

AGENDA

**REGULAR MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWVRA)
VWVRA – Administrative Conference Room, 20111 Shay Road, Victorville, CA 92392
Phone: (760) 246-8638**

MEETING DATE: Thursday, September 20, 2018

TIME: 8:00 AM (Closed

Session)

8:30 AM (Regular Session)

CALL TO ORDER

PUBLIC COMMENTS – CLOSED SESSION AGENDA

CLOSED SESSION

CLOSED SESSION: During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chair may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted. Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; or (c) employment actions, or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

CONFERENCE WITH LEGAL COUNSEL- (Gov. Code Sec. 54954.5-54956.9(d)):

1. Flow Diversion

CONFERENCE WITH LEGAL COUNSEL-POTENTIAL LITIGATION (Gov. Code Sec. 54956.9(d)):

2. Threatened or Pending Litigation- Upper Narrows Project

CONFERENCE WITH LEGAL COUNSEL-POTENTIAL LITIGATION (Gov. Code Sec. 54956.9(1)(D)):

3. Potential Litigation- Angela Valles, Government Tort Claim

4. Personnel Issues: One (1)

CONFERENCE WITH LEGAL COUNSEL-LABOR NEGOTIATION (Gov. Code Sections 54957/54957.6/ 54954.5 (f)):

5. VWVRA Designated Representative: Roger Crawford Employee Organization: The City Employees Association

6. VWVRA Designated Representative: Roger Crawford Employee Organization: Supervisors Association

CONFERENCE WITH LEGAL COUNSEL-REAL PROPERTY NEGOTIATOR (Govt. Code Sec. 54956.8)

7. Agency Negotiators: Logan Olds, General Manager; Piero Dallarda, Best Best Krieger
Negotiating Party/Parties: Anaergia, Arun Sharma
Under Negotiation: Real Property
8. Agency Negotiators: Logan Olds, General Manager; Piero Dallarda, Best Best Krieger
Negotiating Party/Parties: Lewis Center, Lisa Lamb
Under Negotiation: Real Property

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS – REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

9. Possible conflict of interest issues
10. Lahontan Conditional Waiver of Discharge Requirements – Bay View Farms
11. Article: Amid Trump Rollbacks California Moves to Regulate Wetlands on its Own
12. Article: Explosion at Water Reclamation Plant Injures 10
13. Article: Should I Flush It?
14. Notice: Local Agency Formation Commission for San Bernardino County Public Hearing for Resolution No. 3270 Countywide Service Review for Wastewater
15. CASA Legislative Update
16. General Managers Report

CONSENT CALENDAR:

17. Approve August 2018 Disbursement Registers
18. Approve Minutes from the August 16, 2018 Regular Meeting

19. **Recommendation to Approve Paychex to Process Payroll**
20. **Recommendation for Tyler Licensing Module Addition**
21. **Recommendation to Approve Anaergia Mixer Proposal for Digester One Rebuild Project**
22. **Recommendation to Ratify Low Voltage Power Emergency Purchases**

REPORTS & PRESENTATIONS:

23. **Presentation: AB 1600 (Wang)**

ACTION & DISCUSSION ITEMS:

Financial

24. **Receive and File the Newly Created VVWRA AB 1600 Report**
25. **Recommendation to Approve Resolution 2018-11 to Amend the Asset Management Policy**
26. **Use of State Revolving Funds Proceeds Paid to VVWRA to Reimburse VVWRA for Expenses Initially Paid for from VVWRA Capital Funds**

WWTP

27. **American Organics Facility Modification Project Plan**
28. **Recommendation to Pursue Net Energy Metering**
29. **Authorization to Release Bid to Construct the Storm Water Diversion Structure**
30. **Engineering Services during Construction for Storm Water Structure**

Interceptor

31. **Recommendation to Approve Scope for Engineering Services During Construction and Construction Management for Desert Knolls Wash**
32. **Recommendation to Approve Permanent Easement and Temporary Construction Easement for Desert Knolls Wash with the High Desert "Partnership in Academic Excellence" Foundation**

- 33. Recommendation to Award Desert Knolls Wash Interceptor Construction Contract to Apple Valley Construction**

JPA

- 34. Recommendation to Approve an Organizational Performance Proposal**
- 35. Recommendation to Award Wastewater Treatment Plant Capacity Evaluation Study to Carollo Engineering**
- 36. Recommendation to Award Interceptor Capacity Evaluation Study to Dudek Engineering**

STAFF/PROFESSIONAL SERVICES REPORTS:

- 37. Financial and Investment Report – August 2018**
- 38. Operations & Maintenance Report – August 2018**
- 39. Environmental Compliance Department Reports – August 2018**
- 40. Septage Receiving Facility Reports – August 2018**
- 41. Safety & Communications Report – August 2018**

NEXT VVWRA BOARD MEETING:

Thursday, October 18, 2018 – Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

ADJOURNMENT

VVWRA Regular Meeting Agenda

Thursday, September 20, 2018

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Agenda Posting: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Authority's Administrative offices not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Board Secretary.

Items Not Posted: In the event any matter not listed on this agenda is proposed to be submitted to the Board for discussion and/or action, it will be done in compliance with Section 54954.2(b) as an emergency item or because there is a need to take immediate action, which came to the attention of the Board subsequent to the posting of the agenda, or as set forth on a supplemental agenda posted in the manner as above, not less than 72 hours prior to the meeting date.

Public Comments: Any member of the public may address the Board of Commissioners on specific agenda items or matters of general interest. As determined by the Chair, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to five minutes. Persons desiring to submit paperwork to the Board of Commissioners shall provide a copy of any paperwork to the Board Secretary for the official record.

Matters of Interest addressed by a member of the public and not listed on this agenda cannot have action taken by the Board of Commissioners except as authorized by Section 54954.2(b). If you wish to speak, please complete a Speaker's Form (located at the table in the lobby outside of the Board Room) and give it to the Board Secretary prior to the start of the meeting.

If any individual wishes to challenge an action of the Commission in court, he or she may be limited to raising those issues that were raised at the public hearing pertaining to the Commission's actions, or in any written correspondence delivered to the Commission on or prior to the public hearing.

Consent Calendar: All matters placed on the Consent Calendar are considered as not requiring discussion or further explanation and unless any particular item is requested to be removed from the Consent Calendar by a Commissioner, staff member or member of the public in attendance, there will be no separate discussion of these items. All items on the Consent Calendar will be enacted by one action approving all motions, and casting a unanimous ballot for resolutions included on the consent calendar. All items removed from the Consent Calendar shall be considered in the regular order of business.

The Chair will determine if any items are to be deleted from the Consent Calendar.

Items Continued: Items may be continued from this meeting without further notice to a Committee or Board meeting held within five (5) days of this meeting per Government Code Section 54954.2(b)(3).

Meeting Adjournment: This meeting may be adjourned to a later time and items of business from this agenda may be considered at the later meeting by Order of Adjournment and Notice in accordance with Government Code Section 54955 (posted within 24 hours).

Accommodations for the Disabled: In compliance with the Americans with Disabilities Act (ADA), the Board of Commissioners Meeting Room is wheelchair accessible. If you require any special disability related accommodations, please contact the Victor Valley Wastewater Reclamation Authority Board Secretary's office at 760-246-2892 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

**VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY****MEMORANDUM**

DATE: 20 September 2018

TO: Board of Commissioners

FROM: Logan Olds, General Manager 

SUBJECT: Bay View Farms Inc., Adelanto

Attached is a letter received by VVWRA regarding the intent of Mr. Paul Bruinsma to discharge cannabis related wastewaters to VVWRA. The address listed is in Adelanto and it is believed that Mr. Bruinsma did not realize that the City of Adelanto has a separate wastewater treatment plant when completing the online application which created this response letter from Lahontan Regional Water Quality Control Board (Lahontan).

VVWRA staff contacted the Member Entities to learn if a conditional use permit had been applied for in any of their communities for this purpose and was told that none had occurred. Staff then contacted Lahontan and informed them that VVWRA was not aware of Mr. Bruinsma's Bay View Farms, Inc. project and that the application was likely filed in error. Lahontan staff indicated that they would investigate the request by Mr. Bruinsma. VVWRA staff believes that this matter is resolved and will be addressed by Lahontan.

EDMUND G. BROWN JR.
GOVERNORMATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Lahontan Regional Water Quality Control Board

August 6, 2018

WDID 6V36CC403257

Paul Bruinsma
Bay View Farms, Inc.
9219 Industrial Way
Adelanto, CA 92301
paul@gloriettamg.com

NOTICE OF APPLICABILITY - CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS, WATER QUALITY ORDER NO. WQ-2017-0023-DWQ, BAY VIEW FARMS, INC., SAN BERNARDINO COUNTY - APN 3129-261-20

EXPIRATION DATE: DECEMBER 18, 2022

Bay View Farms, Inc. (hereafter "Discharger") submitted information through the State Water Resources Control Board's (State Water Board's) online portal on July 1, 2018, for discharges of waste associated with cannabis cultivation related activities at 9219 Industrial Way, Adelanto (34.552868°N, 117.458638°W). The property is owned by B & L Scott Properties. Bill Scott, the landowner contact, is receiving separate notification of this application. The State Water Board received the associated application fee on July 18, 2018, and subsequently transferred site information to us for processing.

Based on the information provided, the Discharger self-certifies the cannabis cultivation activities are consistent with the requirements of the State Water Board *Cannabis Cultivation Policy- Principles and Guidelines for Cannabis Cultivation* (Policy), and the *General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities*, Order No. WQ-2017-0023-DWQ (General Order).

This letter provides notice that the Policy and General Order are applicable to the site as described below. You are hereby assigned waste discharge identification (WDID) No. 6V36CC403257. The Discharger is responsible for all the applicable requirements in the Policy, General Order, and this Notice of Applicability (NOA).

PETER C. PUMPHREY, CHAIR | PATTY Z. KOUCUMDJIAN, EXECUTIVE OFFICER

2501 Lake Tahoe Blvd., So. Lake Tahoe, CA 96150 | 15095 Amargosa Road, Bldg 2, Ste 210, Victorville CA 92394
e-mail Lahontan@waterboards.ca.gov | website www.waterboards.ca.gov/lahontan

RECYCLED PAPER

10-2

FACILITY AND DISCHARGE DESCRIPTION

The information submitted by the Discharger states that the cannabis cultivation activities occur within a structure with a permanent roof, a permanent relatively impermeable floor (e.g., concrete or asphalt paved), and all hydroponic/industrial wastewaters generated are discharged to a community sewer system, Victor Valley Wastewater Reclamation Authority, consistent with the sewer system requirements. Based on the information submitted, the cultivation activity is consistent with the Waiver of Waste Discharge Requirements (Conditional Waiver). Cannabis cultivation activities at Bay View Farms, Inc. are therefore conditionally exempt and covered under the Conditional Waiver.

Coverage under this Conditional Waiver expires on December 18, 2022, and the Discharger will be required to re-apply for coverage at that time to continue any cannabis cultivation activities.

SITE-SPECIFIC REQUIREMENTS

The Policy and General Order are available on the Internet at: https://www.waterboards.ca.gov/water_issues/programs/cannabis. The Discharger shall ensure that all site operating personnel know, understand, and comply with the requirements contained in the Policy, General Order, and this NOA. Note that the General Order contains standard provisions, general requirements, and prohibitions that apply to all cannabis cultivation activities.

The Discharger shall permit representatives of the Regional Water Board and/or the State Water Board, upon presentation of credentials, to:

1. Enter premises where cannabis is cultivated or processed, wastes are treated, stored, or disposed of, and facilities in which any records are kept.
2. Copy any records required under terms and conditions of the General Order.
3. Inspect at reasonable hours, monitoring equipment required by this General Order (as applicable).
4. Sample, photograph, and/or video record any cultivation activity, discharge, waste material, waste treatment system, or monitoring device.

TECHNICAL REPORT REQUIREMENTS

A *Site Closure Report* must be submitted 90 days prior to permanently ending cannabis cultivation activities and seeking to rescind coverage under the Conditional Waiver. The *Site Closure Report* must be consistent with the requirements of General Order Provision C.1.e., and Attachment A, Section 5. Attachment D of the General Order provides guidance on the contents of the *Site Closure Report*.

Paul Bruinsma
Bay View Farms, Inc.

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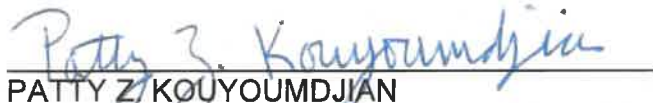
WDID 6V36CC403257

TERMINATION OF COVERAGE UNDER THE GENERAL ORDER & REGIONAL WATER BOARD CONTACT INFORMATION

Cannabis Dischargers that propose to terminate coverage under the Conditional Waiver or General Order must submit a Notice of Termination (NOT). The NOT must include a *Site Closure Report* (see Technical Report Requirements above), and Dischargers enrolled under the General Order must also submit a final monitoring report. The Regional Water Board reserves the right to inspect the site before approving an NOT. Attachment C of the General Order includes the NOT form, and Attachment D of the General Order provides guidance on the contents of the *Site Closure Report*.

Based on communication with you, you plan to start cultivating on December 15, 2018. Please direct all submittals, discharge notifications, and questions regarding compliance and enforcement to our office. We can be emailed at:

lahontan.cannabis@waterboards.ca.gov. Phone calls may be directed to me at (530) 542-5414 (patty.kouyoumdjian@waterboards.ca.gov), Timothy Middlemis-Clark, Water Resource Control Engineer, at (530) 542-5463 (timothy.middlemis-clark@waterboards.ca.gov), or Eric J. Taxer, Senior Water Resource Control Engineer, at (530) 542-5434 (eric.taxer@waterboards.ca.gov).


PATTY Z. KOUYOUMDJIAN
EXECUTIVE OFFICER

cc: Kevin Porzio, State Water Board
Michael Vella, California Department of Food and Agriculture
Shelby Williams, City of Adelanto
Joshua Dugas, San Bernardino County
Logan Olds, Victor Valley Wastewater Authority
Eric Taxer, Lahontan Water Board
Timothy Middlemis-Clark, Lahontan Water Board

Amid Trump Rollbacks, California Moves to Regulate Wetlands on Its Own

The Trump administration is moving to weaken the so-called Waters of the U.S. rule, which protects wetlands and other waterways from development. California plans its own regulations to fill the gap, but progress is slow.

WRITTEN BY
Matt Weiser

PUBLISHED ON
Sep. 3, 2018

READ TIME
Approx. 7 minutes



A woman and her daughter explore a wetland in California's Sacramento Valley. René C. Fryer, Sacramento Bee

CALIFORNIA OFFICIALS ARE poised to seize control over a major arena of federal regulation in response to Trump administration rollbacks: the management and protection of wetlands.

Wetlands are vital features on the landscape. Basically low spots in a watershed, when they fill with water they provide important habitat for birds, fish and other species. Wetlands also help control floods and recharge groundwater, and they filter the water we drink. On the other hand, being generally flat and maligned as “swamps,” they are popular places to pave and build.

As a result, wetlands have nearly disappeared across the western United States. That has given rise to the controversial policy known as the Waters of the U.S. rule, or WOTUS. The rule is an effort, first, to define wetlands, which turns out to be monumentally difficult. And second, to regulate development in and around wetlands.

One of President Donald Trump's first acts upon taking office in 2017 was to direct the Environmental Protection Agency to rescind and

rewrite the WOTUS rule. The rule had been comprehensively updated in 2015 by the Obama administration, after years of analysis and public review. But Trump viewed it as overly broad. In January, the EPA fulfilled his promise by suspending the rule.

California decided to take action in response. Since 1993, it has been state law to avoid ongoing wetland losses – a so-called “no net loss” policy. So the California State Water Resources Control Board (SWRCB) began preparing its own rules, which would put the state in full control of wetland protection.

If passed later this year, it could become the first move by a state to seize a broad arena of regulatory power for itself in response to Trump’s regulatory rollbacks.

“Our update will advance the ball and add clarity without giving up any authority that’s important to protect wetlands,” said Felicia Marcus, chair of the SWRCB and a former EPA regional administrator during the Clinton administration. “That’s what we’re working on.”

The WOTUS rule has been around – under various names and iterations – as a component of the Clean Water Act, which was first adopted by Congress in 1972.

The overarching goal is to prevent pollution and erosion that harms water quality for people and wildlife. Building in wetlands and other water bodies, including the dredging needed to maintain harbors, often causes pollution by eliminating natural filtration and stirring up contaminated sediment.

The rules have been jointly enforced by the EPA and the U.S. Army Corps of Engineers. They also apply to tidal waters, seasonal streams, ponds, lakes, playas, meadows, mudflats and any waters considered “navigable” or important to industry or commerce. As a result, how the rule is interpreted and applied has huge implications for the environment and the economy.

For decades, this interpretation had been left intentionally vague, both to provide regulatory flexibility and to avoid controversy.

“There’s been confusion over the scope of WOTUS since 2001,” said Holly Doremus, a professor of environmental law at the University of California, Berkeley.

That was the year the U.S. Supreme Court ruled that the EPA and the Army Corps had been applying the law too broadly, and that some waters not connected to traditionally navigable waterways should not be regulated. A clear definition of regulated waterways had to be made.

A second Supreme Court ruling in 2006 made things more confusing: a divided court held that waters with a “significant nexus” to something

navigable could be regulated. This led to the 2015 WOTUS rule adopted by the Obama administration.

The court's definitions left a lot of room for interpretation. As a result, the Obama administration drew a large regulatory circle after a years-long effort to analyze the issue. Now the Trump administration wants to draw it much smaller.

"The core of that problem is that wetlands are not necessarily water and they're not necessarily dry land. It's hard for the public to understand," Doremus said. "If you or I went out and stood somewhere and looked around, we wouldn't necessarily know whether a place should be a wetland or not. It does take a technical expert examination."



A group of preschoolers walk across a bridge spanning the marshes of Malibu Lagoon in Southern California. This marsh is protected within a state park. But many of California's remaining wetlands and marshes are not, prompting the state to propose a new program to oversee development in and near such water bodies. (Luis Sinco/Los Angeles Times via Getty Images)

California's "no net loss" wetlands policy arose from a 1993 proclamation by then governor Pete Wilson. The proclamation also declared that the state must work to increase wetland acreage over time. Although it has remained state policy ever since, the policy has not been fulfilled.

There is no formal state program to monitor wetland acreage, but evidence suggests total acreage has declined since 1993. The state has lost at least 91 percent of its historic wetlands, according to the U.S. Geological Survey.

"This federal rollback is a big threat," said Rachel Zwillinger, water policy adviser at Defenders of Wildlife. "We have continued to lose wetlands. And there are losses occurring that are completely outside the permitting process, which is really problematic."

California actually began drafting its own wetlands rule in 2004, partly to fulfill the "no net loss" policy and to provide more regulatory

certainty. It went through several revisions but was never completed. The effort took on more urgency with Trump's election in 2016.

California's authority to regulate wetlands on its own arises from the general legal principles of statehood, Doremus said: states can adopt any regulations that promote the public welfare.

In addition, California has established the legal basis to protect all its waters in the Porter-Cologne Water Quality Control Act. The law, adopted in 1969, gives the state authority to enforce water quality in wetlands.

California's new regulations would seek to protect wetlands and other waterways as "waters of the state." Officially described as "dredge and fill" regulations, the rules would govern any activities that disturb wetlands and other surface waters.

A starting point for the rules is simply defining a wetland. A key difference from federal regulations is that the state's proposal does not require the presence of vegetation to declare that a water body is a wetland. The state rules require water to be present long enough for anaerobic (absence of oxygen) conditions to exist in the upper soil surface of the water body.

Another goal is to streamline the process of obtaining a permit, for example, to dredge a harbor, or pave a parking lot in an area that may or may not be a wetland. Currently, due to the absence of clear state regulations, the permit process can vary quite a bit in different regions of the state.

"We won't make it crystal clear, but we will make it way more clear than it is and give some degree of comfort to both the environmental community and the developer community," said the SWRCB's Marcus. "We're trying to create enough clarity for good government while protecting precious wetlands."

Even though California is moving to adopt its own regulatory program, losing an active federal presence will be challenging. One reason is that the Army Corps plays a big role in identifying and mapping waterways that should be protected under the WOTUS rule – a process known as delineation. If federal changes eliminate or substantially shrink this role, the state's workload is likely to increase substantially whether or not it adopts its own regulations.



President Donald Trump speaks before signing an executive order on Feb. 27, 2017, to begin the rollback of the Waters of the U.S. rule. The rule, adopted by the Obama administration in 2015, is designed to protect wetlands and other waterways from dredging and development. (Aude Guerrucci-Pool/Getty Images)

The Trump administration's moves so far have been followed by more court actions and more uncertainty. The latest development came on Aug. 16, when a federal judge in South Carolina issued an injunction against the administration's February order suspending WOTUS. But the order only applies in 26 states not covered by stays issued in two previous court rulings.

In the West, this means the Obama-era WOTUS rules are again in force in California, Oregon, Washington and Texas, but not in Alaska, Colorado, Idaho, Montana, Wyoming, Utah, Nevada, Arizona and New Mexico.

Because of the state water board's delays, another pressure has come to bear: Gov. Jerry Brown's term ends this year. Even assuming another Democrat replaces him, the transition to a new administration will be disruptive.

In addition, Marcus' own term as chair of the water board ends in January.

"We've been really disappointed the state board has not yet finalized the policy," Zwillinger said. "It's been a decade in the making. And with the new, urgent threat at the federal level, we'd like to see it get across the finish line in this [state] administration."

Marcus could not say when the water board might adopt the new rules. The board has already held many days of public hearings and workshops on the draft policy. But more deliberations will be required before adoption, and none have been scheduled yet.

"Because it's so contentious, we're trying to get it right," Marcus said ■

EXPLOSION AT WATER RECLAMATION PLANT INJURES 10

Far South Side Chicago water reclamation plant sludge concentration building explodes



In a release to the media Friday, Aug. 31, the Metropolitan Water Reclamation District of Greater Chicago released a statement about the events at the Calumet Water Reclamation Plant, noting that water treatment operations will continue, water is safe to drink, and teams are being mobilized for clean up.

"We are grateful to report as of Friday morning that eight of the 10 individuals impacted by yesterday's roof collapse at the Calumet Water Reclamation Plant have been released from area hospitals. We wish them all a speedy recovery," the release stated. "We are working with local, state and federal investigators to determine the cause of yesterday's incident while at the same time mobilizing to begin the cleanup process."

The MWRDGC also thanked emergency crews for their quick response to the roof collapse, particularly in extricating two workers who had been trapped in the rubble. The Chicago Fire Department has control of the scene during this period of investigation and when its work is complete, it will release the scene to MWRDGC so that clean up can begin.

ORIGINAL ARTICLE:

Methane gas is the expected culprit for an explosion in the sludge concentration building at the Calumet Water Reclamation Plant in Cook County, Chicago that injured 10 people Thursday, according to the Chicago Tribune. The plant is one of the oldest plants in Cook County located on the south side of the Windy City.

As of Friday, Aug. 31, the Metropolitan Water Reclamation District of Greater Chicago (MWRD) said all but one of the injured workers were released from the hospital.

According to the Chicago Tribune, one of the workers was rescued 20 minutes after the explosion while a second was covered by the rubble for two hours before firefighters were able to free him. In a quote to the Chicago Tribune, Fire Commissioner Jose Santiago said: Companies had to dig 6 ft down and then tunnel their way across 20 ft to the victim.

All workers injured by the explosion were taken to nearby medical facilities where they were listed as being in serious to critical condition. One worker's leg was trapped by a heavy beam—reports conflict as to it being metal or concrete—which was lifted off him as paramedics administered help to ensure he did not go into shock. According to CBS Chicago, those paramedics provided intravenous fluids and medication to treat him and to avoid amputation. It is not clear if amputation was needed. That worker also sustained a broken jaw in the explosion.

Among the oldest working plants in Cook County, the Calumet Water Reclamation Plant began operations in 1922. It serves 1 million people. According to the Chicago Tribune report, it is not clear how the explosion will affect long-term operations.

Should I Flush It? Most Often, the Answer Is No



Raking wipers and other waste into a bin for disposal at the Newtown Creek Wastewater Treatment Plant in Brooklyn. Credit Credit Karsten Moran for The New York Times

By Christina Caron

Aug. 25, 2018

It might seem harmless at first: a thread of dental floss tossed in the toilet, a contact lens swirling down the drain of the bathroom sink. But even the tiniest of items can contaminate waterways.

The small fragments of plastic contact lenses are believed to be contributing to the growing problem of **microplastic pollution**. Pharmaceuticals, which are also frequently flushed down the drain, have been found in **our drinking water**, and the consequences are not fully known.

Larger products like wipers and tampons are also clogging sewer systems, resulting in billions of dollars in maintenance and repair costs.

Wondering what's safe to flush or wash down the drain? We spoke with several wastewater management experts who explained why many frequently disposed items belong in a garbage can, not the toilet.

Disposable wipers

Many wipers claim on their packaging to be “flushable,” but almost all of them contain rayon or viscose, said Rob Villée, executive director of the Plainfield Area Regional Sewerage Authority in Middlesex, N.J.

“Unfortunately, the natural water bodies these get into do not have the heat or micro-organism levels to effectively degrade these,” he added. “That is why we see rayon accumulating in the oceans.”

While toilet paper will break down in anywhere from a minute to four minutes, wipes take at least six hours to disintegrate, Mr. Villée said.

Furthermore, the pumps at collection systems that move waste downstream to treatment plants cannot tear them apart.

“We see pumps that are designed to pump up to half a million gallons a day clogging,” Mr. Villée said. Now that wipes are used around the world, he added, “it’s a problem internationally.”

(Remember the giant “fatberg” in London?)

Dental floss

Dental floss, which is usually made of nylon or Teflon, should also stay out of the toilet.

“It seems like, ‘Oh, it’s just a little string,’ but it tends to wrap things up,” Mr. Villée said. “It’ll collect other things and make kind of a big wad of stuff. It’s incredibly strong.”

Contact lenses

When contact lenses are flushed down the toilet or washed down the sink, they do not biodegrade easily. As a result, they may make their way into surface water, causing environmental damage, new research has shown.

The lenses are also impervious to the bacteria that break down biological waste at treatment plants. When researchers at Arizona State University submerged contacts in chambers with the bacteria, they found that the lenses appeared intact seven days later.

“We discourage any kind of plastics because it can make its way through a treatment plant and end up in the receiving water,” said Vincent Sapienza, the commissioner of the New York City Department of Environmental Protection.

Contact lenses “have densities similar to water, so they don’t readily float or sink at wastewater treatment plants,” he added, which means they are not captured and removed at the plant.

Tampons

It is often assumed that tampons can be flushed down the toilet, in part because they are so small. But their absorbent materials, including the string, do not break down easily: They cannot be processed by wastewater treatment centers, and can damage septic systems.

Kotex, Playtex and Tampax advise women to throw them away instead.

“It’s best to simply wrap a used tampon in toilet paper and toss it in the garbage or, if you’re in a public washroom, place it in the waste receptacle for feminine hygiene products,” Playtex says on its website.

Medications

Wastewater treatment plants are not designed to filter out pharmaceuticals, so drugs that are disposed of in the toilet or the sink drain end up entering streams, rivers and lakes.

The first major study to document this, conducted by the United States Geological Survey, found low levels of organic wastewater compounds, including prescription and nonprescription drugs and hormones, in 139 streams across the United States during 1999 and 2000. One or more of these chemicals were found in 80 percent of the streams sampled.

A more recent study, which sampled water from 25 drinking-water treatment plants in the United States, found that some pharmaceuticals persisted despite water treatment processes.

The technology that would be required to remove pharmaceuticals from the water at treatment plants is cost-prohibitive, said Ed Gottlieb, the industrial pretreatment coordinator at the Ithaca Area Wastewater Treatment Facility. It is far cheaper to use take-back programs that collect unused medications before they enter the water supply, he added, because those cost only \$2 to \$5 for each pound of medication collected.

During its nationwide take-back event in April, the Drug Enforcement Administration collected 474.5 tons of pharmaceuticals. The next National Prescription Drug Take Back Day is Oct. 27.

“The amount of pounds they collect is phenomenal,” Mr. Gottlieb said. “It’s huge. And yet there are studies done that show only a very small percentage of what’s out there is being collected.”

Kitty litter

Kitty litter will not dissolve in water and can create clogs, even if it is labeled flushable.

Gene Weingarten, a syndicated columnist, described what happened when he flushed a small amount of cat litter down his daughter’s toilet last year.

“Cat litter is a preternaturally absorptive substance, apparently designed to expand to roughly 60,000 times its original volume in some horrible malignant process like cancer, only worse,” he wrote. “Molly’s toilet resembled one of those baking-soda-and-vinegar volcanoes the dumb kids in middle school made every year for science fairs.”

Condoms

Condoms should never be flushed.

“I’ve heard condoms called sewer lilies because they fill with air or gas and float to the top,” said Cynthia Finley, the director of regulatory affairs at the National Association of Clean Water Agencies.

“As a society, I think we’ve become more germophobic,” she said, adding that there is a tendency to want to flush anything that has bodily fluids. But wastewater treatment plants are not designed to handle anything except for human waste and toilet paper, she said.

Facial tissues, paper towels and cotton swabs

Facial tissues might seem safe to flush because they look so much like toilet paper. But unlike toilet paper, facial tissues have been treated with a chemical binder that takes time to release and break apart when flushed, Ms. Finley said.

Likewise, paper towels and cotton swabs are also formulated to stay intact.

When in doubt, throw it out (in a trash can)

If you’re not sure, follow a simple rule: If it is not human waste or toilet paper, it should not be disposed of in the toilet, Ms. Finley said.

The cost of both drinking water and wastewater go into a water bill, said Mr. Sapienza, the New York environmental official. When cities have to send crews to unclog sewers or, in worst-case scenarios, replace them, the cost is passed down to everyone who gets a water bill, he added.

A YouTube video created by the City of Spokane Department of Wastewater Management showed what happened when items like flushable wipes were agitated in water. The wipes did not disintegrate. Kitty litter remained a sandy wet mass. The dental floss spun and spun.

“If you define flushable as ‘Yes, it will go down the toilet,’ then everything here is flushable,” Tracy Stevens, a pretreatment technician, says in the video. If you define it as whether it will make it to the treatment plant, she added, some of the waste will and some will not.

More important, the treatment plants are not equipped to process these products.

If hundreds of thousands of people are flushing those items, “they’re going to cause trouble,” she said.




VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

MEMORANDUM

DATE: 20 September 2018

TO: Board of Commissioners

FROM: Logan Olds, General Manager 

SUBJECT: LAFCO Countywide Service Review for Wastewater, Resolution No. 3270

Please refer to the top of page 3 in the attached LAFCO Resolution No. 3270 pertaining to VWVRA. LAFCO is aware of the Office of the Inspector General (OIG) audit and the Joint Power Authority (JPA) issues VWVRA is currently addressing. LAFCO has indicated by this Resolution that it intends to continue to monitor VWVRA's progress towards resolving these issues.

**LOCAL AGENCY FORMATION COMMISSION
FOR SAN BERNARDINO COUNTY**

1170 West Third Street, Unit 150, San Bernardino, CA 92415-0490
(909) 388-0480 • Fax (909) 388-0481
lafco@lafco.sbcounty.gov
www.sbclafco.org

WWRA
AUG 27 2018

PROPOSAL NO.: LAFCO 3190

HEARING DATE: AUGUST 15, 2018

RESOLUTION NO. 3270

A RESOLUTION OF THE LOCAL AGENCY FORMATION COMMISSION FOR SAN BERNARDINO COUNTY MAKING DETERMINATIONS ON LAFCO 3190 – COUNTYWIDE SERVICE REVIEW FOR WASTEWATER (COLLECTION, TREATMENT, DISPOSAL).

On motion of Commissioner Bagley, duly seconded by Commissioner Cox, and carried, the Local Agency Formation Commission adopts the following resolution:

WHEREAS, a service review mandated by Government Code 56430 has been conducted by the Local Agency Formation Commission for San Bernardino County (hereinafter referred to as “the Commission”) in accordance with the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (Government Code Sections 56000 et seq.); and,

WHEREAS, at the times and in the form and manner provided by law, the Executive Officer has given notice of the public hearing by the Commission on this matter; and,

WHEREAS, the Executive Officer has reviewed available information and prepared a report including his recommendations thereon, the filings and report and related information having been presented to and considered by this Commission; and,

WHEREAS, a public hearing by this Commission was called for August 15, 2018 at the time and place specified in the notice of public hearing and in any order or orders continuing the hearing; and,

WHEREAS, at the hearing, this Commission heard and received all oral and written support and opposition; the Commission considered all objections and evidence which were made, presented, or filed; and all persons present were given an opportunity to hear and be heard in respect to any matter relating to the service review, in evidence presented at the hearing; and,

WHEREAS, at this hearing, this Commission certified that the service review is statutorily exempt from environmental review pursuant to the provisions of the California Environmental Quality Act (CEQA) and such exemption was adopted by this Commission on August 15, 2018. The Commission directed its Executive Officer to file a Notice of Exemption within five working days of its adoption; and,

WHEREAS, the determinations required by Government Code Section 56430 and local Commission policy are included in the report prepared and submitted to the Commission dated June

RESOLUTION NO. 3270

20, 2018 and was recommended for acceptance and filing by the Commission on August 15, 2018, a complete copy the service review is on file in the LAFCO office.

WHEREAS, the following additional determinations are made in conformance with the Government Code and local Commission policy:

- Each wastewater system identified in this review was provided a draft of the report for review and comment. Comments from the water purveyors are included in Appendix A of the service review.
- A meeting with LAFCO staff and affected agency representatives was held within each region (Valley on June 4, 2018; Mountain on May 31, 2018; North Desert on June 5, 2018; and South Desert on May 31, 2018) to review the draft service review and receive input.
- As required by State Law, notice of the hearing was provided through publication in newspapers of general circulation within the area, the *Big Bear Grizzly*, *Daily Press*, *Hi-Desert Star*, *Inland Valley Daily Bulletin*, *Mountain News*, and *San Bernardino Sun*. Individual notice was not provided as allowed under Government Code Section 56157 as such mailing would include more than 1,000 individual notices. As outlined in State Law and Commission Policy, in-lieu of individual notice the notice of hearing publication was provided through an eighth page legal ad.
- As required by State law, individual notification of the hearing was provided to affected and interested agencies, County departments, and those agencies and individuals requesting mailed notice.
- Due to the size and scope of the report, the service review document was provided in advance of the staff report to allow additional time for review. The service review document was published June 20, 2018 and a copy was provided to affected and interested agencies and County departments, as well as those agencies and individuals requesting mailed notice. The service review document was also made accessible on the LAFCO website.

NOW, THEREFORE, BE IT RESOLVED by the Local Agency Formation Commission for San Bernardino County, State of California, that this Commission shall:

1. Accept and file the Countywide Service Review for Wastewater, included as Exhibit A to this resolution (available at the LAFCO office and on the San Bernardino LAFCO website www.sbclafco.org), which sets forth the written statements for the six determinations outlined in Government Code Section 56430 as presented and as amended at the hearing.
2. Initiate a sphere of influence amendment for the City of Adelanto to determine the appropriate sphere of influence for the City, and direct that this process include a meeting between City and County representatives to discuss the current sphere area and LAFCO staff's proposed sphere amendment.
3. Direct LAFCO staff to continue to monitor the Victorville Water District and the City of Victorville, and direct staff to return to the Commission six months following the completion of this service review.

RESOLUTION NO. 3270

4. Direct LAFCO staff to continue to monitor the Victor Valley Wastewater Reclamation Authority, and direct staff to return to the Commission six months following the completion of this service review. *
5. Identify the Twentynine Palms community as a “hot spot” and recognize that an opportunity exists for the community to develop a joint wastewater system with the nearby Marine Corps base.
6. For the Inland Empire Utilities Agency (“IEUA”):
- a) Determine the following for IEUA service outside its boundary, as shown in Figure 3-3 to the service review in yellow color:
 - i. Parcels connected on or before January 1, 2001 are exempt from LAFCO review pursuant to Gov. Code §56133(e)(4).
 - ii. Parcels connected after January 1, 2001, including the currently developed parcels as listed by the City of Fontana per maps included in Attachment #1 to the staff report for LAFCO 3190 dated August 8, 2018, as a result of the 1995 settlement agreement between IEUA and the City of Fontana which outlines an agreement for services to be rendered by IEUA.
 - iii. Connecting the remaining unserved area will come under the provisions of Gov. Code §56133.5, which can be considered by the Commission through a blanket authorization for the entire area.
 - b) Reflect the following for IEUA in the LAFCO Policy and Procedure Manual, Section VI (Special Districts), Chapter 3 (Listing of Special Districts within San Bernardino County LAFCO Purview – Authorized Functions and Services), as these are the functions and services that IEUA has historically and actively provides:

<u>Water</u>	Wholesale, replenishment
<u>Sewer</u>	Collection, regional treatment, reclamation, disposal, recycled water, composting, non-reclaimable wastewater collection
<u>Energy</u>	Energy recovery and production
<u>Total Basin Management</u>	Planning for Chino hydrological basin
7. For the City of San Bernardino:
- a) Determine that the parcels identified in Section III of the service review were provided service on or before January 1, 2001 and are exempt from LAFCO review pursuant to Gov. Code §56133(e)(4).

RESOLUTION NO. 3270

- b) Request the City of San Bernardino submit an Out-of-Agency Service application to LAFCO to encompass all of the parcels that were provided wastewater service after January 1, 2001, to date, as identified in Section III of this report.
8. For the City of Upland, determine that its 1982 agreement with the City of Claremont and Los Angeles County Sanitation District is exempt from LAFCO review as it is:
- a) Service between two public agencies where the public service provided is an alternative to, or substitute for, public services already being provided by an existing public service provider (the City of Upland) and where the service provided is consistent with the level of service of the existing service provider (the City of Upland). (Gov. Code §56133(e)(1))
 - b) An extended service that was provided on or before January 1, 2001. (Gov. Code §56133(e)(4))
9. For the City of Rialto:
- a) Determine that the three parcels identified in Section III of the service review provided service by the City of Rialto are exempt from LAFCO review as they are an extended service that was provided on or before January 1, 2001 pursuant to Gov. Code §56133(e)(4).
 - b) Determine that the 1991 Rialto/Fontana Extraterritorial Wastewater Service Agreement is exempt from LAFCO review as it is:
 - i. Service between two public agencies where the public service provided is an alternative to, or substitute for, public services already being provided by an existing public service provider (the City of Rialto) and where the service provided is consistent with the level of service of the existing service provider (the City of Rialto). (Gov. Code §56133(e)(1)).
 - ii. An extended service that was provided on or before January 1, 2001. (Gov. Code §56133(e)(4)).
 - c) Request the City of Rialto submit an Out-of-Agency Service application to LAFCO to encompass all of the City's other extraterritorial service agreements that have not been authorized by LAFCO to date.

THIS ACTION APPROVED AND ADOPTED by the Local Agency Formation Commission for San Bernardino County by the following vote:

AYES: COMMISSIONERS: Bagley, Cox, Curatalo, McCallon, Ramos, Williams

NOES: COMMISSIONERS: None

ABSENT: COMMISSIONERS: Lovingood

RESOLUTION NO. 3270

STATE OF CALIFORNIA)
) ss.
COUNTY OF SAN BERNARDINO)

I, SAMUEL MARTINEZ, Executive Officer of the Local Agency Formation Commission for San Bernardino County, California, do hereby certify this record to be a full, true, and correct copy of the action taken by said Commission, by vote of the members present, as the same appears in the Official Minutes of said Commission at its meeting of August 15, 2018.

DATED: August 20, 2018

Samuel Martinez

SAMUEL MARTINEZ
Executive Officer





Legislative Session Ends: CASA Sponsored Bill Moves to Governor

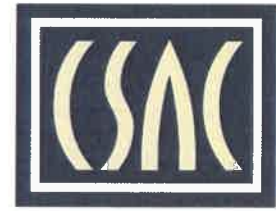
The 2017-18 Legislative Session ended on Friday, August 31 and was preceded with a flurry of activity. Governor Brown has until September 30 to sign or veto all legislation that has passed through the legislature.



CASA's Legislative Focus

- **SB 212** (Jackson), a bill establishing a comprehensive statewide pharmaceutical and sharps waste stewardship program, passed on the final day of session. CASA was supporting this measure, which was the result of several years of negotiations between proponents and the pharmaceutical industry.
- **SB 1263** (Portantino), CASA's sponsored bill on microplastics, is headed to the Governor after passing through the legislature with unanimous bipartisan support. The bill directs the California Ocean Protection Council to develop a statewide microplastics strategy and make policy recommendations to the Legislature by 2021. This important bill takes a scientific approach to addressing a significant pollution problem.
- **SB 1440** (Hueso) was passed on the final day of session. The bill directs the California Public Utilities Commission to consider establishing a statewide biomethane procurement program. While the measure was significantly pared down from its original version, it still has value for the wastewater sector and CASA supported this bill.
- **SB 1215** (Hertzberg) was also passed late last week. The bill authorizes the State Water Resources Control Board and Regional Water Boards to order sewer service extensions to certain septic system users in disadvantaged communities. While CASA was working earnestly with the Senator to try to resolve several key issues with the bill, we ultimately had to take an [oppose position](#) in coordination with several other members of the local government community. We will be conveying our concerns with the bill to the Governor's office for his consideration.

CASA was involved in various other bills during the 2018 Legislative Session. For a full list of bills and CASA's positions, [click here](#).



**California Special
Districts Association**
Districts Stronger Together

FLOOR ALERT – FILE ITEM # 322

LOCAL GOVERNMENT COALITION OPPOSES SB 1215 (HERTZBERG): SEPTIC TO SEWER SERVICE EXTENSIONS

The above listed statewide local government organizations must regrettably express our opposition to SB 1215 (Hertzberg), which grants new authority to the Water Boards to order local governments to extend sewer service to certain septic users in disadvantaged communities. The August 21 amendments did not adequately address local government concerns with the proposed approach outlined in the bill. As amended, the bill does the following:

- Gives broad new authority to the Water Boards to compel property owners who have functioning septic systems that aren't considered "inadequate" to connect to the sewer;
- Mandates a "standby charge" for residents who opt out of the service extension, even when there is no actual residential connection to the sewer system – this is legally questionable under Prop 218 and Prop 26;
- Excludes key sewer service providers from the process by failing to recognize the complicated nature of sewage collection and treatment systems, which are often jointly managed by multiple public agencies;
- Doesn't provide for due process for a local receiving sewer agency to contest the order for extension of service;
- Contains vague language relative to the types of local agency and residential costs that would be required to be considered in the Water Board's financing package.

Disadvantaged communities with failing septic systems should be provided the opportunity to connect to a sanitary sewer system, and the key impediments are proximity to an existing sewer system and cost. Unfortunately, the approach outlined in SB 1215 fails to solve these problems and doesn't represent a practical solution to realizing and achieving this worthy objective.

For these reasons, the local government organizations listed above urge your "NO" vote on SB 1215 on the Assembly Floor.

For more information contact: Jessica Gauger (CASA) jgauger@casaweb.org; Cara Martinson (CSAC) cmartinson@counties.org; Erin Evans-Fudem (League) eevansfudem@cacities.org; Mary-Ann Warmerdam (RCRC) MWarmerdam@rcrcnet.org; Rylan Gervase (CSDA) rylang@cdda.net; Pamela Miller (CALAFCO) pmiller@calafco.org



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

MEMORANDUM

DATE: 20 September 2018

TO: Board of Commissioners

FROM: Logan Olds, General Manager *LO*

SUBJECT: General Manager Report: Revisions to JPA Agreement

At the August 16 Board meeting it was the consensus of the Board to proceed with addressing the technical issues associated with VVWRA staffing, financial planning and operational expenses as it relates to the draft JPA agreement to resolve the flow diversion and withholding of funds issues. The goal is to complete the body of work necessary to achieve consensus on a final draft of the revised JPA by the VVWRA Board meeting on December 20, 2018.

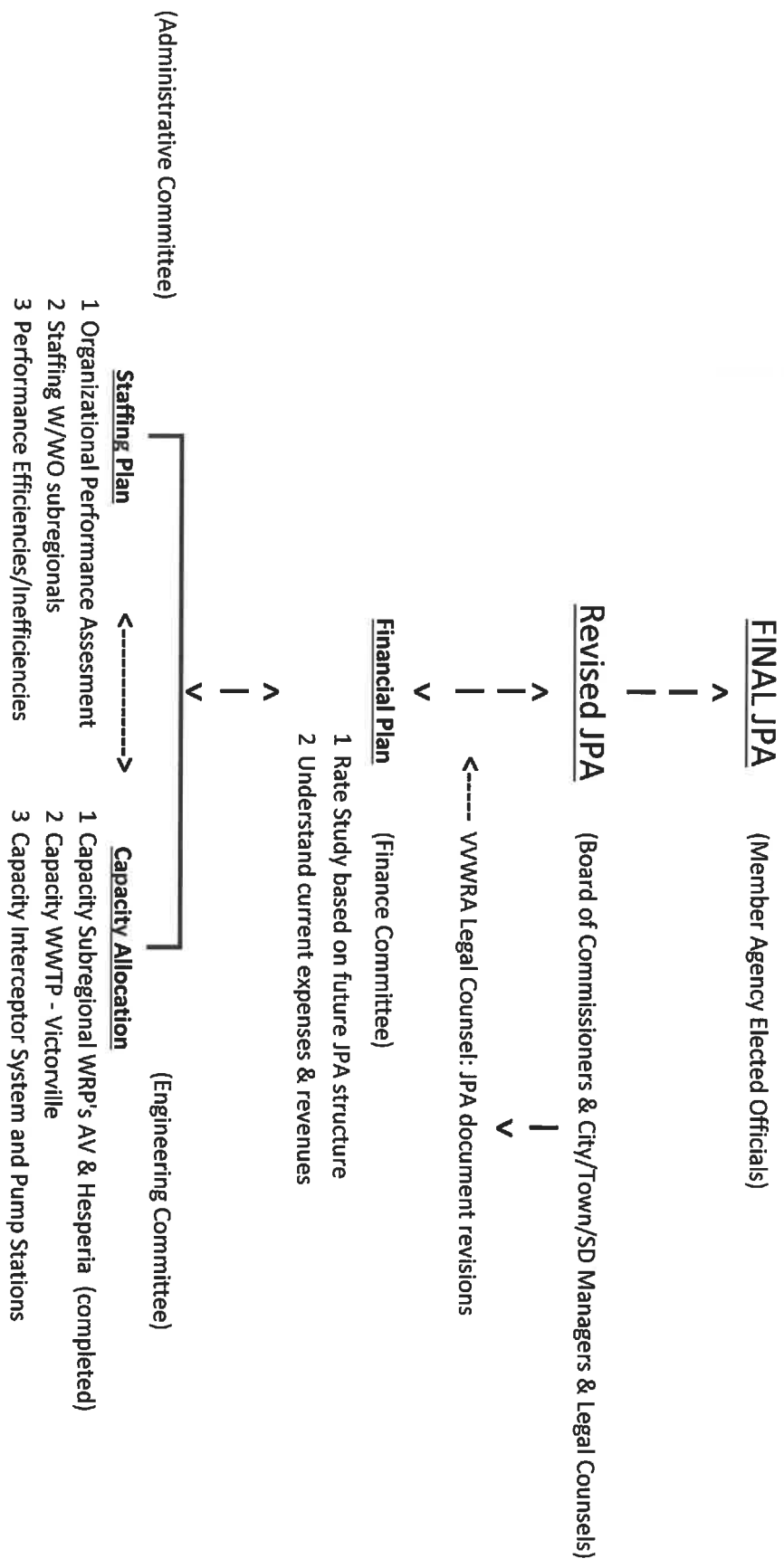
Attached is a flow chart detailing the process that VVWRA staff will utilize to address the questions arising from sections; 12 Capacity Ownership, 39 Reimbursement and Payment and 42 Operation and Maintenance Expenses in the revised JPA agreement. This will require information to be prepared concurrently for the following subject matter:

1. Evaluation of staff positions and expenses to restructure VVWRA to operate and maintain the existing westside wwtp and with or without the subregionals. Consultant, Nikki Salas, expected completion October 2018.
2. Evaluation of operational efficiencies/inefficiencies, staff morale and overall organizational performance. Proposed Consultant; Robert DeLoach, anticipated completion late November 2018
3. Capacity evaluation of the subregional water reclamation plants, completed.
4. Capacity of the Westside WWTP in Victorville. Proposed Consultant Carollo Engineering, anticipated completion date of capacity portion only, late November 2018.
5. Capacity of the Interceptor System. Proposed Consultant Dudek Engineering, anticipated completion date, late November 2018.
6. Completion of the Financial Plan and Rate Study, Consultant; Raftelis anticipated completion date, late November.
 - a. Staff will begin providing Raftelis existing financial information to build the rate model. As information is developed related to the Member Entities allocation of capacity and associated issues it will be provided to Raftelis for modeling.

VVWRA has successfully completed this process three times since 2006. However, those situations required significantly more time and were less extensive than the Board has requested at this time. The Member Entity ad-hoc Administrative, Finance and Engineering Committees have met since the August VVWRA Board meeting. At the meetings the relevant issues for each committee to resolve, methodology to resolve them and the proposed timeline was discussed. VVWRA staff have already scheduled meetings with the Finance and Engineering Committees to accommodate the December 20 deadline. Each of the Committees is engaged and shown a willingness to address the issues to facilitate the creation of a new

VVWRA JPA. Initially the Committees will meet independently to ensure that the core issues are agreed to in each of their respective areas of expertise, then the two committees will meet jointly to address the capacity issues, questions and concepts. The Commissioners associated with each of the Committees will be engaged as each issue reaches resolution. During this time the Committees information will be used to prepare the addendum to the JPA which is intended to allocate capacity amongst the Member Entities and define the future role of VVWRA in service to the Member Entities.


The attached flow chart shows the area of work to be addressed by each of the Committees and how they would interact and share information. It is believed that at the same time as the Committees are working on the technical issues that the Attorneys, City/Town/Special District Managers and VVWRA Board will revise the language in the body of the JPA until consensus is reached. The goal of the Committees efforts is to provide the information necessary to draft the Capacity Allocation Addendum to the JPA.





Victor Valley Wastewater Reclamation Authority
A Joint Powers Authority and Public Agency of the State of California

20111 Shay Rd. Victorville, CA 92394
 Telephone: (760) 246-8638
 Fax: (760) 948-9897

DATE: August 31, 2018
TO: Logan Olds
 General Manager
FROM: Chieko Keagy 
 Controller
SUBJECT: Cash Disbursements Register

RECOMMENDED ACTION

It is recommended that the Board of Commissioners approve the cash disbursements and payroll register for the Victor Valley Wastewater Reclamation Authority.

BACKGROUND

The Cash Disbursements Register totals represented below are for the month of AUGUST 2018, check numbers 121839- 121924 and ACH's.

