time

Sub Basin 4: Engineering Report

Urban Orchard: This section is not applicable to Urban Orchard

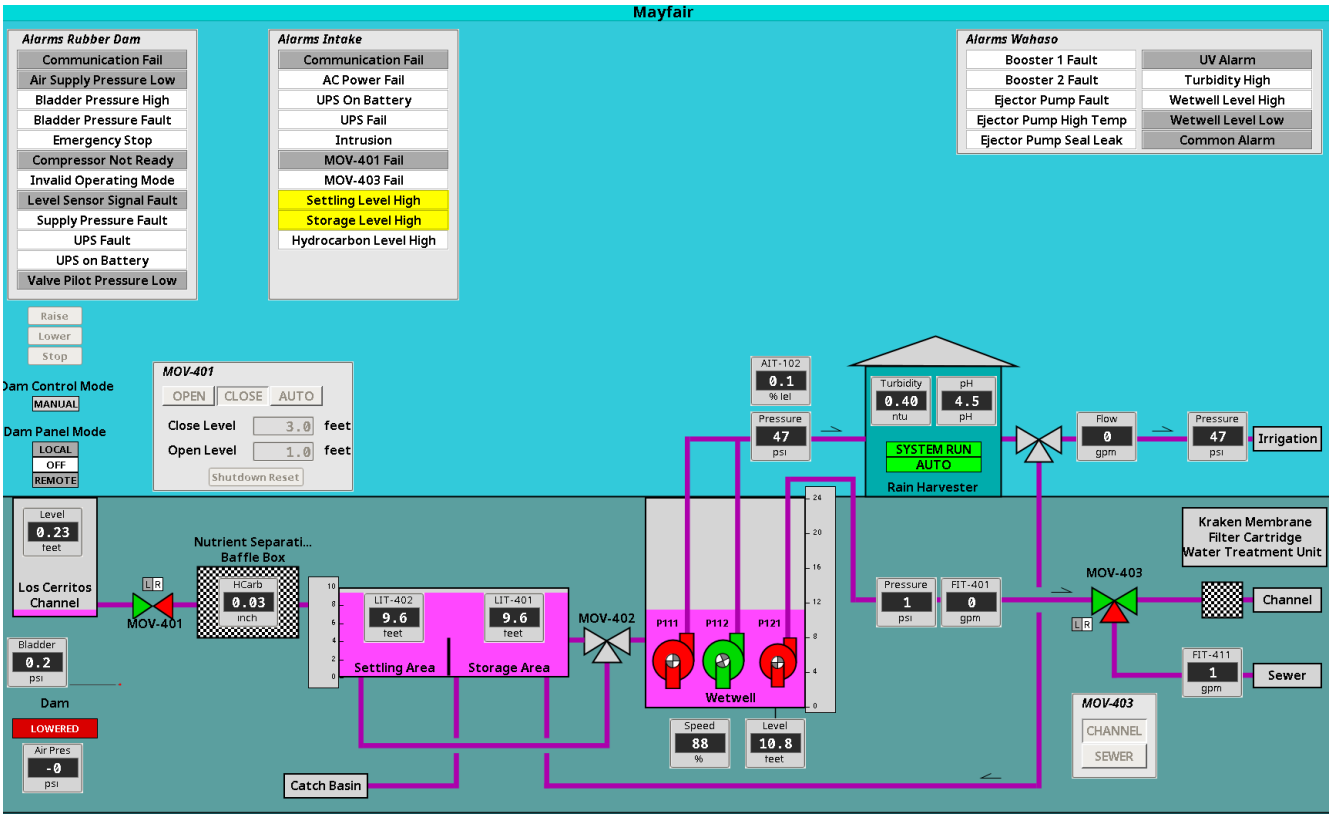
Exhibit E- SCADA Images

Bolivar SCADA



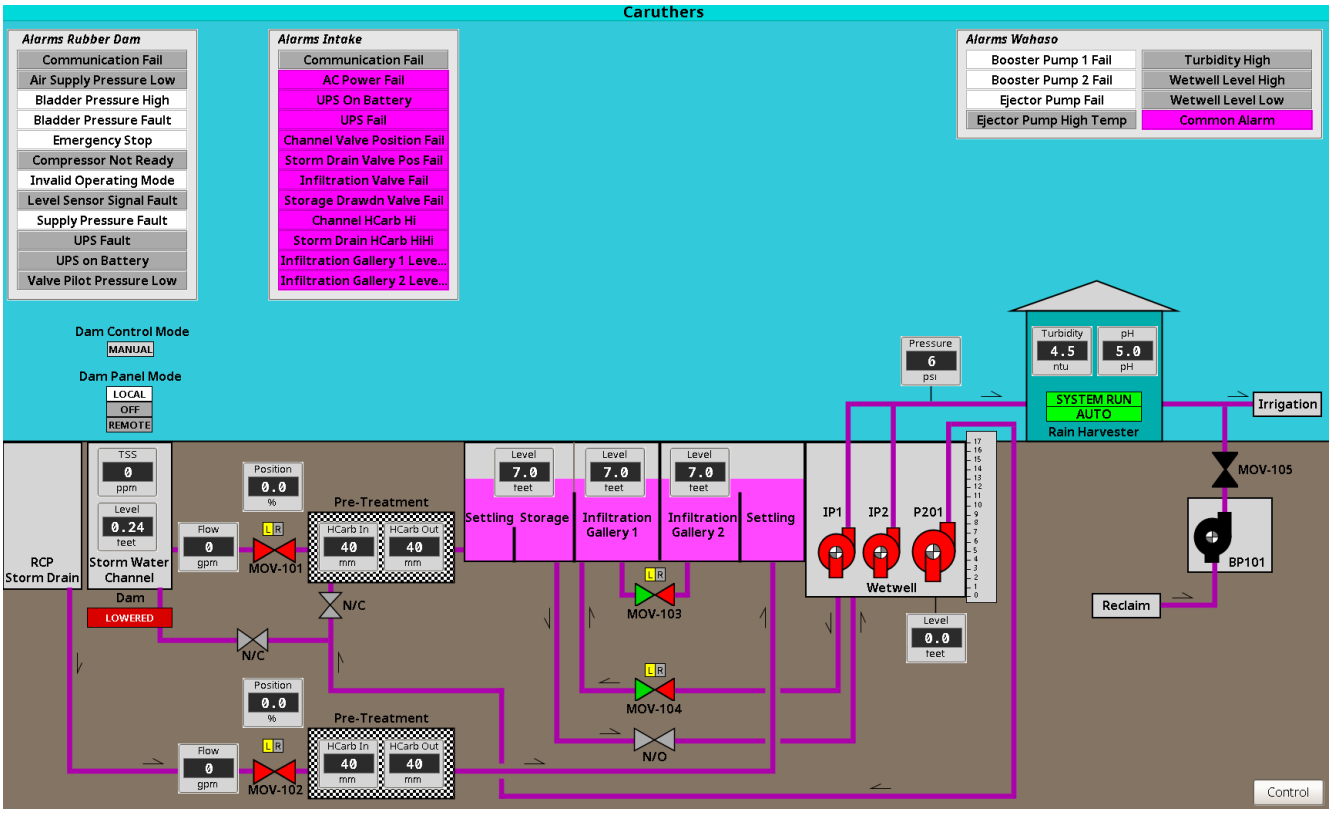
[Bolivar SCADA]

Mayfair SCADA



[Mayfair SCADA]

Caruthers SCADA



[Caruthers SCADA]

SCADA illustrations are not available for Sub Basin 4 and Urban Orchard.