<i>Accounts Payable</i>			
<i>Checks</i>	<i>ACH's and EFT's</i>	<i>Payroll</i>	<i>Total</i>
\$237,402.05	\$625,064.32	\$447,956.75	\$1,310,423.12

Victor Valley Reclamation Authority
Cash Disbursement Register
From 8/1/18 through 8/31/18

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Matching Document Number	Check Amount
121839	8/2/2018	8/2/2018	01	A-Action Automotive	2500 HD Repairs	62585	\$ 393.28
121840	8/2/2018	8/2/2018	01	Aquatic Bioassay / Consult Inc.	Lab Testing	VIC0518.0428	\$ 230.00
121841	8/2/2018	8/2/2018	01	Atmospheric Analysis And Consulting, Inc	Analysis and Reporting	A-18612	\$ 1,890.00
121842	8/2/2018	8/2/2018	01	Bia / Baldy View Chapter	Exhibitor Sponsorship	BV 569	\$ 599.00
121843	8/2/2018	8/2/2018	01	Blackline Safety Corp	Loner Device Lease	INV2010826	\$ 210.00
121844	8/2/2018	8/2/2018	01	Brithinee Electric	Primary Influent MOV Uninterrupted Power Sou	SI08064	\$ 8,673.68
121845	8/2/2018	8/2/2018	01	City Employees Associates	Supervisors Dues Deductions	073018	\$ 50.00
121846	8/2/2018	8/2/2018	01	Crystal Chrysler	Battery Charger	Q92896	\$ 776.90
121847	8/2/2018	8/2/2018	01	Detection Instrument Corporation	Oda-logger Calibrations	2703-40230	\$ 381.47
121847	8/2/2018	8/2/2018	01	Detection Instrument Corporation	Odalogger Service	2702-40051	\$ 1,496.69
121848	8/2/2018	8/2/2018	01	Flyers Energy, Llc	Fuel	CFS-1650718	\$ 1,530.50
121849	8/2/2018	8/2/2018	01	G.A. Osborne Pipe & Supply	Fittings	393622	\$ 297.74
121849	8/2/2018	8/2/2018	01	G.A. Osborne Pipe & Supply	Piping Material	393620	\$ 664.69
121849	8/2/2018	8/2/2018	01	G.A. Osborne Pipe & Supply	Piping Supplies	393621	\$ 406.31
121850	8/2/2018	8/2/2018	01	G.P. Electric	Mixer Thermostat Repair	98181	\$ 1,093.49
121851	8/2/2018	8/2/2018	01	Haaker Equipment Company	Vactor Truck Repairs	W51411	\$ 6,355.21
121852	8/2/2018	8/2/2018	01	Meece	MEEC Sponsorship	995	\$ 2,500.00
121853	8/2/2018	8/2/2018	01	New Pig Corporation	New Pig Absorbent	4816798-00	\$ 412.51
121854	8/2/2018	8/2/2018	01	Orkin	AV Subregional Pest Control	175329270	\$ 620.00
121854	8/2/2018	8/2/2018	01	Orkin	AV Subregional Pest Control	175329273	\$ 150.00
121855	8/2/2018	8/2/2018	01	Prudential Overall Supply	Uniform Service	22648331	\$ 511.39
121856	8/2/2018	8/2/2018	01	San Bernardino County Fire Department	AV Subregional CUPA Permit	IN0131741	\$ 420.00
121856	8/2/2018	8/2/2018	01	San Bernardino County Fire Department	Hesperia Subregional CUPA Permit	IN0131633	\$ 420.00
121857	8/2/2018	8/2/2018	01	Scott Equipment, Inc	Wear Pads	E21751	\$ 449.18
121858	8/2/2018	8/2/2018	01	Snap On Industrial	Tools	ARV / 36746154	\$ 207.83
121859	8/2/2018	8/2/2018	01	Town & Country Tire	2500 HD Tires	253226	\$ 734.25
121860	8/2/2018	8/2/2018	01	Verizon Wireless	Acct# 472015939-00013	9810899625	\$ 114.03
121861	8/2/2018	8/2/2018	01	City Of Victorville / Sanitation	Trash Service	07302018	\$ 5,398.54
121862	8/10/2018	8/10/2018	01	A-Action Automotive	Explorer Repairs	62634	\$ 1,561.90
121863	8/10/2018	8/10/2018	01	Liberty Utilities- Apple Valley Ranchos Water	AV Subregional Water Usage- Otoe FS	072618	\$ 97.30
121864	8/10/2018	8/10/2018	01	Applied Industrial Technologies	Air Filter	7013933365	\$ 1,978.25
121864	8/10/2018	8/10/2018	01	Applied Industrial Technologies	Ball Valve	7014005359	\$ 225.82
121865	8/10/2018	8/10/2018	01	Bnsf Railway Company	Pipeline Carrying Raw Sewage	18071584	\$ 26,602.00
121866	8/10/2018	8/10/2018	01	Daily Press	Desert Knolls Wash RFP Public Notice	300159280	\$ 917.20
121867	8/10/2018	8/10/2018	01	Fastenal	Cane Bolts	CAVIC61345	\$ 452.33
121868	8/10/2018	8/10/2018	01	G.A. Osborne Pipe & Supply	Brass Ball Valve	393793	\$ 135.41
121869	8/10/2018	8/10/2018	01	Hi-Desert Communications	Site Rent	37941	\$ 100.00
121870	8/10/2018	8/10/2018	01	Hi Grade Materials Co.	Sand Slurry	0042287	\$ 4,137.60
121871	8/10/2018	8/10/2018	01	Luhdorff And Scalmanini Consulting Engineers	3 Year Groundwater Reporting	34054	\$ 5,175.75
121872	8/10/2018	8/10/2018	01	Orkin	Pest Control	173068527	\$ 390.61
121873	8/10/2018	8/10/2018	01	Prudential Overall Supply	Uniform Service	22652289	\$ 511.39
121874	8/10/2018	8/10/2018	01	Southern Counties Lubricants	Low Ash Oil	371371	\$ 8,421.90
121874	8/10/2018	8/10/2018	01	Southern Counties Lubricants	Rando HD 100	651153	\$ 1,059.57
121875	8/10/2018	8/10/2018	01	Soils Solutions Inc	CC8 Concrete Cloth	051618	\$ 4,200.63
121876	8/10/2018	8/10/2018	01	Swains Electric Motor Service	AVWRP Mixer Repair	B07821	\$ 1,468.00
121877	8/10/2018	8/10/2018	01	Tesco Controls Inc	Bi-Yearly Cal	0065260-IN	\$ 5,950.00
121878	8/15/2018	8/15/2018	01	Concorde Communications	Telephone Line and Answering Service	180800021	\$ 104.90
121879	8/15/2018	8/15/2018	01	Gfoa	FY 2019 Budget Award Application	08152018	\$ 280.00
121880	8/15/2018	8/15/2018	01	Jocko'S Pub And Grill	IPP Fee Overpayment	JOCK081518	\$ 400.00
121881	8/15/2018	8/15/2018	01	Konica Minolta Business Solutions	Printing Charges	9004842795	\$ 714.18
121882	8/15/2018	8/15/2018	01	Luhdorff And Scalmanini Consulting Engineers	3 Year Groundwater Reporting	34063	\$ 10,622.25
121883	8/15/2018	8/15/2018	01	Mojave Copy & Printing	VVWRA O&M Sign	105384	\$ 420.76
121884	8/15/2018	8/15/2018	01	Prudential Overall Supply	Uniform Service	22655618	\$ 521.07
121885	8/15/2018	8/15/2018	01	United Rentals Northwest, Inc	Forklift Rental	157092108-004	\$ 60.06
121886	8/15/2018	8/15/2018	01	Victor Valley College Foundation	High Desert Opportunity Summit	HDOS18	\$ 1,000.00
121887	8/20/2018	8/20/2018	01	Donna Anthony	Retiree Health Benefit Allowance	ANTH081518	\$ 438.00
121888	8/20/2018	8/20/2018	01	Dan Sentman	Retiree Health Benefit Allowance	SENT081518	\$ 212.97
121889	8/22/2018	8/22/2018	01	A&A Alternators And Starters	Starter Rebuild	2422	\$ 1,500.00
121890	8/22/2018	8/22/2018	01	American Crane Training & Consulting	Crane Training	CCO 747-12110	\$ 3,040.00
121891	8/22/2018	8/22/2018	01	Larry Bird	Commissioner Stipend	BIRD081618	\$ 100.00
121892	8/22/2018	8/22/2018	01	Flyers Energy, Llc	Gasoline	CFS-1658044	\$ 1,273.25
121893	8/22/2018	8/22/2018	01	Hi-Desert Window Washing	Window Washing	25396	\$ 307.00
121894	8/22/2018	8/22/2018	01	Hi Desert Fire Protection Inc	Annual Fire Extinguisher Service	336781	\$ 295.12
121895	8/22/2018	8/22/2018	01	Hi Grade Materials Co.	Sand Slurry	0042747	\$ 2,758.40
121895	8/22/2018	8/22/2018	01	Hi Grade Materials Co.	Sand Slurry	0043008	\$ 2,672.20
121895	8/22/2018	8/22/2018	01	Hi Grade Materials Co.	Sand Slurry	0043117	\$ 2,672.20
121895	8/22/2018	8/22/2018	01	Hi Grade Materials Co.	Sand Slurry	0043396	\$ 2,672.20
121896	8/22/2018	8/22/2018	01	James N. Kennedy	Commissioner Stipend	KENN081618	\$ 100.00
121897	8/22/2018	8/22/2018	01	Mojave Desert A.Q.M.D.	Application for Turblex	ICE A	\$ 274.00
121897	8/22/2018	8/22/2018	01	Mojave Desert A.Q.M.D.	Application for Turblex	ICE B	\$ 274.00
121898	8/22/2018	8/22/2018	01	Scott Nassif	Commissioner Stipend	NASS081618	\$ 100.00
121899	8/22/2018	8/22/2018	01	Orkin	Pest Control	173068528	\$ 390.61
121900	8/22/2018	8/22/2018	07	Ponton Industries, Inc.	Valve	19591-22545	\$ 2,684.73
121901	8/22/2018	8/22/2018	01	Prudential Overall Supply	Uniform Service	22659195	\$ 501.93
121902	8/22/2018	8/22/2018	01	Sparkletts Drinking Water	Bottled Water	14877093 081918	\$ 1,927.04
121903	8/22/2018	8/22/2018	01	United Rentals Northwest, Inc	Loader Rental	159654069-001	\$ 3,271.64
121904	8/22/2018	8/22/2018	01	Vvcvrf	Refreshment Sponsor	VVRO18	\$ 1,000.00
121905	8/22/2018	8/22/2018	01	Cintas Corporation	First Aid Supplies	5011463713	\$ 346.13
121906	8/30/2018	8/30/2018	01	Aicpa	Keagy AICPA Membership	080118	\$ 415.00

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Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Matching Document Number	Check Amount
121906	8/24/2018	8/24/2018	01	Charter Communications	Telephone Charges	0013529080718	\$ 4,857.12
121907	8/30/2018	8/30/2018	01	Atmospheric Analysis And Consulting, Inc	Analysis and Reporting	A-18716	\$ 1,385.00
121907	8/24/2018	8/24/2018	01	Southern California Edison	Hesperia Subregional Electricity- Fresno	081018	\$ 382.94
121908	8/24/2018	8/24/2018	01	Southern California Edison	AV Subregional Electricity- Otoe	081118	\$ 17,126.43
121908	8/30/2018	8/30/2018	01	Bio Vir Lab, Inc.	Sampling	180827	\$ 1,240.00
121909	8/30/2018	8/30/2018	01	Brithinee Electric	EQ Aerator Motor	S108219	\$ 1,463.25
121909	8/24/2018	8/24/2018	01	Southwest Gas Company	Hesperia Subregional Natural Gas- Fresno	080818	\$ 27.82
121910	8/24/2018	8/24/2018	01	Southwest Gas Company	Hesperia Subregional Natural Gas- Appaloosa	08082018	\$ 125.20
121910	8/30/2018	8/30/2018	07	Evans-Hydro	Pump Repair	160556	\$ 13,620.99
121911	8/24/2018	8/24/2018	01	Southwest Gas Company	AV Subregional Natural Gas- Otoe	080918	\$ 76.50
121911	8/30/2018	8/30/2018	01	G.A. Osborne Pipe & Supply	Material	394336	\$ 1,014.08
121911	8/30/2018	8/30/2018	01	G.A. Osborne Pipe & Supply	Piping Supplies	394203	\$ 212.36
121912	8/30/2018	8/30/2018	01	Harrington Industrial Plastics	Ball Valve	012J0647	\$ 455.71
121912	8/24/2018	8/24/2018	01	Ups	Express Shipping	0000615V7V328	\$ 244.03
121913	8/30/2018	8/30/2018	01	Hesperia Unified School District	Olds Business Cards	190061	\$ 35.72
121914	8/30/2018	8/30/2018	01	Hi Grade Materials Co.	Concrete Delivery	0043848	\$ 4,676.35
121914	8/30/2018	8/30/2018	01	Hi Grade Materials Co.	Concrete Delivery	0043860	\$ 2,672.20
121915	8/30/2018	8/30/2018	01	Konica Minolta Business Solutions	Big Printer Lease	32234424	\$ 734.73
121915	8/30/2018	8/30/2018	01	Konica Minolta Business Solutions	Individual Printer Leases	32260192	\$ 662.95
121916	8/30/2018	8/30/2018	01	Norman S. Wright Climatec Mechanical Equipm	Blower Bldg Aid Handling Unit Media	0682514-IN	\$ 216.40
121917	8/30/2018	8/30/2018	01	Norman S. Wright Climatec Mechanical Equipm	Blower Bldg Aid Handling Unit Media	0682954-IN	\$ 22,936.87
121918	8/30/2018	8/30/2018	01	Prudential Overall Supply	Uniform Service	22662694	\$ 498.45
121919	8/30/2018	8/30/2018	01	Quantum Labs, Inc	Nitrile Gloves	SO-429874	\$ 941.50
121920	8/30/2018	8/30/2018	01	Scott Equipment, Inc	Brown Bear Labor	S10780	\$ 290.39
121921	8/30/2018	8/30/2018	01	Verizon Wireless	Acct# 472015939-00001	9812754402	\$ 2,095.60
121921	8/30/2018	8/30/2018	01	Verizon Wireless	Acct# 472015939-00013	9812754403	\$ 106.67
121922	8/30/2018	8/30/2018	01	City Of Victorville / Sanitation	Trash Service	3065631	\$ 5,829.27
121923	8/30/2018	8/30/2018	01	Yale Chae Equipment And Services	Loader Parts	S189418	\$ 5,572.91
121923	8/30/2018	8/30/2018	01	Yale Chae Equipment And Services	Loader Parts	S189419	\$ 3,990.06
121924	8/30/2018	8/30/2018	01	Cintas Corporation	AED Mgmt 1 Year	9030735367	\$ 188.56
Total Checks							237,402.05
00000615V7V31	8/10/2018	8/10/2018	01	Ups	Express Shipping	0000615V7V308	\$ 39.23
00000615V7V31	8/10/2018	8/10/2018	01	Ups	Express Shipping	0000615V7V318	\$ 36.79
0023539-1	8/2/2018	8/2/2018	01	A.D.S. Corp.	Flow Monitoring	12928.22-0718	\$ 8,333.28
0023539-10	8/2/2018	8/2/2018	01	Ilink Business Management	AV Subregional Custodial Services	36181	\$ 527.76
0023539-10	8/2/2018	8/2/2018	01	Ilink Business Management	AV Subregional Custodial Services	33535	\$ 527.76
0023539-10	8/2/2018	8/2/2018	01	Ilink Business Management	AV Subregional Janitorial Services	37625	\$ 263.88
0023539-10	8/2/2018	8/2/2018	01	Ilink Business Management	Janitorial Services	156	\$ 2,569.76
0023539-11	8/2/2018	8/2/2018	01	Masters Electric	CEC Battery Installation Project	8175	\$ 20,952.00
0023539-12	8/2/2018	8/2/2018	01	Principal Life Ins. Co.	Dental and Vision Insurance	07182018	\$ 3,287.15
0023539-13	8/2/2018	8/2/2018	01	Protection One	1S Battery	123946302	\$ 17.24
0023539-13	8/2/2018	8/2/2018	01	Protection One	Protection One Monitoring	123918828	\$ 811.88
0023539-14	8/2/2018	8/2/2018	01	Pumping Solutions Inc	Sampling Tanks	3025604	\$ 1,090.88
0023539-15	8/2/2018	8/2/2018	01	Quinn Company	Additive	PCA10006375	\$ 7.69
0023539-15	8/2/2018	8/2/2018	01	Quinn Company	Remove and Install Battery	WOG00002524	\$ 1,148.40
0023539-16	8/2/2018	8/2/2018	01	T-Mobile	Mobil Hotspots	081318	\$ 61.82
0023539-17	8/2/2018	8/2/2018	01	Uc Regents	C131 CEC Renewable Energy Storage Project	81043-012	\$ 6,109.87
0023539-18	8/2/2018	8/2/2018	01	Underground Service Alert Of Southern Califon	Dig Alert Charges	720180791	\$ 72.70
0023539-19	8/2/2018	8/2/2018	01	Victor Valley Wastewater Employees Assoc	Employess Association Dues Deductions	07302018	\$ 612.50
0023539-2	8/2/2018	8/2/2018	01	Solenis Llc	Praestol	131334719	\$ 7,994.62
0023539-20	8/2/2018	8/2/2018	01	Xylem Water Solutions	UV Spare Parts	3556A22625	\$ 16,021.77
0023539-3	8/2/2018	8/2/2018	01	Biogas Engineering	CEC Battery Installatin Project	160-CEC	\$ 6,677.61
0023539-4	8/2/2018	8/2/2018	01	Culligan Water Conditioning	Water Softener	201807041401	\$ 470.00
0023539-5	8/2/2018	8/2/2018	01	D.K.F. Solutions Inc.	MSO Subscription	13972	\$ 350.00
0023539-6	8/2/2018	8/2/2018	01	Ehs International Inc.	Electrical Safety Training	3-17241	\$ 2,550.00
0023539-7	8/2/2018	8/2/2018	01	Graham Equipment	Dog Food Hauling	015295	\$ 400.00
0023539-8	8/2/2018	8/2/2018	01	Grainger	Packing Seal	9848721958	\$ 62.84
0023539-8	8/2/2018	8/2/2018	01	Grainger	Spill Kit Refill	9854623791	\$ 490.13
0023539-8	8/2/2018	8/2/2018	01	Grainger	Valves	9855663895	\$ 128.23
0023539-9	8/2/2018	8/2/2018	01	Hach Company	Ammonia	11065977	\$ 59.04
0023539-9	8/2/2018	8/2/2018	01	Hach Company	Buffer Solutions Kit	11065105	\$ 146.56
0023867-1	8/9/2018	8/9/2018	07	2G Energy Inc.	Analyzer	415-081800542	\$ 5,924.36
0023867-10	8/9/2018	8/9/2018	01	Grainger	Sports Drink Mix	9864035226	\$ 175.80
0023867-10	8/9/2018	8/9/2018	01	Grainger	Tools	9847869899	\$ 1,130.58
0023867-10	8/9/2018	8/9/2018	01	Grainger	Window AC W/ Heat	9858563092	\$ 837.47
0023867-11	8/9/2018	8/9/2018	07	Hug Engineering, Inc.	Performance Testing	18-0468	\$ 6,442.12
0023867-12	8/9/2018	8/9/2018	01	Ingersoll Rand	Blower Building Compressor Service	30695607	\$ 3,275.65
0023867-13	8/9/2018	8/9/2018	01	Mcgrath Rentcorp	Admin Office Lease	1707190	\$ 3,995.37
0023867-14	8/9/2018	8/9/2018	07	Trimax Systems	SCADA Ignition Implementation Phase #2	109232	\$ 25,000.00
0023867-15	8/9/2018	8/9/2018	01	Walters Wholesale Electric	Lamps	S111091903.001	\$ 550.02
0023867-2	8/9/2018	8/9/2018	01	All Covered	Cisco Contract	851459	\$ 7,097.00
0023867-3	8/9/2018	8/9/2018	01	American Express	American Express	072818	\$ 7,199.27
0023867-4	8/9/2018	8/9/2018	01	Biogas Power Systems- Mojave, Llc	Biogas Project	VVWRA-18-08	\$ 64,119.27
0023867-5	8/9/2018	8/9/2018	01	Brenntag Pacific, Inc	Sodium Hypochlorite	BP1861782	\$ 1,920.07
0023867-6	8/9/2018	8/9/2018	09	Carollo Engineers, A Professional Corporation	Carollo Desert Knolls Wash	0167827	\$ 10,551.00
0023867-7	8/9/2018	8/9/2018	01	Fedak & Brown Llp	FYE 2018 Audit	073118	\$ 1,800.00
0023867-8	8/9/2018	8/9/2018	01	C.S. Amsco	Limit Switch	13836	\$ 1,080.09
0023867-9	8/9/2018	8/9/2018	01	D.K.F. Solutions Inc.	MSO Monthly	14012	\$ 350.00
0023967	8/14/2018	8/14/2018	09	Carollo Engineers, A Professional Corporation	Subregional ESDC	0164945	\$ 60,522.50
0024116-1	8/15/2018	8/15/2018	01	Advanced Systems	Fleet Vehicle Wash	455	\$ 305.00
0024116-10	8/15/2018	8/15/2018	01	Mc Master-Carr Supply Co.	Maintenance Tools	700250047	\$ 509.25
0024116-11	8/15/2018	8/15/2018	01	Quinn Company	OGPS Annual Generator PM	WOG00002775	\$ 1,824.75
0024116-12	8/15/2018	8/15/2018	01	U.S. Bank	Cal Card Charges July 2018	07232018	\$ 4,728.91

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Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Matching Document Number	Check Amount
0024116-13	8/15/2018	8/15/2018	01	Waukesha-Pearce Industries, Llc	Parts	569738	\$ 245.87
0024116-13	8/15/2018	8/15/2018	01	Waukesha-Pearce Industries, Llc	Parts	581220	\$ 58.38
0024116-2	8/15/2018	8/15/2018	07	C.S. Amsco	Digester Plug Valves	13892	\$ 25,857.46
0024116-2	8/15/2018	8/15/2018	01	C.S. Amsco	Plug Valves	13899	\$ 9,785.88
0024116-3	8/15/2018	8/15/2018	01	Ehs International Inc.	Confined Space Training	3-17351	\$ 1,350.00
0024116-4	8/15/2018	8/15/2018	01	E.S. Babcock & Sons, Inc.	Lab Testing July 2018	08012018	\$ 29,651.00
0024116-5	8/15/2018	8/15/2018	01	Grainger	Maintenance Tools	9843683435	\$ 850.98
0024116-6	8/15/2018	8/15/2018	01	Hach Company	Lab Supplies	11072502	\$ 765.12
0024116-6	8/15/2018	8/15/2018	01	Hach Company	Lab Supplies	11078862	\$ 94.71
0024116-7	8/15/2018	8/15/2018	01	Ilink Business Management	AV Subregional Custodial Services	38944	\$ 263.88
0024116-7	8/15/2018	8/15/2018	01	Ilink Business Management	AV Subregional Custodial Services	40355	\$ 263.88
0024116-7	8/15/2018	8/15/2018	01	Ilink Business Management	Janitorial Service	157	\$ 2,569.76
0024116-8	8/15/2018	8/15/2018	01	Innerline Engineering	Otoe Wetwell Cleaning	170555	\$ 4,592.00
0024116-9	8/15/2018	8/15/2018	01	Larry Walker Associates	NPDES Permit Renewal	00054.45-10	\$ 645.00
0024116-9	8/15/2018	8/15/2018	01	Larry Walker Associates	Pretreatment Program Assistance	00054.41-8	\$ 900.00
0024116-9	8/15/2018	8/15/2018	01	Larry Walker Associates	Regulatory Assistance	00054.49-8	\$ 387.00
0024325-1	8/20/2018	8/20/2018	01	Billings, Richard	Retiree Health Benefit Allowance	BILL081518	\$ 438.00
0024325-10	8/20/2018	8/20/2018	01	Mark Mcgee	Retiree Health Benefit Allowance	MCGE000	\$ 438.00
0024325-11	8/20/2018	8/20/2018	01	Lillie Montgomery	Retiree Health Benefit Allowance	MONT081518	\$ 197.76
0024325-12	8/20/2018	8/20/2018	01	L. Christina Nalian	Retiree Health Benefit Allowance	NAL081518	\$ 438.00
0024325-13	8/20/2018	8/20/2018	01	Nave, Patrick	Retiree Health Benefit Allowance	NAVE081518	\$ 438.00
0024325-2	8/20/2018	8/20/2018	01	Roy Dagnino	Retiree Health Benefit Allowance	DAGI081518	\$ 438.00
0024325-3	8/20/2018	8/20/2018	01	Tim Davis	Retiree Health Benefit Allowance	DAVI081518	\$ 438.00
0024325-4	8/20/2018	8/20/2018	01	Terrie Gossard Flint	Retiree Health Benefit Allowance	FLI081518	\$ 249.30
0024325-5	8/20/2018	8/20/2018	01	Gillette, Randy	Retiree Health Benefit Allowance	GILLO81518	\$ 438.00
0024325-6	8/20/2018	8/20/2018	01	Thomas Hinojosa	Retiree Health Benefit Allowance	HINO081518	\$ 438.00
0024325-7	8/20/2018	8/20/2018	01	Patricia J Johnson	Retiree Health Benefit Allowance	JOHN081518	\$ 183.34
0024325-8	8/20/2018	8/20/2018	01	Olin Keniston	Retiree Health Benefit Allowance	KENI081518	\$ 249.30
0024325-9	8/20/2018	8/20/2018	01	Randy Main	Retiree Health Benefit Allowance	MAIN081518	\$ 438.00
0024498	8/22/2018	8/22/2018	01	Travis Prine	Fed Ex Shipping Reimbursement	082018	\$ 97.74
0024499-1	8/22/2018	8/22/2018	01	Adjusters International, Inc.	DHS/OIG Audit Report	VVWRA01-013	\$ 11,500.00
0024499-2	8/22/2018	8/22/2018	07	Biogas Engineering	Anaerobic Digester Integration	200	\$ 1,800.00
0024499-2	8/22/2018	8/22/2018	01	Biogas Engineering	Investigation of Power Quality Issues	201	\$ 5,800.00
0024499-3	8/22/2018	8/22/2018	01	Cdw Government, Inc	Battery Return	KBW1610	\$ (1,107.94)
0024499-3	8/22/2018	8/22/2018	01	Cdw Government, Inc	Mounts	NPK6419	\$ 127.46
0024499-3	8/22/2018	8/22/2018	01	Cdw Government, Inc	Samsung LED TV	NSV6351	\$ 1,155.70
0024499-4	8/22/2018	8/22/2018	01	Evoqua Water Technologies Llc	Bioxide	90365930	\$ 9,058.76
0024499-5	8/22/2018	8/22/2018	01	Gierlich Mitchell, Inc.	Netzsch Pump	15309	\$ 20,307.31
0024499-6	8/22/2018	8/22/2018	01	Grainger	Container	9871071867	\$ 321.50
0024499-6	8/22/2018	8/22/2018	01	Grainger	Disposable Gloves	9868178824	\$ 281.98
0024499-6	8/22/2018	8/22/2018	01	Grainger	Filter	9868102469	\$ 1,966.66
0024499-6	8/22/2018	8/22/2018	01	Grainger	Floor Making Tape	9874766026	\$ 45.75
0024499-6	8/22/2018	8/22/2018	01	Grainger	Handheld Flashlight	9864982369	\$ 291.04
0024499-6	8/22/2018	8/22/2018	01	Grainger	Tools	9872076410	\$ 1,235.05
0024499-7	8/22/2018	8/22/2018	07	Trimax Systems	SCADA Ignition Implementation Phase #2	109282	\$ 25,000.00
0024499-8	8/22/2018	8/22/2018	01	U.S.A. Bluebook	Net and Poles	656671	\$ 337.47
0024499-9	8/22/2018	8/22/2018	01	Waxie Sanitary Supply	Cleaning Supplies	77640347	\$ 1,222.31
0024937-1	8/30/2018	8/30/2018	01	2G Energy Inc.	Parts	415-081800605	\$ 1,645.44
0024937-10	8/30/2018	8/30/2018	01	Industrial Solution Services, Inc	Urea Solution	17533	\$ 1,945.51
0024937-11	8/30/2018	8/30/2018	01	Lara Landscaping	AV Subregional Weed Removal	483	\$ 5,250.00
0024937-12	8/30/2018	8/30/2018	01	Principal Life Ins. Co.	Dental and Vision Insurance 09/30/18	090118	\$ 3,287.15
0024937-13	8/30/2018	8/30/2018	01	U.S.A. Bluebook	Well Sounder Pro	662392	\$ 1,101.99
0024937-14	8/30/2018	8/30/2018	01	Victor Valley Wastewater Employees Assoc	Employee Association Dues	08312018	\$ 912.50
0024937-2	8/30/2018	8/30/2018	01	A.D.S. Corp.	Flow Monitoring	12928.22-0818	\$ 8,333.28
0024937-3	8/30/2018	8/30/2018	01	Bargain Byte	Fiber Optic Install - Microgrid	72018	\$ 2,087.20
0024937-3	8/30/2018	8/30/2018	01	Bargain Byte	Front Gate Parts and Repair	60418	\$ 734.88
0024937-3	8/30/2018	8/30/2018	01	Bargain Byte	Terminate CAT 6 Connectors	32018	\$ 500.00
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	CEQA Matters	827651	\$ 7,206.45
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	Contract Review	827667	\$ 1,275.10
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	Evaluation of Victorville Project	827668	\$ 1,911.60
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	FEMA Audit	827653	\$ 388.80
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	General - Retainer	827658	\$ 11,639.41
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	J.W. Fowler, Inc	827652	\$ 907.20
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	Labor Matters	827650	\$ 4,497.70
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	Projects	827654	\$ 406.32
0024937-4	8/30/2018	8/30/2018	01	Best, Best & Krieger, L.L.P.	State Revolving Fund Loans	827655	\$ 194.40
0024937-5	8/30/2018	8/30/2018	01	Brenntag Pacific, Inc	Ferric Delivery	BP1862544	\$ 1,937.72
0024937-5	8/30/2018	8/30/2018	01	Brenntag Pacific, Inc	Ferric Delivery	BP1864022	\$ 1,976.88
0024937-6	8/30/2018	8/30/2018	01	Culligan Water Conditioning	Bottled Water September	201808041401	\$ 502.90
0024937-7	8/30/2018	8/30/2018	01	Environmental Systems Research Institute, Inc.	Term ARCGIS Online License	93507656	\$ 500.00
0024937-8	8/30/2018	8/30/2018	01	Grainger	Filters	9878291492	\$ 1,966.66
0024937-8	8/30/2018	8/30/2018	01	Grainger	Lamps	9879254614	\$ 162.16
0024937-9	8/30/2018	8/30/2018	01	Ilink Business Management	AV Subregional Custodial Service	41363	\$ 263.88
0024938	8/30/2018	8/30/2018	01	Robert Hesse	SWRCB Certification Renewal	082918	\$ 150.00
073118 SOUT	8/1/2018	8/1/2018	01	Southwest Gas Company	AV Subregional Natural Gas- Otoe	07112018	\$ 41.76
07312018 SOUT	8/1/2018	8/1/2018	01	Southwest Gas Company	Hesperia Subregional Natural Gas- Appaloosa	071018	\$ 99.60
07312018 UPS	8/1/2018	8/1/2018	01	Ups	Express Shipping	0000615V7V288	\$ 326.77
081018SWG	8/10/2018	8/10/2018	01	Southwest Gas Company	Natural Gas	07242018	\$ 419.33
2760133	8/1/2018	8/1/2018	01	State Board Of Equalization	Sales Tax 2nd Quarter 2018	07262018	\$ 5,169.77
35870576	8/1/2018	8/1/2018	01	Hesperia Water District	Hesperia Subregional Water Usage	JUL192018	\$ 506.66
7312018 SOUT	8/1/2018	8/1/2018	01	Southwest Gas Company	Subregional Natural Gas- Fresno	07102018	\$ 27.55
82380696862229	8/10/2018	8/10/2018	01	Southern California Edison	Electricity	072818	\$ 69,321.43
828483	8/1/2018	8/1/2018	01	Konica Minolta Business Solutions	Big Printers Lease	32099466	\$ 351.02
828483	8/1/2018	8/1/2018	01	Konica Minolta Business Solutions	Individual Printer Lease	32130489	\$ 662.95
83950026112129	8/1/2018	8/1/2018	01	Southern California Edison	Hesperia Subregional Electricity- Appaloosa	71918	\$ 11,749.48
83950027692126	8/1/2018	8/1/2018	01	Southern California Edison	Hesperia Subregional Electricity- Fresno	7192018	\$ 357.33
83977752892129	8/1/2018	8/1/2018	01	Southern California Edison	AV Subregional Electricity- Otoe	07192018	\$ 17,048.04

**Victor Valley Reclamation Authority
Cash Disbursement Register
From 8/1/18 through 8/31/18**

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Matching Document Number	Check Amount
91000019002476	8/10/2018	8/10/2018	01	Lincoln Financial Group	Life and Disability Insurance	3714301894	\$ 3,493.56
91000019002476	8/10/2018	8/10/2018	01	Lincoln Financial Group	Life and Disability Insurance	3714302784	\$ 100.66
Total ACH & EFT's							\$ 625,064.32

ok 09/10/18
 APPROVED

Total Checks	\$	237,402.05
Total ACH and EFT	\$	625,064.32
Total Payroll - August 2018	\$	447,956.75
Total	\$	<u>1,310,423.12</u>

**MINUTES OF A REGULAR MEETING
REGULAR MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWVRA)
August 16, 2018**

CALL TO ORDER: Chair Jeff Rigney called the meeting to order at 8:01 am; in Conference Room D at Victorville City Hall, located at 14343 Civic Drive, Victorville California, with the following members present:

**ORO GRANDE (CSA 42) AND
SPRING VALLEY LAKE (CSA 64)
TOWN OF APPLE VALLEY
CITY OF VICTORVILLE
CITY OF HESPERIA**

**Jeff Rigney, Chair
Scott Nassif, Vice-Chair
Jim Kennedy, Secretary
Larry Bird, Treasurer**

VWVRA Staff and Legal Counsel:

**Logan Olds, General Manager
Kristi Casteel, Secretary to GM/Board
Piero Dallarda, Legal Counsel (BB&K)
Chieko Keagy, Contoller
Alton Anderson, Construction Manager
David Wylie, Safety & Communications Officer**

**Xiewi Wang, Senior Accountant
Robert Coromina, Director of Administration
Brad Adams, Lead Operator
Marcos Avila, Lead Mechanic
Eugene Davis, O&M Manager
Latif Laari, Business Application Manager**

Others Present:

**Nils Bentsen, City of Hesperia
Greg Snyder, Town of Apple Valley
Paul Russ, City of Hesperia
Brian Gengler, City of Victorville**

**Doug Robertson, Town of Apple Valley
Jim Cox, City of Victorville
Carl Coleman, MWA**

CLOSED SESSION

PUBLIC COMMENTS- CLOSED SESSION AGENDA

Chair Rigney asked if there were any comments from the public regarding any item on the Closed Session Agenda. Hearing none, he called for a motion to enter into Closed Session.

Commissioner Nassif made a motion to enter into Closed Session. Seconded by Commissioner Bird.

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

**VVWRA Regular Meeting Minutes
Thursday August 16, 2018
Page 2**

Chair Rigney called the meeting to order at 9:02 am.

REPORT FROM CLOSED SESSION

Piero Dallarda stated that there was no reportable action from closed session and Commissioner Kennedy recused himself from item 6 due to a potential conflict.

PUBLIC COMMENTS- REGULAR SESSION AGENDA

None

ANNOUNCEMENTS AND CORRESPONDENCE:

7. Possible conflict of interest issues

Commissioner Nassif is abstaining from any disbursements to Napa Auto Parts.

8. Southwest Gas Rate Increase Resulting from CPUC Decision Creating a Greenhouse Gas Balancing Account

CONSENT CALENDAR:

9. Approve July 2018 Disbursement Registers

Commissioner Nassif is abstaining from any disbursements to Napa Auto Parts.

10. Approve Minutes from the July 19, 2018 Regular Meeting

11. Recommendation to Purchase a Spare Stage Pump for the Apple Valley Pump Station

Commissioner Kennedy made a motion to approve the consent calendar, seconded by Commissioner Bird and approved by roll call vote with Commissioner Nassif abstaining from any disbursements to Napa Auto Parts.

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

ACTION & DISCUSSION ITEMS:

12. Discussion Regarding Use of State Revolving Fund Loan Proceeds

Manager Olds stated that at the conclusion of the last Board meeting he was directed to refer the question to the State. On page 12-3 of this agenda, you will see that the response from the State is “if the recipient has already paid the contractors with their own funds and we are reimbursing, they are eligible to use our funds as they wish.” Manager Olds stated that he is still waiting on a memo from legal counsel regarding the matter. Once the memo has been received, Manager Olds will bring the matter back to the Board.

13. Discussion Regarding Financial Plan and Rate Study

Manager Olds stated that at the last Board meeting there was discussion by the Board to move forward with the fundamental rate concept that are being considered in the revised Joint Powers Agreement. Manager Olds said that he would bring the materials that the Board adopted once more. Included in those documents are the original staff recommendation, the proposal from Raftelis and the minutes of the discussion that occurred in September of 2017. Although the Board awarded to Raftelis, the decision at the time was to move forward with the mediation and the discussions regarding the JPA until such a time that there was some type of frame work around which financial decisions could be made. This item does not require you to approve the retention of Raftelis because that has already occurred. This item is to authorize the General Manager to begin the process of evaluating the structural elements with the finance committee.

Commissioner Nassif made a motion to approve the recommendation, seconded by Commissioner Kennedy and approved by roll call.

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

14. Design of Office Addition to Eliminate Administration Trailers

Manager Olds stated that one of the subjects that came up during the financial meetings for the adoption of the FY 18-19 budget was that administrative staff is currently in nine trailers. Each of the trailers has their own heating/air conditioning systems attached to them. This system was intended to only occur for no more than three years and it is now going on five years. The cost has risen over \$10,000.00 on the lease during that time. The trailers use more electricity than the UV system at the plant does. It was the desire of the finance committee to move forward and address this issue. There is a local engineering firm that has this skill set and the cost is significantly less than the firms VVWRA normally uses that specialize in wastewater treatment.

VVWRA Regular Meeting Minutes
Thursday August 16, 2018
Page 4

Commissioner Nassif made a motion to approve the recommendation, seconded by Commissioner Bird and approved by roll call.

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

15. Sanitary Sewer Management Plan

Manager Olds stated all utilities that have collection systems are required to update their Sanitary Sewer Management Plan (SSMP) annually and then redo the entire document every ten years. Substantial changes have occurred to VVWRA's collection system over the last ten years which includes the Upper Narrows, the Santa Fe Interceptor, the Nanticoke Interceptor and the project to do Desert Knolls Wash as well as the Subregionals. In addition staff has been monitoring the collection system 24/7, 365. This is invaluable data. What is before the Board is just the audit. This takes a look at the existing plan and evaluates it based on what is occurring throughout the State for compliance. They would look for and identify any issues and then take those issues, prepare an RFP and then do the full SSMP. The distinction with this one, is that VVWRA desires to do hydraulic modeling because of the impact to capital projects as well as the impact to capacity for each of the member agencies to discharge to those lines. The hydraulic modeling is more costly. Staff may choose to move forward with this audit, staff may choose to move forward more rapidly with the hydraulic modeling and perhaps issue an RFP to pursue that modeling portion. It is anticipated that the entire SSMP, once staff knows where the deficiencies are, would be revised and updated during fiscal year 19-20 and brought before the Board for final adoption and then submittal to the State.

Commissioner Bird made a motion to approve the recommendation, seconded by Commissioner Nassif and approved by roll call.

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

16. Recommendation to Amend the 2018 Board Meeting Schedule

**VVWRA Regular Meeting Minutes
Thursday August 16, 2018
Page 5**

Item was tabled and Staff will issue a revision for the regularly scheduled meeting in September to be held at the Wastewater Treatment Plant and follow the meeting with a Workshop.

STAFF/PROFESSIONAL SERVICES REPORTS:

- 17. Financial and Investment Report – July 2018**
- 18. Operations & Maintenance Report – July 2018**
- 19. Environmental Compliance Department Reports – July 2018**
- 20. Septage Receiving Facility Reports – July 2018**
- 21. Safety & Communications Report – July 2018**

NEXT VVWRA BOARD MEETING:

Thursday, September 20, 2018 – Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

Chair Rigney thanked the Commission for sending him to pick up the award from NACWA. He stated that this was one of the better conferences that he has been to in his 34 years. This was a worldwide involved conference and very informative.

ADJOURNMENT

APPROVAL:


DATE: September 20, 2018 **BY:** _____

Approved by VVWRA Board Scott Nassif,
Secretary VVWRA Board of Commissioners



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Chieko Keagy, Controller 
TO: Logan Olds, General Manager
SUBJECT: Recommendation to Approve Paychex to Process Payroll

RECOMMENDATION

It is recommended that the Board of Commissioners authorize General Manager to contract with Paychex to perform payroll processing for annual cost not exceeding \$10,260 (one-time two clock purchase of \$4,200 and annual processing fee of \$6,060).

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel and Robert Coromina, Director of Administration.

BACKGROUND INFORMATION

ADP has handled payroll processing and tax filings for past several years. Considering its recent error and lack of consistent service level, the staff has searched for alternative companies. Due to the nature of services, the staff searched for firms based on the level of professional services. After comparing six companies' service levels, the staff found the following:

Name of Firms	Time Clock	PR Processing	Data Entry	Locality	Same Rep	PR Tax Filing	Transition Support
ADP	✓	✓				✓	
Paychex	✓	✓	✓	✓	✓	✓	✓
CBIZ	✓	✓				✓	
CheckMark	✓	✓		✓		✓	
Square Payroll		✓				✓	
HKP		✓				✓	

Based on the comparison result, the staff recommends Paychex to perform payroll processing and tax filings. The annual savings from changing the companies would be \$16,145 (computed as \$26,405 - \$10,260).

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-03-300-8170
Transfer Needed due to Insufficient Budget	Y[] N[X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$35,000.00
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$10,260.00
Change Order	Y[] N[]
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y[] N[]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

RELATED IMPACTS

Consistent local-based payroll services would benefit VVWRA with accurate and timely processing.

PAYCHEX Flex Time

Victor Valley Wastewater Reclamation Authority

AUTOMATE
YOUR Time
keeping process

Paychex Flex Time
Allows you to save
time, Reduce errors,
and Improve
Compliance.

The following pricing is based on your average monthly user count

PLEASE NOTE:

Monthly users are defined as employees on payroll

Monthly User Fee:

1 to 25 employees that use the system are charged a flat rate of \$99/per month

26 + employees are charged \$4/month per user

EX: \$4 x 30 user = \$120/month

Time off Accrual - \$.50/user per month

Biometric clock \$2400/Purchase Price
Maintenance add on is optional - \$360/Year

<i>Two Clocks (One-Time Fee)</i>	
<i>Clocks</i>	<i>④ \$3,600.00</i>
<i>Set-up</i>	<i>⑤ \$ 600.00</i>
	<i><u>\$4,200.00</u></i>

Proposal for 35 users Purchasing 2 Biometric Clocks with Time off Accruals:

④ \$3600 One time clock fee – Which includes a 25% discount!!
\$720 (Optional) maintenance agreement – Covers service on the clock

\$140/month user fee

\$0/month time off accrual fee – WAIVED!!

\$140/Total Monthly Fee $\$140.00 \times 12 \text{ months} = \text{③ } \$1,680.00$

One Time Set Up Fee:

⑤ \$600 – Which includes a 40% discount!!

Includes customization of the online site, unlimited WebEx training. Unlimited online/over the phone support and future upgrades.

Monthly Billing:

Monthly invoices will start at the beginning of the month following a 30 day implementation window.

Paige Sawyer
Paychex, Inc.
(585)218-6025
Fax: (855)631-6114
psawyer1@paychex.com

Proposal for Services

Company Information

Company Name Victor Valley Wastewater Email Address ckeagy@vwwra.com
 Contact Cheiko Keajy CPA Name N/A
 Title Payroll Controller Payroll Frequency Bi-Weekly
 Phone No. (760)-246-2888 No. of Employees 36

Processing Fee

\$ \$156.24/ Bi-Weekly

- Payroll Processing *Included*
- Taxpay *Included*
- Data Exports *Included*
- Employee Pay Options *Included*
- Standard Analytics and Reporting *Included*
- SUI Service *Included*
- Workers' Compensation Report and Service *Included*
- Employee Access Online *Included*
- New-Hire Reporting *Included*
- Garnishment Administration *Included*
- General Ledger Report and Service *Included*
- Labor Poster Kit *Included*
- Retirement Plan Summary Report *Included*
- Online HR Library *Included*
- Employee Handbook Builder *Included*
- Paychex Flex Onboarding Essentials *Included*
- Financial Wellness *Included*
- Tax Credit Service *Included*
- Paychex Employee Screening Essentials (15 Screens) *Included*

Value-Add Services

Paychex Flex Time Essentials \$ N/A
 _____ \$ _____
 _____ \$ _____

Delivery Method Courier

(online, courier, pickup, or mail)

\$ 11.50

Estimated Per-Pay-Period Total

\$ \$156.24

Implementation Fee

(One-time) \$ Waived

Annual Fee \$ 4,062.24

Employee Form W-2/Form 1099

(\$ 75 Base + \$ 6.75 employee)

* 75.00 + * 6.75 x 36 = * 318.00
Additional costs may apply

Processing Fee

① \$4,062.24

② 318.00

③ 1,680.00
 from FlexTime

\$6,060.24



Payroll • HR • Retirement • Insurance

paychex.com

Proposal Presented on 08 / 03 / 2018
 Valid for 30 days.
 Sales Representative Khalid Mokhtar



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Chieko Keagy, Controller and Latif Laari, Business Applications Manager

TO: Logan Olds, General Manager

SUBJECT: Recommendation to Add Tyler Licensing Module

ak *HL*

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to add Tyler licensing module to a contract with Tyler Technologies (Tyler) that the Board approved on February 15, 2018 for maintaining permits for Industrial Pretreatment Program (IPP) customers in the amount not exceeding \$6,605.00 (one-time \$4,000.00 plus annual maintenance \$2,605.00).

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel; and Robert Coromina, Director of Administration.

BACKGROUND INFORMATION

During Tyler accounting software implementation discussion, Tyler demonstrated the business licensing module used by customers, such as cities to issue and maintain business licenses. After viewing the demonstration of this licensing module, staff recommends the purchase and implementation of this module to issue and manage permits for VVWRA Industrial Pretreatment Program (IPP) customers.

Per VVWRA's National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements (WDR) permits, VVWRA is required to manage over 450 permits using four software packages:

1. *Synexus* to keep track of permits details (issuance and expiration dates).
2. *Lucity* to keep track of routine inspections, customers communication and any enforcement actions.
3. *Abila* accounting software to record IPP revenues and issue invoices.
4. *Operator 10* to keep track of septage and Fat Oil and Grease (FOG) hauler deliveries.

By purchasing Tyler's Incode Business License Module, the staff will be able to simplify the workflows associated with managing IPP permits using only one software for billing, issuing new permits, tracking inspections, and communication with permittees, eliminating duplication of work.

Further, by consolidating these workflows, the staff will be able to completely eliminate Synexus Software and its annual maintenance, realizing annual savings of \$1195.00. VVWRA will recoup the initial setup cost of \$4,000.00 in approximately 13 months.

FINANCIAL IMPACT

Fund 01 or 07		Fund 09	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	07-02-530-8120	Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y[] N[X]	Transfer Needed due to Insufficient Budget	Y[] N[]
If Transfer, from Which Account String or Reserve		If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$ 6,605.00 – FY2019	Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation		Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$	Outside Funding Source	\$
Original Contract Amount	\$ 180,737.00	Original Contract Amount	\$
Change Order	Y[X] N[]	Change Order	Y[] N[]
Contract after Change	\$187,342.00	Contract after Change	\$

Finance Approval:

RELATED IMPACTS

1. This licensing module would benefit VVWRA organization-wide, coordinating with IPP licensing, maintaining customer information, and billing.
2. It would also generate automated permit renewals.
3. It would manage permit lifecycle including issuances, charges, collections, and re-issuances.
4. Finally, it would minimize data entry errors and duplication of work across departments.



Sales Quotation For
 Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd
 Victorville , CA 92394-8539
 Phone: 7602488638

Quoted By: Kip Winget
 Quote Expiration: 11/2/2018
 Quote Name: Victor Valley Wastewater- Personnel
 Quote Number: 2018-54664
 Quote Description:

Tyler Software and Related Services - SaaS		One Time Fees			Annual Fee
Description	Impl. Hours	Impl. Cost	Data Conversion	# Years	
Customer Relationship Management Suite					
Business License	32	\$4,000	\$0		\$2,030
Tyler Hosted Applications					
Hosting User Fee	0	\$0	\$0		\$575
Sub-Total:	32	\$4,000	\$0	5	\$2,605
Summary					
Total Tyler SaaS					\$2,605
Total Tyler Services		\$4,000	\$0		\$0
Total Third Party Hardware, Software and Services		\$0	\$0		\$0
Summary Total		\$4,000			\$2,605

Comments

NOTICE- Travel Expenses are Not Included in totals. Travel Expenses will be billed as incurred based on Federal IRS per diem standards.

- Hosting User Fee includes 1 users



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Latif Laari, Business Applications Manager

TO: Logan Olds, General Manager

SUBJECT: Digester#1 Anaergia Mixing Package

RECOMMENDATION

It is recommended that the Board of Commissioners approve the Anaergia Mixing Package purchase of electric mixers for Digester#1 in the amount not to exceed of \$68,700.00.

REVIEW BY OTHERS

This recommendation has been prepared by Latif Laari, Business Applications Manager and reviewed by Alton Anderson, Construction Manager, Eugene Davis Operations and Maintenance Manager, Marco Avila Maintenance lead, Mauricio Marin electrical and Instrumentation Technologist II and Chieko Keagy, Controller

BACKGROUND INFORMATION

Staff continues to work on rebuilding anaerobic digesters 1-3 to allow for the eventual repair of the domes in digesters 4&5. As part of the re-commissioning of anaerobic digesters 1&3, staff identified the replacement of the existing hydraulic mixer in digester#1 as a priority. Proper mixing is an essential component of a functioning anaerobic digester. Inadequate mixing will lead to crust formation on the surface of the liquid and sedimentation on the bottom of the tank. The existing hydraulic mixer was installed at no cost to VVWRA during the Omnivore grant funded upgrade project in 2012. The hydraulic mixers were proven to be unreliable and ultimately have ceased to function.

The new electric mixer made by Anaergia is the product of years of field trials, including lessons learned from the hydraulic mixers at VVWRA and has proven to be a solution for mixing with high efficiency of viscous sludges with higher suspended solids. This is accomplished through an innovative design using high-torque and low-speed. The mixer will also be mounted on the existing box and rail infrastructure used for the hydraulic mixers. This reduces cost of installation and simplifies operation by allowing real-time adjustment and easy access for maintenance and inspection without requiring the tank to be removed from service.

Finally, the new electric mixer will optimize mixing efficiency while minimizing power consumption utilizing a feedback loop to adjust mixing speed in real time by continuously monitoring torque and mixer operation. To further reduce power consumption, the mixer may be operated intermittently, automatically powering on and off in discrete cycles. Staff evaluated other equipment and learned that the cost to convert to another technology was significantly more

expensive. Therefore, this request is to sole source the Anaergia Mixer Package so that the existing electrical and mechanical subsystems may be repurposed for these electric mixers. Anaergia is also providing the electric mixers to VVWRA below cost in appreciation of Staff's efforts in support of the CEC grant which tested the hydraulic mixers and assisted them in making the mechanical improvements integrated in to the electric mixers.

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07		
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-07-152-8105-9999	
Transfer from Reserve	Y []	N [X]
If Transfer, from Which Reserve		
Outside Funding Source if applicable		
Change Order	Y []	N [x]
Original Budget Amount	\$68,700.00	
Revised Original Contract Amount	\$	
Budget Remaining after the Recommendation	\$	
Contract after Change	\$	

Fund 09		
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)		
Transfer from Reserve	Y []	N []
If Transfer, from Which Reserve		
Outside Funding Source		
Change Order	Y []	N []
Original Budget Amount	\$	
Original Contract Amount	\$	
Budget Remaining after the Recommendation	\$	
Contract after Change	\$	

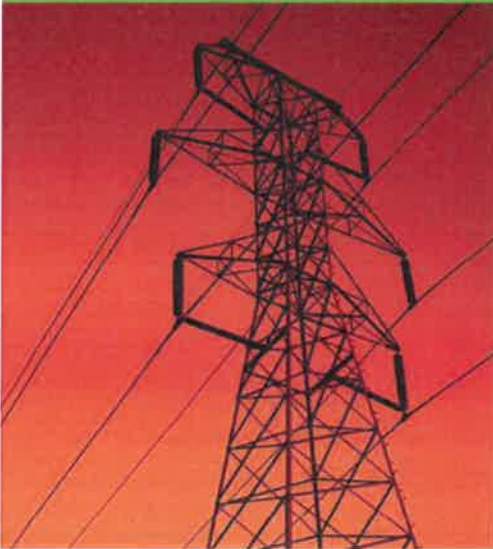
RELATED IMPACTS

- Higher thrust at reduced rotational speed
- Enormous power reserves for significantly higher thrusts on demand
- Resistant to clogging from long fibres and rags suitable for municipal wastewater digesters
- Low operation and maintenance costs



Advanced Digester Mixing Package

Victor Valley Wastewater Reclamation Authority
7/25/2018



anaergia.com



ANAERGIA'S HIGH SOLIDS MIXERS

Anaergia's permanent magnet synchronous motor (PSM) mixer is a smart choice to reliably and efficiently mix high viscosity fluids such as those found in high solids digesters, process sludge tanks and digestate storage tanks. The PSM mixer boasts the highest efficiency in its class, delivering efficient mixing, dynamic control, and easy access for maintenance and inspection.

Proper mixing is an essential component of a properly functioning anaerobic digester. Inadequate mixing will lead to crust formation on the surface of the liquid and sedimentation on the bottom of the tank. A crust formation may result in poor release of biogas and, if significant, a total blockage of the biogas pathway will occur leaving costly maintenance interventions as the only solution. Sediment accumulation on the bottom of the tank can be just as significant. A poorly mixed tank will not properly digest the substrate, and the digestate material will exit only partially treated. The digestate may have a putrid smell, typical to that of a poorly digested material and result in odor complaints or penalties from government agencies. When sedimentation becomes severe, a complete dredging of the tank is required to remove the accumulated settled material. The problem of good mixing is exacerbated in resource recovery facilities that operate at high solids loadings and/or digest viscous material.



Anaergia's mixers help solve the complex problem of high solids mixing through innovative design and a high-torque, low-speed design to mix high viscosity fluids effectively and efficiently. Each mixer is mounted in a patented service box which allows real-time adjustment and easy access for maintenance and inspection without requiring the tank to be removed from service. The mixers are installed on a square stainless-steel column, supported by the tank bottom and extending to the stainless-steel service box installed on top of the digester cover.

BENEFITS OF ANAERGIA'S MIXERS

Effective and Efficient Mixing of High Viscosity Fluids

Traditional mixing systems generally cannot mix sufficiently above ~3% total solids content. Above this concentration, the sludge becomes too viscous for conventional mixing systems and results in insufficient mixing, creating stagnant zones in the digester that lead to inconsistent biogas production and decreases in volatile solids reduction. In contrast, Anaergia's high solids mixers are specifically designed for use in high solids/viscosity applications, as demonstrated in numerous agricultural or food waste projects. To efficiently mix these fluids, the mixers operate at low speed but provide high torque to mix viscous sludges commonly above 6% suspended solids with high efficiency and uniformity. The German-engineered propeller design incorporates an anti-ragging design with optimized blade curvatures and pitch, tied to a torque sensor incorporated in the mixer to detect obstructions and alert operations as required.

Energy Efficiency

Anaergia's PSM™ electric mixers optimize mixing efficiency while minimizing power consumption utilizing a feedback loop to adjust mixing speed in real time by continuously monitoring torque and mixer operation. To further reduce power consumption, the mixers may be operated intermittently, automatically powering on and off in discrete cycles. The mixers typically operate 25- 50% of the time over half hour increments: 15 minutes on, 45 minutes off and 30 minutes on, 30 minutes off respectively.



Easy Access for In-Situ Servicing and Adjustment

Traditional in-tank mixing systems require the digester to be drained for servicing and adjustment, resulting in significant risk, expense, downtime and increased redundancy costs. Anaergia's mixing system allows mixer adjustment and service while the digester remains in service. The mixers are mounted to a vertical guide shaft that is accessible via a proprietary service box mounted on the digester roof. Further, nearly all Anaergia mixer projects utilize at least two mixers on each tank, thus eliminating any single point of mechanical failure as is common alternative mixing configurations.

COMPONENTS

SUBMERSIBLE PSM MIXER

Intelligent mixing management based on interaction of newly developed system components:

- Submersible mixer with a permanent magnet synchronous motor (PSM) of variable speed and performance optimized three-blade propeller
- Dynamic Mixing Control (DMC)
- Automatic mixer positioning system (Optional)



Anaergia's intelligent mixing system is the first automatically controlled intelligent mixing management system on the market, which detects and analyzes changes in operating conditions and substrate characteristics and reacts dynamically. In this way the mixer always works at the highest efficiency to minimize energy consumption, wear, and operation costs.

The submersible mixer is equipped with a performance-optimized sickle-shaped three-blade propeller and a permanent magnet synchronous motor. The variable-speed PSM motor produces a high torque over a wide range of rotation velocities (approx. 80-140 rpm). Because the motor is driven directly, without gear or any other power transmitting elements, it works with a high efficiency at low energy consumption. This also results in additional power reserves allowing significant thrust increase on demand.

The mixer includes a 50-foot cable which is intended to extend to a junction box outside the service box (by others).

DYNAMIC MIXER CONTROL SYSTEM

The Dynamic Mixer Control System (DMC) controls the operation of the mixer as the core of the S.M.A.Rt-System. Several parameters (such as torque, rotation speed and power) are measured during operation and are adjusted to an



optimal operation point according to the characteristic of the medium. The intelligent mixing management system not only reduces operation costs, it also has a positive influence on the digester biology.

SERVICE BOX AND MIXER SUPPORT SYSTEM

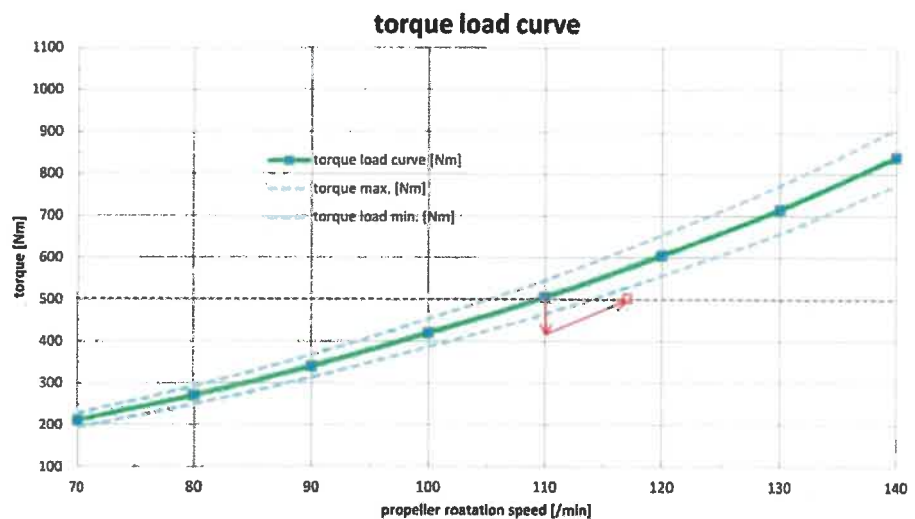
When servicing is required, the digester liquid level is raised above the bottom skirt of the service box, effectively sealing the service box headspace from the rest of the digester with a liquid seal. Digester gas is vented from the service box before the door is opened to access the mixer, which is raised to the top of the guide shaft. The digestion process is uninterrupted continues to produce biogas. When maintenance is complete, the mixer is remounted, the service box door is closed, the mixer descends back into position, and digester liquid level returns to normal.

A stainless steel square post extends from the floor bearing to the service box, guiding and supporting the submersible mixer during normal operation and servicing. A lifting device is set on the support post, supporting mixer installation, height adjustment, and service retrieval. The lifting device includes cable winch, stainless steel cable, and deflection roll for lifting and lowering.



AUTOMATIC MIXER POSITIONING SYSTEM E&PS (OPTIONAL)

The automatic mixer positioning system allows automated control of the mixer height. The height of the mixing unit is adjusted by a gas-tight electric actuator.





COMMERCIAL

TERMS Cost: \$68,700

DELIVERY SCHEDULE

Furnished upon request.

SHIPPING AND HANDLING

Incoterms 2010 DDP (Delivery Duty Paid) to Victorville, CA. Insurance not included.

PAYMENT SCHEDULE

Milestone	% of Contract
Upon Order Acceptance	60%
Upon shipment or notification of availability to ship	30%
Startup & Commissioning	10%

TERMS AND CONDITIONS

Anaergia Technologies LLC Standard Terms and Conditions



APPENDIX A: SCOPE OF SUPPLY

The following table lists the equipment included in Anaergia's scope of Supply. All equipment supplied by Anaergia is supplied loose for installation by others. Anaergia will assist during installation and commissioning by answering questions asked by the installation contractor.

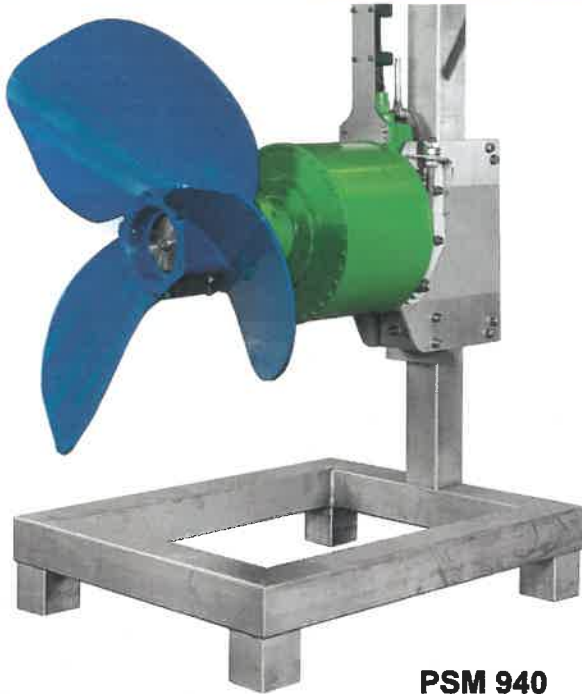
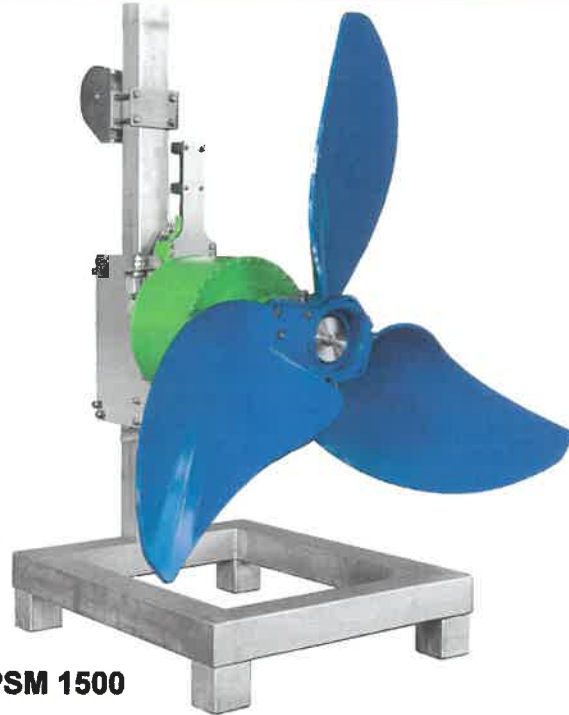
Item	Qty	Anaergia	Others
Overall Administration and Co-ordination of Project			
Maintain Overall Project Schedule			X
Co-ordinate with other Sub-Contractors			X
Site Management – Health and Safety, Progress Report, etc.			X
Permits			
Obtain all necessary permits			X
Assist permitting by providing technical data on Anaergia Supplied Equipment		X	
Process Design and Engineering			
P&IDs, Equipment Performance and Specifications for Anaergia Supplied Equipment only		X	
Engineering for Instrumentation and Controls, and Process for Anaergia Supplied Equipment only		X	
Control Narrative		X	
Construction Engineering - Construction Drawings, etc.			X
Civil Construction Activities			
All Civil & Construction work Equipment Foundations			X
Mechanical, Electrical, I&C Work and Equipment Installation			
Supervision of Installation of Anaergia supplied Equipment		X	
All Electrical Installation, Testing and Certification			X
All I&C Installation, Testing and Certification			X
Interconnect and Provide Utilities (Right Quantity and Quality)			
Power, 460/3/60, 12VDC, 120/1/60			X
Equipment Foundations, Mounting Pads Anchor Bolts, Enclosures, Buildings, etc.			X
Equipment Installation including Interconnecting Piping, Wiring & other Appurtenances			X
Mixer System			
Mixer - Submersible Electric PSM 940 w/Mounting Bracket	2	X	



Item	Qty	Anaergia	Others
Mixer - Submersible Electric Dynamic Mixing Control (DMC)	2	X	
Mixer - Conductance Relay	2	X	
Junction Box <ul style="list-style-type: none"> - NEMA 7 - Local Disconnect Switch - Aluminum, SS Hinge/Bolts - Class 1 Div 1 - 11"x11"x6" 	2	X	
DMC Enclosure <ul style="list-style-type: none"> - Wall mount NEMA 12 enclosure (approx. 24"W x 30"H x 12"D) - 2 level/leak relays - PTC Thermistor Relay - 24VDC Power Supply (1 amp) - Misc. terminal blocks, etc. 	1	X	
Field Electrical and Controls Wiring			X
Additional I/O Cards and PLC Programming – Existing Omnivore Control Panel		X	
Testing, Commissioning & Start Up			
Site Support for Start Up and Commissioning		X	
Dry Commissioning Assistance		X	
Training		X	
Wet Commissioning/Start-Up Assistance		X	
Other			
Warranty		X	
Transportation and Shipping of Equipment		X	
Bonding, if required			X
Any additional (other than mandatory) Insurance, if required			X



APPENDIX B: EQUIPMENT CUT SHEETS AND DRAWINGS

**PSM 940****PSM 1500**

The **PSM-940** and **PSM-1500** submersible electric mixers are compact units that handle high viscosity high solids mixing applications. These reliable and robust mixers deliver high thrust on demand while automatically reducing energy consumption.

Features

- Sickle-shaped, thrust-optimized propeller geometry
- The direct gearless drive with a variable-speed permanent magnet synchronous motor eliminates a gearbox within the process tank
- Standard 150x150mm square guide post mounting bracket
- Low maintenance front bearing with mechanical seal
- Standard 15m long electrical cable with cable clamps
- Leakage sensor and thermal winding protection

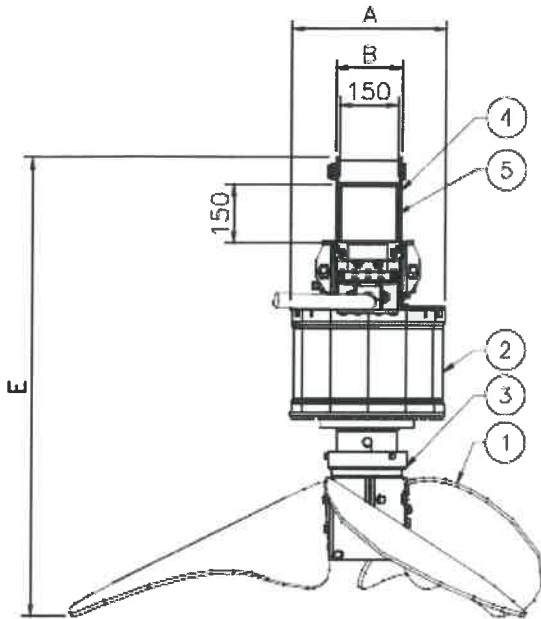
Advantages

- Higher thrust at reduced rotational speed
- Enormous power reserves for significantly higher thrusts on demand
- Resistant to clogging from long fibres and rags - suitable for municipal wastewater digesters
- Low operation and maintenance costs

Applications

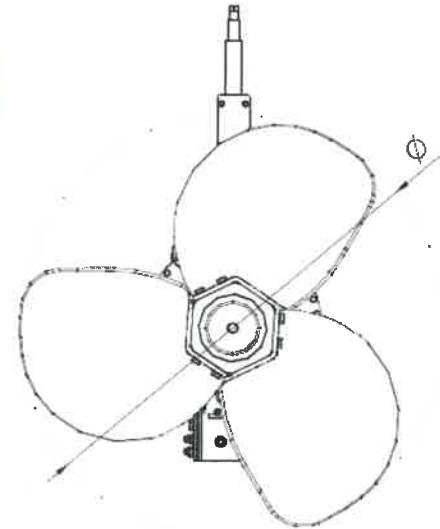
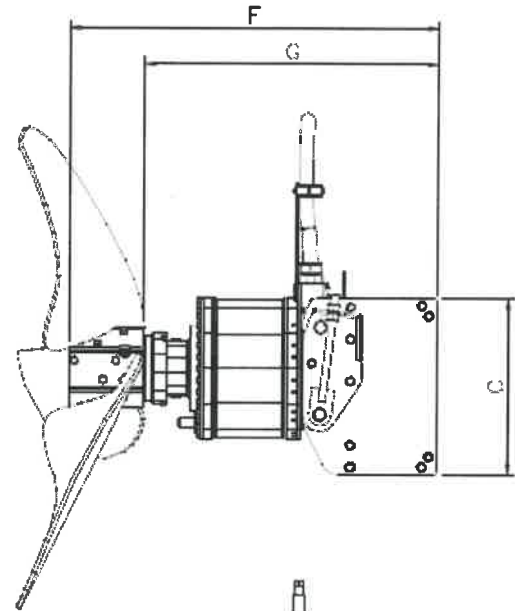
- Municipal wastewater resource recovery facilities
- Anaerobic digesters processing organic fraction from municipal solid waste
- Agri-Food including manure storage, anaerobic digestion and digestate holding tanks





1	Blade
2	PSM motor
3	Bearing Assembly
4	Bracket / Console
5	Support Post

**Thrust, Torque and Shaft Power curves available



Motor Specifications

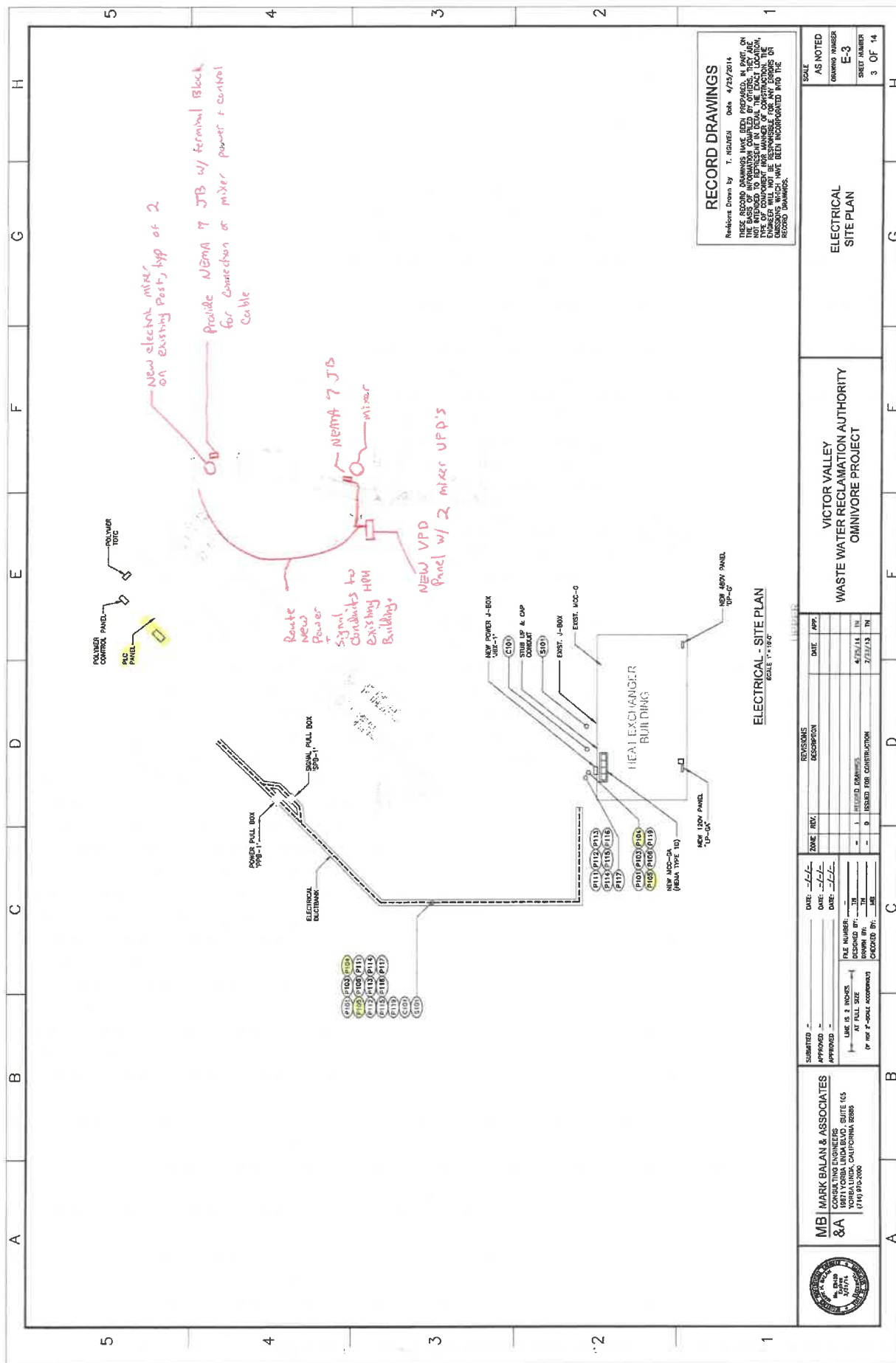
Motor Type	High torque, permanent magnet synchronous motor (PSM)	
Power Transmission	Direct gearless drive	
Power* (*Dependant on Medium)	Operation: 7-12.5 kW	
Torque* (*Dependant on Medium)	Normal Operation: 500-550 Nm Maximum: 800 Nm	
Maximum Ambient Temperature	60°C	
Thermal Protection	PTC Thermal control - PT100 (alternative KTY for Siemens FC)	
Additional	<ul style="list-style-type: none"> • F class insulation (alternative H) • Winding Protection • ATEX Ex II 2G Explosion Protection 	<ul style="list-style-type: none"> • Mechanical seal • Leakage sensor

Propeller Specifications

Model	TRG-E-PSM 125-094-3-150	TRG-E-PSM 125-150-3-150
Diameter	940 mm	1500 mm
Number of Blades	3	3
Geometry	3D; Sickle-shaped with optimized pitch	
Angle of Attack	Increasing from inside towards the outside	
Rotation (Dependant on Medium)	Maximum: 150 rpm Range: 120-150 rpm	Maximum: 120 rpm Range: 80-120 rpm
Thrust	Normal Operation: 3,550 N Range: 2,200-4,400 N	Normal Operation: 3,600 N Range: 1,900-6,500 N
Volumetric Flow	Normal Operation: 86 m ³ /min Maximum: 95 m ³ /min	Normal Operation: 111 m ³ /min Maximum: 153 m ³ /min

Model	940	1500
A	396 mm	396 mm
B	167 mm	167mm
C	489 mm	489 mm
Φ	940 mm	1500 mm
E	1150 mm	1170 mm
F	1024 mm	1024 mm
G	814 mm	814 mm
Weight	310 kg	330 kg

*Weight includes drive unit and propeller



RECORD DRAWINGS
 Revisions Drawn by T. RAUNEI Date: 4/23/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, EXTENT OR CHARACTER OF ANY WORK TO BE PERFORMED. THE DRAWINGS ARE FOR INFORMATION ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY WORK UNLESS SPECIFICALLY NOTED OTHERWISE. ANY CHANGES WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

SCALE	AS NOTED
DESIGN NUMBER	E-3
SHEET NUMBER	3 OF 14

**VICTOR VALLEY
 WASTE WATER RECLAMATION AUTHORITY
 OMNIVORE PROJECT**

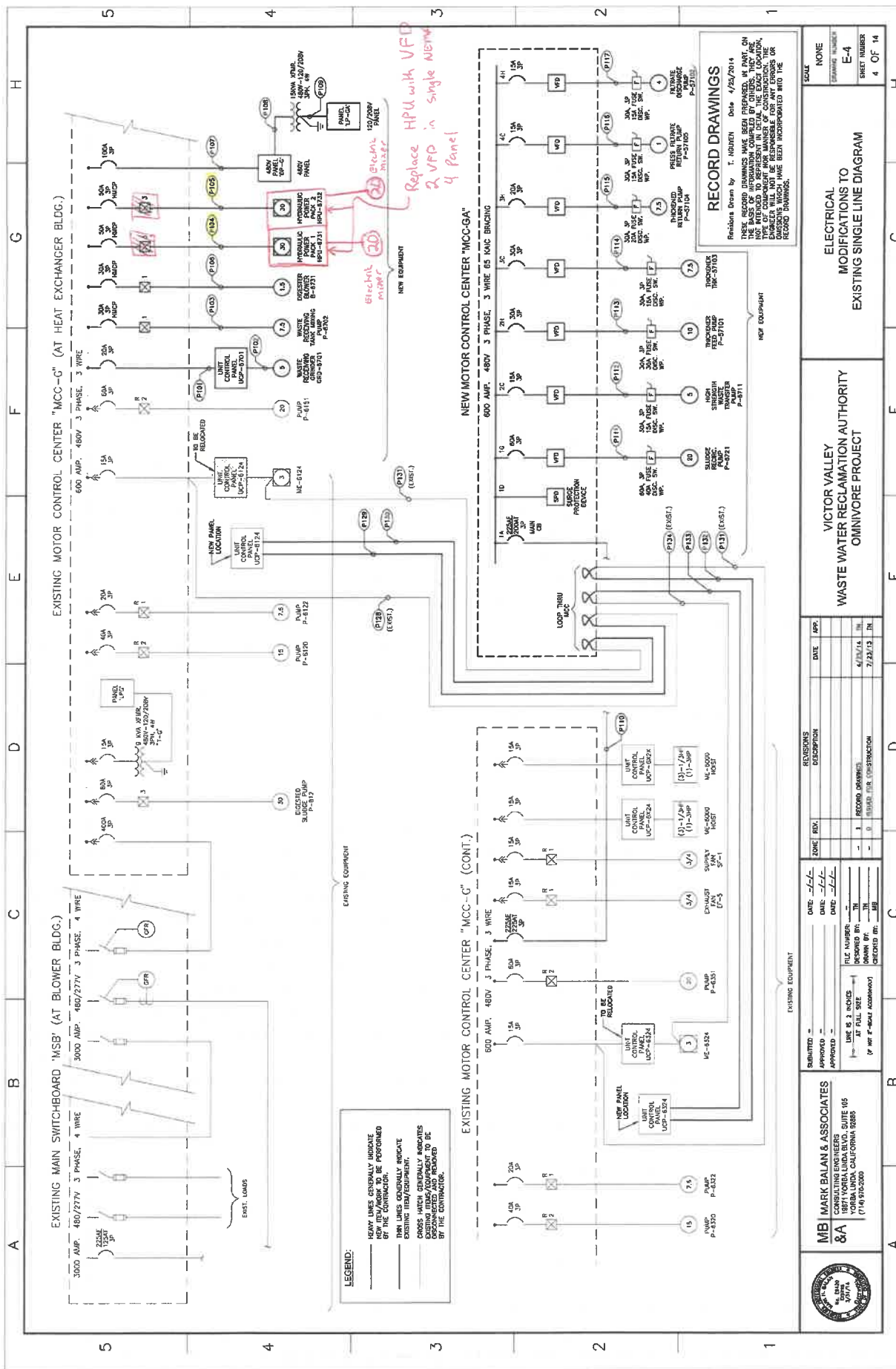
ELECTRICAL - SITE PLAN
 SCALE: 1" = 16'-0"

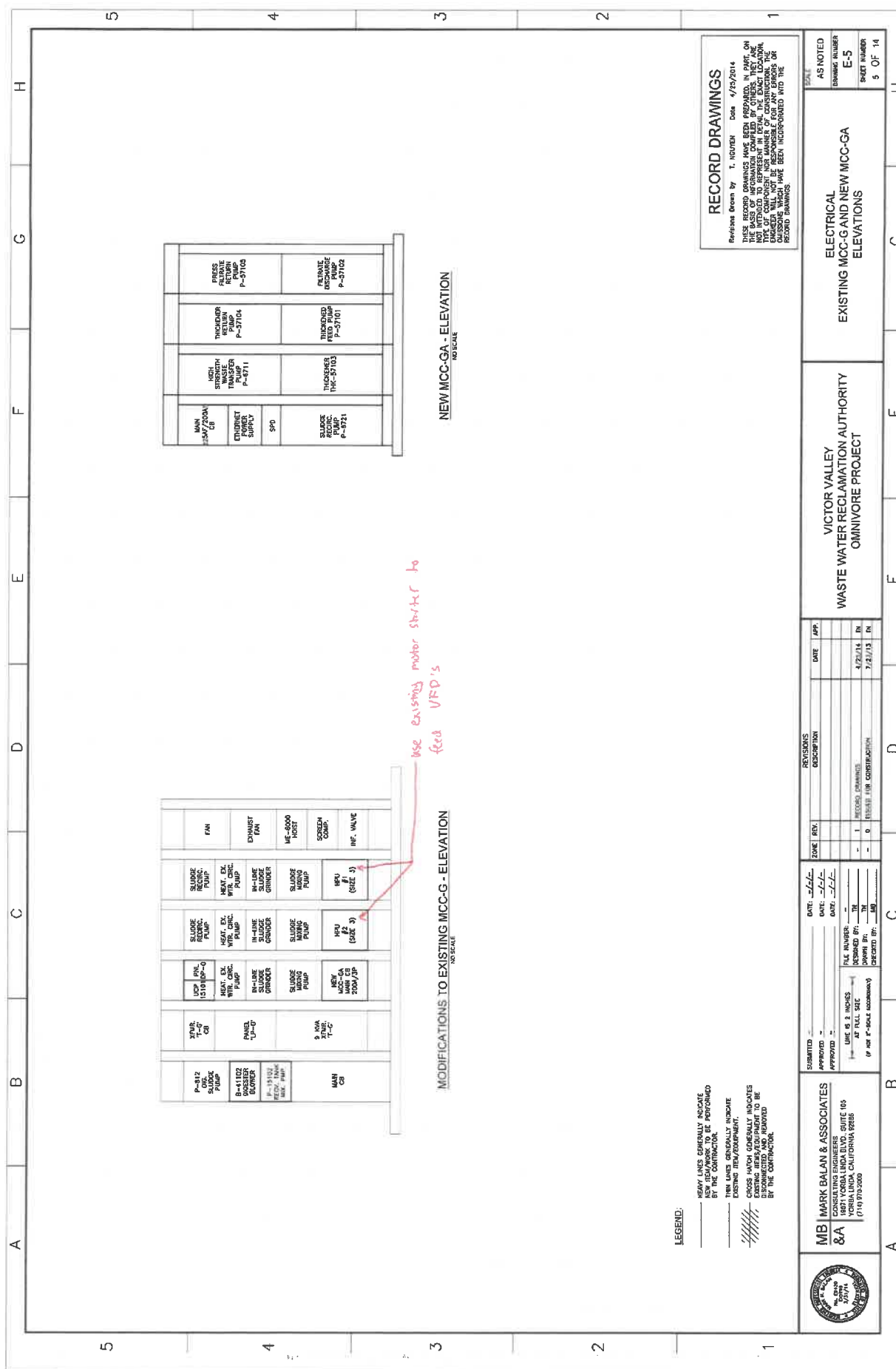
ZONE	REV.	REVISIONS DESCRIPTION	DATE	APP.

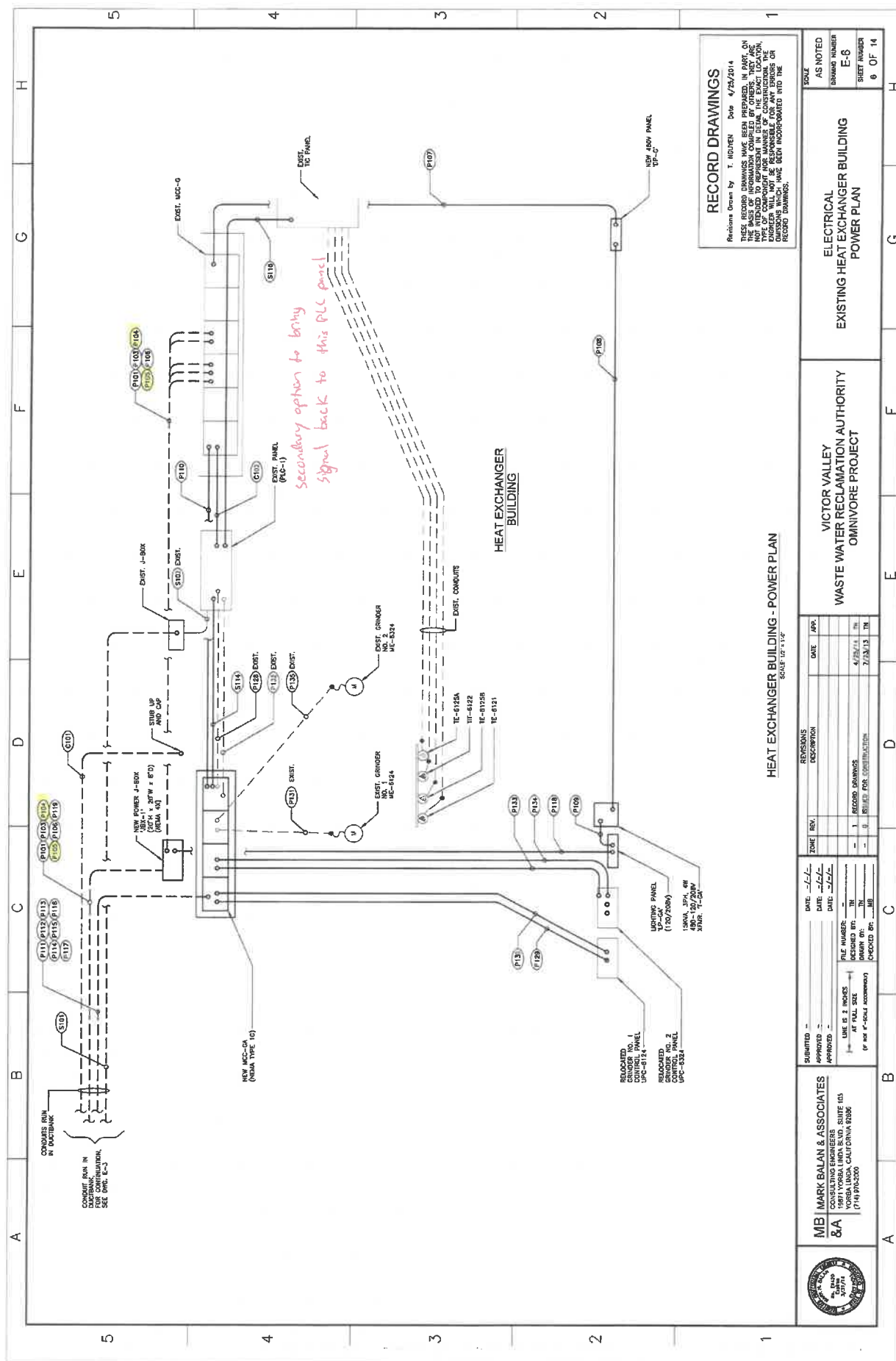
SUBMITTED: DATE: 4/23/14
 APPROVED: DATE: 4/23/14
 FILE NUMBER: 14-001
 DRAWING NO.: 14-001-03
 CHECKED BY: BR

MBI MARK BALAN & ASSOCIATES
 CONSULTING ENGINEERS SUITE 105
 NORTON AVENUE, CAUTHERN CROSS
 (714) 970-2000



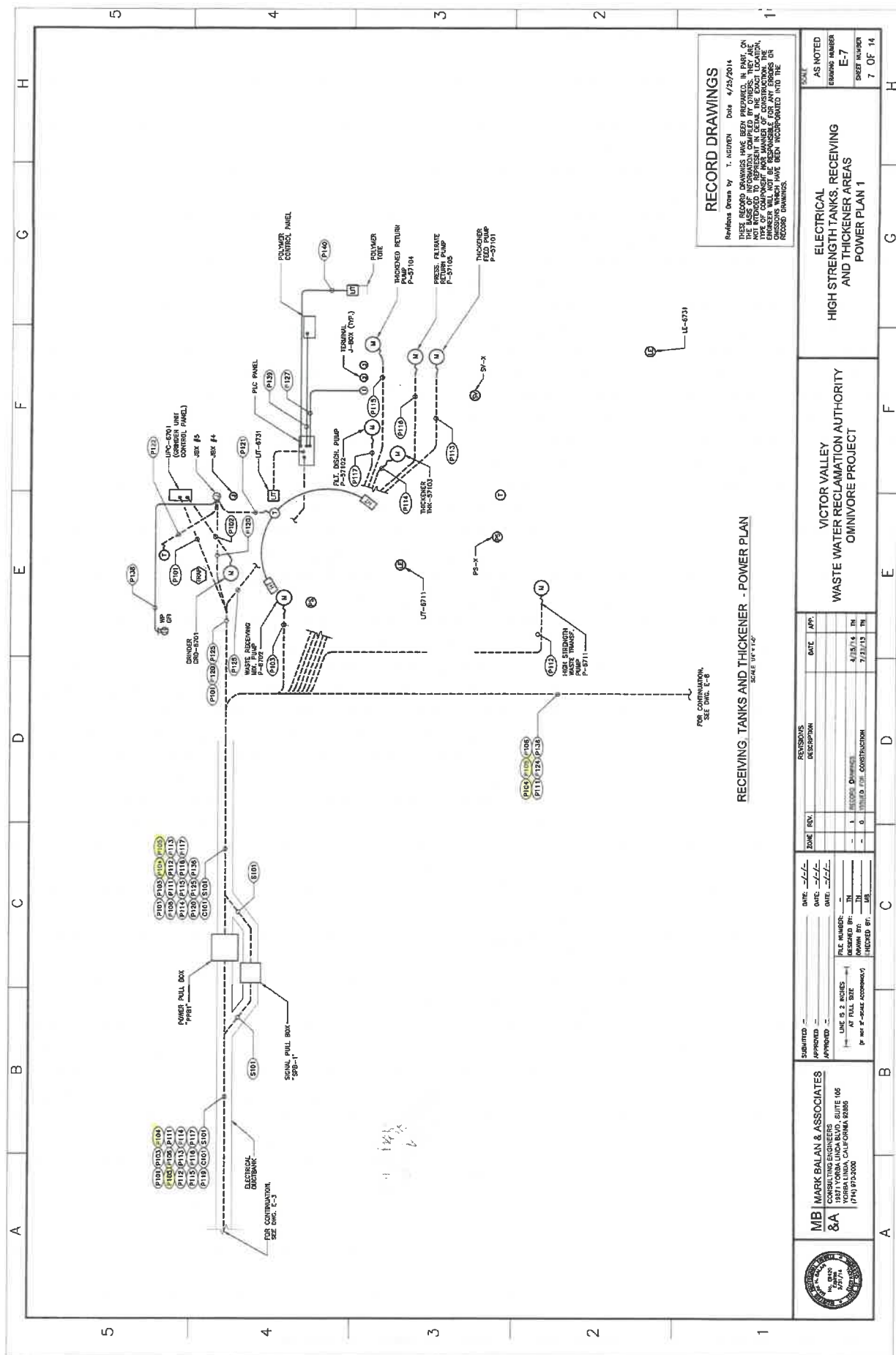






RECORD DRAWINGS
 Revisions Drawn by T. NGUYEN Date 4/25/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE OF CONSTRUCTION UNLESS THE TYPE OF CONSTRUCTION IS IDENTICAL TO THE TYPE OF CONSTRUCTION FOR WHICH THESE RECORD DRAWINGS WERE PREPARED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR OMISSIONS OR ERRORS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

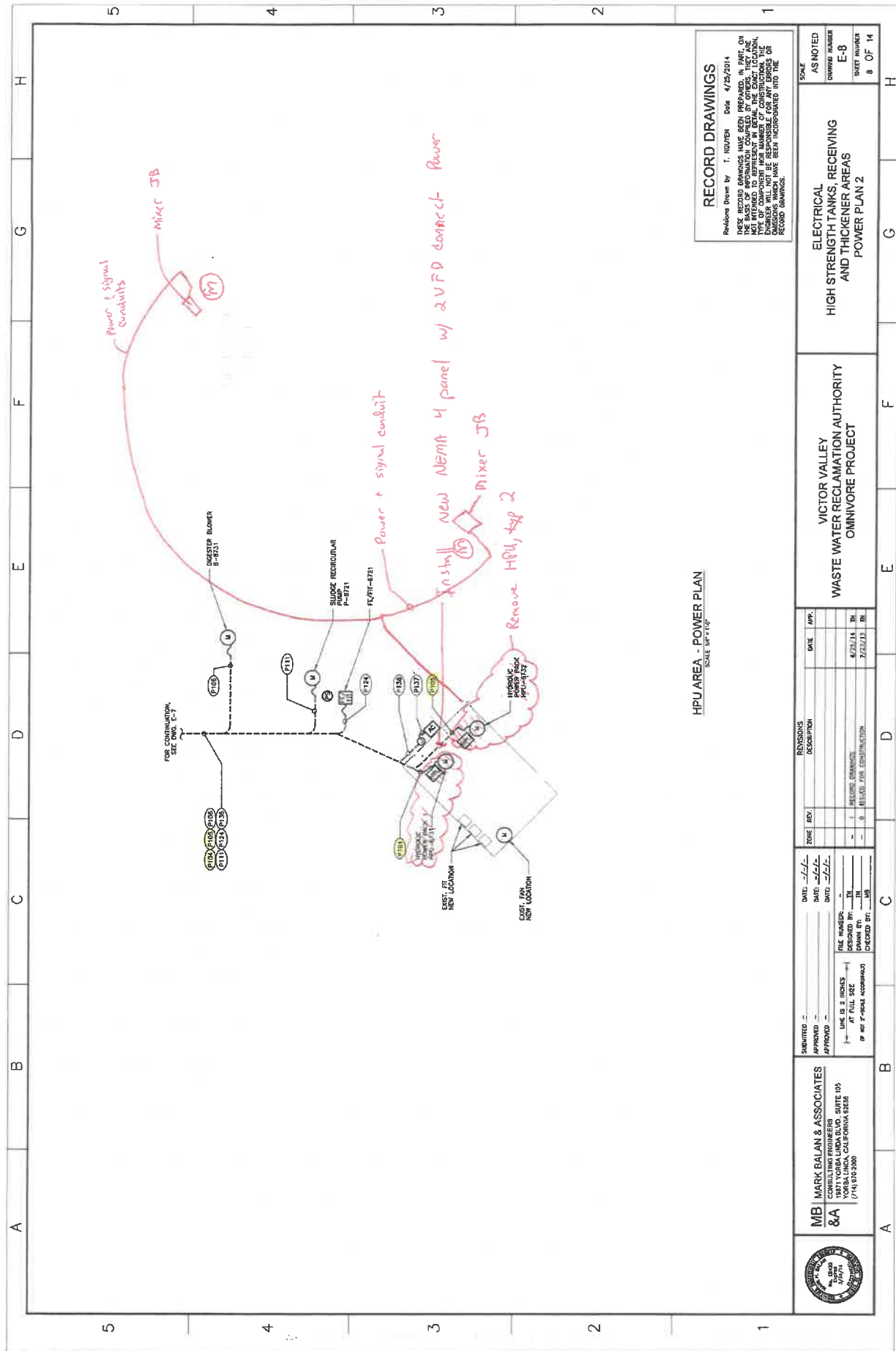
MBI MARK BALAN & ASSOCIATES CONSULTING ENGINEERS ARCHITECTS & A SUITE 105 7080A LINDA, CALIFORNIA 92668 (714) 963-2000		REVISIONS ZONE REV. DESCRIPTION DATE APP. 1 RECORD DRAWINGS 4/25/14 TN 2 REVISE FOR CONSTRUCTION 7/23/13 TN	
SUBMITTED: _____ DATE: 4/22/14 APPROVED: _____ DATE: 4/22/14 FILE NUMBER: _____ AT FULL SIZE: _____ DRAWN BY: _____ CHECKED BY: _____		SCALE: 1/8" = 1'-0" HEAT EXCHANGER BUILDING - POWER PLAN VICTOR VALLEY WASTE WATER RECLAMATION AUTHORITY OMNIVORE PROJECT	
SIZE: AS NOTED DRAWING NUMBER: E-6 SHEET NUMBER: 6 OF 14		ELECTRICAL EXISTING HEAT EXCHANGER BUILDING POWER PLAN	



RECORD DRAWINGS
 Revisions Drawn by T. ACVREY Date 4/25/2014
 THESE RECORD DRAWINGS HAVE BEEN REVISIONED. IN PART, ON THE BASIS OF INFORMATION OBTAINED BY OTHERS. THEY ARE NOT TO BE USED FOR CONSTRUCTION OF THE PROJECT UNLESS THE TYPE OF CONSTRUCTION AND MATERIALS SPECIFIED THEREIN ARE APPROVED BY THE ENGINEER. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

RECEIVING TANKS AND THICKENER - POWER PLAN
 SCALE: 1/8" = 1'-0"

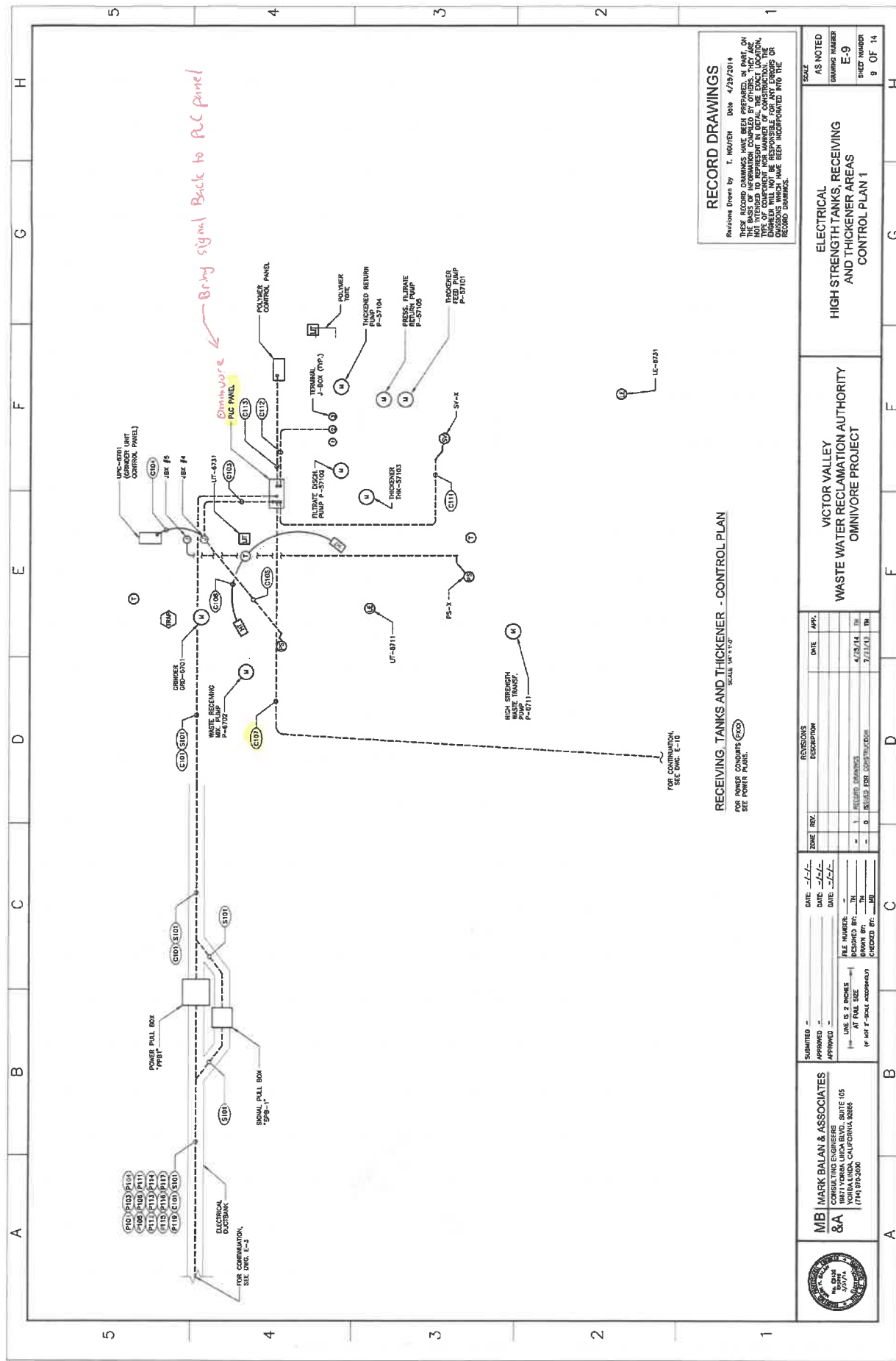
	MBI MARK BALAN & ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS SUITE 105 7070 LINDA CALIFORNIA 92505 (714) 973-2000	SHEET NO. 7 OF 14 DRAWING NUMBER E-7 SCALE AS NOTED
	PROJECT: VICTOR VALLEY WASTE WATER RECLAMATION AUTHORITY OMNIVORE PROJECT DATE: 4/25/14 DRAWN BY: [Name] CHECKED BY: [Name]	REVISIONS: 1. 4/25/14 2. 7/23/13



HPU AREA - POWER PLAN
SCALE: 1/4" = 1'-0"

RECORD DRAWINGS
 Revisions Drawn by: T. NGUYEN Date: 4/25/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT TO BE USED FOR CONSTRUCTION UNLESS THE TYPE OF COMPONENT AND NUMBER OF COMPONENTS, THE DIMENSIONS AND MATERIALS SPECIFIED THEREON, AND THE CONDITIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

	MBI MARK BALAN & ASSOCIATES CONSULTING ENGINEERS - CIVIL 10000 KYLE BLVD., SUITE 105 TORRANCE, CALIFORNIA 90503 (714) 910-2000	SUBMITTED: _____ APPROVED: _____ DATE: 4/25/14 DRAWN BY: _____ CHECKED BY: _____	REVISIONS ZONE REV. DESCRIPTION DATE APP. - 1 REVISION COMMENTS 4/23/14 IN - 2 REVISION FOR CONSTRUCTION 7/23/13 IN	VICTOR VALLEY WASTE WATER RECLAMATION AUTHORITY OMNIVORE PROJECT	ELECTRICAL HIGH STRENGTH TANKS, RECEIVING AND THICKENER AREAS POWER PLAN 2	SCALE: AS NOTED DRAWING NUMBER: E-8 SHEET NUMBER: 8 OF 14
	HPU AREA - POWER PLAN SCALE: 1/4" = 1'-0"					

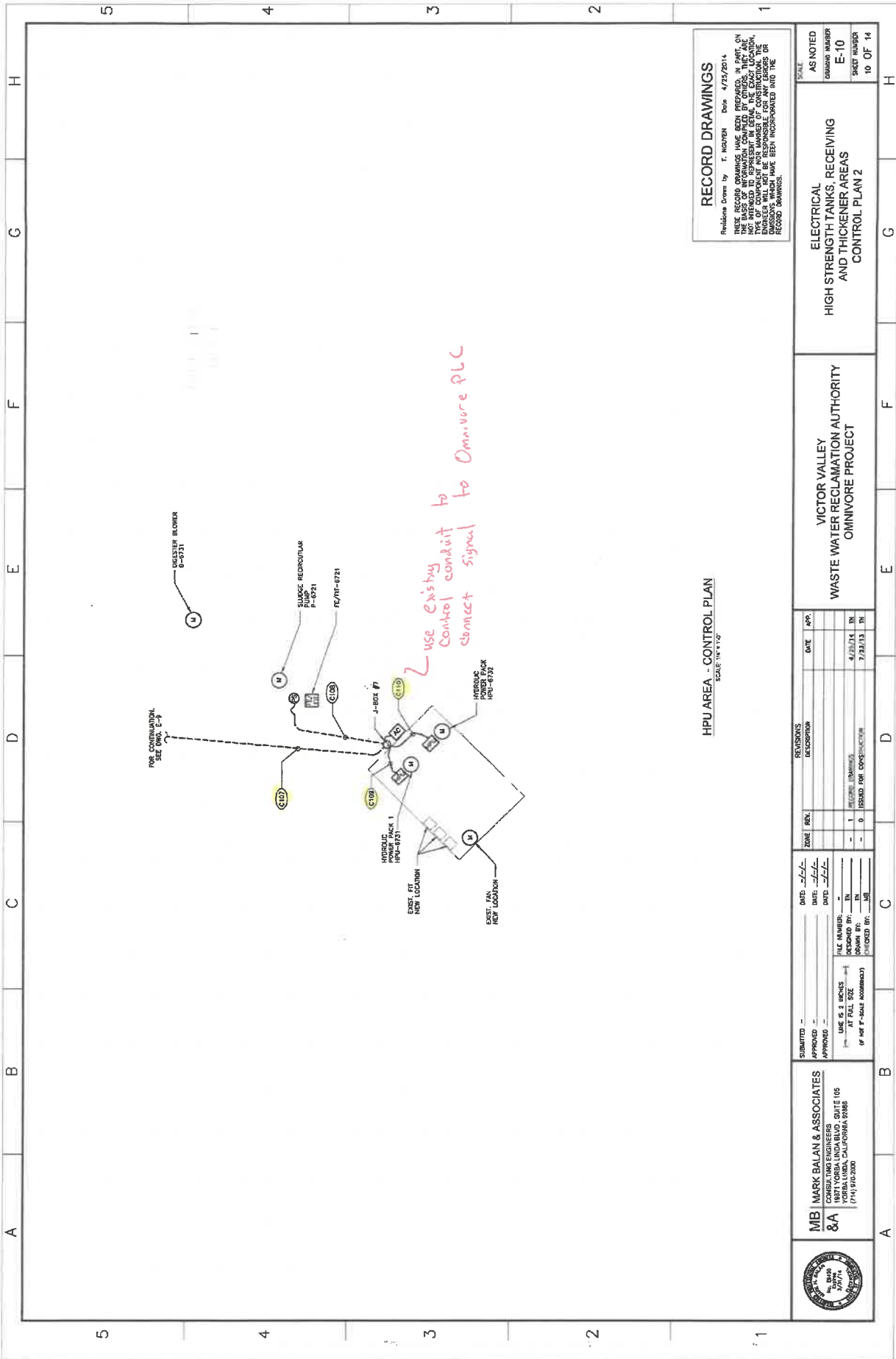


RECORD DRAWINGS
 Revisions Drawn by T. NGUYEN Date 4/29/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION SUPPLIED BY OTHERS. THEY ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE OF FACILITY OR EQUIPMENT WITHOUT THE TYPE OF COMPANY FOR WHICH THEY WERE PREPARED. THE DRAWINGS ARE NOT TO BE USED FOR ANY OTHER PURPOSES OR FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SUPPLIED BY OTHERS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SUPPLIED BY OTHERS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SUPPLIED BY OTHERS.

RECEIVING TANKS AND THICKENER - CONTROL PLAN
 SCALE: 1/8" = 1'-0"

FOR CONTINUATION, SEE SHEET E-10
 SEE POWER PANELS (P-20)

		MB MARK BALAN & ASSOCIATES CONSULTING ENGINEERS 10000 VICTOR VALLEY ROAD, SUITE 405 VICTOR VALLEY, CALIFORNIA 92393 (714) 979-2000		VICTOR VALLEY WASTE WATER RECLAMATION AUTHORITY DIMINVOIRE PROJECT		ELECTRICAL HIGH STRENGTH TANKS, RECEIVING AND THICKENER AREAS CONTROL PLAN 1		SCALE AS NOTED DRAWING NUMBER E-9 SHEET NUMBER 9 OF 14
Submitted -	DATE: 4/2/14	REVISIONS	DATE	APPROVED	DATE	APPROVED	DATE	APPROVED
Approved -	DATE: 4/2/14	DESCRIPTION						
FILE NUMBER:		1. REVISIONS	4/29/14	TR				
DATE BY:		0. REVISED FOR CORRECTIONS	7/27/10	TR				
DATE BY:								
DATE BY:								



HPU AREA - CONTROL PLAN
SCALE: 1/4" = 1'-0"

RECORD DRAWINGS
 Revisions Drawn by T. NADVEN Date 4/22/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF FIELD SURVEY DATA AND INFORMATION. THE DRAWINGS DO NOT INTEND TO REPRESENT THE EXACT LOCATION, TYPE OF CONDUIT, OR NUMBER OF CONDUITS. THE DRAWINGS ARE FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION. THE DRAWINGS WILL BE REVISIONED AS NECESSARY. REVISIONS WILL BE INCORPORATED INTO THE RECORD DRAWINGS.

SCALE	AS NOTED
CONDUIT NUMBER	E-10
SHEET NUMBER	10 OF 14

ELECTRICAL
HIGH STRENGTH TANKS, RECEIVING AND THICKENER AREAS
CONTROL PLAN 2

VICTOR VALLEY
WASTE WATER RECLAMATION AUTHORITY
OMNIVORE PROJECT

SUBMITTED - APPROVED - FILE NUMBER: DRAWN BY: CHECKED BY:	DATE: 4/22/14	DATE: 4/22/14	REVISIONS DESCRIPTION	DATE	APP.
	DATE: 4/22/14	DATE: 4/22/14	ZONE: 1	DATE: 4/22/14	BY: TR
MB MARK BALAN & ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 10800 W. CENTRAL EXPRESSWAY, SUITE 105 TORRANCE, CALIFORNIA 90503 (714) 510-2000					

ITEM NO.	CONDUIT	SIZE	QTY	CABLE	FROM	VA	TO	REMARKS	CONDUIT	SIZE	QTY	CABLE	FROM	VA	TO	REMARKS	DATE	APPR.	REVISIONS		
																			NO.	DESCRIPTION	DATE
1	#10	3/4"	3/1	#12/12	EXST. MCC-5	UO	UO	UO FOR RECEIVING TANK CONDUIT (REVISED)													
2	#10	3/4"	3/1	#12/12	EXST. MCC-5	UO	UO	UO FOR RECEIVING TANK CONDUIT (REVISED)													
3	#10	3/4"	3/1	#12/12	EXST. MCC-5	UO	UO	UO FOR RECEIVING TANK CONDUIT (REVISED)													
4	#10	3/4"	3/1	#12/12	EXST. MCC-5	UO	UO	UO FOR RECEIVING TANK CONDUIT (REVISED)													
5	#10	3/4"	3/1	#12/12	EXST. MCC-5	UO	UO	UO FOR RECEIVING TANK CONDUIT (REVISED)													

RECORD DRAWINGS
 Revisions Drawn by: T. NOVAK Date: 4/29/2014
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF FIELD SURVEY DATA AND RECORD DRAWINGS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF FIELD SURVEY DATA AND RECORD DRAWINGS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF FIELD SURVEY DATA AND RECORD DRAWINGS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

SCALE	NONE
DRAWING NUMBER	E-13
SHEET NUMBER	13 OF 14

VICTOR VALLEY
 WASTE WATER RECLAMATION AUTHORITY
 OMNIVORE PROJECT

DATE	APPR.	DESCRIPTION
4/29/14	TM	1 REVISION DRAWING (REVISION)
7/24/13	TM	0 REVISION DRAWING (REVISION)

SUBMITTED -	DATE: 4/29/14	BY: TM
APPROVED -	DATE: 4/29/14	BY: TM
DATE IS 2 INCHES AT FULL SIZE OR PER 7-604 (COMMON)		

MB MARK BALAN & ASSOCIATES & A
 5001 YORBA LINDA BLVD, SUITE 105
 YORBA LINDA, CALIFORNIA 92886
 (714) 916-0000





VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Chieko Keagy, Controller *ask*
TO: Logan Olds, General Manager
SUBJECT: Low Voltage Power and Failure of Standby Generators 1 and 2

RECOMMENDATION

Per Board direction in response to two low voltage power failure emergencies in May of 2017, which damaged standby generators 1 and 2, staff is bringing new expenses before the Board for ratification in the amount of \$8,673.68 that incurred during July of 2017 but was never billed until now.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

Please review the attached invoices for the expenses incurred during February and March. The attachment also shows the expenses incurred to date, \$586,720.93. The repair work on the generator has been completed on March 12, 2018.

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07		Fund 09	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-545-6010 and 01-02-80-6000 From FY 2018 budget	Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y [] N [X]	Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve		If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$ 0.00	Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation		Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$	Outside Funding Source	\$
Original Contract Amount	\$ 0.00	Original Contract Amount	\$
Change Order	Y [] N []	Change Order	Y [] N []

Contract after Change	\$586,720.93	Contract after Change	\$
-----------------------	--------------	-----------------------	----

RELATED IMPACTS

The staff will report progress toward resolving the damages caused by the low voltage power to equipment and ensure that backup power is available in the future if both standby generators are damaged.

E005 Emergency Expenses
As of 6/30/2018

Document Number	Document Date	Document Description	Posted Amount	ID	Fund	Account
05222017	5/22/17	Cal Card Charges May 2017	\$ 113.46	USBA000	01	8060
JE054217	6/1/17	Reclass BIGB000 587	\$ 720.00		01	6035
05222017	5/22/17	Cal Card Charges May 2017	\$ 246.72	USBA000	01	8060
17-0042	5/18/17	Emergency Labor for Backwash pumps/Gen hookup	\$ 617.52	DAVI003	01	6035
17-0043	5/18/17	Emergency Labor for Backwash pumps/Gen hookup	\$ 1,075.33	DAVI003	01	6035
05222017	5/22/17	Cal Card Charges May 2017	\$ 162.69	USBA000	01	8060
M00963	5/18/17	Troubleshoot Generator not Producing Volage	\$ 7,776.55	VALL002	07	6000
108799	5/25/17	Emergency Service Call	\$ 5,655.69	TRIM000	01	6035
JE053417	5/31/17	Reclass PACI004 1413398 and 1413400	\$ 1,981.96		01	7350
58225	5/24/17	Lucky Chaney	\$ 1,129.44	MORR000	01	6035
589	5/30/17	Emergency Labor	\$ 720.00	BIGB000	01	6035
3005139-0001	6/2/17	Generator 1000KW	\$ 4,457.60	JOHN009	07	6000
JE070217	7/12/17	Reclass JOHN009 3005139-0001	\$ 14,181.25		01	6000
JE063417	6/28/17	Reclass VALL002 B38543	\$ 48,378.54		01	6000
6441-538695	6/13/17	VFD Board for Sludge Lagoon Transfer Pump	\$ 3,384.60	ROYA000	01	6015
B38493	5/4/17	Troubleshoot Generator Failure	\$ 2,163.44	VALL002	07	6010
JE061817	6/22/17	Reclass ROYA000 6441-538695	\$ 257.91		01	6015
C0011822	6/22/17	Emergency Parts	\$ 1,902.03	DRAK000	01	6035
JE061917	6/22/17	Reclass PACI004 1413399	\$ 6,660.03		01	7350
S-7483	6/28/17	Unstable Unit	\$ 2,515.15	ABAC000	07	6010
0039942-IN	7/11/17	Generator Docking Station	\$ 17,538.07	ESLP000	07	6000
3005139-0002	6/30/17	Emergency Generator	\$ 11,181.25	JOHN009	07	6000
501302763	6/30/17	Emergency Service Commission	\$ 20,950.00	GEIN001	01	6035
JE064817	6/30/17	Reclass VALL002 B38493	\$ 10,367.50		01	6000
501330500	7/25/17	Main Switchboard Modifications	\$ 75,490.90	GEIN002	01	6000
205767	8/30/17	Emergency Service Used Gen BKR & Troubleshooting	\$ 28,739.08	GEIN002	01	6010
695	8/10/17	Otoe Pump Station Door Switch Failure	\$ 760.00	BIGB000	01	6035
838953	8/23/17	Emergency Gen Service	\$ 2,850.00	VALL002	01	6010
E7002401	7/27/17	Generator Rental	\$ 12,592.45	QUIN002	07	6000
E7002402	8/24/17	Emergency Generator Rental	\$ 12,592.45	QUIN002	07	6000
M01173	7/29/17	Generator 1 Testing	\$ 11,320.25	VALL002	07	6010
E7002403	9/21/17	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	6000
e7002404	10/19/17	Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
501445789	10/30/17	PSG Startup Field Service	\$ 16,351.06	GEIN001	01	6035
17-0175	8/22/17	E005 Generator Termination Cabinet	\$ 109,087.00	DAVI003	01	6060 (42,762.00) 6035 (66,325.00)
E7002405	11/16/2017	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002406	12/14/2017	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002407	1/11/2018	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E700024	2/8/2018	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002409	3/8/20018	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002410	3/14/2018	E005 Emergency Generator Rental	\$ 800.00	QUIN002	07	7265
501628542	3/28/2018	Main Switchboard Modification	\$ 27,830.00	GEIN002	01	6000
JE053618	5/14/2018	Reclass GEIN002 210612	\$ 27,350.18	GEIN002	01	6010
Cost through 06/30/2018			\$ 578,047.25			

New E005 Expenses

Document Number	Document Date	Document Description	Posted Amount	ID	Fund	Account
SI08064	6/30/2018	Primary Influent MOV Uninterrupted Power Source	\$ 8,673.68	BRIT000	01	6015
July E005 Expenses			\$ 8,673.68			
Total E005			\$ 586,720.93			



620 S Rancho Ave Colton CA 92324
 Phone 909-825-7971 Fax 909-825-6312

Invoice	SI08064
Date	6/30/2018

MARKS
WVWA
 JUL 18 2018

Bill To:
 Victor Valley Wastewater
 Accounts Payable
 20111 Shay Rd
 Hesperia CA 92394

Ship To:
 Victor Valley Wastewater
 20111 Shay Rd. Extension
 Victorville CA 92394

(760) 246-8638 Ext. 00

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Shlp Date	Order No.
15107 <i>& SI0604</i>	VICT148	JC	OUR TRUCK	1%-10/Net 30	7/27/2017	SO94468
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	1	0	4331	1 Primary Influent MOV/ US Panel	\$8,049.82	\$8,049.82
Tax Analysis: San Bernardino Rate: 7.75000%					Tax Amount	\$623.86

APPROVED TO PAY						
F	LO	CC	ACCT	PROJ	DEBIT	CREDIT
01	02	545	6015	E005	6,755.00	
01	02	545	6015	E005	523.51	
01	02	545	6015	E005	1,395.17	
BY			DATE:		PC:	

Subtotal	\$8,049.82
Tax	\$623.86
Freight	\$0.00
Total	\$8,673.68

We accept VISA, MasterCard and American Express



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Chieko Keagy, Controller *ck*
TO: Logan Olds, General Manager
SUBJECT: Receive and file the newly created VVWRA AB 1600 Report

RECOMMENDATION

It is recommended that the Board of Commissioners receive and file the AB 1600 report as presented.

REVIEW BY OTHERS

The External Finance Committee reviewed the AB 1600 report on August 27, 2018. Those who attended this meeting were George Harris (City of Victorville), Keith Metzler (City of Victorville), Casey Brooksher (City of Hesperia), and Brian Johnson (Town of Apple Valley).

BACKGROUND INFORMATION

On August 27, 2018, the staff met with the External Finance Committee to review the AB 1600 report. Per the Committee's consensus, the staff places the report before the Board for its consideration. The VVWRA staff in conjunction with the Finance Committee prepared this report to answer a request from a member agency regarding how VVWRA accounted for the use of connection (capacity) fees. The state, however, does not require VVWRA prepare and file this report. The report clearly shows how connection fees, grants, and loan funds were spent on which projects during the period from July 1, 2007 to June 30, 2017. This report will be posted on the VVWRA website and be referenced in VVWRA's CAFR introduction page for the year ended June 30, 2018.

FINANCIAL IMPACT

None

RELATED IMPACTS

None

Victor Valley Wastewater Reclamation Authority

Taking the Waste Out of Wastewater

AB1600



20111 Shay Rd., Victorville, CA 92394
760-246-8638 www.vvwra.com

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WASTEWATER TREATMENT SYSTEM CONNECTION FEES

The wastewater treatment system connection fee was first established by Ordinance No. 002, which the Board of Commissioners of Victor Valley Wastewater Reclamation Authority (VWVRA) adopted on May 26, 1983. This ordinance was revised several times since then, and its most current revision was adopted on March 20, 2014.

Purpose of the Fund:

The wastewater system connection fee is assessed as a condition of approval for all new development to pay for wastewater lines connected to VWVRA treatment facilities to support new development. The funds collected are accounted for as connection fee revenues and shall be used for the following purposes:

1. Acquisition of additional property for wastewater treatment facility system and right-of-ways
2. Design and construction of treatment facilities, buildings, infrastructure, and pipelines for wastewater collection and treatment services
3. Construction of facility buildings, pumps, and lift station to collect wastewater and provide wastewater treatment services
4. Purchases of treatment equipment for such treatment services
5. Growth and expansion of wastewater system excluding repairs and replacements

Amount of Fees:

Connection fees rate is \$4,000 per Equivalent Dwelling Unit (245 gallons per day or 20 fixture units) per Ordinance 002 that was adopted on March 20, 2014, effective on July 1, 2014.



14.5 and 18 MGD Regional Plant Expansion

The 14.5 and 18 MGD capacity expansions at the wastewater treatment plant located in Victorville cost 51.3 million dollars. The expenses occurred between FY 2002 and 2009.

Year	14.5 + 18 MGD	14.5 MGD	18 MGD
FY 2002	1,753,006.00	1,753,006.00	-
FY 2003	-	-	-
FY 2004	-	-	-
FY 2005	960,451.00	651,713.00	308,538.00
FY 2006	18,333,667.00	12,544,692.00	5,888,975.00
FY 2007	19,484,531.63	9,115,556.25	10,368,975.38
FY 2008	9,576,706.64	1,552,135.60	8,024,571.04
FY 2009	1,235,223.85	280,928.48	954,395.37
	51,333,486.12	25,868,931.33	25,465,454.79

In addition VVWRA spent 14.4 million dollars on other construction projects between FY 2002 and 2009.

Year	Other Construction Projects
FY 2002	409,655.00
FY 2003	1,816,356.00
FY 2004	846,469.80
FY 2005	2,166,370.00
FY 2006	886,227.00
FY 2007	321,795.32
FY 2008	4,661,337.38
FY 2009	3,370,249.90
	14,478,260.40

VVWRA received 35.3 million dollars in connection fees from the City of Victorville between FY 2002 and 2009. VVWRA also received 24.7 million dollars in connection fees from Apple Valley, Hesperia and San Bernardino County between FY 2002 and 2009. Total Connection Fees paid between 2002 and 2009 were just over 60 million dollars.



Year	Connection Fees Revenue				All Connection Fees
	Victorville	Apple Valley	SB County Special Districts	Hesperia	
FY 2002	1,241,729.25	568,795.50	166,273.72	266,177.44	2,242,975.91
FY 2003	2,768,218.65	602,537.75	196,393.96	382,498.90	3,949,649.26
FY 2004	4,986,939.25	697,837.80	245,328.75	1,168,312.75	7,098,418.55
FY 2005	4,841,563.14	1,720,235.75	280,650.00	1,820,769.57	8,663,218.46
FY 2006	8,145,023.53	2,452,297.75	121,650.00	2,903,514.67	13,622,485.95
FY 2007	7,475,182.72	1,854,318.22	185,993.00	2,795,500.11	12,220,994.05
FY 2008	4,212,909.20	1,768,985.10	32,954.20	2,105,566.10	8,120,414.60
FY 2009	1,617,245.10	1,065,668.20	365,123.00	1,090,642.00	4,138,678.30
	35,288,810.84	10,730,676.07	1,594,366.63	12,442,981.54	60,056,835.08

Between FY 2002 and 2009 VVWRA paid for all construction projects in cash utilizing existing reserves and connection fees.

Year	Other Construction Projects		All Connection Fees	
	14.5 + 18 MGD	Projects	Construction	Fees
FY 2002	1,753,006.00	409,655.00	2,242,975.91	
FY 2003	-	1,816,256.00	3,949,649.26	
FY 2004	-	846,469.80	7,098,418.55	
FY 2005	960,251.00	2,166,270.00	8,663,218.46	
FY 2006	18,323,667.00	886,227.00	13,622,485.95	
FY 2007	19,484,531.63	321,795.32	12,220,994.05	
FY 2008	9,576,706.64	4,661,337.38	8,120,414.60	
FY 2009	1,235,323.85	3,370,249.00	4,138,678.30	
	51,333,486.12	14,478,260.40	60,056,835.08	
	Total Construction			
	2002-2009	65,811,746.52		

The 14.5 and 18.0 MGD expansions increased the regional plant's ability to handle increased flows at a total cost of 51.3 million dollars. The 51.3 million dollars was paid in cash from connection fee revenue. This is why the 14.5 and 18.0 MGD expansion projects are not listed on VVWRA's debt service, which consists of State Revolving Fund (SRF) loans. If all of Victorville's connection fees were allocated to the 14.5 and 18.0 MGD projects between 2002 and 2009, the City of Victorville contributed 35.3 million dollars or 69% (35,288,810.84 / 51,333,486.12). The remaining Member Agencies contributed the balance of 16.0 million dollars or 31% [(51,333,486.12 - 35,288,810.84) / 51,333,486.12] to the 14.5 and 18.0 MGD projects. The 14.5 and 18.0 MGD expansions were built to expand the hydraulic capacity of the wastewater treatment plant located in Victorville. The Phase IIIA Regulatory Upgrade Project at a cost of 15.7 million dollars, was financed with an SRF loan, which was done to address regulatory concerns (Nitrogen) and to provide Victorville with as much recycled water as the facility could produce in excess of the Fish and Game MOU.



Funding Source Definition**Funding sources and connection (capacity) fees:**

VVWRA has determined allocation percentage to keep track of capital project costs separately from operation costs based on historical data. For example, for the Sub-Regional projects, VVWRA has 61% for operations and 39% for capital for all grants and SRF loans. The allocation summary for the SRF loan follows.

SRF (State Revolving Fund) Loans:

The California State Water Resource Control Board provides local government entities with relatively low interest rates for its SRF loans for mainly infrastructure projects. VVWRA has eight SRF loans as shown below.

2019	9.5 MGD Capital Improvements	11 MGD Expansion	North Apple Valley Interceptor	Phase IIIA Regulatory Upgrades	Upper Narrows Replacement Project	Nanticoke Bypass Project	Apple Valley Sub-Regional Project	Hesperia Sub-Regional Project	2019 Total
SRF Loan Amount	\$ 4,069,859	\$ 11,430,726	\$ 4,084,688	\$ 15,717,668	\$ 4,286,380	\$ 4,459,190	\$ 27,129,023	\$ 40,658,810	\$ 111,836,344
Annual Payment	\$ 265,050	\$ 579,870	\$ 258,151	\$ 1,027,610	\$ 257,745	\$ 270,220	\$ 1,050,521	\$ 1,574,511	\$ 5,283,678
Payment Date	September 15	April 3	February 13	June 30	December 31	June 30	February 28	February 28	
I. Operations	4.30%	0.00%	0.00%	75.00%	100.00%	75.00%	61.00%	61.00%	
Original Loan	\$ 175,004	\$ -	\$ -	\$ 11,788,251	\$ 4,286,380	\$ 3,344,393	\$ 16,548,704	\$ 24,801,874	
Principal	\$ 10,827	\$ -	\$ -	\$ 530,766	\$ 197,174	\$ 142,474	\$ 486,104	\$ 727,394	\$ 2,094,739
Interest	\$ 570	\$ -	\$ -	\$ 239,942	\$ 60,571	\$ 61,251	\$ 154,714	\$ 233,058	\$ 750,106
Annual Payment	\$ 11,397	\$ -	\$ -	\$ 770,708	\$ 257,745	\$ 203,725	\$ 640,818	\$ 960,452	\$ 2,844,845
2. Capital	95.70%	100.00%	100.00%	25.00%	0.00%	25.00%	39.00%	39.00%	
Original Loan	\$ 3,894,855	\$ 11,430,726	\$ 4,084,688	\$ 3,929,417	\$ -	\$ 1,114,798	\$ 10,580,319	\$ 15,856,936	
Principal	\$ 240,960	\$ 538,835	\$ 222,603	\$ 176,922	\$ -	\$ 47,491	\$ 310,787	\$ 465,055	\$ 2,002,653
Interest	\$ 12,693	\$ 41,035	\$ 35,548	\$ 79,981	\$ -	\$ 20,417	\$ 98,916	\$ 149,004	\$ 437,594
Annual Payment	\$ 253,653	\$ 579,870	\$ 258,151	\$ 256,903	\$ -	\$ 67,908	\$ 409,703	\$ 614,059	\$ 2,440,247
Total Principal	\$ 251,787	\$ 538,835	\$ 222,603	\$ 707,688	\$ 197,174	\$ 189,965	\$ 796,891	\$ 1,192,449	\$ 4,097,391
Total Interest	\$ 13,263	\$ 41,035	\$ 35,548	\$ 319,922	\$ 60,571	\$ 81,668	\$ 253,630	\$ 382,062	\$ 1,187,700
Annual Payment	\$ 265,050	\$ 579,870	\$ 258,151	\$ 1,027,610	\$ 257,745	\$ 271,633	\$ 1,050,521	\$ 1,574,511	\$ 5,285,091



Prop (Proposition) 1 grant:

On November 6, 2015, the California State Water Resource Control Board provided VVWRA with a grant to fund the construction of Apple Valley (only) sub-regional plant. The loan amount of \$9,181,841 was limited to \$8,961,687 due to funding allocation determined as the grant percentage against the total grant and SFR loan actually used. VVWRA uses the same allocation rates, 61% for operations and 39% for capital.

Prop (Proposition) 13 “Water Recycling” grant:

On November 6, 2015, the California State Water Resource Control Board provided VVWRA with a grant to fund the construction of Apple Valley (only) sub-regional plant. The loan amount of \$4,000,000 was limited to \$3,992,567 due to funding allocation determined as the grant percentage against the total grant and SFR loan actually used. VVWRA uses the same allocation rates, 61% for operations and 39% for capital.

Prop (Proposition) 84 grant:

State of California, Department of Water Resources has provided VVWRA with \$3,000,000 grant per ‘Round 2 Integrated Regional Water Management Implementation Grant Agreement’ dated July 14, 2014. The entire \$3,000,000 was utilized on the construction of both Apple Valley and Hesperia plants and granted for reimbursements. VVWRA uses the same allocation rates, 61% for operations and 39% for capital.

Title 16 grant:

United States Department of the Interior, Bureau of Reclamation has provided VVWRA with a grant (originally \$5,000,000 on September 30, 2011 and then modified to \$4,866,994.46 on July 9, 2018) based on Southern California Desert Region Integrated Water and Economic Sustainability Plan. Mojave Water Agency (MWA) received Title 16 authorizing a regional recycled water program under PL 102-575. MWA has designated VVWRA to receive up to \$5,000,000 of the Title 16 fund to construct sub-regional water reclamation plants and recycled water distribution systems that implement the water recycling program. The two sub-regional plants will produce 2,240 AFY for groundwater recharge and recycled water customers, satisfying about 7% of the area’s water demand. This use of recycled water will replace current uses of the local groundwater and State Water Project Water. The entire \$4,866,994.46 was granted. VVWRA uses the same allocation rates, 61% for operations and 39% for capital.

FEMA and Cal OES grants:

Federal Emergency Management Agency (FEMA) and California Office of Emergency Services (Cal OES) have granted VVWRA with grants based on President Obama’s declaration of national disaster announced on January 26, 2011. These grants include \$33,124,002 for Upper Narrows pipeline, \$7,954,740 for Lower Narrows pipeline, \$228,416 for other large projects, and \$24,940 for other small projects, making a total grant of \$41,332,098. This entire amount was utilized for the construction of a temporary pipeline, a permanent pipeline to replace the temporary line, and all large and small projects affected by this national disaster. These grants were for 100% operations.



Fiscal Year 2007

Project Code	Project Description	Funding Sources								Total
		Additions during YE 6/30/07	SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES	Operating Revenue/Reserve	
Miscellaneous C034 C036	Other Projects 14.5 MGD Regional Plant Expansion 18 MGD Regional Plant Expansion	645,488 9,115,556 10,368,975 20,130,020							645,488 9,115,556 10,368,975 19,484,532	645,488 9,115,556 10,368,975 20,130,020
FY 2007		Debt Service Payment		Connection (Capacity) Fee Received				Capital Fund Balance		
Operating Revenues		Operating Revenue/Reserve		Apple Valley				Beginning Balance		
Operating Expenses excluding Depreciation		Connection (Capacity) Fee		SB County				Connection (Capacity) Fee		
Operating Loss				Hesperia				Interest and Misc Income		
Connection (Capacity) Fee Received				Victorville				Capital Acquisitions		
								Capacity Loan Repayments		
								5,404,782		

*Note: VVWRA has spent \$36M on both 14.5 and 18 MGD projects prior to FY 2007.

Project Description

14.5 MGD Regional Plant Expansion (C034)

The 14.5 MGD expansion project increased overall capacity at the wastewater treatment plant to 14.5 MGD by building.

18 MGD Regional Plant Expansion (C036)

The 18 MGD expansion project increased overall capacity at the wastewater treatment plant to 18 MGD by designing and building.



Fiscal Year 2008

Project Code	Project Description	Additions during YE 6/30/08	Funding Sources						Total	
			SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES		Operating Revenue/Reserve
C034	14.5 MGD Regional Plant Expansion	1,552,136								1,552,136
C036	18 MGD Regional Plant Expansion	8,024,571								8,024,571
C038	CIP Financing and Bond	214,945								214,945
C100	Westside WRP Phase III	4,022,057								4,022,057
C105	Eastside WRP	34,607						3,016,543		3,051,150
C107	Reclaimed Water Studies	49,789								49,789
C108	Sewer Master Plan	257,737								257,737
C109	SAFARI Sewer	82,203								82,203
		14,238,044						3,356,483	10,881,561	14,238,044

FY 2008	
Operating Revenues	6,339,380
Operating Expenses excluding Depreciation	(8,751,911)
Operating Loss	(2,412,531)
Connection (Capacity) Fee Received	8,120,414

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	11,397	Apple Valley	1,768,985	Beginning Balance	5,404,782
Connection (Capacity) Fee	1,091,674	SB County	32,954	Connection (Capacity) Fee	8,120,414
	1,103,071	Hesperia	2,105,566	Interest and Misc Income	923,569
		Victorville	4,212,909	Capital Acquisitions	(10,881,561)
			8,120,414	Capacity Loan Repayments	(1,091,674)
					2,475,530

Project Description

14.5 MGD Regional Plant Expansion (C034)

The 14.5 MGD expansion project increased overall capacity at the wastewater treatment plant to 14.5 MGD by building.

18 MGD Regional Plant Expansion (C036)

The 18 MGD expansion project increased overall capacity at the wastewater treatment plant to 18 MGD by designing and building.

CIP Financing and Bond (C038)

The CIP financing and bond project provided financial planning services for proposed capital projects and to prepare the Authority to issue bonds for those capital projects.



Westside WRP Phase III (C100)

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Eastside WRP (C105)

The eastside water reclamation plant is a project to address flows from the golden triangle area of Victorville and the unincorporated area of the Town of Apple Valley. The concept is to eliminate the installation of an additional interceptor through the lower narrows.

Reclaimed Water Studies (C107)

The reclaimed water studies were performed to identify issues associated with the construction of the Sub-Regional water reclamation plants in Hesperia and Apple Valley. The studies were also used to prepare the Report of Waste Discharge for permitting the WRP's through Lahontan Regional Water Quality Control Board.

Sewer Master Plan (C108)

The State of California required that all utilities operating a sewer collection system prepare a sewer master plan that identified and evaluated a set criteria dictated by the State.

SAFARI Sewer (C109)

The Santa Fe Regional Interceptor (SAFARI) sewer project replaced an undersized interceptor on Santa Fe Avenue in Hesperia that experienced multiple sewer overflows.

Fiscal Year 2009

Project Code	Project Description	Additions during YE 6/30/09	Funding Sources					Total			
			SRF	Prop 1	Prop 13	Prop 84	Title 16		FEMA/Cal OES	Operating Revenue/Reserve	Connection (Capacity) Fee
C034	14.5 MGD Regional Plant Expansion	280,928								280,928	280,928
C036	18 MGD Regional Plant Expansion	954,395								954,395	954,395
C038	CIP Financing and Bond	219,034								219,034	219,034
C100	Westside WRP Phase III	1,906,783								476,696	1,906,783
C101	Hesperia WRP	148,591								90,640	148,591
C102	Hesperia Pump Station & Force Main	1,610								982	1,610
C103	Apple Valley WRP	84,413								51,492	84,413
C104	Nantlake Gravity Interceptor	300,000								225,000	300,000
C105	Eastside WRP	20,029								20,029	20,029
C107	Reclaimed Water Studies	105,903								105,903	105,903
C108	Sewer Master Plan	442,423								442,423	442,423
C109	SAFARI Sewer	116,241								116,241	116,241
C113	S Apple Valley Interceptor	25,223								25,223	25,223
		4,605,574								2,223,485	4,605,574

FY 2009	
Operating Revenues	7,313,826
Operating Expenses excluding Depreciation	(8,263,574)
Operating Loss	(949,748)
Connection (Capacity) Fee Received	4,138,678

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	11,397	Apple Valley	1,065,669	Beginning Balance	2,475,530
Connection (Capacity) Fee	1,091,674	SB County	365,123	Connection (Capacity) Fee	4,138,678
		Hesperia	1,090,642	Interest and Misc Income	443,881
		Victorville	1,617,245	Capital Acquisitions	(2,223,485)
			4,138,678	Capacity Loan Repayments	(1,091,674)
					3,742,930

Project Description

14.5 MGD Regional Plant Expansion (C034)

The 14.5 MGD expansion project increased overall capacity at the wastewater treatment plant to 14.5 MGD by building.

18 MGD Regional Plant Expansion (C036)

The 18 MGD expansion project increased overall capacity at the wastewater treatment plant to 18 MGD by designing and building.

CIP Financing and Bond (038)

The CIP financing and bond project provided financial planning services for proposed capital projects and to prepare the Authority to issue bonds for those capital projects.



Westside WRP Phase III (C100)

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Hesperia Pump Station and Force Main (C102)

The Hesperia Pump Station and force main project takes wastewater from Maple Street in Hesperia and pumps it to the Hesperia water reclamation Plant (WRP).

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.

Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

Eastside WRP (C105)

The eastside water reclamation plant is a project to address flows from the golden triangle area of Victorville and the unincorporated area of the Town of Apple Valley. The concept is to eliminate the installation of an additional interceptor through the lower narrows.

Reclaimed Water Studies (C107)

The reclaimed water studies were performed to identify issues associated with the construction of the Sub-Regional water reclamation plants in Hesperia and Apple Valley. The studies were also used to prepare the Report of Waste Discharge for permitting the WRP's through Lahontan Regional Water Quality Control Board.



Sewer Master Plan (C108)

The State of California required that all utilities operating a sewer collection system prepare a sewer master plan that identified and evaluated a set criteria dictated by the State.

SAFARI Sewer (C109)

The Santa Fe Regional Interceptor (SAFARI) sewer project replaced an undersized interceptor on Santa Fe Avenue in Hesperia that experienced multiple sewer overflows.

S Apple Valley Interceptor (C113)

The South Apple Valley Interceptor is a project in conjunction with San Bernardino County Flood Control District to replace the portion of the interceptor in Desert Knolls Wash. The County will be performing improvements to the flood control basin and the interceptor line was damaged in December of 2016 which will require its replacement.



Fiscal Year 2010

Project Code	Project Description	Funding Sources							Total		
		Additions during YE 6/30/10	SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES		Operating Revenue/Reserve	Connection (Capacity) Fee
C100	Westside WRP Phase III	308,688	-	-	-	-	-	-	231,516	77,172	308,688
C101	Hesperia WRP	1,450,257	1,138,889	-	-	-	311,368	-	-	-	1,450,257
C103	Apple Valley WRP	1,080,755	545,079	186,430	81,057	-	270,189	-	15,000	5,000	1,080,755
C104	Nantake Gravity Interceptor	20,000	-	-	-	-	-	-	-	-	20,000
C107	Reclaimed Water Studies	37,784	-	-	-	-	-	-	-	37,784	37,784
C108	Sewer Master Plan	190,342	-	-	-	-	-	-	-	190,342	190,342
C109	SAFARI Sewer	18,325	-	-	-	-	-	-	-	18,325	18,325
C113	S Apple Valley Interceptor	17,129	-	-	-	-	-	-	-	17,129	17,129
C115	Lab-EC-IT-Const Bldg (Butler Bldg)	9,845	-	-	-	-	-	-	-	9,845	9,845
Fund 07	Miscellaneous Projects	446,907	-	-	-	-	-	-	-	446,907	446,907
		3,580,032	1,681,968	186,430	81,057	-	581,557	-	246,516	802,504	3,580,032

FY 2010	9,715,020
Operating Revenues	(8,638,434)
Operating Expenses excluding Depreciation	1,076,586
Operating Loss	3,166,772

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	11,397	Apple Valley	569,060	Beginning Balance	3,742,930
Connection (Capacity) Fee	1,091,674	SB County	10,875	Connection (Capacity) Fee	3,166,772
	1,103,071	Hesperia	1,309,521	Interest and Misc Income	122,022
		Victorville	1,277,316	Capital Acquisitions	(802,504)
			3,166,772	Capacity Loan Repayments	(1,091,674)
					5,137,546

Project Description

Westside WRP Phase III (C100)

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.



Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

Reclaimed Water Studies (C107)

The reclaimed water studies were performed to identify issues associated with the construction of the Sub-Regional water reclamation plants in Hesperia and Apple Valley. The studies were also used to prepare the Report of Waste Discharge for permitting the WRP's through Lahontan Regional Water Quality Control Board.

Sewer Master Plan (C108)

The State of California required that all utilities operating a sewer collection system prepare a sewer master plan that identified and evaluated a set criteria dictated by the State.

SAFARI Sewer (C109)

The Santa Fe Regional Interceptor (SAFARI) sewer project replaced an undersized interceptor on Santa Fe Avenue in Hesperia that experienced multiple sewer overflows.

S Apple Valley Interceptor (C113)

The South Apple Valley Interceptor is a project in conjunction with San Bernardino County Flood Control District to replace the portion of the interceptor in Desert Knolls Wash. The County will be performing improvements to the flood control basin and the interceptor line was damaged in December of 2016 which will require its replacement.

Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Miscellaneous Projects

The minor projects include retrofitting existing aeration basins, repairing four metering stations, upgrading the emergency generator, as well as rebuilding the number 2 engine.



Fiscal Year 2011

Project Code	Project Description	Additions during YE 6/30/11	Funding Sources					Operating Revenue/Reserve	Connection (Capacity) Fee	Total
			SRF	Prop 1	Prop 13	Prop 84	Title 16			
C100	Westside WRP Phase III	1,983,642								
C101	Hesperia WRP	308,277								
C103	Apple Valley WRP	411,035								
C104	Nantlake Gravity Interceptor	291,390	50,265	21,854		102,759				
C109	SAFARI Sewer	146,424				72,848				
C114	Energy Efficiency	123,103								
C115	Lab-EC-IT-Const Bldg (Butler Bldg)	52,157								
E003	UNE - Temp Pipeline	104,181								
Fund 07	Miscellaneous Projects	2,420,808					2,269,507			
		21,086	50,265	21,854		175,606				
		5,416,216	1,990,524							
							2,269,507			
								166,165		
										5,416,216

FY 2011
Operating Revenues 10,616,850
Operating Expenses excluding Depreciation (9,327,938)
Operating Loss 1,288,912

Connection (Capacity) Fee Received 2,205,637

Project Description**Westside WRP Phase III (C100)**

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.

Debt Service Payment	Connection (Capacity) Fee Received	Capital Fund Balance	
		Beginning Balance	Connection (Capacity) Fee
Operating Revenue/Reserve	Apple Valley 764,740		5,137,546
Connection (Capacity) Fee	SB County 11,397	99,188	2,205,637
	Hesperia 1,091,674	374,187	90,544
	Victorville 1,103,071	967,522	(166,365)
		2,205,637	(1,091,674)
			6,175,688



Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

SAFARI Sewer (C109)

The Santa Fe Regional Interceptor (SAFARI) sewer project replaced an undersized interceptor on Santa Fe Avenue in Hesperia that experienced multiple sewer overflows.

Energy Efficiency (C114)

A project to improve the energy efficiency and to produce power from biogas at the wastewater treatment plant.

Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Upper Narrows Emergency Temporary Pipeline (E003)

VVWRA experienced severe rain storm during December 2010 causing damage to its interceptor. VVWRA installed an emergency temporary bypass over the Mojave River to divert the wastewater flow from damaged interceptor.

Miscellaneous Projects

The minor projects include a plant-wide telemetry system, and other minor projects.

Fiscal Year 2012

Project Code	Project Description	Funding Sources						Operating Revenue/Reserve	Connection (Capacity) Fee	Total
		SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES			
C100	Westside WRP Phase III & III-A	14,288,662				135,901				14,288,662
C101	Hesperia WRP - Sub Regional	547,871				140,300				683,772
C103	Apple Valley WRP - Sub Regional	288,281	98,962	43,027						570,570
C104	Nanticoke Gravity Interceptor	11,210							2,803	11,210
C113	S Apple Valley Interceptor	4,025								4,025
C115	Lab-EC-TI-Const Bldg (Butler Bldg)	35,467								35,467
C117	Santa Fe Interceptor	2,004,555								2,004,555
C124	Biggas Project for Biscobits Facility	25,441								25,441
E004	UNE - Permanent Pipeline	555,961								555,961
		18,179,662	98,962	43,027	-	276,200			28,243	18,179,662

*Note: Project code C109 and C117 are both used to record the construction of Santa Fe Interceptor

FY 2012	
Operating Revenues	10,469,338
Operating Expenses excluding Depreciation	(12,057,130)
Operating Loss	(1,587,792)
Connection (Capacity) Fee Received	2,012,423

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	11,397	Apple Valley	679,478	Beginning Balance	6,175,688
Connection (Capacity) Fee	1,091,674	SB County	68,063	Connection (Capacity) Fee	2,012,423
	1,103,071	Hesperia	349,590	Interest and Misc Income	35,698
		Victorville	915,494	Capital Acquisitions	(28,245)
			2,012,423	Capacity Loan Repayments	(1,091,674)
					7,103,892

Project Description

Westside WRP Phase III (C100)

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.



Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

S Apple Valley Interceptor (C113)

The South Apple Valley Interceptor is a project in conjunction with San Bernardino County Flood Control District to replace the portion of the interceptor in Desert Knolls Wash. The County will be performing improvements to the flood control basin and the interceptor line was damaged in December of 2016 which will require its replacement.

Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Santa Fe Interceptor (C117)

The purpose of the Santa Fe Interceptor is to address the sewer overflow occurred at the "I" Avenue pipeline in the City of Hesperia during the severe rain storm in December 2010.

Biogas Project for Bio-solids Facility (C124)

This project is to enable VVWRA to generate electrical power from the biogas it produces from FOG, ADM and traditional waste streams.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.



Fiscal Year 2013

Project Code	Project Description	Funding Sources						Total				
		Additions during YE 6/30/13	SRF	Prop 1	Prop 13	Prop 84	Title 16		FEMA/Cat OES	Operating Revenue/Reserve	Connection (Capacity) Fee	
Miscellaneous	Capital Assets Not in Service	227,006							227,006			227,006
C100	Westside WRP Phase III & III-A	2,757,275	2,757,275									2,757,275
C101	Hesperia WRP - Sub Regional	355,782	291,390				64,392					355,782
C103	Apple Valley WRP - Sub Regional	307,049	167,551	57,517	25,008		56,973					307,049
C104	Nanticoke Gravity Interceptor	2,373							1,780			2,373
E004	UNE - Permanent Pipeline	156,436							73,760			156,436
		3,805,921	3,216,215	57,517	25,008		121,366		302,546		593	3,805,921

FY 2013	
Operating Revenues	1,526,052
Operating Expenses excluding Depreciation	(9,977,454)
Operating Loss	1,548,598
Connection (Capacity) Fee Received	1,620,728

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	738,773	Apple Valley	783,604	Beginning Balance	7,103,892
Connection (Capacity) Fee	1,334,133	SB County	33,938	Connection (Capacity) Fee	1,620,728
	2,072,906	Hesperia	223,005	Interest and Misc Income	23,236
		Victorville	580,182	Capital Acquisitions	(593)
			1,620,729	Capacity Loan Repayments	(1,334,133)
					7,413,130

Project Description

Capital Assets Not in Service

VVWRA has purchased equipment including pumps and instruments that are not placed into service at the fiscal year end.

Westside WRP Phase III (C100)

The 14.5 MGD project addressed specific regulatory and capacity issues at the wastewater treatment plant including: installation of helical skimmers on the primary clarifiers, a gas conditioning system, aqua diamond tertiary filters, and ultraviolet disinfection.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.



Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.

Fiscal Year 2014

Project Code	Project Description	Additions during YE 6/30/14	Funding Sources						Total			
			SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES		Operating Revenue/Reserve	Connection (Capacity) Fee	
C101	Hesperia WRP - Sub Regional	311,069	248,360					62,709				311,069
C103	Apple Valley WRP - Sub Regional	199,321	22,744					165,374				199,321
C105	Eastside WRP	7,150		3,395								7,150
C115	Lab-EC-IT-Construction Building (Butler Bl)	66,891										66,891
C116	Westside Plant Phase III-B Regulatory	13,505										13,505
C124	Biogas Project for Bio-solids Facility	38,925										38,925
C126	Oro Grande Interceptor Project	218,489										218,489
C127	Osum Wash Interceptor Project	43,148										43,148
E004	UNE - Permanent Pipeline	4,377,852	239,921									4,377,852
		5,276,351	511,025	7,808	3,395	-	228,084	4,094,315		392,799	38,925	5,276,351

FY 2014	
Operating Revenues	10,744,312
Operating Expenses excluding Depreciation	(10,090,899)
Operating Loss	653,413
Connection (Capacity) Fee Received	1,524,577

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	782,104	Apple Valley	512,445	Beginning Balance	7,413,130
Connection (Capacity) Fee	1,348,577	SB County	47,063	Connection (Capacity) Fee	1,524,577
	2,130,681	Hesperia	229,116	Interest and Misc Income	34,881
		Victorville	735,954	Capital Acquisitions	(38,925)
			1,524,577	Capacity Loan Repayments	(1,348,577)
					7,585,086

Project Description

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.

Eastside WRP (C105)

The eastside water reclamation plant is a project to address flows from the golden triangle area of Victorville and the unincorporated area of the Town of Apple Valley. The concept is to eliminate the installation of an additional interceptor through the lower narrows.



Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Westside Plant Phase III-B Regulatory (C116)

The WDR permit adopted in 2012 for the percolation ponds and drying beds requires that the bio-solids equalization basins be lined with an impermeable material. The Permit includes a timeline for completion of the project.

Biogas Project for Bio-solids Facility (C124)

This project is to enable VVWRA to generate electrical power from the biogas it produces from FOG, ADM and traditional waste streams.

Oro Grande Interceptor Project (C126)

This project serves as the Replacement or lining of the interceptor in the Mojave River serving Oro Grande.

Ossum Wash Interceptor Project (C127)

The double barrel interceptor that crosses Ossum Wash requires lining to ensure its structural integrity.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.

Fiscal Year 2015

Project Code	Project Description	Funding Sources						Total
		SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cat OES	
Miscellaneous	Capital Assets Not in Service (9999)	191,842						191,842
C101	Hesperia WRP - Sub Regional	2,905,071	286,114			857,883		3,762,954
C103	Apple Valley WRP - Sub Regional	833,462		124,397		217,143		1,461,117
C113	S Apple Valley Interceptor							117,640
C115	Lab-EC-IT-Construction Building (Butler Bl)							53,604
C116	Westside Plant Phase III-B Regulatory							1,615,480
C124	Biogas Project for Bio-solids Facility							193,460
C126	Oro Grande Interceptor Project							45,525
C127	Ossun Wash Interceptor Project							7,371
E004	UNE - Permanent Pipeline	970,137						970,137
R128	Tao Road Realignment				23,521,494			23,521,494
R129	Yates Road Relocation							11,100
		4,708,670	286,114	124,397	-	1,075,026		2,163,266
		32,184,435						32,184,435

FY 2015	
Operating Revenues	11,312,474
Operating Expenses excluding Depreciation	(10,005,845)
Operating Loss	1,306,629
Connection (Capacity) Fee Received	1,387,175

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	782,104	Apple Valley	775,175	Beginning Balance	7,585,086
Connection (Capacity) Fee	1,348,577	SB County	80,600	Connection (Capacity) Fee	1,387,175
	2,130,681	Hesperia	306,058	Interest and Misc Income	25,627
		Victorville	225,342	Capital Acquisitions	(305,468)
			1,387,175	Capacity Loan Repayments	(1,348,577)
					7,543,842

Project Description

Capital Assets Not in Service

VVWRA has purchased equipment including pumps and instruments that are not placed into service at the fiscal year end.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.



S Apple Valley Interceptor (C113)

The South Apple Valley Interceptor is a project in conjunction with San Bernardino County Flood Control District to replace the portion of the interceptor in Desert Knolls Wash. The County will be performing improvements to the flood control basin and the interceptor line was damaged in December of 2016 which will require its replacement.

Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Westside Plant Phase III-B Regulatory (C116)

The WDR permit adopted in 2012 for the percolation ponds and drying beds requires that the bio-solids equalization basins be lined with an impermeable material. The Permit includes a timeline for completion of the project.

Biogas Project for Bio-solids Facility (C124)

This project is to enable VVWRA to generate electrical power from the biogas it produces from FOG, ADM and traditional waste streams.

Oro Grande Interceptor Project (C126)

This project serves as the Replacement or lining of the interceptor in the Mojave River serving Oro Grande.

Ossum Wash Interceptor Project (C127)

The double barrel interceptor that crosses Ossum Wash requires lining to ensure its structural integrity.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.

Tao Road Realignment (R128)

This project will result in the elimination of two 90 degree interceptor bends at Tao road with 45 degree bends to reduce odor generation.

Yates Road Relocation (R129)

The Town of Apple Valley is constructing the Nisqualli Bridge which requires that the road be widened. The existing metering site needs to be relocated to accommodate the enlarged roadway.



Fiscal Year 2016

Project Code	Project Description	Funding Sources							Total			
		Additions during YE 6/30/16	SRF	Edison OBF	Prop 1	Prop 13	Prop 84	Title 16		FEMA/Cal OES	Operating Revenue/Reserve	Connection (Capacity) Fee
C101	Hesperia WRP - Sub Regional	17,060,383	13,513,829				2,227,586	1,318,968				17,060,383
C103	Apple Valley WRP - Sub Regional	16,488,587	9,804,096		3,363,585	1,463,298	772,414	1,083,194				16,488,587
C104	Nanticoke Gravity Interceptor	312,670	269,129								10,885	312,670
C115	Lab-EC-TI-Construction Building (Butler Bldg)	5,142										5,142
C126	Oro Grande Interceptor Project	1,106										1,106
C127	Ossum Wash Interceptor Project	425										425
E004	UNE - Permanent Pipeline	3,436,513	674,209						2,545,710			3,436,513
R128	Tao Road Realignment	21,600										21,600
R129	Yates Road Relocation	58,940										58,940
R133	Aeration Efficiency Project	986,554		270,689							58,940	986,554
		38,371,919	24,261,263	270,689	3,363,585	1,463,298	3,000,000	2,402,161	2,545,710	993,387	69,825	38,371,919

FY 2016	
Operating Revenues	12,305,439
Operating Expenses excluding Depreciation	(11,174,660)
Operating Loss	1,130,779
Connection (Capacity) Fee Received	1,146,089

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	782,104	Apple Valley	744,967	Beginning Balance	7,343,842
Connection (Capacity) Fee	1,348,571	SB County	76,400	Connection (Capacity) Fee	1,146,089
	2,130,681	Hesperia	324,722	Interest and Misc Income	32,096
		Victorville	-	Capital Acquisitions	(69,825)
			1,146,089	Capacity Loan Repayments	(1,348,577)
					7,103,625

Project Description

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.

Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.



Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Oro Grande Interceptor Project (C126)

This project serves as the Replacement or lining of the interceptor in the Mojave River serving Oro Grande.

Ossum Wash Interceptor Project (C127)

The double barrel interceptor that crosses Ossum Wash requires lining to ensure its structural integrity.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.

Tao Road Realignment (R128)

This project will result in the elimination of two 90 degree interceptor bends at Tao road with 45 degree bends to reduce odor generation.

Yates Road Relocation (R129)

The Town of Apple Valley is constructing the Nisqualli Bridge which requires that the road be widened. The existing metering site needs to be relocated to accommodate the enlarged roadway.

Aeration Efficiency Project (R133)

This project will improve the oxygen transfer efficiency of the facility and reduce energy consumption.

Fiscal Year 2017

Project Code	Project Description	Funding Sources							Total			
		Additions during YE 6/30/17	SRF	Prop 1	Prop 13	Prop 84	Title 16	FEMA/Cal OES		CBC	Operating Revenue/Reserve	Connection (Capacity) Fee
C005	Desert Knolls Wash	37,620								37,620		37,620
C101	Hesperia WRP - Sub Regional	16,401,444	16,401,444									16,401,444
C103	Apple Valley WRP - Sub Regional	16,658,875	11,161,446	3,831,541	1,665,887					369,855	123,285	16,658,875
C104	Nauvoo Gravity Interceptor	4,041,514	3,548,373							2,696		4,041,514
C115	Lab-EC-IT-Construction Building (Butler Blvd)	2,696								1,680		2,696
C126	Oro Grande Interceptor Project	1,680							135,973			1,680
C131	Micro-grid/Battery Storage	135,973								224,554		135,973
E004	UNR - Permanent Pipeline	2,952,720	2,402,113						326,053			2,952,720
R128	Tao Road Realignment	960								960		960
R133	Aeration Efficiency Project	49,226								49,226		49,226
		40,282,707	35,513,376	3,831,541	1,665,887				326,053	135,973	123,285	40,282,707

FY 2017	Operating Revenues	13,655,631
	Operating Expenses excluding Depreciation	(10,904,348)
	Operating Loss	2,751,283
	Connection (Capacity) Fee Received	2,802,002

Debt Service Payment		Connection (Capacity) Fee Received		Capital Fund Balance	
Operating Revenue/Reserve	1,041,339	Apple Valley	765,073	Beginning Balance	7,103,625
Connection (Capacity) Fee	1,348,577	SB County	129,200	Connection (Capacity) Fee	2,802,002
	2,389,916	Hesperia	132,065	Interest and Misc Income	37,886
		Victorville	1,775,664	Capital Acquisitions	(123,285)
			2,802,002	Capacity Loan Repayments	(1,348,577)
					8,471,651

Project Description

Desert Knolls Wash (C005)

San Bernardino County Flood Control intends to reconstruct desert knolls wash which will require VVWRA to realign its manholes in that area.

Hesperia WRP (C101)

The Hesperia WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the City of Hesperia.

Apple Valley WRP (C103)

The Apple Valley WRP project will reduce flow in the VVWRA interceptor system thus eliminating extensive sewer interceptor upgrades. In addition the facility will provide recycled water to the Town of Apple Valley.

Nanticoke Gravity Interceptor (C104)

The Nanticoke gravity interceptor replaces the obsolete Nanticoke pump station with a gravity sewer line. The new interceptor will significantly reduce VVWRA's operation and maintenance costs by eliminating the pump station.

Lab-EC-IT-Construction Building (C115)

Replacement of obsolete laboratory and former administration building. Construction delayed due to cash flow issues associated with the Upper Narrows Emergency and completion of Phase IIIA.

Oro Grande Interceptor Project (C126)

This project serves as the Replacement or lining of the interceptor in the Mojave River serving Oro Grande.

Micro-grid (C131)

This project will improve the power management and energy production of VVWRA electrical infrastructure.

Upper Narrows Emergency Permanent Pipeline (E004)

This project will construct a permanent pipeline to replace the emergency temporary bypass over the Mojave River to divert wastewater flow from the damaged interceptor.

Tao Road Realignment (R128)

This project will result in the elimination of two 90 degree interceptor bends at Tao road with 45 degree bends to reduce odor generation.

Aeration Efficiency Project (R133)

This project will improve the oxygen transfer efficiency of the facility and reduce energy consumption.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Chieko Keagy, Controller *ck*
TO: Logan Olds, General Manager
SUBJECT: Adoption of Resolution 2018-11 to Amend Asset Management Policy

RECOMMENDATION

It is recommended that the Board of Commissioners adopt Resolution 2018-11, A Resolution of the Board of Commissioners of the Victor Valley Wastewater Reclamation Authority to Amend Asset Management Policy.

REVIEW BY OTHERS

This recommendation was reviewed by External Finance Committee. The staff emailed to George Harris (City of Victorville), Casey Brooksher (City of Hesperia), and Brian Johnson (Town of Apple Valley), and Carolina Mendoza (San Bernardino County Special District); and Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

Our existing reserve policy was prepared during August of 2009. The asset management policy needed to be updated to reflect interceptor, software, and new GASB Statement 89, and other clarifications. The External Finance Committee reviewed and provided the staff with comments on the revisions. The staff presents to the Board for consideration of the revisions and other clarifying modifications.

FINANCIAL IMPACT

None noted.

RELATED IMPACTS

None noted.

RESOLUTION 2018-11

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
TO AMEND ASSET MANAGEMENT POLICY**

WHEREAS, Section 54202 of the Government Code requires every local agency to adopt policies and procedures governing the purchases of supplies and equipment by the local agency, and that all purchases of supplies and equipment shall be in accordance with said policies and procedures; and

WHEREAS the Commission of the Victor Valley Wastewater Reclamation Authority adopted and Asset Management Policy under Resolution 2009-16, attached hereto as “Exhibit A”, to establish internal accounting controls and provide accountability for the agency’s assets; and

WHEREAS, the Finance Department, as the central accounting locale for all audited fixed assets and assets under this classification, follow specific accounting rules and are subject to annual audit requirements; and

WHEREAS, the Finance Department has recommended certain amendments to the Asset Management Policy to improve and streamline procedures and provide enhanced control of the Authority’s assets.

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the Victor Valley Wastewater Reclamation Authority that the Asset Management Policy shall be amended as follows:

SECTION 1: Adopted Asset Management Policy. The Asset Management Policy shall be amended as set forth in the attached Exhibit “B,” and all assets of the Victor Valley Wastewater Reclamation Authority shall be managed and maintained in accordance with the policies and procedures set forth therein.

SECTION 2: Effective Date. This amended Asset Management Policy shall be effective immediately.

SECTION 3: Execution of Resolution. The Chair of the Commission will sign this Resolution, and the Secretary of the Commission will certify this Resolution was duly and properly adopted by the Commission.

ADOPTED AND APPROVED this 20th day of September 2018.

Jeff Rigney, Chair
VWVRA Board of Commissioners

ATTEST:

Jim Kennedy
Secretary, VWVRA Board of Commissioners

APPROVED AS TO FORM:

Piero C. Dallarda of
Best Best & Krieger LLP, Counsel, VWVRA

CERTIFICATION

I, Kristi Casteel, Secretary to the Board of Commissioners of the Victor Valley Wastewater Reclamation Authority, State of California, do hereby certify that the foregoing is a full, true and correct, adopted by the Board of Commissioners of said Authority at its meeting of September 20, 2018.

Kristi Casteel
Secretary to the Board of Commissioners

EXHIBIT A

RESOLUTION 2009-16

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
TO ADOPT AN ASSET MANAGEMENT POLICY**

WHEREAS, Section 54202 of the Government Code requires every local agency to adopt policies and procedures governing the purchases of supplies and equipment by the local agency, and that all purchases of supplies and equipment shall be in accordance with said policies and procedures; and

WHEREAS the Victor Valley Wastewater Reclamation Authority desires to implement an Asset Management Policy, attached hereto as "Exhibit A", to establish internal accounting controls and provide accountability for the agency's assets; and

WHEREAS, the Finance Department is the central accounting locale for all audited fixed assets and assets under this classification follow specific accounting rules and are subject to annual audit requirements.

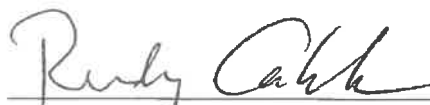
NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the Victor Valley Wastewater Reclamation Authority that an Asset Management Policy shall be adopted:

SECTION 1: Adopted Asset Management Policy. The Asset Management Policy shall be adopted as set forth in the attached Exhibit "A," and all assets of the Victor Valley Wastewater Reclamation Authority shall be managed and maintained in accordance with the policies and procedures set forth therein.

SECTION 2: Effective Date. This adopted Asset Management Policy shall be effective immediately.

SECTION 3: Execution of Resolution. The Chair of the Commission will sign this Resolution, and the Secretary of the Commission will certify this Resolution was duly and properly adopted by the Commission.

ADOPTED AND APPROVED this 16th day of July, 2009.



Rudy Cabriales
Chair, VVWRA Board of Commissioners

ATTEST:



Thurston Smith
Secretary, VVWRA Board of Commissioners

APPROVED AS TO FORM:



Piero C. Dallarda of
Best Best & Krieger LLP, Counsel, VVWRA

Z:\Board\Resolutions_Ordinances\2009\RESOLUTION 2009-16 Adopt Fixed Asset Policy.doc

BOARD SECRETARY CERTIFICATION

I, Patricia Johnson, Secretary of the Board of Commissioners of Victor Valley Wastewater Reclamation Authority, do hereby certify that the foregoing resolution was duly adopted by said Board of Commissioners at a general meeting thereof held on the 18th day of June, 2009, and that it was so adopted by the following vote:

AYES:	3
NOES:	0
ABSENT:	1
ABSTAINED:	0

IN WITNESS WHEREOF, I have hereunto set my hand and the official seal of Victor Valley Wastewater Reclamation Authority this 16th day of July, 2009.


 Patricia J. Johnson, Secretary,
 VVWRA Board of Commissioners

EXHIBIT A



Victor Valley Wastewater Reclamation Authority
Finance Department
Asset Management Policy

Approved by: _____ Date: _____
General Manager

Approved by: _____ Date: _____
Director of Administrative Services

PROCEDURE REVISION HISTORY		
Rev.	Date	Approval

*This document is controlled when viewed online. When downloaded and printed, this document becomes **UNCONTROLLED**, and users should check with the Department of Administrative Services to ensure that they have the latest version.*

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FORM B.....11

1. Purpose

The purpose of this policy is to establish uniform guidelines and procedures for management assets of Victor Valley Wastewater Reclamation Authority (VWVRA).

2. Departments Affected

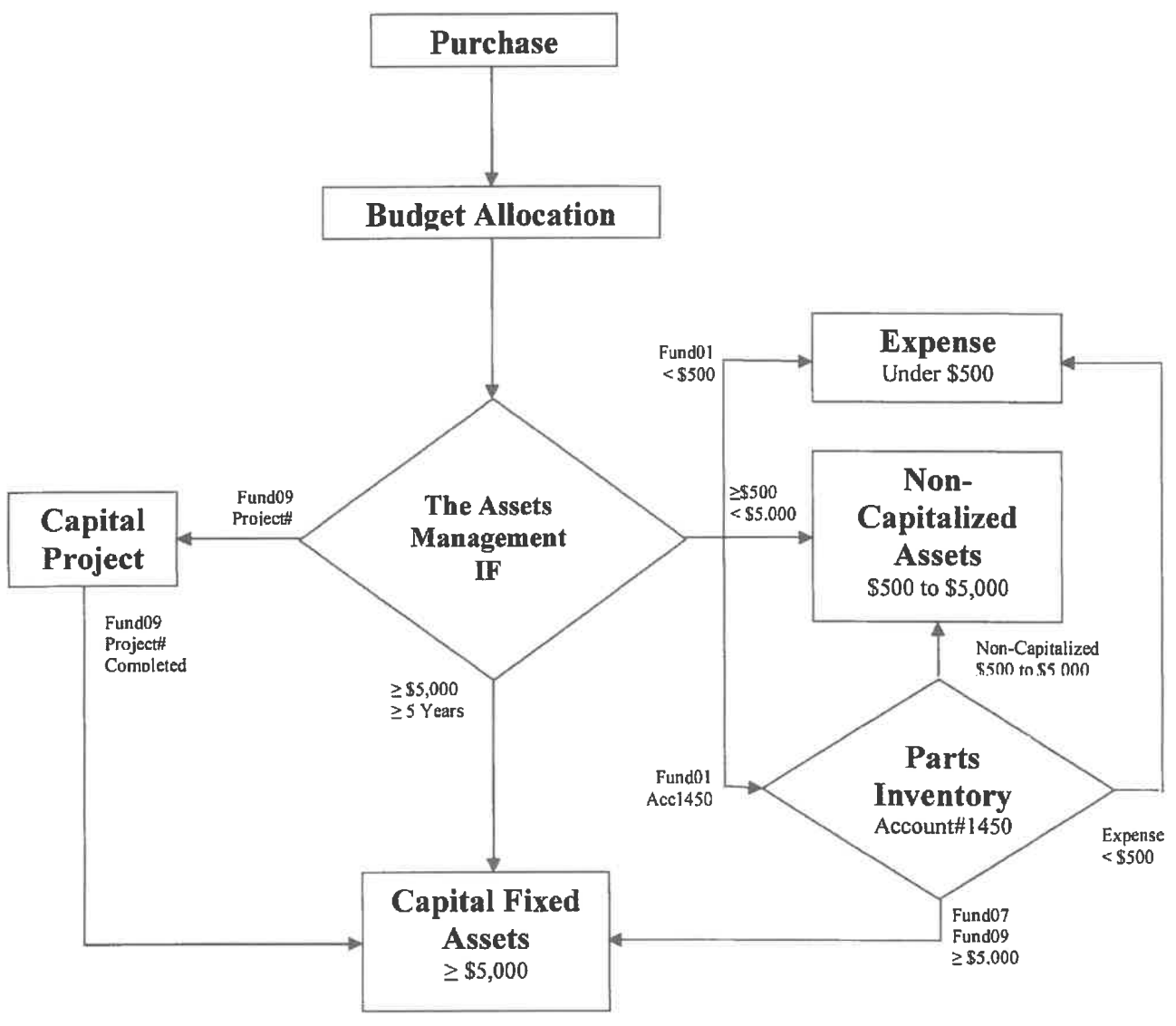
This policy applies to all VWVRA employees who purchase or manage assets for VWVRA.

3. Overview

According to GASB 34, Victor Valley Wastewater Reclamation Authority wishes to establish accounting control and accountability for the Agency's assets. The Finance Department is the central accounting locale for all audited fixed assets. Assets under this classification follow specific accounting rules and are subject to annual audit requirements.

The term *Capital Assets* is used by Victor Valley Wastewater Reclamation Authority to describe the assets that have a value equal to or greater than the capitalization threshold \$5,000 and have an estimated life of greater than five years. In fact, not all items technically meet this definition, but those items must be taken to ensure that adequate control is maintained over any such items that require special attention to compensate for a heightened risk of theft ("walk away" items). *Non-Capitalized Asset* is used to describe any individual item that has a value equal to or greater than \$500 and less than \$5,000 or useful life of between one year and five years.

VVWRA the Assets Management Framework



4. Policy for Capital Assets

Capital Assets Definition

Capital Assets are real assets or properties that have a value equal to or greater than the capitalization threshold of \$5,000 for the particular classification of the asset and have an estimated life of greater than five years. The categorized and assigned Fixed Assets Account Numbers are:

<u>Category</u>	<u>Account Code</u>	<u>Estimated Life (Years)</u>
Land	1700	
Land Improvements	1770	
Subsurface Lines	1710	20
Buildings	1720	20
Plant Equipment	1730	7
Office Equipment	1740	5
Trucks/Auto	1750	5
Construction In Progress	1760	

A capital asset is to be reported and, with certain exceptions, depreciated in government-wide statements. In the government-wide statements, assets that are not capitalized are expended in the year of acquisition.

Recording Capital Assets

Completeness and accuracy of Capital Assets should be recorded. Each asset record should include: description, year of acquisition, method of acquisition (e.g., purchase, donation, etc.), funding source, cost or estimated cost, salvage value, and estimated useful life. The tag number should be recorded on the specific assets. The asset record will also need to identify the function(s) that use the asset by fixed asset account code. The booked records of capital assets will be centrally maintained by the Finance Department.

Reporting Capital Assets

Capital assets and the associated accumulated depreciation are reported in the audited CAFR statement of Victor Valley Wastewater Reclamation Authority Statements of Net Assets. Accumulated depreciation will be reported separately. Capital assets will be reported in greater detail by major category of asset for audit purposes.

Obtaining an Asset's Acquisition Value

Acquisition Value of obtaining an asset is the total amount of the purchase that includes invoice price, sales tax, shipping, handling, installation and any all fees/charges/taxes paid in order to fulfill the terms of purchase order.

Asset Management Policy	VWVRA
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Capital assets should be reported at historical cost and should include the cost of freight, site preparation, architect and engineering fees, etc. When the value of the consideration paid can't be determined, the asset's fair-market value determines its cost.

Capitalized Interest

Capitalized interest on general long-term debt generally should not be allocated to functions or programs as a direct expense. The construction-period interest should not be included in the cost of the capital assets constructed.

The amount of interest to be capitalized is calculated by offsetting interest expense incurred from the date of the borrowing until completion of the project with interest earned on invested proceeds over the same period.

Repairs and Maintenance

The following four items will determine if maintenance or repair should be capitalized or expensed. With respect to asset improvements, costs over \$5,000 should be capitalized if:

1. The estimated life of the asset is extended by more than 25%, or
2. The cost results in an increase in the capacity of the asset, or
3. The efficiency of the asset is increased by more than 10%, or
4. Significantly changes the character of the asset

If the above items do not apply, then the cost should be expensed as repair and maintenance. Maintenance costs allow an asset to continue to be used during its originally established useful life.

Asset Salvage Value

The salvage value of an asset is the value it is expected to have when it is no longer useful for its intended purpose. In other words, the salvage value is the amount for which the asset could be sold at the end of its useful life.

Since VWVRA normally keeps assets until there is no longer a remaining value, due to being obsolete, scrapped or junk, most equipment and vehicles should have a zero salvage value. In most cases, it is probable that many infrastructure assets will have no residual value, given the cost of demolition or removal.

Capital Assets Depreciation

VWVRA uses the straight-line (SL) method to calculate depreciation. It can be used for any depreciable property. Under the straight-line depreciation method, the basis of the asset is written off evenly over the useful life of the asset. The same amount of depreciation is taken each year. At the end of an asset's life, the sum of the amounts

Asset Management Policy	VWVRA
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charged for depreciation in each accounting period (accumulated depreciation) will equal original cost less salvage value.

Disposal of Capital Assets

All assets included in this policy must be taken to the Director of Operations (at plant) or Director of Administrative Services (at Hesperia Administration Office) and General Manager for approval prior to disposition. The report to Directors will include the method of disposal, whether it is Destroyed, Donated, Lost, Sold, Stolen, Traded-in or other disposal reason. The Finance Department will remove disposed assets from the fixed asset records after the proper disposal process has been completed. When an asset is sold, a gain or loss must be recognized in the annual report and eliminated by adjusting the current period's depreciation expense.

A gain or loss is not reported when:

- Cash exchanged equals the net book value and the asset does not have a residual value.
- Cash is not exchanged and the asset is fully depreciated and has no residual value.

Disposal / Transfer / Replacement Forms

Special forms have been created for disposal and transfer of capital assets (See FORM A). Forms will need to be completed for the following circumstances:

- **Disposal** - All dispositions of capital assets will have a disposition form completed by the department having ownership of the asset and will be signed by Director and General Manager.
- **Transfer** - A transfer form will be completed by the department transferring the asset and signed by Director.
- **Replacement** - A replacement form will be completed by buyer who reports the booked assets replaced by new assets and signed by Director.

After completion of the forms they must be forwarded to the Finance Department. The forms have been specifically created to conform to the VWVRA fixed assets software and will be maintained by the Finance Department.

Record Retention

The Finance Department will keep individual asset details associated with the capital assets that meet or exceed the threshold limits while an asset is current. Individual asset detail records may be disposed three years after an asset's disposal date. All fiscal year end reports can be disposed six years after the audit has been finalized unless grant provisions require a longer retention period.

5. Policy for Non-Capitalized Assets

Control normally should occur at the department level. Departments typically would be expected to concern themselves with non-capitalized assets as an integral part of the process they use to achieve their operational goals. Therefore, individual departments, rather than the Finance Department will be responsible to control these assets.

Control responsibility should be assigned within each department. Controlled non-capitalized assets should be accounted for. Consequently, departments should assign responsibility for different groups of controlled non-capitalized assets to one specific individual. VWVRA assigned controlled non-capitalized assets groups are:

<u>Group</u>	<u>Responsibility</u>	<u>Responsible Person</u>
Maintenance	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 10px;">{</div> <div style="margin-left: 5px;"> Maintenance Operations Environmental Compliance Construction Environmental Health & Safety </div> </div>	Director of Operation
Laboratory	Laboratory	
MIS	MIS Equipment	
Administration	Administrative	} Director of Administrative Services

This assignment should be documented within the department and communicated to the Finance Department. Likewise, changes in assignments should be documented and communicated.

Individuals responsible for controlled non-capitalized assets should prepare and maintain a complete list of those items each year within the department. Each asset record on the list should include: Tag number, item description, check-in date, check-out date, location, account code, cost or estimated cost etc. FORM B At the close of each fiscal year, every individual assigned responsibility for controlled Non-Capitalized Assets should take a physical inventory, and prepare a report that provides a complete list of those items and must be compared to FORM B.

Departments should certify each year to the Finance Department that updated lists of controlled non-capitalized assets are on file and available for inspection. Also, that those lists are reliable and complete at the end of June every year for internal control purposes.

The Finance Department should periodically verify that the data on controlled non-capitalized assets is on file in each department. The Finance Department of VWVRA should ensure that the lists of non-capitalized assets have been verified by the individual departments and are complete and reliable.

6. Policy for Parts Inventory

The inventories of Spare Parts such as pump, motor, cable, wire, filter, belt etc. would be recognized immediately as an expenditure (a draw on current assets) when they are purchased.

According to "GOVERNMENTAL ACCOUNTING, AUDITING, AND FINANCIAL REPORTING", VWVRA may initially report the inventories they purchase as an inventory account 1450 and defer the recognition of an expenditure until the period in which the inventories actually are consumed. Under the Capital Assets Policy, inventories are reported as expenditure when purchased rather than capitalized as assets.

Individuals responsible for controlled parts inventory should prepare and maintain a complete list of those items each year. Each inventory record on the list should include: Tag number, item description, check-in date, check-out date, location, cost or estimated cost etc. At the close of each fiscal year on June 30, the individual responsible for controlled parts inventory should take a physical inventory and prepare a report that provides a complete list of all items. Each list must be compared to the prior period to ensure it is reliable and complete and that any discrepancies are noted for audit control.

EXHIBIT B



Victor Valley Wastewater Reclamation Authority

Finance Department

Asset Management Policy

Approved by: _____ Date: _____
General Manager

Approved by: _____ Date: _____
Controller

PROCEDURE REVISION HISTORY		
Rev.	Date	Approval

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 - Record Retention.....7**
- 5. Policy for Non-Capitalized Assets.....8**
- 6. Policy for Parts Inventory.....9**
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1. Purpose

The purpose of this policy is to establish uniform guidelines and procedures for management assets of Victor Valley Wastewater Reclamation Authority (VWVRA).

2. Departments Affected

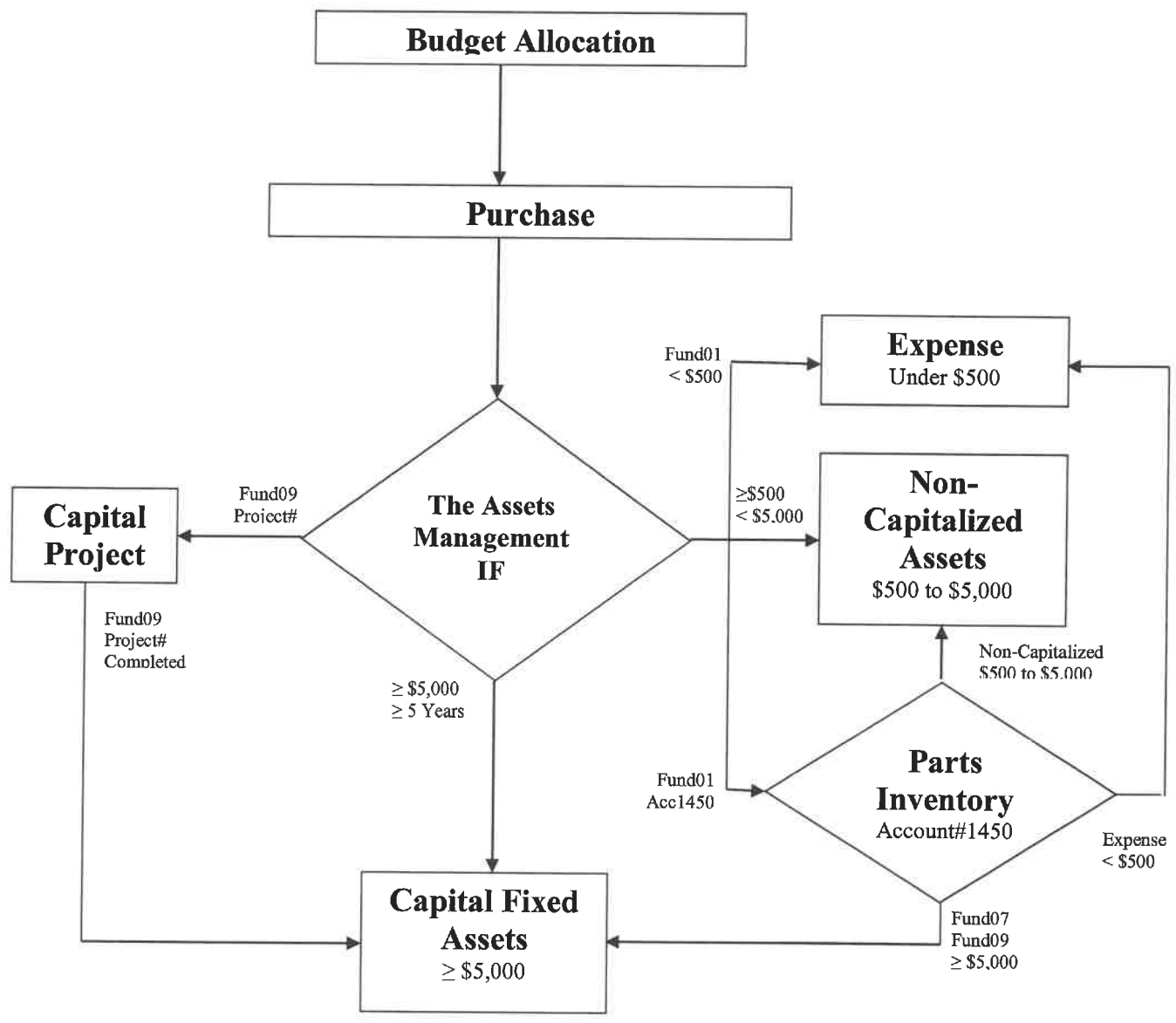
This policy applies to all VWVRA employees who purchase or manage assets for VWVRA.

3. Overview

According to GASB 34, Victor Valley Wastewater Reclamation Authority wishes to establish accounting control and accountability for the Agency's assets. The Finance Department is the central accounting locale for all audited fixed assets. Assets under this classification follow specific accounting rules and are subject to annual audit requirements.

The term *Capital Assets* is used by Victor Valley Wastewater Reclamation Authority to describe the assets that have a value equal to or greater than the capitalization threshold \$5,000 and have an estimated life of greater than five years. In fact, not all items technically meet this definition, but those items must be taken to ensure that adequate control is maintained over any such items that require special attention to compensate for a heightened risk of theft ("walk away" items). *Non-Capitalized Asset* is used to describe any individual item that have a value equal to or greater than \$500 and less than \$5,000 or useful life of between one year and five years.

VVWRA the Assets Management Framework



4. Policy for Capital Assets

Capital Assets Definition

Capital Assets are real assets or properties that have a value equal to or greater than the capitalization threshold of \$5,000 for the particular classification of the asset and have an estimated life of greater than five years. The categorized and assigned Fixed Assets Account Numbers are:

<u>Category</u>	<u>General Ledger Account Code</u>	<u>Estimated Life – Years</u>
Land	1700	Not applicable
Land Improvements	1770	15
Subsurface Lines – 10 inch diameter or less	1710	20
Interceptor Lines – more than 10 inch diameter		1710
50		
Buildings	1720	20
Plant Equipment	1730	7
Office Equipment	1740	5
Software	1780	5
Trucks/Auto	1750	5
Construction in Progress	1760	Not applicable

A capital asset is to be reported and, with certain exceptions, usually under \$5,000, depreciated in government-wide statements. In the government-wide statements, assets that are not capitalized are expended in the year of acquisition.

Recording Capital Assets

The recording of Capital Assets should be complete and accurate. Each asset record should include: description, year of acquisition, funding source, cost, salvage value, and estimated useful life. The tag number should be recorded on the specific asset. The asset record should also identify the general ledger asset account code. The Finance Department centrally maintains the record of capital assets.

Reporting Capital Assets

Capital assets and the associated accumulated depreciation are reported in the audited Comprehensive Annual Financial Report (CAFR) statement of Victor Valley Wastewater Reclamation Authority (VWRA) Statements of Net Position. Accumulated depreciation will be reported separately. Capital assets will be reported in greater detail by major category of asset for audit purposes.

Obtaining an Asset's Acquisition Value

Capital assets should be reported at historical cost. The cost of a capital asset should include ancillary charges necessary to place the asset into its intended location and condition for use. Donated capital assets should be reported at their acquisition value at the time of acquisition plus ancillary charges. When the value of the consideration paid cannot be determined, the asset's fair-market value determines its cost.

Capitalized Interest

The construction-period interest should not be included in the cost of the capital assets constructed in accordance with Governmental Accounting Standards Board, Statement No. 89, "Accounting for Interest Cost Incurred before the End of a Construction Period," which is effective for reporting periods beginning after December 15, 2019. Earlier application is encouraged and the requirements should be applied prospectively.

Repairs and Maintenance

The following four items will determine if maintenance or repair should be capitalized or expensed. With respect to asset improvements, costs over \$5,000 should be capitalized if:

1. The estimated life of the asset is extended by more than 25%, or
2. The cost results in an increase in the capacity of the asset, or
3. The efficiency of the asset is increased by more than 10%, or
4. Significantly changes the character of the asset

If the above of items do not apply, than the cost should be expensed as repair and maintenance. Maintenance costs allow an asset to continue to be used during its originally established useful life.

Asset's Salvage Value

The salvage value of an asset is the value it is expected to have when it is no longer useful for its intended purpose. In other words, the salvage value is the amount for which the asset could be sold at the end of its useful life.

Capital Assets Depreciation

VWRA uses the straight-line method to calculate depreciation. It can be used for any depreciable property.

Under the straight-line depreciation method, the basis of the asset is written off evenly over the useful life of the asset. The same amount of depreciation is taken each year. At the end of an asset's life, the sum of the amounts charged for depreciation in each accounting period (accumulated depreciation) will equal original cost less salvage value.

Disposal of Capital Assets

All assets included in this policy must be taken to Director of Operations, Controller and General Manager for an approval prior to disposition. The report to Board of Directors will include the method of disposal, whether it is destroyed, donated, lost, sold, stolen, or other disposal reason. The Finance Department will remove disposed assets from the fixed asset records after the proper disposal process have been completed. When an asset is sold or disposed, a gain or loss must be recognized, if applicable, in the annual financial report, and the accumulated depreciation expense is reduced accordingly.

A gain or loss is not reported when:

- Cash exchanged equals the net book value and the asset does not have a residual value.
- Cash is not exchanged and the asset is fully depreciated and has no residual value.

Disposal / Transfer / Replacement Forms

Form A has been created for disposal and transfer of capital assets (See FORM A). The form will need to be completed for the following circumstances:

- **Disposal** - All dispositions of capital assets will have a disposition form completed by the department having ownership of the asset and will be approved by Controller and General Manager.

The completed forms must be forwarded to the Finance Department. The forms will be maintained by the Finance Department.

Record Retention

The Finance Department will keep individual asset details associated with the capital assets according to a document retention policy. Individual asset detail records may be disposed three years after an asset's disposal date. All fiscal-year-end reports can be disposed six years after the audit has been finalized unless grant provisions require a longer retention period.

5. Policy for Non-Capitalized Assets

Control normally should occur at the department level. Departments typically would be expected to concern themselves with non-capitalized assets as an integral part of the process they use to achieve their operational goals. Therefore, individual departments, rather than the Finance Department will be responsible to control these assets.

Control responsibility should be assigned within each department. Controlled non-capitalized assets should be accounted for. Consequently, departments should assign responsibility for different groups of controlled non-capitalized assets to one specific individual. VWVRA assigned controlled non-capitalized assets groups are:

<u>Group</u>	<u>Responsibility</u>	<u>Responsible Person</u>
Maintenance	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 10px;">{</div> <div style="margin-left: 10px;"> Maintenance Operations Environmental Compliance Construction Safety </div> </div>	} Director of Operation
MIS Administration	<div style="display: flex; align-items: center;"> <div style="font-size: 3em; margin-right: 10px;">}</div> <div style="margin-left: 10px;"> MIS Equipment Administrative </div> </div>	} Director of Administration

This assignment should be documented within the department and communicated to the Finance Department. Likewise, changes in assignments should be documented and communicated.

Departments should certify each year to the Finance Department that updated lists of controlled non-capitalized assets are on file and available for inspection. Also, that those lists are reliable and complete at the end of June every year for internal control purposes.

The Finance Department should periodically verify that the data on controlled non-capitalized assets is on file in each department. The Finance Department of VWVRA should ensure that the lists of non-capitalized assets have been verified by the individual departments and are complete and reliable.

6. Policy for Parts Inventory

The inventories of spare parts such as pump, motor, cable, wire, filter, belt etc. would be recognized immediately as an expense when they are purchased.

According to "GOVERNMENTAL ACCOUNTING, AUDITING, AND FINANCIAL REPORTING", VWRA may initially report the inventories they purchase as an inventory account 1450 and defer the recognition of an expense until the period in which the inventories actually are consumed. Under the Purchase Policy and Capital Assets Policy, inventories are reported as expenses when purchased rather than capitalized as assets.

Individuals responsible for controlled parts inventory should prepare and maintain a complete list of those items each year. Each inventory record on the list should include: tag number, item description, check-in date, check-out date, location, cost or estimated cost, etc. At the end of each month, the individual responsible for controlled parts inventory should take a physical inventory and prepare a report that provides a complete list of all items. Each list must be compared to the prior period to ensure it is reliable and complete and that any discrepancies are noted for audit control.

**VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY****MEMORANDUM**

DATE: 20 September 2018

TO: Board of Commissioners

FROM: Logan Olds, General Manager *Lo*

SUBJECT: Use of SRF Loan Proceeds

Please refer to attached letter from BB&K Attorney Mr. Warren Diven, regarding the use of funds received from an SRF loan to reimburse VWVRA for prior expenditures and materials presented at the 18 August 2018 Board meeting.

Indian Wells
(760) 568-2611

Irvine
(949) 263-2600

Los Angeles
(213) 617-8100

Manhattan Beach
(310) 643-8448

Warren B. Diven
Partner
(619) 525-1337
warren.diven@bbklaw.com



BEST BEST & KRIEGER
ATTORNEYS AT LAW

655 West Broadway, 15th Floor, San Diego, CA 92101
Phone: (619) 525-1300 | Fax: (619) 233-6118 | www.bbklaw.com

Ontario
(909) 989-8584

Riverside
(951) 686-1450

Sacramento
(916) 325-4000

Walnut Creek
(925) 977-3300

Washington, DC
(202) 785-0600

Memorandum

To: Logan Olds, General Manager, Victor Valley Wastewater Reclamation Authority

From: Warren B. Diven

Date: September 11, 2018

Re: Use of State Revolving Fund Proceeds Paid to VVWRA to Reimburse VVWRA for Expenses Initially Paid for from VVWRA Capital Funds

This memorandum is written in response to your request for our advice regarding the use of certain funds received by the Victor Valley Wastewater Reclamation Authority (“VVWTA”) from financial assistance provided through the Clean Water State Revolving Fund (“CWSRF”) of the California State Water Resources Board (“CSWRB”).

VVWRA has from time to time applied for financial assistance provided through the CWSRF for the purpose of financing costs incurred in connection with, the planning, design, acquisition, construction, and installation of specific projects. You have indicated that VVWRA has a situation where VVWRA expended its capacity funds derived from connection fees for right of way, design, environmental, and regulatory expenses for such a specific project or projects prior to obtaining the approval of the CWSRF financial assistance. In the current case you indicated that the SWRCB reimbursed VVWRA over \$3,000,000 for such expenses originally paid for by VVWRA. The Board of Directors would like assurance that VVWRA may use those funds to finance capacity related projects other than the specific projects for which the CWSRF financial assistance was provided.

In researching your request, I have reviewed the following documents:

- Policy for Implementing the Clean Water State Revolving Fund (the “CWSRF Policy”), amended February 2015;
- Appendix F “Sample Disbursement Request Forms and Instructions” to the CWSRF Policy;
- The form of the Installment Sale Agreement (the “Installment Sale Agreement”) by and between the CSWRB and VVWRA utilized to provide the financial assistance provided through the CWSRF for the specific VVWRA projects;



BEST BEST & KRIEGER
ATTORNEYS AT LAW

- The e-mail dated August 6, 2018 from Kelly Valine of the CSWRCB financial assistance staff to Gabriel Berzamina in which Ms. Valine stated that “If the recipient (VWVRA) has already paid the contractors with their own funds and we are reimbursing they are eligible to use our funds as they wish.”
- The e-mail dated August 13, 2018 from Anne Hartridge, Office of Chief Counsel, in which Ms. Hartridge, after consulting with tax counsel, responded to an e-mail from me in which I stated:

The Victor Valley Wastewater Reclamation Authority (“VWVRA”) paid directly for planning activities such as design, right of way, environmental review, etc. for projects for which the CSWRCB approved financial assistance. VWVRA has or is seeking reimbursement for those expenditures from the related SRF loans. The question that I have been asked to pose to the Office of the Chief Counsel is whether VWVRA may use any such payments from the CSWRCB to fund other capital improvements that are not a part of the SRF funded projects.”

Ms. Hartridge indicated that the use of any such payments outlined in my e-mail was fine.

The CWSRF Policy, the form of the Installment Sale Agreement and the Sample Disbursement Request Forms and Instructions contemplate that the CSWRB may reimburse VWWRD for eligible costs incurred by and paid for VWVRA related to the specific projects for which CWSRF financial assistance has been provided by the CSWRB. Such documents do not, however, require that the funds received by VWVRA to reimburse VWVRA for such costs are required to be used for such specific projects. As a result I agree with with the conclusion reached by both the CSWRB staff and Office of Chief Counsel and would advise VWVRA that VWVRA may utilize such funds to finance capacity related projects other than the projects for which the CWSRF financial assistance was provided.

Please feel free to call or e-mail me if you have any questions regarding this memorandum.

cc: Piero Dalarda, Best Best & Krieger LLP



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

MEMORANDUM

DATE: 16 August 2018

TO: Board of Commissioners

FROM: Logan Olds, General Manager *LO*

SUBJECT: Use of State Revolving Fund Loan Proceeds

At the 19 July 2018 Board meeting Commissioners and staff discussed the potential use of State Revolving Fund (SRF) loan proceeds to reimburse VVWRA for monies previously expended from VVWRA's capacity (connection fee) funds. VVWRA pre-funds project planning activities from capacity revenues such as the; design, right of way, environmental and regulatory components. The State Water Resource Control Board (SWRCB) assigns a higher priority SRF loan number and grant status to projects which complete these tasks prior to submitting their SRF loan application.

Due to the length of time planning the subregional project, the SWRCB chose not to reimburse VVWRA for all of the initial planning expenses once the SRF loan was funded. VVWRA tracked the expenses associated with the subregionals since beginning the pre-design activities in 2008. In addition construction management expenses exceeded the initial allowance provided for in the SRF loan application documents. The SWRCB used to allow transfers between project categories within the SRF loan during the construction phase. They no longer allow transfers between categories thus the initial allowance assigned in the SRF loan application is not modified during the projects construction.

VVWRA was informed by the SWRCB that because the two subregional projects were built for less than the value of the SRF loan amount that they were reviewing the unreimbursed planning and construction management costs. This value amounted to over three million dollars. Although staff asked the SWRCB for updates the response was that the issue was under review. Therefore, staff chose not to include these funds in the fiscal year 18/19 budget. Staff had already included over three million dollars for projected revenue once the FEMA/CalOES/OIG issue is resolved in the FY 18/19 budget. Thus, there is the possibility that the monies received from the SWRCB could be used to offset those anticipated from FEMA if further delays occur on the resolution of this issue. Clearly there are several significant unknowns in VVWRA's FY 18/19 budget which may resolve themselves prior to the mid-year budget review. This is the reason why staff is strongly recommending a formal (adopted by Resolution) FY 18/19 budget review and revision in January/February of 2019. VVWRA staff will work closely with the Finance Committee as these issues resolve themselves.

The Board and staff sought to confirm that the SRF loan funds could be used for other capacity related projects. Projects unrelated to the SRF loan since VVWRA was being reimbursed for prior expenditures. Staff contacted the SWRCB (Attached) and asked this question. Ms. Kelly Valine, Supervisor, SWRCB, Division of Financial Assistance, Loans and Grant Branch: Loan & Grant Administration, Credit Analysis | Disbursement Section responded on 6 August 2018 stating, "If the recipient has already paid the

contractors with their own funds and we are reimbursing they are eligible to use our funds as they wish". Therefore, it would appear that VVWRA may use the funds for other capacity related projects.

Given the dollar amount involved staff also sought the advice of legal counsel on this matter. Mr. Warren Diven of BB&K has assisted VVWRA in the past with the legalities of bonds and loans. Mr. Diven is preparing a memo for the Board on this topic which is unavailable at the time of drafting this memorandum. If the memo is completed by the date of the Board meeting it will be distributed at the Board meeting.

Logan Olds

From: Valine, Kelly@Waterboards <Kelly.Valine@waterboards.ca.gov>
Sent: Monday, August 6, 2018 11:33 AM
To: Berzamina, Gabriel@Waterboards
Cc: Fua, Wennilyn@Waterboards
Subject: RE: subregional loans

Gabriel

If the recipient has already paid the contractors with their own funds and we are reimbursing they are eligible to use our funds as they wish.

Kelly

From: Berzamina, Gabriel@Waterboards
Sent: Monday, August 6, 2018 11:03 AM
To: Valine, Kelly@Waterboards <Kelly.Valine@waterboards.ca.gov>
Cc: Fua, Wennilyn@Waterboards <Wennilyn.Fua@waterboards.ca.gov>
Subject: RE: subregional loans

Hi Kelly,

I just wanted to follow up on this inquiry and get your response, since the issue has created a bottle neck in the recipient's agency, Victor Valley Wastewater Reclamation Authority.

Thank you!

Gabriel Berzamina
Water Resource Control Engineer
Division of Financial Assistance
State Water Resources Control Board
Phone: (916) 319-9325
Email: Gabriel.Berzamina@waterboards.ca.gov

From: Fua, Wennilyn@Waterboards
Sent: Thursday, July 19, 2018 12:52 PM
To: Valine, Kelly@Waterboards <Kelly.Valine@waterboards.ca.gov>
Cc: Berzamina, Gabriel@Waterboards <Gabriel.Berzamina@waterboards.ca.gov>
Subject: RE: subregional loans

Hi Kelly,

Need help answering Logan's question. Based on the email, it appears that the recipient used their own funds to pay the contractors. Shouldn't the money they received from the disbursement be used to repay the recipient and therefore the recipient is free to do whatever they want with that money?

Wennilyn



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager *LO*

TO: Board of Commissioners

SUBJECT: Facility Modification Project Plan for American Organics Facility Improvements

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to sign the attached letter entitled: “Request for VVWRA Approval of the Facility Modification Project Plan for Archaeological and Tribal Monitoring of Tribal Cultural Resources”.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, and Charity Schiller CEQA Attorney.

BACKGROUND INFORMATION

The VVWRA Board adopted the Mitigation and Monitoring Reporting Program (MMRP) on 18 January 2018. As a result American Organics and the Tribe have prepared and agreed to specific conditions which are included in the, “American Organics Victor Valley Regional Composting Facility Modification Project plan for Archaeological and Tribal Monitoring of Tribal Cultural Resources” (Plan) August of 2018. American Organics and the Tribe are seeking the concurrence of VVWRA as the CEQA lead agency. Staff has had the Plan reviewed by legal counsel to ensure it is consistent with the MMRP. Ms. Charity Schiller of BBK has reviewed and edited the Plan to ensure it is consistent with the MMRP. American Organics and the Tribe have incorporated Legal Counsels recommendations in to the Plan. Staff is seeking authority from the Board to sign the letter.

FINANCIAL IMPACT

None to VVWRA.

RELATED IMPACTS

Ability for the American Organics project to proceed.



Victor Valley Wastewater Reclamation Authority

A Joint Powers Authority and Public Agency of the State of California

20111 Shay Road, Victorville CA 92394

Telephone: (760) 246-8638

Fax: (760) 246-2898

E-mail: mail@vwwra.com

September 20, 2018

Anthony Bertrand
Athens Services
3175-D Sedona Court
Suite A
Ontario, CA 91764

RE: Request for VVWRA Approval of the Facility Modification Project Plan for Archaeological and Tribal Monitoring of Tribal Cultural Resources

Dear Mr. Bertrand,

The Victor Valley Wastewater Reclamation Authority (“VVWRA”) has reviewed and hereby approves and adopts the American Organics Victor Valley Regional Composting Facility Modification Project Plan for Archaeological and Tribal Monitoring of Tribal Cultural Resources referenced in and attached to your letter dated August 6, 2018 (“Plan”). Consistent with Condition No. 38 of Conditional Use Permit PLN17-00020, which was approved by the City of Victorville in April 2018, VVWRA will enforce the Plan’s implementation in the field.

Should you have any questions, please contact me at (760) 246-8638 or via email at lolds@vwwra.com

Sincerely,

Logan Olds
General Manager
Victor Valley Wastewater Reclamation Authority

American Organics Victor Valley Regional Composting
Facility Modification Project Plan
For
Archaeological and Tribal Monitoring
Of
Tribal Cultural Resources

With
Victor Valley Wastewater Reclamation Authority,
American Organics, and
San Manuel Band of Mission Indians

August 2018

I. PROJECT

American Organics is proposing to modify the Victor Valley Regional Composting Facility (Facility) operated by American Organics (AO) on VVWRA owned land. This Project will allow AO to upgrade their operations with new technology through installing a new storm water basin, concrete lined composting area, and processing building, though the volume of the materials that AO process will remain unchanged. AO plans to compact a large portion of the site upon which it currently operates, to the east of Shay Road, through compacted soil barrier construction. This will encompass approximately 16.2 acres or 707,000 SF of the existing 35 acres leased from VVWRA for operation of the Facility. AO will construct a 20,000 SF Receiving and Classification Process Building on the southern portion of the site.

To the east of the Receiving and Classification Process Building, Grinding Classification and Conveyers, to process incoming materials, will be constructed. Most feedstocks are directed to grinding areas or directly to windrows (windrow composting is the production of compost by piling organic matter or biodegradable waste in long rows), though materials requiring size reduction will be processed using the Grinding Classification and Conveyers. Finished Material Storage will be located at the northwest corner of the site.

In the center of the site upon which AO currently operates, an Aerated Static Pile (ASP) Concrete Pad will be constructed; this ASP concrete pad will allow AO to contain any liquids that come out of the material they process, and prevents any percolation of these liquids into the soil underlying the Concrete Pad and will be 113,920 SF in size. Additionally, under the current site plan, two future ASPs are planned to be located north of the ASP concrete pad. To the east of the central ASP Concrete Pad, a Clarifier Tank for ASP Pad runoff will be constructed, which will serve as a means to ensure runoff from the ASP Pad is collected and does not percolate or seep into soil within the site. There will be two tanks, each 300 gallons below grade, which total 600 gallons.

On the easternmost portion of the site upon which AO currently operates, a Basin Emergency Overflow Spillway at 2614.00 elevation, which acts as a berm to protect any potential runoff from AO operations from leaving the facility. This Basin Emergency Overflow Spillway will be 50 feet wide. At the northeastern corner of the current AO operating site, a North Retention Basin with 7.72 acre-feet (AF) of storage will be constructed in the 9-foot deep basin; the plans for which are shown in Figures 3b. Also shown on Figure 3b, the Detection Layer Sump and Riser, which will be constructed just north of the center of the eastern border of the North Retention Basin. This Detection Layer Sump and Riser acts as another preventative measure to detect potential for leakage at the site. Bordering the Basin Emergency Overflow Spillway, just inside of the drainage area boundary (21.33 acres), an Equalizing Channel with Low Flow Pipes measuring 16-feet wide will be constructed. The project will also construct a modular office building, scale house, and truck weight scales as the Admin Facilities of the AO operation.

II. PURPOSES

The primary purpose of the Monitoring Plan (Plan) is to describe the process and protocols for conducting tribal cultural resources monitoring and to address such resources in the event they are discovered during the construction phase of the Project. If tribal cultural resources are present and eligible under Public Resources Code § 5024.1(c), this Plan is intended to facilitate compliance with the provisions of California Assembly Bill 52 (AB52) and its implementation under various recent

amendments to the Public Resources Code including, inter alia, Public Resources Code § 21074 [defining “tribal cultural resource”] and § 21080.3.1(a) [defining “consultation”].

Victor Valley Wastewater Reclamation Authority (VWVRA) is the Lead Agency for the Project under the California Environmental Quality Act (CEQA) and will be responsible to act in accordance with Public Resources Code, § 21080.3.1(b)(1).

A second purpose of this document is to meet the requirements of the California Health and Safety code § 7050.5(a), (b) and (c) [“...in event of discoveries of human remains, process required for coroner of county to make determinations of identification”]. A third purpose for developing the Plan is to ensure that if any tribal cultural resources, Native American human remains, funerary objects, ceremonial items of cultural patrimony, or other culturally significant items are discovered, proper procedures are in place to convey dignity, respect, and appropriate treatment for all tribes participating in consultation regarding important ancestral lands, possible human remains and associated funerary items and/or other discovered cultural material.

For purposes of AB52 and CEQA, this Plan represents the outcome of discussion among all Parties, as defined in section III. below, and agreement as to procedures that are culturally appropriate and take into account tribal cultural values in the event tribal cultural resources are discovered and subsequently identified as such.

III. PARTIES

The Parties that have participated in development of this Plan include the Victor Valley Wastewater Authority (VWVRA), American Organics (Applicant), and the San Manuel Band of Mission Indians (San Manuel Band). However, there may be other parties affected by this Plan in the event of a discovery of Native American human remains, as the NAHC has identified more than one Tribe that could potentially be culturally affiliated with the project area.

IV. CONSULTATION

As noted in Section II., there are multiple steps required by AB52 and its integration with CEQA. In order to assist in the process, VWVRA has proactively engaged in outreach and discussion with the San Manuel Band on the current project pursuant to Assembly Bill 52 to ensure the proper identification of potential “tribal cultural resources,” and will continue to engage in discussion on an as needed basis throughout the construction of the project. The San Manuel Band notified VWVRA during consultation that there is a high level of concern here due to the presence of an archaeological site, CA-SBR-72, that contains highly sensitive discoveries, to include items that the Tribe considers funerary. As a result, VWVRA incorporated mitigations measures TCR-1, -2, -3, -4, -5, -6, -7, and -8 within the Initial Study, which are reflected within this Plan.

V. ARCHAEOLOGICAL AND NATIVE AMERICAN MONITORS

There is agreement among all Parties that the project shall require an archaeological monitor that meets Secretary of Interior (SOI) qualifications for archaeology and Tribal monitors representing San Manuel Band to be present for all ground-disturbing activities that occur within the proposed project area (which include, but is not limited to, tree/shrub removal and planting, clearing/grubbing, grading, excavation, trenching, compaction, fence/gate removal and installation, drainage and irrigation removal and installation, hardscape installation [benches, signage, boulders, walls, seat walls, fountains, etc.],

and archaeological work). A sufficient number of archaeological and Tribal monitors shall be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage. The Archaeologist and Tribal monitor will have the authority to request ground disturbing activities cease within the area of a discovery but not exceeding a buffer of 100 feet surrounding the area.

A pre-construction meeting shall be held with the relevant Parties prior to the start of construction. This meeting shall outline all processes for monitoring on the project and information regarding how the Project Archaeologist and the Tribe will receive a weekly construction schedule identifying all ground disturbing activities within the monitoring area, and discuss the specific cultural concerns associated with the project area.

The Applicant shall provide compensation (hourly wages, mileage, etc.) for all archaeological and San Manuel Band Tribal monitors and the services these individuals provide as part of the monitoring effort for the Project.

VI. PROCESS FOR DISCOVERIES, TREATMENT, AND DISPOSITION

In the event of a discovery, all Parties shall be notified by phone and email within 48 hours of the discovery. A list of the points of contact is part of this Plan in Appendix A. The list will be updated monthly during construction of the Project. Each Party is responsible for their individual updates if there are any personnel changes.

NON-FUNERARY CULTURAL MATERIALS

If an archaeological deposit or tribal cultural resource is discovered within the Project area, ground disturbing activities shall be suspended 100 feet around the resource(s) and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. Representatives from San Manuel Band, the Archaeological Monitor(s), the Applicant, and VVWRA shall confer regarding treatment of the discovered resource(s). A treatment plan shall be prepared, reviewed, and adopted by all Parties, and then implemented to protect the identified resources from damage and destruction. The treatment plan shall contain a research design to evaluate the resource for significance under both NHPA and CEQA criteria, and shall (1) acknowledge the necessity for additional, internal Tribal deliberations and culturally-appropriate treatments for all tribal cultural resources and (2) for archaeological resources, include fieldwork and sampling procedures appropriate to ascertain the boundaries, nature, and content of the resource in accordance with current, professional archaeological best practices, as agreed upon by San Manuel Band.

Should the resource be determined to be significant under either federal- or-state level criteria, avoidance and preservation in place shall be the preferred treatment. Should the resource not be a candidate for avoidance or preservation in place, a resource-specific mitigation plan shall be developed, reviewed by all Parties, and implemented. Should the mitigation plan include archaeological data recovery, a research design shall be developed that exhausts the research potential of the resource in accordance with current professional archaeological standards. Any mitigation plan that results in the removal of cultural resources (artifacts, ecofacts, features, etc.) from their original provenience shall also include a comprehensive discussion of resource processing, analysis, temporary curation, and reporting protocols and obligations and with the agreement of all Parties.

All mitigation, treatment, and data recovery plans shall be developed in consultation with San Manuel Band. All fieldwork related to treatment, mitigation, and data recovery plans shall require monitoring by a San Manuel Band Tribal monitor. The removed cultural materials will be temporarily stored on-site at an agreed to location that is secure and accessed only by a limited number of on-site supervisors, specified Tribal monitors, and the Archaeologist. All draft reports containing the significance and treatment findings and data recovery results shall be prepared by the SOI-qualified archaeologist hired by the Applicant and submitted to VVWRA and San Manuel Band for their review and comment. All final reports are to be submitted to the local CHRIS Information Center, VVWRA, and San Manuel Band. All new or updated site records for CA-SBR-72 or other newly discovered resources shall be submitted to the local CHRIS Information Center and copies provided to San Manuel Band.

The final decision with regard to ultimate disposition of discovered resources that were not avoided due to feasibility issues shall be discussed between the Agency and San Manuel Band. San Manuel Band's preferred disposition of such cultural material is to rebury on-site either at or near the original discovery location at a depth where no future disturbance is likely to be planned, based on VVWRA's most current knowledge. A fully executed reburial agreement shall be developed with San Manuel Band and shall include measures and provisions to protect the future reburial area from any future impacts (vis a vis project plans, conservation/preservation easements, deed riders, etc.). Reburial shall not occur until all ground disturbing activities associated with the Project have been completed, all monitoring has ceased, all cataloguing and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to VVWRA, CHRIS, and San Manuel Band.

Should it occur that avoidance, preservation in place, or on-site reburial are not an option for some artifacts, San Manuel Band requests that the landowner relinquish all ownership and rights to this material and coordinate with the Tribe to identify an American Association of Museums (AAM)-accredited facility within San Bernardino County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Applicant to pay for those fees.

Where appropriate and agreed upon in advance by San Manuel Band, the SOI-qualified archaeologist hired by the Applicant may conduct analysis of certain artifact classes (including, but not limited to, shell, non-human bone, plant parts, ceramic, stone, wood, fiber) if required by CEQA or requested by San Manuel Band. Upon completion of authorized and mandatory analyses, the Applicant shall provide said artifacts to San Manuel Band for final disposition, as agreed upon based on the above information, within sixty (60) days from the completion of analysis and not to exceed one hundred and twenty (120) days from the initial recovery of the items from the field.

FUNERARY CULTURAL MATERIAL AND/OR NATIVE AMERICAN HUMAN REMAINS

VVWRA and the Applicant shall immediately contact the San Bernardino County Coroner and San Manuel Band in the event that any human remains are discovered during implementation of the Project. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c).

The NAHC-identified Most Likely Descendant (MLD), shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and funerary objects shall be treated and disposed of with appropriate dignity. The MLD, VVWRA, and landowner agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes.

The MLD shall complete its inspection and make recommendations within forty-eight (48) hours of receiving notification from either the Applicant or the NAHC, as required by California Public Resources Code § 5097.98.

Reburial of human remains and/or funerary objects shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The MLD, in consultation with VVWRA, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains and funerary objects.

All parties are aware that the MLD may wish to rebury the human remains and associated funerary objects, as well as ceremonial and cultural items (artifacts) on or near, the site of their discovery, in an area that shall not be subject to future subsurface disturbances. Accommodation should be provided for access to an on-site reburial location mutually agreed upon by the Parties.

The term "human remains" encompasses more than human bones because some local Tribes' traditions periodically necessitated the ceremonial burning of human remains and funerary objects. Funerary objects are those artifacts associated with any human remains or funerary rites. These items, and other funerary remnants and their ashes, are to be treated in the same manner as human bone fragments or bones that remain intact. Ancient human footprints, such as those that may be discovered during project implementation due to the known presence of CA-SBR-72, are considered by San Manuel Band to be records of the Serrano ancestors and are to be treated in the same manner as cultural and tribal cultural resources.

VII. NON-DISCLOSURE OF DISCOVERIES

It is understood by all Parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, Parties, and Lead Agencies, will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r).

VIII. RESOLUTION OF DISAGREEMENTS

All Parties agree to exercise good faith efforts to resolve any disagreements that may arise related to any terms contained within this Plan. Any Party that may have an issue or objection shall notify in writing the other Parties to this Plan and request a meeting or conference call to discuss the tribal cultural resources related issue. All Parties agree to attempt to resolve the disagreement through discussions and collaborative efforts. Any agreement arrived at through a good faith effort shall be put in writing and distributed to all Parties to this Plan. If the Plan will require an amendment as a result of the resolution, then the revised Plan shall be provided to all Parties for agreement and signatures to evidence the change.

Appendix A

Points of Contact for each Party:

San Manuel Band of Mission Indians

1. Jessica Mauck
Cultural Resources Analyst
jmauck@sanmanuel-nsn.gov
(909) 864-8933
2. Ann Brierty
Field Specialist
abrierty@sanmanuel-nsn.gov
(909) 864-8933

Victor Valley Wastewater Reclamation Authority

1. Logan Olds
General Manager
lolds@vwwra.com
(760) 246-8638

American Organics

1. Anthony Bertrand
Area Vice President
abertrand@athensservices.com
(626) 723-3740



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager *fo*

TO: Board of Commissioners

SUBJECT: Proposal for Net Energy Metering Interconnection Agreement

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Biogas Engineering to submit a Net Energy Metering 2.0 Interconnection application and negotiate with Southern California Edison (SCE) in an amount not to exceed \$53,100.00, fifty-three thousand one hundred dollars.

REVIEW BY OTHERS

This recommendation was reviewed by the Engineering Committee; Tim Millington, County Special Districts, Greg Snyder Town of Apple Valley, David Burkett, City of Hesperia, and Brian Gengler, City of Victorville. Also, VVWRA; Piero Dallarda, Legal Counsel, Chieko Keagy, Controller, Eugene Davis, Operations and Maintenance Manager, and Alton Anderson Construction Manager.

BACKGROUND INFORMATION

On Sunday September 2nd and Sunday September 9th VVWRA experienced SCE power loss to the regional wastewater treatment plant. VVWRA's ability to meet water quality regulations requires a reliable power supply. Attached is a three page list of the SCE power loss and under voltage events resulting in an outage at the main plant from October of 2017 to September of 2018. This list only contains the events which triggered an outage at the main plant. The under voltage issue continues to occur repeatedly each week but does not always trigger an outage.

When these issues occur it automatically shuts down VVWRA's ability to produce its own power from renewable biogas due to the existing non-export interconnection agreement with SCE. The California Public Utilities Commission (CPUC) changed the Net Energy Metering (NEM) rules in 2017 to allow projects up to 2 MW to participate in the program. This would enable VVWRA to export power to the grid thus stabilizing power on site. If we can export power staff is told by SCE that it would protect the Authority from loss of power and under voltage issues.

Biogas Engineering and Staff have met with SCE three times to evaluate this option. At this point SCE has indicated that they will not comment further without a formal NEM proposal. An Engineering Committee meeting was held to discuss the option of pursuing an export interconnection agreement through the NEM program. The proposal from Biogas Engineering will enable the Authority to reach a decision point and learn the costs and benefits of switching interconnection agreements. This proposal does not complete the process, it is only intended to

obtain enough information from SCE to make an informed decision. If it is believed that VVWRA should proceed with completing the process the issue will be brought back before the Engineering Committee for consideration. Staff with Biogas Engineering prepared and implemented the existing non-export interconnection agreement with SCE on behalf of VVWRA and are therefore uniquely qualified to provide the professional services necessary to complete this task.

FINANCIAL IMPACT

This is an un-budgeted expenditure in the amount of \$53,100.00 fifty-three thousand one hundred dollars, to account 01-03-600-9025.

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-03-600-9025
Transfer Needed due to Insufficient Budget	Y[X] N[X]
If Transfer, from Which Account String or Reserve	TBD
Budgeted Amount Where Money Comes from	TBD
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y[] N[]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

RELATED IMPACTS

Reliable WWTP operations to meet regulatory requirements.

Utility Power Disruptions

Page Range: 9/11/2017 through 9/11/2018



Log Entry ID	Log	Log Date	Location	Created By	Power Disruption Type	Power Outage Date	Time of the Outage	Date Power was restored	Time Power was restored
20403	Utility Power Disruption	09/09/18 20:24	Regional Plant	Phayean Mczeal	Power Outage/Interrupti on	9/9/2018	16:25	9/9/2018	16:30
20166	Utility Power Disruption	09/02/18 13:56	Regional Plant	Mike Tarango	Power Outage/Interrupti on	9/2/2018	05:50	9/2/2018	05:51
20033	Utility Power Disruption	08/29/18 18:34	Regional Plant - Phayean Mczeal	Mczeal Low	Voltage/Under-Voltage	8/29/2018	18:25	8/29/2018	16:25
17555	Utility Power Disruption	08/13/18 18:43	Regional Plant - Phayean Mczeal	Mczeal Low	Voltage/Under-Voltage	8/13/2018	18:34	8/13/2018	18:40
17402	Utility Power Disruption	08/09/18 07:56	Regional Plant	Johnny Bustos	Low Voltage/Under-Voltage	8/9/2018	07:30	8/9/2018	07:30
17166	Utility Power Disruption	08/02/18 03:48	Regional Plant - Bobby Hesse	Hesse	Power Outage/Interrupti on	8/2/2018	01:09	8/2/2018	01:09
16603	Utility Power Disruption	07/16/18 16:03	Regional Plant - Mauricio Marin	Marin	Power Outage/Interrupti on	7/16/2018	15:23	7/16/2018	17:00
15717	Utility Power Disruption	06/20/18 12:27	Regional Plant - Miguel Mendoza	Mendoza Low	Voltage/Under-Voltage	6/20/2018	12:20	6/20/2018	12:15
15641	Utility Power Disruption	06/18/18 14:47	Pump Stations - Latif Laari	Laari	Power Outage/Interrupti on	6/18/2018	11:18	6/18/2018	12:02
15633	Utility Power Disruption	06/18/18 12:56	Regional Plant	Latif Laari	Power Outage/Interrupti on	6/18/2018	11:18	6/18/2018	12:02
15562	Utility Power Disruption	06/15/18 07:41	Regional Plant - Miguel Mendoza	Mendoza	Power Outage/Interrupti on	6/15/2018	06:45	6/15/2018	06:46
15510	Utility Power Disruption	06/13/18 19:53	Regional Plant - Phayean Mczeal	Mczeal Low	Voltage/Under-Voltage	6/13/2018	18:30	6/13/2018	20:00

Utility Power Disruptions

Page Range: 9/11/2017 through 9/11/2018



<u>Log Entry ID</u>	<u>Log</u>	<u>Log Date</u>	<u>Location</u>	<u>Created By</u>	<u>Power Disruption Type</u>	<u>Power Outage Date</u>	<u>Time of the Outage</u>	<u>Date Power was restored</u>	<u>Time Power was restored</u>
15474	Utility Power Disruption	06/12/18 17:35	Regional Plant - > O&M Buildings	Phayean Mczeal	Low Voltage/Under-Voltage	6/12/2018	15:22	6/12/2018	15:23
15440	Utility Power Disruption	06/11/18 18:49	Regional Plant - > O&M Buildings	Phayean Mczeal	Low Voltage/Under-Voltage	6/11/2018	18:36	6/11/2018	18:37
15284	Utility Power Disruption	06/06/18 14:47	Regional Plant	Johnny Bustos	Low Voltage/Under-Voltage	6/6/2018	14:48	6/6/2018	14:48
15249	Utility Power Disruption	06/06/18 07:02	Regional Plant	Johnny Bustos	Low Voltage/Under-Voltage	6/6/2018	06:05	6/6/2018	06:05
13748	Utility Power Disruption	05/22/18 12:27	Regional Plant	Latif Laari	Low Voltage/Under-Voltage	5/22/2018	12:26	5/22/2018	12:27
13674	Utility Power Disruption	05/19/18 15:46	Regional Plant	Johnny Bustos	Power Outage/Interruption	5/19/2018	13:00	5/19/2018	14:15
12927	Utility Power Disruption	04/27/18 21:23	Regional Plant - > Flow Side	Phayean Mczeal	Power Outage/Interruption	4/27/2018	19:07	4/27/2018	19:11
12834	Utility Power Disruption	04/25/18 10:05	Regional Plant	Johnny Bustos	Power Outage/Interruption	4/25/2018	05:46	4/25/2018	05:46
12817	Utility Power Disruption	03/08/18 10:42	Regional Plant	Latif Laari	Power Outage/Interruption	3/8/2018	10:42	3/8/2018	12:35
12816	Utility Power Disruption	03/09/18 07:11	Regional Plant	Latif Laari	Distorted Power	3/9/2018	07:11	3/9/2018	07:11
12815	Utility Power Disruption	04/01/18 06:57	Regional Plant	Latif Laari	Distorted Power	4/1/2018	06:57	4/1/2018	06:57
12814	Utility Power Disruption	04/18/18 03:22	Regional Plant	Latif Laari	Distorted Power	4/18/2018	03:22	4/24/2018	03:22
12812	Utility Power Disruption	04/24/18 20:17	Regional Plant	Latif Laari	Distorted Power	4/24/2018	20:17	4/24/2018	20:18
12645	Utility Power Disruption	04/07/18 11:00	Regional Plant	Johnny Bustos	Distorted Power	4/17/2018	10:00	4/17/2018	11:00

Utility Power Disruptions

Page Range: 9/11/2017 through 9/11/2018



<u>Log Entry ID</u>	<u>Log</u>	<u>Log Date</u>	<u>Location</u>	<u>Created By</u>	<u>Power Disruption Type</u>	<u>Power Outage Date</u>	<u>Time of the Outage</u>	<u>Date Power was restored</u>	<u>Time Power was restored</u>
12621	Utility Power Disruption	04/16/18 14:32	Regional Plant	Latif Laari	Power Outage/Interruption	4/16/2018	13:51	4/16/2018	13:51
12618	Utility Power Disruption	04/16/18 12:22	Regional Plant	Latif Laari	Power Outage/Interruption	4/16/2018	12:14	4/16/2018	12:14
10196	Utility Power Disruption	01/08/18 08:06	Regional Plant	Johnny Bustos		1/8/2018	08:06	1/8/2018	23:00
9230	Utility Power Disruption	12/05/17 11:09	Regional Plant	Johnny Bustos		12/5/2017	11:09	12/5/2017	11:10
7016	Utility Power Disruption	10/16/17 11:56	Regional Plant	Keith Luken		10/16/2017	11:44	10/16/2017	11:44



August 20, 2018

Mr. Logan Olds
 General Manager
 Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Subject: Revised Proposal for providing Engineering and Project Management Services to Initiate a Net Energy Metering (NEM 2.0) Interconnection Agreement Between Victor Valley Wastewater Reclamation Authority (VWVRA) and Southern California Edison (SCE).

Dear Mr. Olds,

Pursuant to your request, Biogas Engineering (Biogas) is pleased to provide this proposal offering Engineering and Project Management Services to initiate a new NEM 2.0 Interconnection Agreement at 20111 Shay Rd., Victorville, CA. 92394, between VWVRA and SCE. We understand that VWVRA is incorporating 0.2 MW of energy storage capacity into its existing 1.6 MW power generation system. This addition of 0.2 MW of energy storage prompted SCE to review the existing agreement and request a new Interconnection Agreement. Since a new interconnection agreement is required, it provides VWVRA an opportunity to move towards its vision and goal of sustainability and energy independence by increasing its renewable power generation.

Recommendation

To discuss the energy storage project, VWVRA staff and Biogas met with SCE representatives at VWVRA on Tuesday, July 11, 2018. During the meeting, SCE stated that a new Interconnection Agreement is required for the installation of the Battery Microgrid Project. Currently, VWVRA operates under a Minimum Import Agreement, which requires VWVRA to continuously import a specified amount of power from SCE. At this point, VWVRA has the option to pursue an NEM 2.0 Interconnection Agreement, one that would not require any power to be imported from SCE and would allow VWVRA to export power to SCE. Based on our understanding, an NEM 2.0 Interconnection Agreement would be the most beneficial Interconnection agreement for VWVRA. It would reduce the limitation on the amount of power that VWVRA can produce, simplify controls, reduce shutdowns, increase the amount of digester gas utilized and save VWVRA money on power purchases. Based on the discussions held in the meeting, it is our recommendation that VWVRA pursue an NEM 2.0 Interconnection Agreement with SCE.

Currently VWVRA is required to import at least 5% of its generation capacity, 80 kW. If VWVRA engages in a new Minimum Import Agreement with the system including the batteries, the generation capacity will increase to 1,800 kW and the required minimum import would increase to 90 kW. This minimum import requirement would reduce the amount of power that VWVRA could generate and increase the amount of power that needs to be purchased.

Another benefit of an NEM 2.0 Interconnection Agreement is that it would simplify the system controls. The Minimum Import Agreement requires a continuous balance between the amount of power generated and the amount of power consumed by plant equipment. The VWVRA facility has numerous pieces of equipment that turn on and off at irregular intervals. These pieces of equipment cause the plants power consumption to increase and decrease throughout the day. To avoid a minimum import violation, sophisticated controls must be integrated into the power generation control system to balance power production with these varying levels of power consumption. Control systems of this magnitude require several interactions and are more likely to fail than simpler control systems. A simpler control system would be less likely to fail and would benefit VWVRA.

A Minimum Import Agreement also requires that the entire power generation system be taken off-line if the condition is violated. As a result, the generators are taken off line immediately causing a disruption at the VWVRA facility and increased wear and tear on the generators. The generators are not shut down in a controlled manner and the operators are not informed that a generator shutdown has been commanded. Instead, the generators are instantly taken off-line causing added wear and tear on them and added work for the site operators. After a shutdown, the operators determine the reason for the shutdown, reset conditions, and re-start the system. These shutdowns take time away from the operator's other crucial duties. A reduction in shutdowns would improve operations and decrease wear and tear on the generators.

By limiting the amount of power that can be produced, a Minimum Import Agreement decreases the amount of biogas that can be repurposed for beneficial use. VWVRA has gone to great lengths to increase biogas production and processing for beneficial use with the goals of sustainability, positive environmental impact and energy independence. Limiting the amount of biogas used for power generation decreases the positive impacts that VWVRA has made great efforts to achieve. An NEM 2.0 Interconnection Agreement would allow VWVRA to utilize double the amount of biogas that it currently uses.

The final and perhaps most important reason for VWVRA to enter into a NEM 2.0 Interconnection Agreement is that it will save VWVRA money on power purchase costs; NEM

2.0 would allow VWVRA to run the generators at full load. VWVRA produces enough biogas to produce 1,600 kW, enough to satisfy 100% of the plants energy needs the majority of the time. Being able to produce 100% of its own power will potentially reduce or completely eliminate the plant's energy import costs and likely saving VWVRA approximately \$840,000 annually.

Based on these reasons, Biogas Engineering with Kupper Engineering's endorsement, feel it is in VWVRAs best interest to pursue an NEM 2.0 Interconnection Agreement. It will increase the amount of renewable power produced by VWVRA, create a more robust control scheme for the generators, reduce the amount of time Operation Staff spends re-setting the system, increase the amount of biogas utilized for beneficial use and save close to \$1,000,000 annually on power purchases. Most importantly, and NEM 2.0 will allow VWVRA to get closer to its goal of sustainability and energy independence.

This proposal contains the cost and the scope required to complete the new interconnection agreement (NEM 2.0). Biogas will be working with Kupper Engineering Inc – an electrical engineering firm to perform technical tasks on this project. It includes preparation of a NEM 2.0 application, attending meetings with SCE, perform electrical design as necessary to support the application, construction drawings, responding to RFIs, construction management and supporting commissioning. Complete details of the scope of work is provided below.

Scope of Work

The project will be divided in following tasks

Task 1: NEM 2.0 Interconnection Application

Under this task Biogas will

- 1) Prepare a preliminary design and single line diagram for the application to SCE. It is our understanding that the existing SCE system is 34.5kV;
- 2) Review the utility requirements for net metered systems and modify preliminary plans to comply with the NEM 2.0 queue;
- 3) Provide a single line drawing signed and sealed by a California Registered Professional Electrical Engineer per SCE requirements;
- 4) Fill out technical attachments for the net meter application;
- 5) Fill out and submit an online application form for the NEM 2.0;
- 6) Provide additional information as required for the generators, battery system, and site loads as required to support the application; and
- 7) Attend two (2) conference call with SCE to discuss application.
- 8) Attend onsite meetings as necessary to support the project.

We propose a lumpsum cost estimate of **\$11,000** for this task. The cost does not include fee/cost payable to SCE.

It is our understanding that once the application has been submitted to the SCE, the application review, approval, implementation and commissioning is going to require a significant amount of effort. Biogas staff will support the project by coordinating efforts between SCE, electrical engineer, equipment vendors and contractor until the project has been successfully completed and turned over to the operations staff. Activities pertaining to the interconnection implementation are detailed in subsequent tasks.

Task 2: Utility Coordination

Provided below is the list of activities which will be covered under this task:

- 1) Review the coordination study report prepared by SCE;
- 2) Provide paperwork and design to support Rule 21 and the NEM 2.0 based on SCE comments and requirements from the study;
- 3) Review the existing relay setting and trip schemes, and provide updated settings as necessary per Rule 21;
- 4) Provide electrical testing documentation per Rule 21; and
- 5) Attend conference calls or onsite meetings with SCE as necessary to facilitate the review.

Since the completion of the task is dependent upon SCE review of the application and factors beyond our control, we propose this and subsequent tasks to be performed on a T&M basis. We propose **\$42,100** T&M not to exceed budget for this task.

Closing

A summary of the total proposed estimated fee is provided in the table below.

Table 1: NEM 2.0 Application and Implmentation Cost		
Tasks	Description	Cost
1	NEM 2.0 Interconnection Application (lump sum)	\$11,000
2	Utility Coordination (T&M)	\$42,100
TOTAL		\$53,100

The lump sum tasks will be billed on a percent complete basis at the end of each month and the T&M tasks will be billed on a T&M basis per attached rate sheet at the end of each month. The subcontractor cost will be billed with 10% markup. We propose a net 30 (form the date of the issue of invoice) payment terms for this project.

We continue to enjoy working with VWVRA staff and we are grateful to VWVRA for providing us with another opportunity to assist you. Should you have any questions, please don't hesitate to contact me.

Sincerely,



Arnold Ramirez, PE
Project Manager
Cell: (909) 942-0751
BIOGAS ENGINEERING



Gautam Arora, PE
President
Cell: (909) 286-9900
BIOGAS ENGINEERING



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Alton Anderson, Construction Manager *AA*
TO: Logan Olds, General Manager
SUBJECT: Recommendation to authorize the release a Request for Proposal (RFP) for the construction of Spill Containment System Project

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the release of an RFP for the construction of the Spill Containment System Project at the Westside Regional WWTP.

REVIEW BY OTHERS

This recommendation has been prepared by Alton Anderson, Construction Manager and reviewed by Logan Olds, General Manager.

BACKGROUND INFORMATION

Currently all surface water at the Shay Road facility is collected into a storm drain system that discharges into the Mojave River. While this is perfectly adequate for storm water, the collection system can also receive non-storm water from treatment plant related spills. In prior years, an overflow of the sludge decant box from digesters 4&5, one at the headworks and one at the tertiary filters occurred. Two of the three overflow events were due to power outages at the facility and subsequent equipment failure. Lahontan Regional Water Quality Control Board (Lahontan) was notified. As a result, Lahontan has requested that VVWRA implement a containment structure and protocol on the storm drain system.

This project will install a vault that will allow staff time to divert flow from the stormwater system back to the headworks before discharge. It will also allow sampling to occur and if contamination is found the water will be pumped back into the plant for processing. When no contamination is found a valve will allow the water to drain to the river. The design has been completed by Michael Baker International.

This project is necessary in order to continue meeting our permit requirements.

FINANCIAL IMPACT


None, staff is seeking permission to release the bid. Once bids are received the recommendation to construct will be brought before the Board for consideration. This is a budgeted FY 18/19 capital project which will be paid out of VVWRA funds. The anticipated expense is approximately \$300,000.00

RELATED IMPACTS

Continue to meet our permit requirements.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Bid Services and Engineering Services During Construction for Stormwater Project

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Michael Baker International for bidding and engineering services during construction for the Stormwater Spill Containment Project (SSCP) in an amount not to exceed \$33,644.00, thirty-three thousand six hundred and forty-four dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, Alton Anderson, Construction Manager and Chieko Keagy, Controller.

BACKGROUND INFORMATION

Currently all surface water at the Shay Road facility is collected into a storm drain system that discharges into the Mojave River. While this is perfectly adequate for storm water, the collection system can also receive non-storm water from treatment plant related spills. In prior years, an overflow of the sludge decant box from digesters 4&5, one at the headworks and one at the tertiary filters occurred. Two of the three overflow events were due to power outages at the facility and subsequent equipment failure. Lahontan Regional Water Quality Control Board (Lahontan) was notified. As a result, Lahontan has requested that VVWRA implement a containment structure and protocol on the storm drain system.

This project will install a vault that will allow staff time to divert flow from the stormwater system back to the headworks before discharge. It will also allow sampling to occur and if contamination is found the water will be pumped back into the plant for processing. When no contamination is found a valve will allow the water to drain to the river. The design has been completed by Michael Baker International. This request for professional services from Michael Baker is to ensure that the design is built according to the plans and specifications as well as assistance to respond to any requests for information (RFI) during the bid phase. VVWRA staff will provide construction management for this project.

This project is necessary in order to continue meeting our permit requirements.

FINANCIAL IMPACT

This is a budgeted expenditure in the amount of \$33,644.00 to account 09-02-162-9025. The budget amount remaining after this expenditure is \$6,356.00. VVWRA has budgeted a separate amount of \$300,000.00 to construct the stormwater spill containment system.

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	
Transfer Needed due to Insufficient Budget	Y[] N[X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	09-02-162-9025
Transfer Needed due to Insufficient Budget	Y[] N[X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	6,356
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

RELATED IMPACTS

**SCOPE OF SERVICES AND FEE PROPOSAL
ASSISTANCE WITH BIDDING/CONSTRUCTION
VWVRA SPILL CONTAINMENT PROJECT**

**Michael Baker International
September 12, 2018
(JN 161261)**

This scope of services describes work to be performed by Michael Baker International to provide assistance during bidding and construction for the Victor Valley Wastewater Reclamation Authority (VWVRA) Spill Containment Project.

Task 1-Project Management FEE: \$5,385

This task will provide project management services through the end of construction.

Task 1.1 Meetings

The Project Manager will attend the Prebid Meeting and Construction Kickoff Meeting. He will attend other project meetings via teleconference. Twelve teleconferences are anticipated. The Project Manager will document meetings with minutes.

Task 1.2 Administration

Michael Baker International will prepare monthly invoices for the project. Michael Baker will maintain a submittal review log for the project.

Task 2-Bid Phase Services FEE: \$5,078

This task will provide services during the bidding phase period.

Task 2.1 Respond to Bidder Questions

Michael Baker will provide responses to bidder questions directly to the VWVRA.

Task 3.2 Prepare and Issue Addenda

Michael Baker will prepare addenda as required to address any changes to the contract documents needed during the bidding period.

Task 2.3 Prepare Conformed Documents

Michael Baker will incorporate addenda issued during the bidding period into the contract documents to create a conformed set of construction documents.

Task 3-Respond to Requests for Clarification FEE: \$8,418

This task will provide responses to Contractor questions during bidding and construction.

SCOPE OF SERVICES AND FEE PROPOSAL
ASSISTANCE WITH BIDDING/CONSTRUCTION
VWVRA SPILL CONTAINMENT PROJECT

Task 3.1 Conduct Research

Michael Baker will conduct any necessary research at the existing facility to support responses to the contractor.

Task 3.2 Prepare and Issue Responses to RFI's

Michael Baker will prepare responses to contractor requests for information, issue those responses and maintain a Response Log.

Task 3.3 Cost Estimates

Michael Baker will prepare construction cost estimates for alternatives developed as a result of RFI's.

Task 4-Prepare Change Orders FEE: \$9,468

This task will prepare construction change orders. A maximum of three change orders are anticipated.

Task 4.1 Prepare Revised Drawings

Michael Baker will prepare the drawings needed to support the change orders.

Task 4.2 Meet with VWVRA and Contractor

Michael Baker will meet with VWVRA and Contractor in the field to develop change orders.

Task 4.3 Estimate Additional Cost

Michael Baker will develop construction cost estimates to support construction change orders.

Task 5-Review Submittals FEE: \$1,935

This task will provide review of submittals made by the Contractor for the work.

Task 5.1 Review Submittals

Michael Baker will review all submittals required by the Contractor in conformance with the specifications.

Task 5.2 Maintain Submittal Review Log

Michael Baker will maintain a Submittal Review Log showing status.

Task 6-Assistance During Startup FEE: \$3,360

This task will provide engineering assistance during startup of the facilities.

SCOPE OF SERVICES AND FEE PROPOSAL
ASSISTANCE WITH BIDDING/CONSTRUCTION
VWVRA SPILL CONTAINMENT PROJECT

Task 6.1 Review O&M Manual

Michael Baker will review the Operation and Maintenance Manual provided by the Contractor as part of the submittals.

Task 6.2 Attend and Assist Startup

Michael Baker will attend the startup and assist in verification of proper operation.

Task 6.3 Prepare Record Drawings

Michael Baker will prepare the record drawings for the project.

TOTAL FEE: \$33,644.00



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

Report/Recommendation to the Board of Commissioners

September 20, 2018

FROM: Alton Anderson, Construction Manager *AA*
TO: Logan Olds, General Manager
SUBJECT: Recommendation to approve the award of a Professional Services Agreement to Carollo Engineering for Desert Knolls Wash Interceptor Project

RECOMMENDATION

It is recommended that the Board of Commissioners approve the award of a Professional Services Agreement for Engineering Services During Construction (ESDC) and Construction Management Services (CM) for the Desert Knolls Wash Interceptor Project to Carollo Engineers in accordance the attached scope of work. The proposed amount is \$168,803.00.

REVIEW BY OTHERS

This recommendation has been prepared by Alton Anderson, Construction Manager and reviewed by Logan Olds, General Manager and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The Desert Knolls Wash Interceptor Project has been bid and presented to the Board for award of the construction project. Carollo Engineers designed this project and has assisted VVWRA staff in the bidding of the construction project.

Because of the urgent nature of this project staff solicited a proposal from Carollo Engineers to continue the project and provide the ESDC and CM services. During the construction of the Subregionals which Carollo and HDR designed an agreement was reached that Carollo would provide VVWRA with future services in the amount of \$135,400 at no charge. This amount is used to offset the charges for the ESDC and CM services for Desert Knolls Wash Interceptor.

Attached is a copy of the Scope of Work, and cost breakdown in relation to this project. The cost is summarized as:

ESDC Services	\$ 73,653.00
CM Services	\$230,540.00
Settlement	<u>\$135,400.00</u>
Net Cost	\$168,793.00

As stated above, Carollo designed the Desert Knolls Wash Interceptor Project and they have internal knowledge that will be of benefit during construction. Having them perform the ESDC and CM services will ensure the successful and timely completion of the project. Staff is recommending that the Board

approve a new Professional Services Agreement for Engineering Services During Construction and Construction Management Services for this project.

The proposal from Carollo Engineers is attached.

FINANCIAL IMPACT

This is a budgeted project for FY 18/19 and funding will be from VVWRA account 07-05-20-9000, C005. Staff proposes that the negotiated settlement for services be applied to this project for a savings of \$135,400. The net cost is estimated at \$168,793.00. Budget remaining after this expenditure is \$1,131,207.00

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	07-05-20-9000, C005
Transfer Needed due to Insufficient Budget	Y [] N [X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	1,131,207
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

RELATED IMPACT

Replacement of an Interceptor that crosses Desert Knolls Wash twice and that will require replacement due to a planned flood control project.

EXHIBIT A

Scope of Work for ESDC and CM/Inspection Services

Desert Knolls Wash Interceptor

The South Apple Valley Interceptor (Interceptor) was constructed in 1981 and crosses the Desert Knolls Wash several times in the vicinity of the Lewis Center for Educational Research. The wash upstream of the impacted area was concrete, channelized by San Bernardino Flood Control (FCD), which serves to protect the first crossing. However, the resulting storm water from the FCD channel improvement has caused increased velocity and sediment free storm water until it reaches the unimproved channel where the second crossing is located. Because the water is sediment free and has increased velocity it scours down, picking up sediment and transporting the sediment further downstream until the velocity slows. On December 24, 2016 a portion of the interceptor sewer crossing (15-inch PVC) was exposed and possibly floated during a significant rain event.

As part of this relocation project, CAROLLO will provide engineering services during construction (ESDC) and construction management (CM)/Inspection services for the Desert Knolls Wash interceptor project which consists of: approximately 2,600 linear feet of 15 to 24 inch gravity sewer, 8 manholes, grit control facility, FRP prefabricated sampling building, and the demolition of two existing structures.

ASSUMPTIONS

The ESDC and CM/inspection services defined herein are based on the following assumptions including:

1. Engineer will furnish a full time (on-site) inspector and part-time Construction Manager (CM).
2. Engineer will not furnish geotechnical testing, or materials testing during construction. This shall be the responsibility of the Contractor.
3. Contractor shall maintain a set of active Record Drawings at the Project site, consisting of red-lined markups to the bid drawings. Review of red-lined markups shall be the responsibility of the Inspector.
4. Submittals, RFIs, Change Orders, Design Clarifications, etc. beyond the numbers estimated within the attached Fee estimate will require a modification to this Scope and Fee.
5. The anticipated actual construction period will be five (5) months. From Contractor Notice to Proceed (NTP) to Final Completion and Acceptance is a maximum of nine (9) months. Time and services provided beyond this anticipated actual construction duration will require a modification to this Scope and Fee.

6. Coordination with the tribal, cultural, and environmental monitors. Tribal and cultural monitors will be responsible for monitoring all earth moving operations for artifacts, except backfilling.

1.0 PROJECT COORDINATION

CAROLLO's Principal-in-Charge (Andrew Gilmore) and Project Manager (Mike Fleury) will manage the efforts of the project team members, make staffing assignments, review work progress, coordinate the quality assurance / quality review process, and communicate progress to VVWRA.

1.1. Project Management

CAROLLO will provide project management services, including:

- Preparation of budgets for each project task
- Prepare monthly progress reports to accompany the monthly invoice that summarizes:
 - For each task - overview of all activities in the previous and following month.
 - Schedule performance - planned versus actual.
 - Cost performance - planned versus actual
 - Overview of project challenges and issues that may affect performance with respect to schedule and budget.
- Tracking out-of-scope work items.
- Be available remotely to address technical issues as they arise.
- Visit the site at critical points in the construction.
 - Budget is based on four (4) site visits by one person of the management team. Travel, accommodations, meals, and incidental expenses have also been included for the four (4) visits.
 -

1.2. Project Meetings

CAROLLO will provide the agenda, lead, and develop the minutes for the project meetings with VVWRA staff, tribal and cultural monitors, and the Contractor as estimated during the construction to include the following:

- Pre-Construction Meeting followed by a site visit.
- Bi-Weekly Progress Meetings
- Project Close-Out Meeting

2.0 REQUESTS FOR INFORMATION

CAROLLO's Project Manager will respond to Requests for Information (RFIs) from the Contractor and provide written answers to RFIs, including sketches and/or drawing revisions as appropriate. The scope includes providing responses for ten (10) RFIs.

3.0 SUBMITTALS

CAROLLO will review shop drawings, catalog data, and other materials that the Contractor is required to submit. The scope and budget includes providing review and responses for ten (10) original submittals.

4.0 RECORD DRAWINGS

CAROLLO will prepare record drawings based on the Contractor's redlines that have been approved by CAROLLO's Construction Manager/Inspector

5.0 CONSTRUCTION MANAGEMENT AND INSPECTION SUPPORT

CAROLLO will provide a part-time CM and a full-time inspector during the construction phase. The CM will provide the following services:

- Document and track work progress, progress payments, RFIs, review and process potential change orders (3), progress photographs, contractor schedules, and construction issues.
- Coordinate with the VVWRA staff to address all VVWRA activities and responsibilities in a timely manner.
- The CM team will always represent the VVWRA's interests in dealing with the project stakeholders.
- Conduct bi-weekly construction meetings.
- Clarify construction changes and irregularities.
- Review contractor progress payment requests, and submit the final progress payment request to VVWRA for approval.
- Negotiate, prepare, and process changes orders(s) and/or extra work orders(s).
- Review up-to-date construction information recorded by the project Inspector.
- Review and comment on the Contractor's schedule.

Our inspector will provide the necessary construction oversight at the jobsite. Our inspector will perform the following duties:

- Prepare daily inspection reports that document fabrication and construction activities, record equipment, personnel, weather, time of observations, and document any deviations and non-conformances to the plans and specifications.
- Maintain a complete photographic record of the project from the pre-construction condition of the site.
- Submit a weekly summary report identifying current and planned work activities, adherence to the project schedule, and any nonconformance items or perceived problems.
- Coordinate with the materials testing company provided by the Contractor.

SCHEDULE

The work is anticipated to commence after receiving notice to proceed from VVWRA. Anticipated construction schedule is October 1, 2018 to July 1, 2019 (9 months).

FEE**\$73,653**

The proposed time and materials fee for the project is shown in Appendix B (ESDC- ~~\$73,663~~) and C (CM/Inspection Services- \$230,540) which equates to a total contract amount of \$304,203. Subsequent to the agreement reached with VVWRA on September 10, 2018 (See attachments) this total contract amount is reduced by \$135,400 to settle Carollo/HDR design issues on the Sub-Regional WRFs. The proposed time and materials not to exceed contract amount is ~~\$168,803.~~

\$168,793



4600 East Washington Street, Suite 500, Phoenix, Arizona 85034
P. 602.263.9500 F. 602.265.1422

September 10, 2018

Mr. Logan Olds, General Manager
Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

Subject: Design Issues Settlement (update September 10, 2018)

Dear Logan:

This is an update per the draft proposed resolution documented in our letter dated May 25, 2019 (see attached). Per our discussion on September 7, 2018, we propose to use the \$135,400 as a "working credit" for the Construction Management services portion of the DKW pipeline project. Carollo will keep track of the charges (hours and rates, reimbursables, etc.) against this "working credit" and report on a monthly basis the amounts (credit used and credit remaining). Once the credit is completely used we will bill against the DKW project contract budget, as allowable under that Contract. Please confirm this is agreeable by VVWRA and we will proceed accordingly.

Sincerely,

CAROLLO ENGINEERS, INC.

A handwritten signature in blue ink that reads "Andrew Gilmore".

Andrew Gilmore
Vice President

AG:ch

Attachments: Design Issues Settlement Draft letter, May 25, 2018



4600 East Washington Street, Suite 500, Phoenix, Arizona 85034
P. 602.263.9500 F. 602.265.1422

May 25, 2018

Mr. Logan Olds, General Manager
Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

Subject: Design Issues Settlement

Dear Logan:

This will confirm our discussions regarding the agreement reached concerning the Design Team's responsibility for certain change order costs. The underlying issues and our proposed resolution were discussed in detail in our letter dated December 30, 2017, and the Victor Valley Water Reclamation Authority (VWRA) has accepted that proposal. The Design Team's contribution of \$135,400 will be deducted from future billings for Carollo services on other VWRA projects, on a schedule to be agreed upon later. HDR's contribution will be addressed in a separate agreement with Carollo, without the involvement of VWRA.

We appreciate your patience in working through these issues, and we are pleased to have reached an agreement that resolves this matter to everyone's satisfaction.

Sincerely,

CAROLLO ENGINEERS, INC.

Andrew Gilmore
Vice President

AG:ch

Exhibit B
Estimated Work Effort ESDC Services
Desert Knolls Wash Interceptor
Victor Valley Wastewater Reclamation Authority

Estimated Effort, Hours

Task No.	Description	Project Manager/Director/CM \$ 255	CADD Tech. \$ 145	Project Prof \$ 185	Inspector \$ 180	Inspector Overtime \$ 194	Support Staff \$ 123	Total	ODC	Total Fee by Task
1	Project Management	40	0	0	0	0	8	48	\$ 262	\$ 11,446
2	Meetings/Site Visits	108	0	0	0	0	16	124	\$ 5,240	\$ 34,748
3	Requests for Information	8	0	40	0	0	8	56	\$ -	\$ 10,424
4	Submittals	20	0	40	0	0	4	64	\$ -	\$ 12,992
4	Record Drawings	4	20		0	0	1	25	\$ 300	\$ 4,043
	Total	180	20	80	0	0	37	317	5802	73653

Total	\$ 73,653
--------------	------------------

Exhibit C
Estimated Work Effort Construction Management Services
Desert Knolls Wash Interceptor
Victor Valley Wastewater Reclamation Authority

Estimated Effort, Hours

Task No.	Description	Construct. Manager \$ 255	CADD Tech. \$ 145	Project Prof \$ 185	Inspector \$ 181	Inspector Overtime \$ 214	Inspector \$ 150	Inspector Overtime \$ 194	Support Staff \$ 123	Total	ODC (\$)	Total Fee by Task (\$)
1	Project Documentation	125	0	0	160	0	0	0	40	325	\$ 6,160	\$ 71,915
2	Meetings	96	0	0	20	0	0	0	0	116		\$ 28,100
3	Requests for Information	9	0	0	8	0	0	0	0	17	\$ -	\$ 3,743
4	Submittals	4	0	0	10	0	0	0	0	14	\$ -	\$ 2,830
4	Record Drawings	2	0	0	6	0	0	0	0	8		\$ 1,596
5	Inspection Support (5 months)	0			676					676	\$ -	\$ 122,356
	Total	236	0	0	880	0	0	0	40	1156	6160	230540

1. Overtime is based on 1.5 times the base rate.

Sub-Total	\$ 230,540
Settlement	(\$135,400)
Total	\$95,140



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager *LO*

TO: Board of Commissioners

SUBJECT: Lewis Center for Educational Research Easement for Desert Knolls Wash Interceptor Project

RECOMMENDATION

At the time of writing this staff recommendation the Lewis Center for Educational Research indicated that their Board would be meeting on Monday September 17th to discuss the offer for a permanent and temporary easement to construct the Desert Knolls Wash Interceptor Project. Staff believes that there will be information to present to the Board on 20 September 2018. At that time staff will provide the Board with a verbal recommendation.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The background information for the permanent sewer easement is attached for reference and authorization if an agreement is reached and the VWRA Board is able to act on an offer by the Lewis Center for Educational Research.

FINANCIAL IMPACT

Unknown at the time of preparing this staff recommendation.

RELATED IMPACTS

None

RECORDING REQUESTED BY:

Victor Valley Wastewater
Reclamation Authority

WHEN RECORDED MAIL TO:

Victor Valley Wastewater
Reclamation Authority
15776 Main Street, Suite 3
Hesperia, CA 92345

EXEMPT FROM RECORDING FEES PER GOVT. CODE §27383
EXEMPT FROM DOCUMENTARY TRANSFER TAX PER REV. & TAX CODE §11922

PERMANENT SEWER EASEMENT

Assessor Parcel No. **0473-183-21**

The UNDERSIGNED, **THE HIGH DESERT "PARTNERSHIP IN ACADEMIC EXCELLENCE" FOUNDATION, INCORPORATED**, a Non-Profit Corporation, ("Grantor") hereby GRANTS to the **VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY**, a Joint Powers Authority and Public Agency of the State of California ("Grantee"), an easement in, over, under, upon and across the lands hereinafter described, to construct, operate, reconstruct, install, replace, remove, repair, alter, maintain, inspect and use sewer line(s) and all related appurtenances ("Grantee Facilities") for public purposes, and for ingress and egress in connection with the exercise of any of the foregoing rights. The property subject to this easement ("Property") is located in the County of San Bernardino, State of California, described in attached exhibit marked EXHIBIT "A" and shown on the map marked EXHIBIT "B" attached hereto, both of which exhibits are incorporated herein by this reference.

The above described easement is for the construction, use, reconstruction, maintenance, repair, alteration, inspection, replacement and removal of the Grantee Facilities. Said easement is irrevocable and shall continue in full force and effect, unobstructed from permanent structures or improvements, including without limitation, buildings, fences, concrete or trees, so long as said pipeline system is operated and maintained by Grantee, its successors and assigns, upon the Property.

Grantor shall provide Grantee with access to all roads, driveways and walkways that are now and may be located in and around the Property that are necessary or appropriate for proper ingress and egress to and from the Grantee Facilities. Any upgrade, maintenance, repair, replacement or removal of the Grantee Facilities shall be at Grantee's expense unless the Grantee Facilities are damaged as a result of the negligent acts of Grantor, its contractors, lessees, successors or assigns.

If any legal or equitable action or proceeding is instituted by one party against the other to enforce or interpret any provision of this easement, the party prevailing in such action shall be entitled to recover from the losing party all of its costs of suit, including, but not limited to, reasonable attorneys' fees awarded by the court.

This easement may be amended or modified only by a written instrument executed and acknowledged by the parties or their successors in interest and recorded in the Official Records of Riverside County, California. Any provision of this easement adjudicated by a court of competent jurisdiction to be invalid or unenforceable for any reason shall be ineffective to the extent of such prohibition or invalidity and shall not invalidate or otherwise render invalid or unenforceable any remaining provisions of this grant.

Subject to the easements and offers of dedication of record.

IN WITNESS THEREOF, the undersigned Grantor has executed this instrument as of _____, 2018.

GRANTOR:

**THE HIGH DESERT "PARTNERSHIP IN
ACADEMIC EXCELLENCE" FOUNDATION,
INCORPORATED**, a Non-Profit Corporation,

By: _____

Name: _____

Title: _____

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of _____)

County of _____)

On _____ before me, _____
(Please Print Name and Title of the Officer)

personally appeared _____
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public Signature

(Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

(Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

- This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.*
- State and County information must be the State and County where the document signed or personally appeared before the notary public for acknowledgment.
 - Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
 - The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
 - Print the name(s) of document signer(s) who personally appear at the time of notarization.
 - Indicate the correct singular or plural form by crossing off incorrect forms (i.e. ~~Indicate~~ is two) or circling the correct form(s). Failure to correctly indicate this information may lead to rejection of document recording.
 - The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudged, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
 - Signature of the notary public must match the signature on file with the office of the county clerk.
 - Additional information is not required but could help to ensure the acknowledgment is not misplaced or attached to a different document.
 - Indicate file or type of attached document, number of pages and date.
 - Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary)
 - Securely attach this document to the signed document with a staple.

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

CERTIFICATE OF ACCEPTANCE

This Certificate of Acceptance pertains to the interests in real property conveyed by the Grant of Permanent Sewer Easement to which this Certificate of Acceptance is attached,

from: **THE HIGH DESERT "PARTNERSHIP IN ACADEMIC EXCELLENCE" FOUNDATION, INCORPORATED ("Grantor")**

to: **VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY ("Grantee")**

Said Grant of Permanent Sewer Easement is hereby accepted by the undersigned officer on behalf of Grantee pursuant to authority conferred by the Grantee's governing board, and Grantee hereby consents to recordation of said Grant.

Dated: _____, 2018

VICTOR VALLEY WASTEWATER
RECLAMATION AUTHORITY, a Joint
Powers Authority

By: _____

Logan Olds, General Manager

EXHIBIT "A"
LEGAL DESCRIPTION
V.V.W.R.A. – DESERT KNOLLS WASH INTERCEPTOR
GRANT OF EASEMENT
APN 0473-183-21

PARCEL 1:

A STRIP OF LAND 10.00 FEET IN WIDTH BEING A PORTION OF SECTION 10, TOWNSHIP 5 NORTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF APPLE VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, THE CENTERLINE OF SAID STRIP IS DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST ONE-QUARTER CORNER OF SAID SECTION 10; THENCE NORTH $00^{\circ}58'48''$ EAST A DISTANCE OF 214.30 FEET TO THE TRUE POINT OF BEGINNING; THENCE

- 1) SOUTH $25^{\circ}10'37''$ WEST, 303.43 FEET TO AN ANGLE POINT; THENCE
- 2) SOUTH $29^{\circ}19'06''$ WEST, 549.20 FEET TO AN ANGLE POINT; THENCE
- 3) SOUTH $34^{\circ}38'07''$ WEST, 532.91 FEET TO AN ANGLE POINT; THENCE
- 4) SOUTH $38^{\circ}09'42''$ WEST, 312.66 FEET TO AN ANGLE POINT, SAID POINT REFERRED TO AS "POINT A"; THENCE
- 5) SOUTH $38^{\circ}23'23''$ WEST, 108.97 FEET TO AN ANGLE POINT; THENCE
- 6) SOUTH $76^{\circ}08'12''$ WEST, 164.85 FEET TO THE TERMINUS OF PARCEL 1

THE SIDELINES OF SAID STRIP OF LAND ARE TO BE LENGTHENED OR SHORTENED TO TERMINATE ON THE EAST LINE OF SAID SECTION 10.

CONTAINING 19,720 SQUARE FEET/0.453 ACRES.

PARCEL 2:

BEGINNING AT SAID "POINT A"; THENCE

- 1) NORTH $84^{\circ}13'13''$ EAST, 19.76 FEET TO THE TERMINUS OF PARCEL 2.

THE SIDELINES OF SAID STRIP OF LAND ARE TO BE SHORTENED TO TERMINATE ON THE EASTERLY LINE OF SAID PARCEL 1.

CONTAINING 128 SQUARE FEET/0.003 ACRES.

THIS LEGAL DESCRIPTION WAS PREPARED BY ME OR UNDER MY DIRECTION PURSUANT TO CALIFORNIA BUSINESS AND PROFESSIONAL CODE SECTION 87300.

TERg 4/27/18
THOMAS E. RAGEN, L.S. 6205 DATE

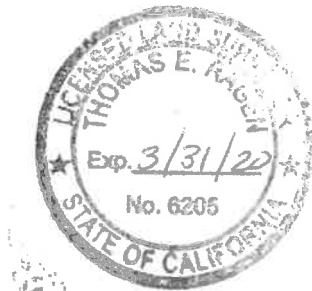
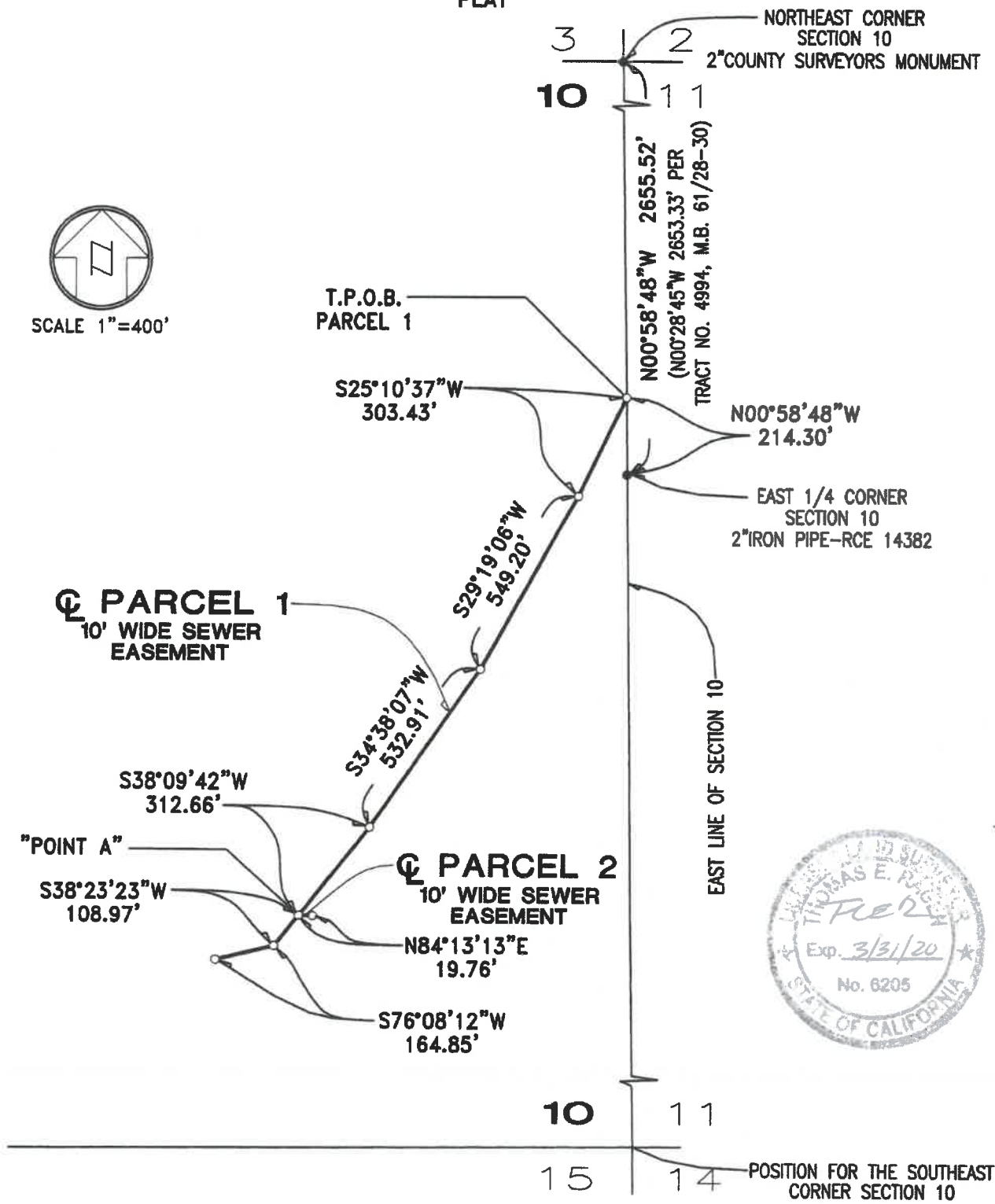


EXHIBIT "B"
PLAT



SCALE 1"=400'



TRLS ENGINEERING Inc.
10770 I Ave. Ste. 108
Hesperia, CA 92345
(760) 948-4900



VICTOR VALLEY WATER RECLAMATION AUTHORITY
A.P.N. 0473-183-21
DESERT KNOLLS WASH INTERCEPTOR
APPLE VALLEY, CA



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 September 20, 2018

FROM: Alton Anderson, Construction Manager *AA*
TO: Logan Olds, General Manager
SUBJECT: Recommendation to to Award a Construction Contract to DDH Apple Valley Construction for the construction of the Desert Knolls Wash Interceptor Project

RECOMMENDATION

It is recommended that the Board of Commissioners approve a Construction Contract with DDH Apple Valley Construction for construction in the amount of \$1,029,127.00 for the construction of the Desert Knolls Wash Interceptor Project.

REVIEW BY OTHERS

This recommendation has been prepared by Alton Anderson, Construction Manager and reviewed by Logan Olds, General Manager and Chieko Keagy, Controller.

BACKGROUND INFORMATION

This VVWRA Interceptor in Desert Knolls Wash was damaged during rain events in late December 2016. Erosion in the Wash removed the cover over a section of the pipe and allowed it to “float”. This raised a section of the pipe above grade. Fortunately the pipe did not separate and there was no spill. VVWRA staff responded quickly and took temporary measures to protect the pipe and divert the flow of water around the damaged section.

Because of the urgency of this Project staff has updated the Board on a regular basis. An RFP for design was sent out in early 2017. The design was completed and an RFP for construction was released in July 2018. The bids for construction were opened August 30, 2018.

The project includes approximately 2,600 feet of 15, 18, and 24-inch PVC sewer, 8 manholes, a grit removal structure, and a sampling building. One of the key points of the project will be to remove the pipe alignment from the Wash. The engineer’s estimate for the project is \$1,349,649.00.

This project lies in a sensitive area that is known for having possible Native American cultural artifacts. Excavation will be observed by Native American, Cultural, and Environmental monitors. Because of this we have impressed on the Contractor that excavation will be slow. Bids have been reviewed for accuracy and compliance with the RFP and Addendum. The bid tabulation sheet is also attached for reference.

For the apparent low Bidder the references provided in the bid documents were contacted. All other bid requirements were evaluated and found to be complete.

The bids received are as follows:

1. \$1,029,127 DDH Apple Valley Construction
2. \$1,032,405 WEKA, Inc.
3. \$1,440,860 Christensen Brothers

One of the items in the issued Addendum was an indication that the first several hundred feet of pipe was in a more sensitive area with a higher probability of a slow down in excavation. The bid form was modified to show this in separate line items with anticipation that the unit price would be higher. In the case of Apple Valley Construction there was no indication of this increased rate so Staff contacted them to verify their unit prices. This is a standard practice that would allow a Contractor to remove his bid rather than proceeding with a project. Attached is an email with Apple Valley Construction that verifies they will hold the unit prices as bid.

In all respects of our review Staff has identified that this is a local contractor with an excellent reputation and the ability to perform the work of this contract. We recommend to the Board that this contract be awarded to DDH Apple Valley Construction for the construction of the Desert Knolls Wash Interceptor Project.

FINANCIAL IMPACT

This is an emergency project and funding will be from VVWRA accounts. It is estimated that the construction project will be a total Budget impact of \$1,029,127.00. The impact to FY 18/19 will be \$1,029,127.00 to Budget Account 07-05-20-9000, C005. Budget remaining after construction and ESDC and CM expenses will be approximately \$102,080.00

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	07-05-20-9000, C005
Transfer Needed due to Insufficient Budget	Y [] N [X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	102,080
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

RELATED IMPACT

Replacement of an inteceptor that crosses Desert Knolls Wash twice and that will require replacement due to a planned San Bernardino County flood control project.

Kristi Casteel

From: Jeremy Hamilton <jeremy.avcc@gmail.com>
Sent: Thursday, August 30, 2018 4:06 PM
To: Alton Anderson
Subject: Re: Desert Knolls Wash

Alton

Yes we are comfortable with are pricing, and you can proceed.

Sent from my iPhone

Sent from my iPhone

On Aug 30, 2018, at 3:45 PM, Alton Anderson <aanderson@vwwra.com> wrote:

<image001.gif>

Hello Jeremy,

I have tabulated your bid and I find no errors or reason to exclude it. But I feel I have to ask you to confirm your prices, especially in relation to pipe pricing on items 2 and 2A. We anticipated that your piping unit price would be higher in the area "w/significant Tribal & Cultural Impacts" than in the area without this emphasis. As you know your overall bid price is only \$3,200 below the 2nd place but I want to make sure you are comfortable with these prices before I proceed.

Thank you,

Alton C. Anderson

Construction Manager
Victor Valley Wastewater Reclamation Authority
WWTP Address: 20111 Shay Road, Victorville, CA 92394
Phone 760-246-8638 ext. 281
Fax 760-246-5194
Cell 760-713-9857
email aanderson@vwwra.com

<BIDTAB Desert Knolls Wash Interceptor.pdf>

AWARD RECOMMENDATION:		DDH Apple Valley Construction, Inc.		DESCRIPTION		SHEET	
BEST VALUE:		Lowest Bidder @ \$1,029,127.00		Desert Knolls Wash Interceptor		1	
ENGINEERS ESTIMATE:		\$1,349,649.00					
BUDGETED AMOUNT:		NA					
NUMBER OF CURRENT PROJECTS:		2					
MANAGER/SUPERINTENDENT CONCURRENCE:		In Process/Under Review					
PRE-BID:		Yes					
PERFORMANCE ISSUES:		No					
PREPARED BY:		Alton Anderson, Construction Manager					
DATE:		8/30/2018					
APPROVED BY:							
VENDOR:		DDH Apple Valley Construction, Inc.		Weka, Inc.		Christensen Brothers General Engineering, Inc.	
ADDRESS:		9312 Deep Creek Rd		27075 5th Street		PO Box 1286	
CITY:		Apple Valley		Highland		Apple Valley	
STATE & ZIP:		CA, 92308		CA, 92364		CA, 92307	
QUOTED BY:		Douglas G. Hamilton		Jared Himle		Caleb Christensen;	
TITLE:		President		President		President	
QUOTE DATE:		8/30/2018		8/30/2018		8/30/2018	
No. of Days							
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
1	1	Lump Sum	Initial Mobilization (5% max of Bid Price)	51,000.00	51,000.00	44,000.00	44,000.00
2	1432	LF	15" PVC Sewer Pipe	123.00	176,136.00	107.00	153,224.00
2A	846	LF	15" PVC Sewer Pipe w/significant Tribal & Cultural Impacts	77.00	65,142.00	153.00	129,438.00
3	129	LF	18" PVC Sewer Pipe w/significant Tribal & Cultural Impacts	110.00	14,190.00	167.00	21,543.00
4	133	LF	24" PVC Sewer Pipe w/significant Tribal & Cultural Impacts	123.00	16,359.00	187.00	24,871.00
5	1	Lump Sum	Furnish & Install Grit Control Structure	236,000.00	236,000.00	255,033.00	255,033.00
6	8	Each	Furnish & INSTALL 5-foot Diameter Manholes	25,000.00	200,000.00	17,500.00	140,000.00
7	1	Lump Sum	Furnish & Install Connection to Existing Manhole AVS-2 Complete	10,600.00	10,600.00	27,000.00	27,000.00
8	1	Lump Sum	Furnish & Install Sampling Building, Concrete Slab, and Elec Service	72,000.00	72,000.00	62,617.00	62,617.00
9	1	Lump Sum	Demolition of Existing and Abandoned Sampling Buildings	13,100.00	13,100.00	8,000.00	8,000.00
10	1	Lump Sum	Prepare Storm Water Pollution Prevention Plan	8,800.00	8,800.00	3,979.00	3,979.00
11	1	Lump Sum	Trench Sheeting, Shoring and Bracing or Equivalent Method	15,800.00	15,800.00	12,700.00	12,700.00
12	1	Lump Sum	Geotechnical Allowance (Dewatering)	50,000.00	50,000.00	50,000.00	50,000.00
13	1	Lump Sum	Allowance	100,000.00	100,000.00	100,000.00	100,000.00
Total:					\$ 1,029,127.00		\$ 1,032,405.00
Difference					\$0.00		\$ 3,278.00
							\$ 1,440,860.00
							\$ 411,733.00

**SECTION 00400
BID FORM**

NAME OF BIDDER: DDH Apple Valley Construction, Inc.

The undersigned Bidder hereby declares that it has carefully examined the location of the proposed Work, and has read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Work:

DESERT KNOLLS WASH INTERCEPTOR

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Work in strict accordance with the Contract Documents for the following **TOTAL BID PRICE:**

NO.	ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY.	UNIT PRICE	LINE ITEM COST
1	Initial Mobilization (5% of Bid Price)	LS	1	51,000.00	51,000.00
2	Furnish and Install 15-inch PVC Sewer Pipe Complete w/ Tribal and Cultural Monitoring	LF	1,432	123.00	176,136.00
2A	Furnish and Install 15-inch PVC Sewer Pipe Complete w/Significant Tribal and Cultural Monitoring Impacts	LF	846	77.00	65,142.00
3	Furnish and Install 18-inch PVC Sewer Pipe Complete w/ Significant Tribal and Cultural Monitoring Impacts	LF	129	110.00	14,190.00
4	Furnish and Install 24-inch PVC Sewer Pipe Complete w/ Significant Tribal and Cultural Monitoring Impacts	LF	133	123.00	16,359.00
5	Furnish and Install Grit Control Structure Complete	LS	1	236,000.00	236,000.00
6	Furnish and Install 5-Foot Diameter Manholes Complete	EA	8	25,000.00	200,000.00
7	Furnish and Install Connection to Existing Manhole AVS-2 Complete	LS	1	10,600.00	10,600.00
8	Furnish and Install Sampling Building, Concrete Slab, and Electrical Service Complete	LS	1	72,000.00	72,000.00

**SECTION 00400
BID FORM**

BID FORM

NAME OF BIDDER: DDH Apple Valley Construction, Inc.

The undersigned Bidder hereby declares that it has carefully examined the location of the proposed Work, and has read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Work:

DESERT KNOLLS WASH INTERCEPTOR

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Work in strict accordance with the Contract Documents for the following TOTAL BID PRICE:

NO.	ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY.	UNIT PRICE	LINE ITEM COST
1	Initial Mobilization (5% of Bid Price)	LS	1		
2	Furnish and Install 15-inch PVC Sewer Pipe Complete	LF	2,278		
3	Furnish and Install 18-inch PVC Sewer Pipe Complete	LF	129		
4	Furnish and Install 24-inch PVC Sewer Pipe Complete	LF	133		
5	Furnish and Install Grit Control Structure Complete	LS	1		
6	Furnish and Install 5-Foot Diameter Manholes Complete	EA	8		
7	Furnish and Install Connection to Existing Manhole AVS-2 Complete	LS	1		
8	Furnish and Install Sampling Building, Concrete Slab, and Electrical Service Complete	LS	1		
9	Demolition of Existing and Abandoned Sampling Bldg's	LS	1		
10	Prepare Storm Water Pollution Prevention Plan (SPPP)	LS	1		
11	Trench Sheet piling, Shoring, and Bracing or Equivalent Method	LS	1		
12	Geotechnical Allowance (Dewatering)	LS	1		\$50,000

SECTION 00400
BID FORM

9	Demolition of Existing and Abandoned Sampling Bldg's	LS	1	13,100. ⁰⁰	13,100. ⁰⁰
10	Prepare Storm Water Pollution Prevention Plan (SPPP)	LS	1	8,800. ⁰⁰	8,800. ⁰⁰
11	Trench Sheet piling, Shoring, and Bracing or Equivalent Method	LS	1	15,800. ⁰⁰	15,800. ⁰⁰
12	Geotechnical Allowance (Dewatering)	LS	1	50,000. ⁰⁰	\$50,000
13	Allowance	LS	1	100,000. ⁰⁰	\$100,000

Bidders must provide pricing for every bid item.

The estimated quantities for unit price items are for purposes of comparing bids only and VVWRA makes no representation that the actual quantities of work performed will not vary from the estimates.

In case of discrepancy between the unit price and the line item cost set forth for a unit price item, the line item cost, calculated at the unit price multiplied by the estimated quantity, shall prevail and shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Line Item Cost" column, then the amount set forth in the "Line Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. If any of the above discrepancies exist, VVWRA may recalculate the bid price on the basis of the unit price and the bidder agrees to be bound by such recalculation. Final payment for unit price items shall be determined by VVWRA from measured quantities of work performed.

BASE BID PRICE (BASED ON BID SCHEDULE):

\$ 1,029,127.⁰⁰
Base Bid Price in Numbers

One Million Twenty-Nine Thousand One Hundred Twenty-Seven Dollars and Zero Cents.
Base Bid Price in Written Form

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to VVWRA which cannot be withdrawn for the number of calendar days from the bid opening stated in the Notice Inviting Bids, or until a Contract for the Work is fully executed by VVWRA and a third party, whichever is earlier.

**SECTION 00400
BID FORM**

13	Allowance	LS	1		\$100,000
----	-----------	----	---	--	-----------

Bidders must provide pricing for every bid item.

The estimated quantities for unit price items are for purposes of comparing bids only and VVWRA makes no representation that the actual quantities of work performed will not vary from the estimates.

In case of discrepancy between the unit price and the line item cost set forth for a unit price item, the line item cost, calculated at the unit price multiplied by the estimated quantity, shall prevail and shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Line Item Cost" column, then the amount set forth in the "Line Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. If any of the above discrepancies exist, VVWRA may recalculate the bid price on the basis of the unit price and the bidder agrees to be bound by such recalculation. Final payment for unit price items shall be determined by VVWRA from measured quantities of work performed.

BASE BID PRICE (BASED ON BID SCHEDULE):

\$ _____
Base Bid Price in Numbers

Base Bid Price in Written Form

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to VVWRA which cannot be withdrawn for the number of calendar days from the bid opening stated in the Notice Inviting Bids, or until a Contract for the Work is fully executed by VVWRA and a third party, whichever is earlier.

**SECTION 00400
BID FORM**

The Contract Time shall commence on the date stated in VVWRA's Notice to Proceed or as stated above. In no case shall the Contractor commence construction prior to the date stated in VVWRA's Notice to Proceed, or before providing the required bonds and evidence of insurance.

Bidder certifies that it is licensed in accordance with the California law providing for the registration of Contractors, License No. 680052, Expiration Date 11/30/19, class of license A,B,C42 If the bidder is a joint venture, each member of the joint venture must include the above information.

The undersigned acknowledges receipt, understanding, and full consideration of the following addenda to the Contract Documents.

Addenda No. 01 - August 23, 2018

Addenda No. N/A

Addenda No. N/A

BIDDER'S CHECKLIST

This checklist has been prepared and furnished to assist Bidders in including all items necessary for a complete Bid. Omission of items from the list does not relieve the Bidders of the obligation to comply with all requirements of the bid documents. Bidders' submittals should include, but are not necessarily limited to, the following:

<u>Item</u>	<u>Checked</u>
1. Bid Form	<input checked="" type="checkbox"/>
2. Bid Schedule	<input checked="" type="checkbox"/>
3. Contractor's Certificate Regarding Workers' Compensation	<input checked="" type="checkbox"/>
4. Bid Bond or other security	<input checked="" type="checkbox"/>
5. List of Subcontractors	<input checked="" type="checkbox"/>
6. Information Required of Bidders	<input checked="" type="checkbox"/>
7. Non-Collusion Declaration	<input checked="" type="checkbox"/>
8. Iran Contracting Act Certification	<input checked="" type="checkbox"/>
9. Public Works Contractor Registration Certification	<input checked="" type="checkbox"/>

Bidder acknowledges and understands that, pursuant to Public Contract Code section 20676, sellers of "mined material" must be on an approved list of sellers published pursuant to Public Resources Code section 2717(b) in order to supply mined material for this Contract.

I hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted in connection with this Bid and all of the representations made herein are true and correct.

Name of Bidder DDH Apple Valley Construction, Inc.

**SECTION 00-400
BID FORM**

Signature  _____

Name and Title Douglas G. Hamilton, President


Dated 08/28/2018

SECTION 00405
CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION

CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION

I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

Name of Bidder DDH Apple Valley Construction, Inc.

Signature 

Name Douglas G. Hamilton

Title President

Dated 08/28/2018

SECTION 00410

BID BOND

BID BOND

KNOW ALL PERSONS BY THESE PRESENTS that, DDH Apple Valley Construction, Inc. hereinafter called the PRINCIPAL, and The Ohio Casualty Insurance Company, a corporation duly organized under the laws of the State of New Hampshire, having its principal place of business at 175 Berkeley Street, Boston in the State of Massachusetts and authorized to do business in the State of California, hereinafter call the SURETY, are held and firmly bound unto Victor Valley Wastewater Reclamation Authority, hereinafter called the OBLIGEE, on order, in the sum of Ten Percent of Amount Bid Dollars (\$10%) (being at least ten percent (10%) of the total amount of PRINCIPAL'S bid price) lawful money of the United States, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the PRINCIPAL has submitted its Bid for the project entitled Desert Knolls Wash Interceptor to the OBLIGEE, the Bid, by reference thereto; being hereby made a part hereof.

NOW, THEREFORE, if the Bid is rejected or, in the alternate, if the Bid is accepted and the PRINCIPAL signs and delivers a Contract and furnishes evidence of insurance and a Performance Bond and Payment Bond, all in the form and within the time required by the Contract Documents, then this obligation shall become null and void, otherwise the same shall remain in full force and effect and upon default of the PRINCIPAL shall be forfeited to the OBLIGEE, it being expressly understood and agreed that the liability of the SURETY for any and all default of the PRINCIPAL shall be the amount of this obligation as herein stated, as liquidated damages.

The SURETY, for value received, hereby agrees that the obligations of SURETY and its bond shall not be impaired or affected by any extension of the time within which the OBLIGEE may accept the Bid, and the SURETY hereby waives notice of any such extension.

In the event suit is brought upon this bond by the OBLIGEE and judgment is recovered, the SURETY shall pay, in addition to the sum set forth above, all costs incurred by the OBLIGEE in such suit, including reasonable attorney's fees and expert witness fees, to be fixed by the court, in addition to the penal sum of the Bond.

Signed this 27th day of August, 2018

DDH Apple Valley Construction, Inc. PRINCIPAL

BY Douglas Gregory Hamilton, President The Ohio Casualty Insurance Company SURETY

BY Shaunna Rozelle Ostrom, Attorney-in-Fact

Note: Signature of person executing for SURETY must be notarized and evidence of corporate authority attached.

SECTION 00410
BID BOND

Notary Acknowledgment

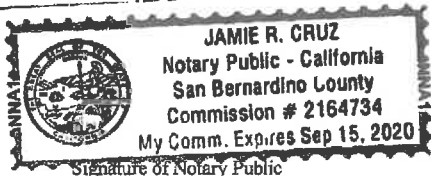
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA
COUNTY OF San Bernardino

On August 29, 2018, before me, Jamie R. Cruz, Notary Public, personally appeared Douglas Gregory Hamilton, who proved to me on the basis of satisfactory

evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

Jamie R. Cruz

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

CAPACITY CLAIMED BY SIGNER

DESCRIPTION OF ATTACHED DOCUMENT

- Individual
- Corporate Officer

President

Title(s)

Bid Bond

Title or Type of Document

- Partner(s)
- Limited
- General

1

Number of Pages

- Attorney-In-Fact
- Trustee(s)
- Guardian/Conservator
- Other:

8/27/18

Date of Document

Signer is representing:
Name Of Person(s) Or Entity(ies)

Signer(s) Other Than Named Above

NOTE: This acknowledgment is to be completed for Contractor/Principal.

SECTION 00410
 BID BOND

Notary Acknowledgment

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA
 COUNTY OF Orange

On August 27, 2018, before me, Melissa Ann Vaccaro, Notary Public, personally appeared Shaunna Rozelle Ostrom, who proved to me on the basis of satisfactory

evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



Signature of Notary Public

WITNESS my hand and official seal.

Melissa Ann Vaccaro
 Melissa Ann Vaccaro

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

CAPACITY CLAIMED BY SIGNER

DESCRIPTION OF ATTACHED DOCUMENT

- Individual
- Corporate Officer

- Partner(s)
 - Limited
 - General

- Attorney-In-Fact
- Trustee(s)
- Guardian/Conservator
- Other:

Signer is representing:
 Name Of Person(s) Or Entity(ies)

Bid Bond
 Title or Type of Document

Three
 Number of Pages

August 27, 2018
 Date of Document

 Signer(s) Other Than Named Above

NOTE: This acknowledgment is to be completed for the Attorney-in-Fact. The Power-of-Attorney to local representatives of the bonding company must also be attached.



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Bond No. CSBA-8639

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8144838 - 969561

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Arturo Ayala, Michael Castaneda, Daniel Huckabay, Dwight Reilly, Shaurna Rozelle Ostrom

all of the city of Orange state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 5th day of July, 2018.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: [Signature]
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 5th day of July, 2018 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: [Signature]
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 27th day of August, 2018.



By: [Signature]
Renee C. Llewellyn, Assistant Secretary

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

**SECTION 00420
DESIGNATION OF SUBCONTRACTORS**

DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act of the Public Contract Code of the State of California, sections 4100 et seq., each bidder shall set forth below: (a) the name and the location of the place of business, (b) the California contractor license number and DIR registration number, and (c) the portion of the work which will be done by each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price. Notwithstanding the foregoing, if the work involves the construction of streets and highways, including bridges, then the Contractor shall list each subcontractor who will perform work or labor or render service to Contractor in or about the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's total Bid Price or \$10,000, whichever is greater. No additional time shall be granted to provide the below requested information.

If no subcontractor is specified, for a portion of the work, or if more than one subcontractor is specified for the same portion of Work, then the Contractor shall be deemed to have agreed that it is fully qualified to perform that Work, and that it shall perform that portion itself.

Work to be done by Subcontractor	Name of Subcontractor	Location of Business	CSLB Contractor License Number	DIR Registration Number
None				
Coating	Pro tect	133 E. De La Guerra St. #187 Santa Barbara CA 93101	811310	1000011193

**SECTION 00420
DESIGNATION OF SUBCONTRACTORS**

Work to be done by Subcontractor	Name of Subcontractor	Location of Business	CSLB Contractor License Number	DIR Registration Number

Name of Bidder DDH Apple Valley Construction, Inc.

Signature 

Name and Title Douglas G. Hamilton, President

Dated 08/28/2018

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

INFORMATION REQUIRED OF BIDDERS

A. INFORMATION ABOUT BIDDER

Failure to complete all information may render your bid non-responsive. ***Indicate not applicable ("N/A") where appropriate.***

NOTE: Where Bidder is a joint venture, pages shall be duplicated and information provided for all parties to the joint venture.

1.0 Name of Bidder: DDH Apple Valley Construction, Inc.

2.0 Type, if Entity: Corporation

3.0 Bidder Address: 9312 Deep Creek Road.
Apple Valley, CA 92308

<u>(760) 247-8684</u>	<u>(760) 247-4810</u>	<u>Samantha.avcc@gmail.com</u>
Facsimile Number	Telephone Number	E-Mail

4.0 How many years has Bidder's organization been in business as a Contractor? 35+ years.

5.0 How many years has Bidder's organization been in business under its present name? 35+ years

5.1 Under what other or former names has Bidder's organization operated? _____
DBA: Apple Valley Construction Co.

6.0 If Bidder's organization is a corporation, answer the following:

6.1 Date of Incorporation: 05/09/1988

6.2 State of Incorporation: California

6.3 President's Name: Douglas G. Hamilton

6.4 Vice-President's Name(s): N/A

6.5 Secretary's Name: N/A

6.6 Treasurer's Name: N/A

7.0 If an individual or a partnership, answer the following:

7.1 Date of Organization: N/A

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

7.2 Name and address of all partners (state whether general or limited partnership):

N/A

8.0 If other than a corporation or partnership, describe organization and name principals:

N/A

9.0 List other states in which Bidder's organization is legally qualified to do business.

N/A

10.0 What type of work does the Bidder normally perform with its own forces?

Underground utilities. Water, sewer, storm drain, grading and septic tank
installation.

11.0 Has Bidder ever failed to complete any work awarded to it? If so, note when, where, and why:

No. N/A.

12.0 Within the last five years, has any officer or partner of Bidder's organization ever been an officer or partner of another organization when it failed to complete a contract? If so, attach a separate sheet of explanation:

No. N/A.

13.0 List Trade References:

Western Waterworks (909)597-7000
5831 Pine Avenue, Chino Hills, CA 91709
Inland Water Works Supply Co. (909) 883-8941
2468 Miramonte Drive, San Bernardino, CA 92405
Desert Truck Supply (760) 244-4244
10178 I Avenue, Hesperia, CA 92345
Robertsons Ready Mix
16952 N D St, Victorville, CA 92394

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

14.0 List Bank References (Bank and Branch Address):

Alta Pacific Bank: 9373 Haven Avenue, Rancho Cucamonga, CA 91730

15.0 Name of Bonding Company and Name and Address of Agent:

The Ohio Casualty Insurance Company (a member of the Liberty Mutual

Group) 9325 Sky Park Court, Ste 200, San Diego, CA 92123

Agent: Shaunna Burchfiel

SECTION 00430
INFORMATION REQUIRED OF BIDDERS

B. LIST OF CURRENT PROJECTS (BACKLOG)

[***Duplicate Page if needed for listing additional current projects.***]

Project	Description of Bidder's Work	Completion Date	Cost of Bidder's Work	Contact Name & Phone
38-04 OFF-SITE Sewer Improvement (MPSD Line A-1 & Lateral A-8)	Underground wet utilities-OFF-Site Sewer Improvements and OFF-Site storm drain Improvements	Pending	\$973,119.00	Navon Simami 909.028.6238

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

C. LIST OF COMPLETED PROJECTS - LAST THREE YEARS

Bidders may duplicate page if needed for listing additional completed projects.

Please include only projects that are similar in size, scope and complexity to the Work to demonstrate Bidder's ability to perform the required Work.

Work Client	Description of Bidder's Work	Period of Performance	Cost of Bidder's Work	Contact Name & Phone
Please see attached experience data sheet				

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

D. EXPERIENCE AND TECHNICAL QUALIFICATIONS QUESTIONNAIRE

Personnel:

The Bidder shall identify the key personnel to be assigned to this project in a management, construction supervision or engineering capacity.

1. List each person's job title, name and percent of time to be allocated to this project:
 Douglas Hamilton, President. Overall oversight as required.
 Fritz Tosta, Superintendent, 100%
 Jeremy Hamilton, Operations Manager. 50%

2. Summarize each person's specialized education:
 All parties; Years of practical experience with this company, ranging from laborer, skilled equipment operator, to foreman. Additional operations and overall management both Douglas and Jeremy Hamilton.

3. List each person's years of construction experience relevant to the project:
 Douglas Hamilton: 30 plus years of practical experience in all aspects of pipeline construction.
 Fritz Tosta: 20 plus years of cumulative experience as Foreman and Superintendent.
 Jeremy Hamilton: 18 plus years of construction experience ranging from laborer, operator and foreman.

4. Summarize such experience:
 All parties have extensive Public Work Project experience (with this company) on water, sewer and storm drain mainline projects.

Bidder agrees that personnel named in this Bid will remain on this project in their designated capacities until completion of all relevant Work, unless replaced by personnel of equivalent experience and qualifications approved in advance by VVWRA.

**SECTION 00430
INFORMATION REQUIRED OF BIDDERS**

Additional Bidder's Statements:

If the Bidder feels that there is additional information which has not been included in the questionnaire above, and which would contribute to the qualification review, it may add that information in a statement here or on an attached sheet, appropriately marked: N/A.

E. VERIFICATION AND EXECUTION

These Bid Forms shall be executed only by a duly authorized official of the Bidder:

I declare under penalty of perjury under the laws of the State of California that the foregoing information is true and correct:

Name of Bidder DDH Apple Valley Construction, Inc.

Signature 

Name Douglas G. Hamilton

Title President

Dated 08/28/2018

**SECTION 00440
NON-COLLUSION DECLARATION**

NON-COLLUSION DECLARATION

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares:

I am the President of DDH Apple Valley Construction, Inc., the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on August 28th, 2018 [date], at Apple Valley [city], California [state].

(Signature)

Douglas Gregory Hamilton

(Print Name)

President

(Print Title)

08/28/2018

(Date)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

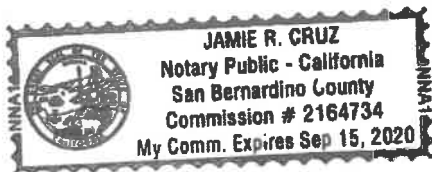
State of California

County of San Bernardino }

On August 28, 2018 before me, Jamie R. Cruz, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Douglas Gregory Hamilton
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~they executed the same in his/~~her~~their authorized capacity(ies), and that by his/~~her~~his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal and/or Stamp Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Jamie R. Cruz
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: non-collision Declaration

Document Date: 8/28/18 Number of Pages: 1

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Douglas Gregory Hamilton Signer's Name: _____

Corporate Officer – Title(s): President Corporate Officer – Title(s): _____

Partner – Limited General Partner – Limited General

Individual Attorney in Fact Individual Attorney in Fact

Trustee Guardian of Conservator Trustee Guardian of Conservator

Other: _____ Other: _____

Signer is Representing: _____ Signer is Representing: _____

SECTION 00450
IRAN CONTRACTING CERTIFICATION
IRAN CONTRACTING CERTIFICATION
(Public Contract Code section 2200 et seq.)

As required by California Public Contract Code section 2204, the Contractor certifies subject to penalty for perjury that the option checked below relating to the Contractor's status in regard to the Iran Contracting Act of 2010 (Public Contract Code section 2200 et seq.) is true and correct:

- The Contractor is not:
- (i) identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203; or
 - (ii) a financial institution that extends, for 45 days or more, credit in the amount of \$20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.

Agency has exempted the Contractor from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, Agency will be unable to obtain the goods and/or services to be provided pursuant to the Contract.

The amount of the Contract payable to the Contractor for the Work does not exceed \$1,000,000.

Signed _____

Titled Douglas G. Hamilton, President

Firm DDH Apple Valley Construction, Inc.

Date 08/28/2018

Note: In accordance with Public Contract Code section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of \$250,000 or twice the Contract Price, termination of the Contract and/or ineligibility to bid on contracts for three years.

**SECTION 00460
PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION**

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

If this bid is due on or after March 1, 2015, then pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See <http://www.dir.ca.gov/Public-Works/PublicWorks.html> for additional information.

No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Bidder hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations¹.

Name of Bidder: DDH Apple Valley Construction, Inc.

DIR Registration Number: 1000003468

Small Project Exemption: Yes or X No

Bidder further acknowledges:

1. Bidder shall maintain a current DIR registration for the duration of the project.
2. Bidder shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Name of Bidder DDH Apple Valley Construction, Inc.

Signature 

Name and Title Douglas G. Hamilton, President

Dated 08/28/2018

¹ If the Project is exempt from the contractor registration requirements pursuant to the small project exemption under Labor Code sections 1725.5 and 1771.1, please mark "Yes" in response to "Small Project Exemption."



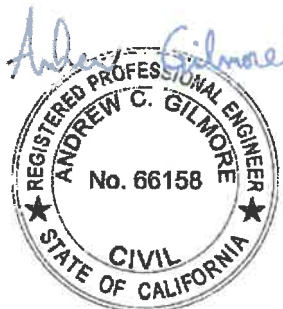
**VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
VICTORVILLE, CALIFORNIA**

DESERT KNOLLS WASH INTERCEPTOR

**ADDENDUM NO. 1
TO THE
CONTRACT DOCUMENTS**

AUGUST 23, 2018

Digitally signed by Andrew C. Gilmore
Date: 2018.08.23 16:38:16-07'00'



Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided in Section 00400 Bid Form, page 13.

This Addendum shall become part of the Contract and provisions of the Contract apply.

SPECIFICATIONS

The following sections are modified as indicated below.

1. SECTION 00400 - BID FORM:
 - a. REPLACE section in its entirety with the attached section.
2. SPECIAL CONDITIONS:
 - a. Add the following:

"ARTICLE 26. INSPECTOR'S FIELD OFFICE

For the purposes of General Conditions Article 26, delete requirement for an Inspector's field office."
3. SECTION 01110 - SUMMARY OF WORK:
 - a. In Article 1.01 SUMMARY, Paragraph B, add the following subparagraphs:
 - "1. Excavated material will be placed in piles no higher than 5 feet for sifting/screening for tribal/cultural artifacts, by the 2 monitors. This work will slow production down in the anticipated impact area.
 2. Artifacts will be dealt with as the monitors direct. Typically, they would be catalogued and reburied in approximately the same location, in a separate pit adjacent to the trench, with approximately 3 feet of cover.
 3. If a significant find is found, e.g., bones or large artifacts, all work will stop. This work stoppage would be covered by a change order."
4. SECTION 01220 - MEASUREMENT AND PAYMENT:
 - a. REPLACE section in its entirety with the attached section.
5. SECTION 01329 - SAFETY PLAN:
 - a. In Article 1.03 CONSTRUCTION SAFETY PLAN, replace Paragraph A.1. with the following:
 - "1. Identification of the Company Safety Representative who will prepare the plan, and initiates, maintains, and supervises safety programs, and procedures."

DRAWINGS

The following drawings are modified as indicated below.

1. COVER SHEET:
 - a. REPLACE with the attached cover sheet.
2. In DRAWING CD-02 Pipe Installation and Pavement Replacement Detail:
 - a. Replace bedding material with 3/4 inch crushed rock.
 - b. Trench width shall be Pipe OD plus 24-inches.
3. DRAWING C-03:
 - a. REPLACE drawing in its entirety with the attached drawing

CERTIFICATE OF AMENDMENT
OF
ARTICLES OF INCORPORATION
OF
DDH APPLE VALLEY CONSTRUCTION, INC.,
A California Corporation

Douglas Hamilton and Cheryl Hamilton hereby certify that:

1. They are the President and Secretary, respectively, of DDH Apple Valley Construction, Inc., a California Corporation.

2. Article V is added to the Articles of Incorporation and shall read as follows:

V. The liability of the Directors of the Corporation for monetary damages shall be eliminated to the fullest extent permissible under California Law.

3. The foregoing amendment of the Articles of Incorporation has been duly approved by the Board of Directors.

4. The foregoing amendment of Articles of Incorporation has been duly approved by the required vote of shareholders in accordance with Section 902 of the Corporations Code. The total number of outstanding shares of the corporation is one hundred. The number of shares voting in favor of the amendment equaled or exceeded the vote required. The percentage vote required was more than 50%.

We further declare under penalty of perjury under the laws of the State of California that the matters set forth in this certificate are true and correct of our own knowledge.

Executed on May 9, 1988, at Apple Valley, California.



Douglas Hamilton



Cheryl Hamilton

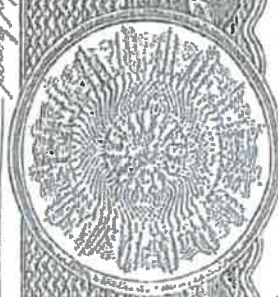
Amend. DDH

INCORPORATED UNDER THE LAWS OF THE STATE OF CALIFORNIA
NOVEMBER 8, 1938



This Certifies that DOUGLAS G. HAMILTON is the record holder
of ONE HUNDRED (100) Shares of the Capital Stock of
DDH APPLE VALLEY CONSTRUCTION, INC.
transferable only on the books of the Corporation by the holder hereof, in person or
by Attorney-in-fact, surrender of this Certificate properly endorsed, or assigned.

In Witness Whereof the said Corporation has caused this Certificate to be signed
by its duly authorized officers and its Corporate Seal to be hereunto affixed
this sixth day of October 1957



THE CORPORATE PRESS, INC. LOS ANGELES, CALIF.



CONTRACTORS
STATE LICENSE BOARD
ACTIVE LICENSE



License Number **680052**

Entity **CORP**

Business Name **DDH APPLE VALLEY
CONSTRUCTION INC**

Classification(s) **A B C42**



Expiration Date **11/30/2019**

www.cslb.ca.gov

5/14/2018

Registration Payment Success

Registration Complete! Thank you for your payment.

Your PWCR registration and payment were submitted on 05/14/2018 at 08:05 AM. If you paid by credit card, payment confirmation and registration processing will take up to 24 hours. If you paid by ACH/EFT, payment confirmation and registration processing will take up to 10 calendar days.

Registration for Fiscal Year: 2019

PWC Registration Number: 1000003468

Contractor Legal Name: DDH APPLE VALLEY CONSTRUCTION, INC.

Contractor Legal Entity: Corporation

Payment Amount: \$400.00

Payment Method: VISA

Payment Confirmation Number: KA8VLF0RYVPC1

Legal Name	Registration Number	County	City	License Type/Number(s)	Current Status	Registration Date	Expiration Date
DDH APPLE VALLEY CONSTRUCTION, INC.	1000003468	SAN BERNARDINO	APPLE VALLEY	CSLB:680052	Active	05/14/2018	06/30/2019

State of California
 Department of Industrial Relations

▶
▶
▶
▶
▶
▶
▶

Public Works | Public Works Contractor (PWC) Registration Search

Public Works Contractor (PWC) Registration Search

Enter at least one search criteria to display registered public works contractor(s) matching your selections.

Note: Search results will display all of the public works contractor registrations, both current and expired.

Make sure the proper registration fiscal year is selected when performing a search.

Registration Fiscal Year:

PWC Registration Number:

Contractor Legal Name:

License Number: [Contractor License Lookup](#)

County:

This is a listing of PWC registrations pursuant to Division 2, Part 7, Chapter 1 (commencing with section 1720 of the California Labor Code.)

Export as: [Excel](#) | [PDF](#)

Search Results

One registered contractor found. 1

Details	Legal Name	Registration Number	County	City	License Type/Number(s)	Current Status	Registration Date	Expiration Date
View	PRO TECH WATER, INC.	1000011193	SANTA BARBARA	SANTA BARBARA	CSLB:811310	Active	06/09/2018	06/30/2019

v2.20171120



**CONTRACTORS
STATE LICENSE BOARD
ACTIVE LICENSE**



License Number **811310** Entity **CORP**

Business Name **PRO TECH WATER INC DBA
PROTECH COATINGS**

Classification(s) **C34**

Expiration Date **08/31/2020** www.cslb.ca.gov





VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager *LO*

TO: Board of Commissioners

SUBJECT: Recommendation to Perform an Organizational Performance Assessment

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of DeLoach and Associates to perform an Organizational Performance Assessment on VVWRA in an amount not to exceed \$45,650.00, forty-five thousand six hundred and fifty dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, Robert Coromina, Director of Administration and Chieko Keagy, Controller.

BACKGROUND INFORMATION

VVWRA staff and Commissioners have undergone tremendous change and stress resulting from a continued dispute regarding the terms of the JPA and Service Agreement, significant financial issues, two reorganizations, and a difficult audit report from the OIG regarding the Upper Narrows Emergency. As a result, VVWRA staff is operating and maintaining over 200M in new infrastructure, while maintaining existing infrastructure with the same amount of staff it had in the 1990's. The Spruce Report addressed the reorganizations, but it did not address the organizational performance of VVWRA leadership and staff. Although it was shown that productivity increased it is not known how these issues are impacting staff, its leadership and thus the future of the organization.

On 28 August 2018 the Internal Administrative Committee met to discuss the proposal by Mr. DeLoach to perform the Organizational Performance Assessment. Present at the meeting were Commissioners Bird and Rigney. The issues facing VVWRA were discussed at length and it was the consensus of the Committee to place the item before the full VVWRA Board for consideration.

To ensure that VVWRA leadership has the best information possible to make decisions staff is suggesting that an Organizational Performance Assessment be performed. In the fall of 2017 staff spoke to these stressors with the Commissioners and Mr. DeLoach gave the Board a presentation in February of 2018. Staff is recommending that the Board and the Administrative Committee work with Mr. DeLoach to evaluate VVWRA and to determine how VVWRA may best serve the Member Agencies and the residents and businesses of the High Desert. Attached are the recommended professional services and scope of work provided by Mr. DeLoach.

FINANCIAL IMPACT

This is a budgeted operations expenditure in the amount of \$45,650.00, forty-five thousand six hundred and fifty dollars to account 01-03-515-8140.

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-03-515-8140
Transfer Needed due to Insufficient Budget	Y [] N [X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

RELATED IMPACTS

Improved employee morale and engagement, less employee turnover,



DELOACH
& ASSOCIATES, INC

PROPOSAL

TO

**CONDUCT AN ORGANIZATIONAL PERFORMANCE
ASSESSMENT FOR THE VICTOR VALLEY WASTEWATER
RECLAMATION AUTHORITY**



March 2018



DELOACH
& ASSOCIATES, INC

March 27, 2018

Mr. Logan Olds
 General Manager
 Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA. 92394

Subject: Proposal and Scope of Work to Conduct an Organizational Performance Assessment for the Victor Valley Wastewater Reclamation Authority

Dear Mr. Olds;

DELOACH & Associates Inc. is pleased to submit our proposal to conduct an Organizational Performance Assessment (OPA) of the Victor Valley Wastewater Reclamation Authority's current operations. The Victor Valley Wastewater Reclamation Authority (Authority) is undertaking this effort is to better understand its present operations including the external and internal issues impacting current and future organizational performance. Additionally, the OPA will be used to conduct a comparative analysis of its current performance against industry standards and best practices to effectively position the Authority to address future organizational needs as it relates to operational efficiency and resources.

Introduction

The Victor Valley Wastewater Authority is to be commended for undertaking the difficult and progressive step of seeking outside review and analysis of its activities from a third party. The Organizational Performance Assessment process and associated initiatives are a testament to the Authority's substantial investment, proactive approach, and commitment to maintaining and building improved programs and services for the Authority.

To ensure that the goals of the OPA are met, it will be critical at the onset of this project that we focus on assessing the organizational culture of the Authority to build a framework for an effective strategy that enhances communications and build consensus among member agencies and the Authority.

Our extensive experience assessing and maximizing organizational procedures and potential has guided our team focus to this project with a proven method for identifying and evaluating organizational performance and stakeholder interests. Our distinctive goals for the Authority's OPA process are rooted in our understanding of the many challenges the wastewater industry faces and our demonstrated expertise in developing long-term strategies that build buy-in and support among varied stakeholder groups.

Our project goals focus on the following:



1. **Evaluate** the Authority's programs and services within the current organizational framework and provide recommendations for enhanced efficiency and member engagement.
2. **Assess** the Authorities communications and public relations landscape and develop realistic, implementable solutions to known and identifiable challenges.
3. **Identify** gaps in the Authority's customer service levels and member agencies' expectations to build strategies for enhancing value of Authority activities.

Background

The Authority provides wastewater collection and treatment services to an area of approximately 270 square miles located in the high-desert region of San Bernardino County. The Authority was established as a Joint Powers Authority to serve four member agencies including San Bernardino County Service Area 2 (Oro Grande) and 64, Spring Valley Lake, the City's of Apple Valley, Hesperia and Victorville. Elected/appointed leaders from the four member agencies who collectively make up the Authority Board of Commissioners govern the Authority.

Treated wastewater from Authority treatment facilities is returned to the Mojave River. The water supply in the high-desert region is primarily groundwater and this resource was previously in an overdraft condition. The wholesale water agency for this region is the Mojave Water Agency who has an entitlement to the State Water Project system. The Mojave Water Agency pursuant to a 1996 stipulated judgment is required to provide "make-up water" in order to achieve hydrologic balance in the various groundwater sub-basins. Water reclamation provided by the Authority will reduce the burden on groundwater and State Water Project supplies by offsetting imported non-potable water demands.

Proposed Scope of Work

DELOACH & Associates Inc. (Consultant) shall conduct an assessment of the current organizational structure to include the following tasks.

Task 1 – Conduct project orientation with Authority representatives. Conduct interviews with Board Commissioners, employees and stakeholders to identify issues, goals and expectations. Evaluate existing organizational structure and performance management.

1. Conduct project orientation meeting with Authority representatives. Assess the organization's mission, vision and culture to establish a framework for the Authority's planning and operational objectives.
2. Review current organizational structure, reporting relationships, span of control and degree of cross-functionality and horizontal integration.
3. Review relevant employee job descriptions and relationships between position classifications.
4. Evaluate the Authority's organizational structure to identify areas for improved operational efficiencies within the Authority's current scope and scale of service.
5. Assess existing internal and external communications procedures to gauge alignment with member agencies' expectations and needs
6. Conduct interviews with members of the Board of Commissioners, General Manager, designated employees, Authority legal counsel, agency alternate representatives and key staff (City or Town Manager), and stakeholder group designated by Authority.
7. Identify organizational Best Practices that have achieved improved efficiency within the current operations and administration of the Authority.
8. Identify opportunities to improve the organization's value to member agencies.
9. Address gaps in service expectations, programs, staffing and service levels identified in the assessment phase.

Task 2 - Conduct an assessment of technology utilization within the current scope of the Authority's operations and administration to understand how technology is utilized to improve operational efficiency.

1. Identify opportunities to maximize staffing and operational efficiency through technology
 - a. Geographic Information Systems (GIS)
 - b. SCADA monitoring and control
 - c. Computerized Maintenance Management System (CMMS) Automated or electronic work order systems
 - d. Process automation ("Hands free operations.")
 - e. Intra-net communications

Task 3 - Conduct an analysis of the current allocation of labor and equipment by task and quantify existing service levels across all functional areas. Develop as appropriate Key Performance Indicators (KPI's) for specific operational functions specific to Wastewater Operations.

1. Financial Management
 - a. Sewer service rate
 - b. Debt ratio
 - c. Capital budget per million gallons processed
 - d. Operations budget per million gallons processed
2. System Operation, reliability and regulatory
 - a. Millions of gallons per day (mgd) of wastewater processed per employee
 - b. Sewer overflow rate (annual)
 - c. Population served

- d. Total miles of gravity pipeline
- e. Total miles of pressurized pipeline (force mains)
- f. O & M cost per million gallons processed
- g. Employee time lost due to workplace injury (hours/year)

Task 4 - Conduct comparative analysis (BenchmarkingTM) of agency performance using data developed in Task 3 (1 & 2).

- 1. Benchmark survey to include agencies identified in Board of Commissioners approved Labor Market Agencies.
- 2. Develop information matrix for each agency with Authority established as the benchmark.

Task 5 - Conduct a comprehensive review of Authority operating and legal documents, reports, agreements and financial information to gain an understanding of the administrative and operating parameters of the Authority.

- 1. Documents review
 - a. Annual operating budget
 - b. Capital Improvement Plan and Master Plan documents
 - c. Most recent audited financial statements
 - d. Authority Joint Powers Agreement
 - e. Authority Service Agreement and amendments
 - f. City of Victorville Recycled Water Agreement
 - g. California Department of Fish & Game MOU
 - h. Ordinances 001 – 006

Task 6 - Conduct an evaluation of organizational trends with the current plan of organization for the Authority.

- 1. Trend analysis components
 - a. Organizational structure and accountability
 - b. Communication and coordination
 - c. Resource utilization
 - d. Human capital development
 - e. Service quality and responsiveness

Task 7 – Develop a Draft OPA report including completed analysis, findings and recommendations for review by Authority representatives.

- 1. Provide Draft OPA report in electronic format to Authority General Manager and Authority legal counsel.
 - a. Review OPA, incorporate edits and conduct additional research and analysis as necessary.

Task 8 – Prepare final Organizational Performance Assessment for Authority.

1. Provide final OPA in electronic format to Authority General Manager and Authority legal counsel.
 - a. Submit OPA in electronic format and provide up to 10 printed and bound copies.
 - b. Develop presentation of final OPA in power point format and present to the Board of Commissioners.

Fee Proposal

\$ 45,650.00

1. Fee inclusive of travel related expense, standard reproduction expense to meet task requirements as indicated in Scope of Work. Additional expenses will be billed at cost with prior approval of Authority representative.
2. Additional meetings with the Board of Commissioners or other stakeholder groups, as well as additional analysis and work beyond this Scope of Work will be billed as follows:
 - a. Principle Rate: \$275.00/hour
 - b. Associate Rate: \$175.00/hour
 - c. Office Assistant: \$60.00/hour

Consultant Team

DELOACH & Associates, Inc.

Robert A. DeLoach

Project Manager/Principle

Mike Miller

Survey Analytics/Associate

Beth Barry

Administrative Manager


CV Strategies

Tara Bravo

Communications/graphics



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Award of Wastewater Treatment Plant Capacity Study to Carollo Engineering

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Carollo Engineering to perform a capacity study on the wastewater treatment plant (WWTP) located at 20111 Shay Road, Victorville CA 92394 in an amount not to exceed \$92,475.00, ninety-two thousand four hundred and seventy-five dollars.

REVIEW BY OTHERS

This project was reviewed by the Engineering Committee; Tim Millington, County Special Districts, Greg Snyder Town of Apple Valley, David Burkett, City of Hesperia, and Brian Gengler, City of Victorville. Also, this recommendation was reviewed by VWRA; Piero Dallarda, Legal Counsel, Chieko Keagy, Controller, Eugene Davis, Operations and Maintenance Manager, and Alton Anderson Construction Manager.

BACKGROUND INFORMATION

The revised JPA agreement includes language which would allocate capacity to each of the Member Entities. However due to many modifications to address nitrogen and recycled water production at the WWTP the overall hydraulic and organic capacity is unknown. This capacity study will address those questions and be used to develop the capacity allocation addendum to the revised JPA.

Attached is the original scope of work. Following a discussion with the Board related to the JPA staff deleted the interceptor capacity work from this request for proposals (RFP) and issued a separate RFP for that project. The proposals were reviewed by the Engineering Committee and it was the consensus of the Committee to recommend Carollo Engineering for the Boards consideration.

FINANCIAL IMPACT

This is a budgeted expenditure in the amount of \$92,475.00 to account 01-03-535-8105. VWRA budgeted \$100,000.00 for this project in the FY 18/19 budget.

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-03-535-8105
Transfer Needed due to Insufficient Budget	Y[] N[X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	Fund 01, 8105
Budget Remaining after the Recommendation	\$7,525.00
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	
Transfer Needed due to Insufficient Budget	Y[] N[]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y[] N[]
Contract after Change	\$

RELATED IMPACTS

Knowledge of how much capacity the plant has gained as a result of improving operations and investing in R&R projects in the aeration basins.

Capacity Study
Scope of Services

The goal of this project is to determine the existing capacity of the RRF and the interceptor system. Currently the facility is operating under a permitted hydraulic capacity of 18 mgd. When nitrogen limits were placed in the Authority NPDES permit in 2008, staff spent the next decade building and improving the operation of the biological nutrient reduction (BNR) system. The Authority now wishes to learn what the existing capacity of the facility is by incorporating both the organic and hydraulic capacities in to a single value.

Deleted In addition the Authority would like to utilize the information developed by RBF Engineering in 2013 to determine the percentage of interceptor system utilized by each of the Member Entities during periods of average dry weather and peak wet weather flows. This information should be updated to incorporate the ADS flow monitoring data that has been in place in the Authority's interceptors since 2014.

The Authority is requesting a firm, not-to-exceed fee for each bulleted item, for performing the project elements delineated below:

- Perform an analysis to determine the RRF overall (hydraulic plus organic) capacity for average dry weather flow (ADWF) and peak wet weather flow (PWWF).
 - Identify existing hydraulic deficiencies, which if corrected, would lead to increased hydraulic capacity.
 - Aggregate Treatment Capacity means the total treatment capacity of the Regional Wastewater Treatment Facilities, as determined from time to time, which capacity shall be the lower of (i) the amount of wastewater which may be treated at the Regional Wastewater Treatment Facilities in accordance with then current federal and state permits and legal requirements; or (ii) the actual treatment capacity of the Regional Wastewater Treatment Facilities at full operational capacity.
- Deleted* • Perform an analysis to determine the interceptor system capacity for ADWF and PWWF utilizing the information developed by RBF Engineering for the Authority in 2013 and the ADS flow monitoring data collected since 2014. (Available upon request)
 - Aggregate Delivery Capacity means the total delivery capacity of the Regional Collection System to collect wastewater effluent at the Delivery Points and deliver such wastewater effluent to the Regional Wastewater Treatment Facilities.
 - The information will be prepared in a manner such that it may be incorporated in to the Authority's 2019 update to its Sanitary Sewer Management Plan (SSMP) Section (viii) System Evaluation and Capacity Assurance Plan. The Authority intends to release a separate RFP to update the SSMP in 2019.
- Prepare a nitrification and de-nitrification model of the RRF.
 - Review the Authority Nitrogen Removal Capacity; Draft Technical Memorandum No. 1 WWTP Secondary Treatment Capacity Evaluation 2011. (Available upon request)

- Provide recommendations to increase the RRF overall nitrogen removal capacity, without constructing new primary clarifiers, aeration basins or secondary clarifiers.
- Review the Water Environment & Reuse Foundation Final Report on: WaterWatts: A Modern Look at Wastewater Power-Metering Data 2017 (Available upon request)
 - Review the Authority Power Meter Report 2017 (Available upon request)
 - Provide recommendations for suitable locations and meter specifications to install sub-metering for electrical consumption to quantify water quality treatment unit performance.
- Provide recommendations for side stream treatment of ammonia laden water from solids dewatering, including probable capital costs and equipment.

The Capacity Study should be prepared in a manner that assists the O&M team to make informed decisions regarding increased nitrogen removal capacity, cost efficient treatment and the organic/hydraulic capacity of the RRF. The Report will also be prepared to facilitate the discussion of where to invest to improve the organic and hydraulic capacity of the RRF and its interceptor system.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

Capacity Study: Main Plant and Interceptor System



PROPOSAL • JULY 2018





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- h. Insurance
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- j. Other Information
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- l. Appendices

C Identification of the Proposer

WATER—OUR FOCUS, OUR BUSINESS, OUR PASSION.

Carollo offers comprehensive engineering services for the complex treatment and infrastructure planning challenges facing water and wastewater utilities today. All of our work is in water, resulting in a level of understanding of key supply, treatment, and conveyance issues that few can match. We are solely dedicated to water-related engineering—it's all we do.

CAROLLO ENGINEERS, INC.

Founded in 1933, Carollo Engineers is an environmental engineering firm specializing in the planning, permitting, design, and construction management of water and wastewater systems and facilities. We are a full-service company with the experience and qualified professionals to successfully manage projects of any size, and have had the privilege of completing major capital projects for some of the largest water treatment facilities in the U.S.

As a result, Carollo has successfully completed more than 25,000 projects for public-sector clients. We rank among *Engineering News-Record's (ENR)* Top 500 Design Firms, and *ENR's* annual Source Book also ranks Carollo among the top 15 firms for water and wastewater design. Unlike our competitors, we provide only water and wastewater engineering design services. We recruit nationwide and hire technical staff with extensive background and training specific to this field. For that reason, the quality and professional standing of our core group of professionals exceeds that of the largest engineering firms in the country.

Organization and Structure

Carollo was established in Phoenix, Arizona in 1933 as Headman, Ferguson, and Carollo and was renamed John A. Carollo, Consulting Engineers in 1957. The partnership was reorganized in 1962 under the name of John Carollo Engineers, and was renamed Carollo Engineers in 1996. The firm was incorporated in 1998 under the name of Carollo Engineers, and in 2010 converted from an Arizona professional corporation to a Delaware corporation under the name of Carollo Engineers, Inc.

LEGAL NAME AND ADDRESS

Carollo Engineers, Inc. (Headquarters)
2700 Ygnacio Valley Road, Suite 300
Walnut Creek, CA 94598
T. 925.932.1710 | F. 925.930.0208

LEGAL FORM OF COMPANY

Professional S-Corporation

PRIMARY OFFICE RESPONSIBLE FOR PROVIDING SERVICES

Carollo Engineers, Inc.
3150 Bristol Street, Suite 500
Costa Mesa, CA 92626

CALIFORNIA BUSINESS LICENSE NUMBER

No. C3295365

We are a privately held corporation whose shareholders are all full-time employees of the firm. This select group of shareholders form the Board of Directors and govern the company. Our corporate organization is comprised of technical practice, marketing, client services, internal operations, and general counsel groups.



Staffing Resources

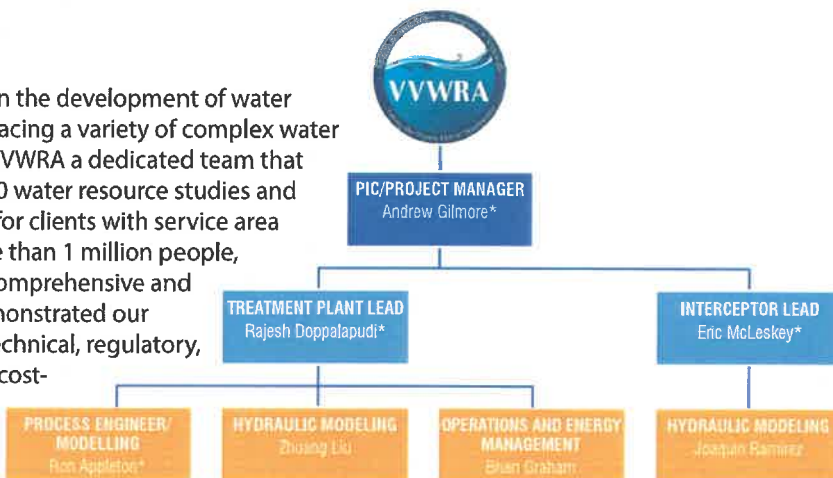
Our team is supported by an organization with deep resources in all aspects of the water industry that allows us to quickly mobilize industry experts for specialty topics that may arise during the project, ranging from water treatment technologies and groundwater recharge to financial experts.

WHO WE ARE

For more than 85 years, Carollo has specialized exclusively in the planning, design, and construction management of municipal water, wastewater, and reclaimed water facilities. With 43 offices throughout the US, Carollo maintains a staff of more than 1,000 employees with more than 450 registered engineers—all focused on water/wastewater work.

Water Planning Experts

Carollo has established itself as a leader in the development of water planning studies for cities and agencies facing a variety of complex water management challenges. Carollo offers VVWRA a dedicated team that collectively has worked on more than 100 water resource studies and hydraulic models. This team has worked for clients with service area populations from as few as 5,000 to more than 1 million people, ranging from small planning studies to comprehensive and even regional master plans. We have demonstrated our ability to successfully address complex technical, regulatory, and institutional issues to produce clear, cost-effective, and practical recommendations with a wide variety of stakeholders. This focused experience allows us to deliver a high quality product in the most effective and efficient manner.



* Denotes Key Personnel principally responsible for working with the Authority

Our Team is Ready to Hit the Ground Running!

Our team has worked together on many similar projects in the past. This translates into smooth project execution, building on each team member's strengths, and a collaborative team spirit! We look forward to working with VVWRA staff and stakeholders to deliver a nitrogen and capacity study that you can trust for future decision making for years to come.



PIC/Project Manager
Andrew Gilmore, PE

Andrew brings valuable insight to infrastructure planning, growth, and resource evaluations gathered from over 20 years of consulting experience in water system process and design, wastewater process and design, and permitting.

Andrew will have overall responsibility over your project, and will be your primary point of contact.

- Registered California Civil Engineer
- Planned and designed 10+ West Coast treatment plants
- Familiar with VVWRA as project manager for the Subregional WRPs for the past 10 years

Relevant experience includes:

- Technical lead for the Hi-Desert Water District, Yucca Valley, California - Wastewater Reclamation Owner's Advisor project.
- Project manager for the City of Barstow, California EDA/EPA Grant Wastewater Treatment Plant Improvements project that involved a rapid assessment of existing conditions at the wastewater treatment plant.
- Project manager for the City of Chandler, Arizona Ocotillo Water Reclamation Facility Process Facility Assessment.



Treatment Plant Lead Rajesh Doppalapudi, PE

- Registered California Civil Engineer
- Location: Orange County, CA

Rajesh has more than 16 years of project management and process engineering experience on numerous wastewater treatment, solids handling, and disposal projects. Rajesh served as process engineer for similar work at Eastern Municipal Water District, including the Perris Valley RWWF, the Moreno Valley/ Temecula Valley RWWF WAS Thickening Expansion, the Temecula Valley RWWF Effluent Storage Expansion, and the Temecula Valley RWWF 18 mgd Upgrades projects.

Relevant experience includes:

- Performed capacity analysis for the ongoing Master Plan Update for the Regional Water Quality Control Plant and Collection System for the City of Riverside, California.
- Project manager for the SBWRP Primary Influent Flow Equalization for San Bernardino Municipal Water Department, California.
- Project Manager for the Truckee Meadows WRF Energy Conservation Measures for City of Reno/Sparks, Nevada.



Interceptor Lead Eric McLeskey, PE

- Registered Arizona Civil Engineer
- Location: Phoenix, AZ

Eric brings 13 years of experience in water and wastewater master planning and hydraulic modeling studies for both small and large utilities. His collection system modeling skills include flow monitoring study development, flow forecasting, hydraulic modeling and calibration, infrastructure capacity evaluations, cost estimating and CIP development. He has completed modeling studies for large interceptors systems owned by multiple agencies that contribute flows. He has developed design storms to evaluate dry and wet weather capacity improvements needed to meet system performance requirements. He has also worked with owners to establish appropriate wastewater collection system performance criteria for their systems.

Relevant experience includes:

- Senior Hydraulic Modeling Engineer for the PAR 1232 Sand Creek/Second Creek Basins Regional Master Plan (2017) to determine infrastructure requirements for growth scenarios provided by five member agencies that contribute to the system.
- Lead Hydraulic Modeling Engineer for the City of Scottsdale Arizona Water Reuse Master Plan (2012). Developed multiple design storms to evaluate collection system capacity for dry and wet weather conditions and identify infrastructure improvements.
- Hydraulic Modeling Engineer for the Subregional Operating Group (SROG), Arizona - Regional Capacity Management Facilities Project (2007). Conducted wastewater and storm water modeling tasks on behalf of the City of Mesa.



Process Engineer/Modeling Ron Appleton, PE

- Registered California Civil Engineer
- Location: Walnut Creek, CA

Ron brings has 35 years of civil engineering expertise emphasizing biological, physicochemical, and aqueous chemistry aspects of municipal and industrial wastewater treatment, recycled water treatment, and solids handling. He specializes in process modeling, process evaluation and design, hydraulic analysis and design, and process mechanical design. He has developed and taught a class, CEE271D – Introduction to Wastewater Treatment Process Modeling, in the graduate Environmental Engineering and Science program at Stanford University for the past two years. Ron is an expert in “whole plant” simulation using BioWin software.

Relevant experience includes:

- Technical advisor for the City of Sparks Sidestream Treatment Evaluation Project for the Truckee Meadows Water Reclamation Facility in Reno, NV. Performed independent review of influent data analysis, design criteria development, and nutrient removal sidestream treatment alternatives.
- Process engineer for the City of SSF, CA, Water Quality Control Plant Improvements Project including the evaluation of flow and loads and preparation of a process model to evaluate the secondary treatment process.
- Process engineer for the City of Sparks Alkalinity Evaluation Project for the Truckee Meadows Water Reclamation Facility in Reno, NV.



Fiscal Stability

Carollo's financial stability is demonstrated in our 85 years of successfully providing professional engineering services.

FINANCIAL RESPONSIBILITY

Carollo is a mid-sized firm with annual revenues exceeding \$250 million—large enough to be flexible and responsive to your needs. We have maintained a high level of fiscal responsibility throughout the years.

Our organization is structured to maximize our ability to provide excellent client service in a timely and efficient manner and in accordance with your project goals and objectives.

In the subsequent pages, we have provided the following documents as required in the RFP:

- Credit Rating Report



Experience and Technical Competence

JUST ASK OUR CLIENTS. Carollo is known for maintaining long-term relationships with our clients. Our experience has taught us that open communication, collaboration, and coordination build trust, minimize conflict, and eliminates surprises.

MEETING YOUR PROJECT GOALS

At Carollo, water is all we do. This singular focus provides the benefit to VVWRA of knowing that we employ the best water talent and our focus will not be diverted to other sectors such as roadways. We are aligned with the goals of VVWRA, and can promise you:

Best Local and Regional Water Talent Available

For your project, we didn't just select folks based on the nearest office, rather we've tapped into resources spanning across our San Diego, Costa Mesa, Walnut Creek, and Phoenix offices in order to provide you the best possible team the industry can offer to meet your needs. Several of them have been with Carollo for more than a decade, or have spent all or most of their careers with Carollo. This low turnover of our top talent means that we retain institutional knowledge that provides the most valuable input on any issue or challenge that may arise for our clients.



In 2016, Carollo Engineers was selected as ENR's "California Design Firm of the Year."

We routinely leverage staff resources to draw upon our deep bench of industry leaders with specific national expertise, to increase overall client satisfaction and address the services specified in your RFP. We simply won't rest until the best wastewater solutions have been developed and delivered.

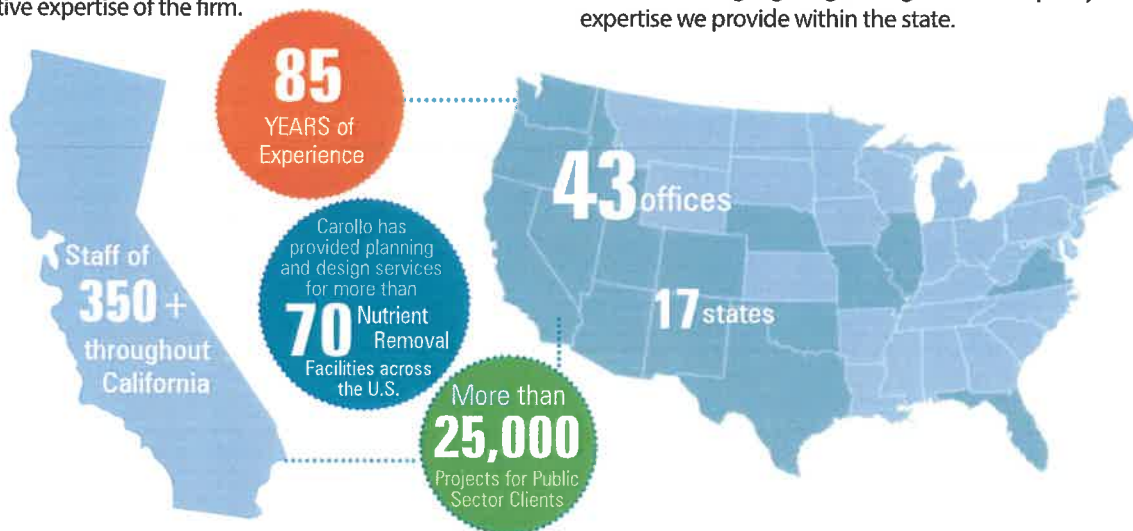
Client Service Second to None

We cannot afford to let you down. Water related projects represent our sole business and your satisfaction determines our future. Carollo walks the extra mile to make certain that we fully understand your people, preferences, and procedures so that you remain happy and confident in our

Superior Wastewater Solutions

With a sole focus on water-related engineering, we are all committed to seeking the most innovative and technically sound solutions for projects like yours. We openly share our knowledge and experiences throughout the company so that you may benefit from the complete and collective expertise of the firm.

working relationship at all times. Client satisfaction and repeat business have helped us attain Top 15 wastewater design firm status as ranked by *Engineering News Record (ENR)*. In fact, ENR ranked Carollo #1 in the country and the title of "California Design Firm of the Year" in 2016, further highlighting the high level and quality of expertise we provide within the state.



SPECIFIC TO YOUR GOALS

Choosing the Right Tools for the Interceptor Capacity Evaluation

We will also apply our knowledge of your system and available industry standard hydraulic modeling software packages, including USEPA SWMM and its variants (InfoSWMM, PC-SWMM), Infoworks, and other available packages to select the right tool to support the interceptor evaluation. Our staff is qualified in extracting the necessary spatial and database information from existing databases to create these hydraulic models. This modeling tool will be used to develop an understanding of interceptor system capacities and in particular how much flow is delivered to the RRF under average dry weather flow and peak wet weather flow conditions. Another key evaluation using this tool will be determining the percent of the interceptor capacity utilized by the member entities.

Determine Biological Capacity of the RRF

Our stepwise approach to reviewing recent influent and effluent data, developing a calibrated Biowin model, and running various scenarios will aid in the determination of the biological (BOD, TSS, TN, etc) capacity of the facility. The focus will be on scenarios that do not involve construction of new facilities. In addition, we will tap into our staff that have operations experience to discuss methods to improve the performance of the facility. Brian Graham served as Suez's national process expert with the main goal of helping operators more efficiently run facilities. Brian will bring this expertise to your project.

Determine Hydraulic Capacity of the RRF

Using our Hydraulix® software, we will develop a model of the Shay Road plant and calibrate it in the field with actual measurements of water levels at varying flow ranges. This tool will be used to develop an updated hydraulic profile for the facility and identify any potential hydraulic bottlenecks that can be easily remedied. The key aspect will be to determine the impact of the recently completed tertiary upgrades (Aqua Diamond Filters & UV) on the hydraulic capacity.

Better Submetering at the RRF

One of the items identified by VVWRA as a method to better understand energy use within the facility is to add submetering. We have experience assisting other

facilities with the determination of submetering locations and will leverage that real experience for your project. This will include getting VVWRA connected with other operators that have included submetering to allow an information exchange on pros and cons of this approach.

Plan to Address Potential Permit Changes at the RRF

There is the potential that the facility permits may become more restrictive in the near future. VVWRA is wise to stay ahead of these potential changes and determine courses of action to either negotiate the changes and/or develop an approach to meet future stricter permit limits. The potential limit changes may include lower nitrogen discharge limits and a requirement to dewater the digested solids. Both of these potential items tie back to the process modeling and development of scenarios to improve the nitrogen removal performance and the potential for sidestream ammonia removal of dewatering centrate/filtrate.

Become an Energy Exporter at the RRF

Currently, VVWRA produces enough energy to operate without importing energy. The goal is to increase the energy profile, renegotiate with SoCal Edison, and become an energy exporter. This can be achieved by both reducing the energy demands in plant and increasing biogas production.

Improve Automated Control at the RRF

Currently, VVWRA uses the SRTMaster developed by Alex Ekster. Likewise, VVWRA is interested in expanding the process control to move towards a predictive control philosophy. Carollo has a strong working partnership with Alex and have been working with him on the next generation of controls that include DOMaster and predictive ammonia control schemes.

Obtain Department of Energy Grant(s)

An outcome of the other goals will be a roadmap that can be used to submit for and obtain funding that deploys energy saving (and/or exporting) measures. The Department of Energy could be a source of funding to install features such as additional analyzers and predictive control systems. We will do the heavy lifting to develop the documents to allow VVWRA to submit for these grants.



Carollo's Successful History with VVWRA

Project Title	Description of Work Performed
Desert Knolls Wash	<p>In 2017, Carollo was contracted to provide a new pipe alignment that does not conflict with the Desert Knolls Wash and will not be at risk for failure. Debris management and odor control services related to the Upper Narrows double barrel siphon is also included in this project, as well as flow monitoring to determine the amount of flow from Apple Valley.</p> <p>The project consists of approximately 3,200 ft of 15-24 inch PVC sewer and a grit removal facility that will help to keep the double barrel 16-inch siphon under the Mohave River from collecting debris. The structure will be constructed of precast polymer concrete.</p>
Subregional Water Reclamation Projects (WRP)	<p>Carollo has been the lead engineer for these important projects since 2008. We have been a trusted resource to the Authority, helping work through all issues to bring the two WRPs to fruition by 2018. The project began with the planning, preliminary design, and public outreach aspects of the projects. A Preliminary Design Report was published in December 2009, which set the basis for the site locations for the two 1 mgd MBR facilities. In November 2011, the final drawings and specifications were issued for the two WRPs. Subsequently, the offsite improvements for the reclaimed water aspects were added in 2012. The projects were bid in 2014 after funding was secured. Carollo has been involved through construction, assisting the Authority and their 3rd party construction manager with review of construction documents and providing in field startup assistance.</p>
Westside Water Reclamation Plant Phase IIIA Expansion Value Engineering Workshop	<p>Carollo conducted a value engineering study that encompassed all of the Phase IIIA work, as well as elements of the planned Phase IIIB work that might be affected by design issues on Phase IIIA work. The focus of the study was to identify areas of high cost (both initial and annual), and to recommend alternatives for reducing or increasing these costs to maintain or improve the required functions, performance, safety, and quality. The VE team identified 32 VE recommendations for consideration.</p>
Santa Fe Avenue Relief Interceptor Sewer Design	<p>Carollo provided design services for 11,000 LF of new 18-inch interceptor sewer to relieve an existing sewer and general services during construction for the Santa Fe Avenue Relief Interceptor Sewer project. The project included approximately 11,260 linear feet of 15-inch diameter PVC gravity relief interceptor, 40 manholes, rehabilitation of 2 manholes, traffic control and asphalt street replacement.</p>
Upper and Lower Narrows Condition Assessment and Emergency Rehabilitation for the Victor Valley Interceptor	<p>This project included an investigation of the Upper and Lower Narrows Interceptor. This CCTV/sonar pipe inspection project is located on sections of the Victor Valley Interceptor in Victorville, California. Carollo provided the following:</p> <ul style="list-style-type: none"> • Prepared a solicitation for the field investigation of 8,200 LF of 36-inch interceptor and evaluation of the bids from technology suppliers. • Developed a feasibility level evaluation of four alternatives to replace or rehabilitate a 3,000 foot section of 36-inch diameter interceptor located within the Upper Narrows area beneath the Mojave River. • Recommended field investigation technology to the VVWRA Board for approval along with an amendment to the Carollo purchase order to cover these services. • Provided oversight of the field investigations, and based on the results, provided VVWRA with rehabilitation recommendations. • Performed emergency UVC/PP design for railroad crossing for deteriorated 27-inch steel pipe.

Technical Competence

Interceptor Capacity Evaluation Experience

Carollo has prepared comprehensive planning studies for more than 200 municipal clients with service area populations from 5,000 to more than 2.5 million. These projects range from small interceptor capacity studies to comprehensive regional master plans. Carollo is a leader in the development of hydraulic models and master plans to support wastewater agencies facing a variety of complex issues. Our experience includes more than 100 collection system modeling projects, applying all the major modeling soft-ware platforms. Our Infrastructure Master planning team has more than 50 members—many with extensive experience in collection system model development, calibration, analysis, and regional interceptor capacity evaluations.

Biotran, BioWin, and Hydraulix® Software

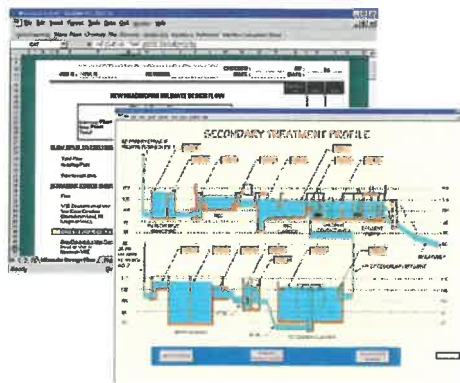
Process modeling is a powerful tool used to perform desktop evaluations of wastewater treatment processes for existing plant evaluations and “what-if” scenarios that test a system under a range of conditions. **BioWin is one of the industry’s leading whole-plant process simulators, and includes models for liquids and solids treatment processes that allow a comprehensive analysis of a wastewater treatment system, taking into account the interactions between the different liquids and solids treatment processes found in a WRF.**

Carollo routinely uses BioWin as a process modeling tool for capacity evaluations, optimization studies, process troubleshooting, and process design. However, not all modeling approaches are created equal! There are two key aspects that Carollo emphasizes as part of our process modeling efforts to assure our results match real-time process performance.

First, thorough model calibration for existing systems is critical to obtain meaningful results from model runs under “what-if” scenarios. To assist in accurate model calibration, we may request additional sampling at



Carollo provided an interceptor capacity evaluation for the City of Modesto.



Our hydraulic evaluations are augmented by our powerful Hydraulix® model.

intermediate process points if the information is currently not available. Intermediate sampling can help pinpoint specific strengths and weaknesses to facility processes and support optimized operations. Second, operational conditions for each unit process have to be constrained by “real-life” criteria such as equipment performance, typical design criteria, and adequate operational safety factors, in order to evaluate the plant performance under realistic conditions. We address these two aspects by using BioWin in conjunction with Biotran, Carollo’s in-house process modeling tool. **Biotran is an Excel-based tool streamlined to work in conjunction with BioWin to supplement the process model analysis, incorporating typical process design criteria and detailed wastewater characteristics into the process analysis.** The combination of these two modeling tools provides an excellent balance between detailed biological process modeling (BioWin) and practical design and operational criteria (Biotran) — resulting in modeling that matches plant operations and supports informed decision making.

Carollo provides consulting services for water and wastewater treatment plant hydraulic evaluations using an evaluation and modeling approach with a software tool to develop reports and recommendations. **Hydraulix® produces rapid treatment plant hydraulic calculations representing a plant’s hydraulic profile and provides easy evaluation of plant hydraulic performance, including identification of hydraulic bottlenecks, overflow conditions, and imbalances in flow splitting.** What sets Hydraulix® apart from other hydraulic models is its integration of a sophisticated graphical user interface with an easy-to-use computational format. It can be customized around any treatment plant. The customized version of Hydraulix® can be used as an operational tool by plant staff to evaluate and optimize plant hydraulics at a desktop level.



1 PAR 1232 Sand Creek/Second Creek Basins Regional Master Plan

Metro Wastewater Reclamation District, Colorado

CLIENT REFERENCE: Jim Mallorej, Project Manager
6450 York Street, Denver, CO 80229 | 303.286.3000
jmallorej@mwrdd.dst.co.us

PROJECT RELEVANCE: Carollo led the successful regional planning effort to assess long-term benefits to the Metro District and its members of building a 17.5-mile gravity sewer, instead of expanding a series of lift stations that would continue to need to be expanded and operated in the face of dramatic growth. We updated the District's InfoWorks ICM hydraulic model with updated flow projections from five parties that contribute flows to the system. We applied the District's pipe capacity performance criteria to identify the ultimate size and timing of improvements needed to convey flows through the system to the District's treatment plant.

Using internal and external communication methods and coordinated analyses, Carollo's multi-criteria analysis and facilitated Technical Workgroup meeting approach led the five parties to concur that the new interceptor and associated improvements to the existing system would reduce risks while preserving capacity for future growth for all members' benefit.

TEAM INVOLVEMENT: Eric McLeskey

2 RP-1 Capacity Recovery Project

Inland Empire Utilities Agency, California

CLIENT REFERENCE: Jason Marseilles, Senior Engineer
6075 Kimball Ave, Chino, CA 91708 | 900.452.8976
mjoiuyjo@waterchoices.com

PROJECT RELEVANCE: Project includes the preliminary and final design to recover capacity to 40 mgd from the current 28 mgd. The evaluations include both hydraulic modeling and biological modeling.

Expansion components include new fine screen facility, new membrane facilities (conversion to MBR), new acid phase digesters, and rehabilitation of various existing unit processes.

TEAM INVOLVEMENT: Andrew Gilmore, Rajesh Doppalapudi

3 Water Reclamation Facility Expansion

Town of Marana, Arizona

CLIENT REFERENCE: Stephen Dean, WR Operations Manager | 11555 W. Civic Center Dr, Marana, AZ 85653
520.382.2507 | sdean@maranaaz.gov

PROJECT RELEVANCE: Carollo assisted the Town of Marana with the phased expansion of the Marana Water Reclamation Facility (WRF). At the time, the WRF was operating at approximately 76 percent capacity, or an average daily flow rate of approximately 380,000 gpd. Carollo evaluated various treatment alternatives and phasing scenarios including, but not limited to, capital and operational costs, operational efficiencies, site impacts, solids handling, automation, energy conservation, and effluent quality.

To facilitate the project, Carollo performed: an assessment of existing operational scenarios and anticipated flow; a review of anticipated flow projections; a development of treatment alternatives and phasing scenarios; biological and hydraulic modeling; a conceptual design and site layouts; cost comparisons; and an alternatives evaluation and recommendation.

TEAM INVOLVEMENT: Andrew Gilmore



Proposed Method to Accomplish the Work

OUR APPROACH TO YOUR PROJECT

Our approach is geared to achieve the Authority's project goals and provide flexibility to VVWRA within the scope of services if some tasks take less effort (such as data review), to allow for more effort to be spent on the development of alternatives.

To achieve these goals and deliver the scope of work, we envision the following major tasks:

1. Project Management
2. Interceptor Capacity Evaluation
3. Resource Recovery Facility Evaluation
4. Report Development

Task 1 Project Management

In this task, the typical items such as coordination with VVWRA's leadership, invoice development, and monthly progress reporting are all included. In addition, this task includes three progress meetings and four workshops. The progress meetings will serve to update VVWRA's leadership on the progress of the project and vet the concepts developed prior to workshops with VVWRA operations staff. The workshops will focus on presenting, gaining input, and working towards consensus/buy-in with the entire VVWRA team for the concepts developed for this project. The workshops will focus on:

- Interceptor Capacity
- Hydraulic and Biological Model Results
- Energy Improvement Concepts
- Operational Improvements

Task 2 Interceptor Capacity Evaluation

A System Capacity Analysis will assess member entity contributions, define total delivery capacity of the regional collection system, and support SSMP updates.

A primary objective of Task 2 Interceptor Capacity Evaluation is to thoroughly analyze the interceptor system hydraulics to understand member entity contributions and estimate average dry weather flow (ADWF) and peak wet weather flow (PWWF) delivered to the RRF. The results of this analysis will also support the future update of the VVWRA Sanitary Sewer

VVWRA Project Goals

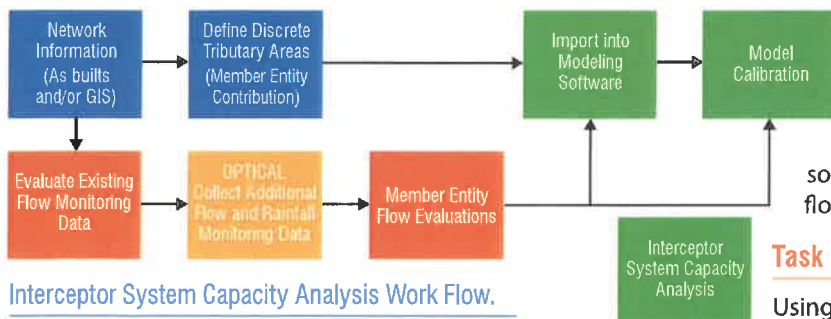
- Update interceptor capacity.
- Evaluate interceptor Member Agency usage.
- Determine hydraulic capacity of the RRF.
- Determine organic (BOD and nitrogen) loading capacity of the RRF.
- High level determination of energy improvements to further the goal of becoming an energy exporter.
- High level determination of operational improvements such as use of additional process parameter analyzers and predictive control.
- Documentation of options to achieve the goals for a future deep dive.
- Gain buy-in from operations staff on the vision to achieve these goals.

Management Plan (SSMP). To do this, we propose to use a combination of the existing flow monitoring data combined with a hydraulic model of the interceptor to develop a complete understanding of flow contributions from the various member entities as well as the combined flows contributed to the RRF.

Task 2.1 Collect and Review Data and Previous Studies

Our team will prepare an initial data request for information that may be relevant to the Interceptor System Capacity Analysis. Our team will coordinate data collection for information required from other VVWRA departments or outside sources (e.g. member entity planning or engineering departments).

We will also review the available ADS flow monitoring data to determine whether additional metering should be completed in order to provide more detail on member entity flows and/or interceptor system flow characteristics. Our proposed budget does not include costs for any additional metering. Should VVWRA staff agree that additional metering is warranted, we will develop an additional scope and fee for that work.



Interceptor System Capacity Analysis Work Flow.

Task 2.2 Develop and Calibrate Interceptor System Model

Our team will develop the model sewer network using data from available GIS, as-builts or other records of interceptor system physical attributes. The model network will include a complete representation of the VVWRA interceptor system, and we will work with VVWRA staff to determine what (if any) portion of the member entity systems should be included in the model. The model will also include a simplified representation of the RRF headworks to ensure the model accounts for plant operations in the capacity assessment.

Once the model is developed, we will calibrate the interceptor system using the available ADS flow monitoring data. Common industry practice is to only calibrate to the flows captured at the metering sites, which inherently leaves blind spots in the model and inaccurate analyses. We eliminate the blind spots by calibrating the model not only to flow rate/volume but also to flow depth in the interceptor system segments. This approach provides a more robust understanding of interceptor system operations and ensures more consistent evaluation of interceptor deficiencies. The model will be calibrated to both dry weather conditions and up to three different storm events, assuming the ADS flow monitoring data allows this. This will result in a set of calibrated parameters for determining peak wet weather flows in the interceptor system.

Task 2.3 Member Entity Flow Evaluations

Available flow metering data will be the primary source of assessing flow contributions from the member entities to the interceptor system. In combination with the hydraulic model developed in Task 2.2, these flows will help identify the percent utilization of the interceptor for each entity. For this scope, it is assumed this evaluation is only for existing conditions (current populations and flows; no projections for future/buildout flows will be completed). Our team has completed similar flow contribution analysis for interceptors with multiple contributing parties for the Sub-Regional Operating Group (SROG) in Arizona and the

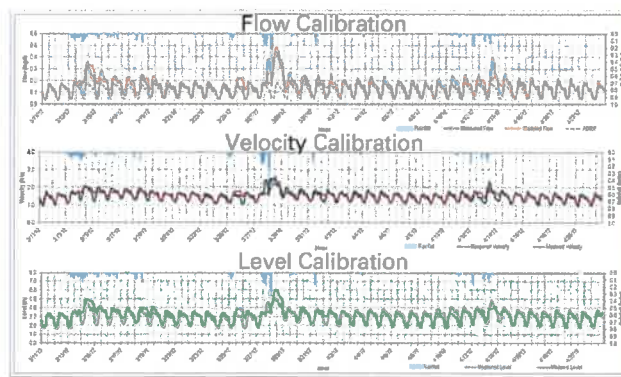
Metro Wastewater Reclamation District in Colorado. Our planning experience with regional systems will help us develop balanced and equitable long-term solutions for all parties contributing flows to the VVWRA interceptors.

Task 2.4 Interceptor Evaluation

Using the results of Task 2.2 and Task 2.3, we will determine the percentage of the interceptor system utilized by each of the member entities during average dry weather and peak wet weather flows. We will also determine the remaining capacity in the interceptor system and the overall flow contribution to the RRF under both ADWF and PWWF conditions. The outcome of this task will be largely determined by the criteria established for determining pipe deficiencies. Previous work relied on applying typical sewer design criteria (e.g., $d/D \leq 0.75$), which rightly focuses on conveying all flow within the pipe. For typical sewer operations, however, some allowable surcharge can provide a less conservative assessment of pipe deficiencies while still protecting utilities from SSOs or other capacity limitations. We will work with VVWRA staff to identify alternative approaches for 1) defining an appropriate design storm or storms, and 2) criteria for evaluating the system under the design event (e.g., acceptable level of surcharge) that reflects VVWRA's desired level of service and risk acceptance. The proposed criteria will be reviewed and discussed with VVWRA staff before application to evaluate system capacity.

Task 2.5 Draft/Final Technical Memorandum

The results of Task 2 will be summarized in an Interceptor Capacity Assessment Technical Memorandum. This memorandum will provide VVWRA with documentation of member entity flow contributions, percentage of the interceptor capacity utilized



Our industry leading approach for model calibration techniques yields a more accurate collection system model.

by each member entity, overall interceptor capacity assessment and total flow contributions to the RRF for both ADWF and PWWF conditions. Results of Task 2 will be presented in a workshop that will review the draft TM. The results of that workshop and any comments received will be incorporated into the final TM.

Task 3 Resource Recovery Facility Evaluations

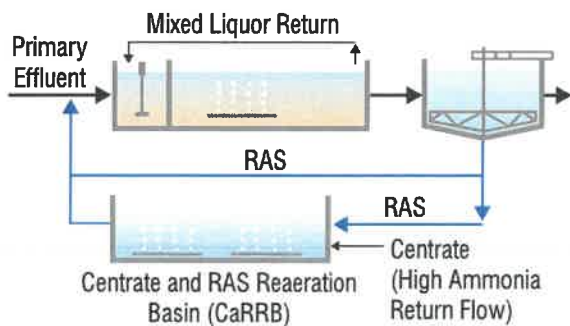
This task will provide the majority of effort and information, as required within the request for proposals. The subtask include the development of four technical memoranda that encompass the following:

- Hydraulic Capacity Analysis
- Organic Capacity Analysis
- Energy Improvements
- Operational Improvements

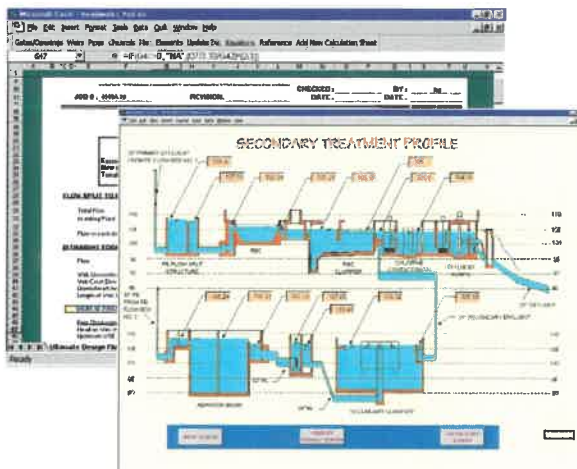
Your calibrated Hydraulix® model will become an operational tool for your plant staff to evaluate and optimize plant hydraulics at a desktop level beyond this project.

Hydraulic Capacity Analysis

The existing facility recently underwent major improvements to the tertiary unit processes and as such, the current hydraulic capacity can be evaluated and documented to capture these improvements. A workshop will be held to review the results of this task.



Using the CaRRB process, high ammonia return flows (centrate) generated through dewatering are fed to the head of the sidestream treatment basins along with a portion of RAS. CaRRB effluent (partially nitrified centrate plus RAS) is returned to the mainstream process with primary effluent.

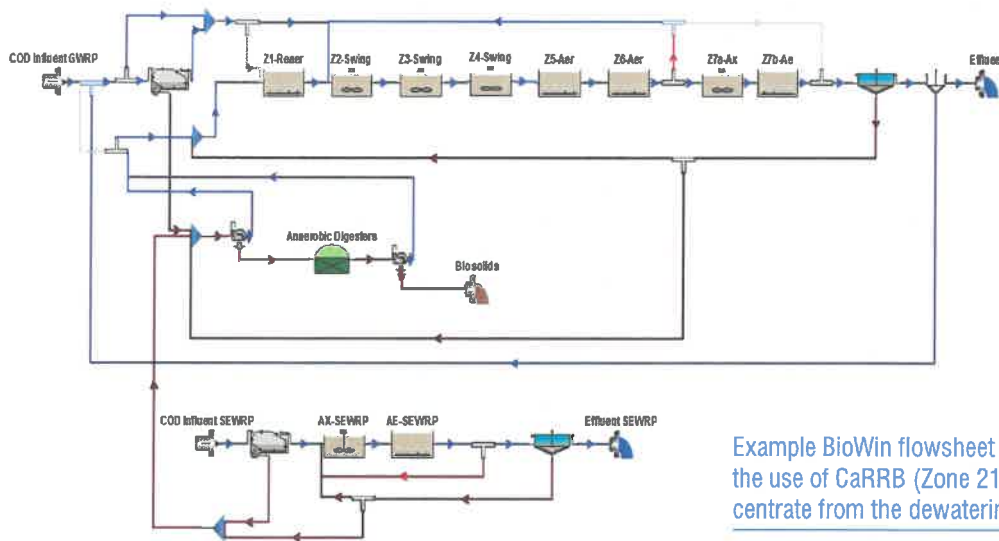


Our hydraulic evaluations are augmented by our powerful Hydraulix® model.

Our team will develop a calibrated hydraulic model of liquid stream processes in Hydraulix®, an easy-to-understand, Excel-based spreadsheet model. This software was specifically designed by Carollo to be shared with our clients and help bridge the gap between non-user-friendly custom-made design spreadsheets and proprietary commercial software models. Many clients share your need to have an easy-to-use in-house hydraulic tool to optimize plant operation. Hydraulix® utilizes advanced graphical user interface features. The pictorial format allows the user to “click” process units on or off and to evaluate the resulting impact on the plant hydraulics. Our models have been used by clients to answer the many “what if” questions that typically emerge during the day-to-day operation of a treatment plant. Hydraulix® can also help to analyze different operational configurations and to establish hydraulic capacities under these configurations in the future.

Our team will calibrate and validate this model for current flow conditions using field survey information that we will be collecting as part of this project. The calibrated hydraulic model will then be used to assess the headloss associated with the modifications in the aeration basins that are part of this project. Once the BNR modifications and project construction are complete, we will train your staff on how to calibrate and validate our model to verify that measured water surface elevations are within 0.1 feet of Hydraulix® model predictions.

We commonly provide staff training on use of the Hydraulix® model so that your staff is comfortable in how to use all features that this model provides.



Example BioWin flowsheet to illustrate the use of CaRRB (Zone 21) to treat centrate from the dewatering process.

Organic Capacity Analysis

VVWRA is wise to separate the hydraulic and organic (BOD and nitrogen) removal capacity into two separate numbers. Water conservation and regulation changes have necessitated this approach. In the desert southwest, we have continued to see an upward trend of organic loading while hydraulic loading has either stayed flat or risen at a lower rate. Also, since permits require removal of BOD, TSS, and nitrogen species, understanding the organic loading capacity is critical to planning. There is a potential for future permit requirements to impact the facility thereby increasing the value of understanding the organic load capacity of the facility. The two potential permit changes that will impact the biological treatment is a lower total nitrogen limit and the requirement to provide solids dewatering. Both of these changes will impact the nitrogen removal capacity of the facility. The potential change in solids handling will result in a recycle stream (from the dewatering units) that will be high in ammonia. There are several approaches to address the side stream such as equalization, centrate reaeration (such as the Carollo patented Centrate and RAS Reaeration Basin or CaRRB), or a proprietary process such as Demon, Anammox, or Anitamox. Regardless of the technology to be deployed, the impact on the organic loading capacity of the facility will need to be known to determine how to address the permit changes should they come to realization.

The organic capacity analysis will be conducted using BioWin software. We will make use of the BioWin model runs developed by previous consultants and calibrate to current conditions. The calibrated model

will be presented to VVWRA to review the assumptions to gain input from operations staff. A model will be calibrated so that the operations staff trust that the results reflect real world conditions. After the calibrated model is reviewed, scenarios will be developed to determine the impact and best approaches to lowering the total nitrogen limit, new dewatering system, and the combination of both situations. A workshop will be conducted, as part of Task 1, to review the results of this effort.

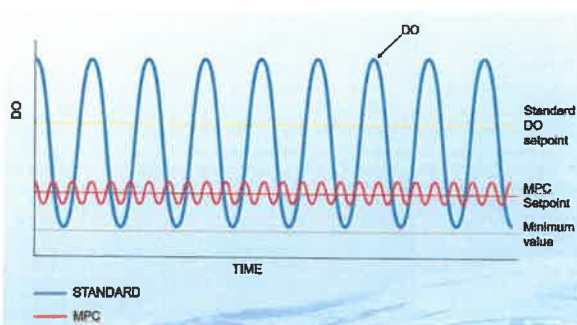
Energy Improvements

VVWRA has been extremely successful at being one of the few facilities in the nation to obtain energy independence. The next step for VVWRA is to move towards becoming an energy exporter. To achieve this goal, we will assist VVWRA to review the energy usage at the facility, develop an energy profile, and determine approaches to further reduce energy consumption including recommending locations to add electrical submetering—an effective way to better determine how much energy is being used at different locations and how operational changes impact the energy usage. In addition, coordination with outside entities to determine potential grants will be provided with entities such as the Department of Energy and the California Energy Commission. The information developed in this task will be presented in a workshop to VVWRA.

Operational Improvements

The results from the prior subtasks of organic capacity and energy improvements can be augmented and/or achieved by implementing operational improvements

such as adding process analyzers or parameters like nitrate and ammonia. These additional analyzers can be tied into an overall model predictive control system. Currently, VVWRA uses the SRTMaster technology to control wasting and subsequently SVI. Likewise, consideration for DOMaster and potential ammonia control will be the next logical steps to further



Using a technology such as DOMaster for the Model Predictive Control (MPC red line), the variability of DO can be damped and the overall energy usage can be reduced by up to 30%. This also provides for a more stable process.

optimize the operation of the biological process at the facility. The use of additional process analyzers and model predictive control will also be incorporated into operational schemes that would lead to improvements relative to energy usage and effluent quality.

Task 4 Report Development

The analysis and evaluations from Task 2 will be documented in a series of technical memorandum, which will all be compiled into a report that includes an executive summary. It is envisioned that the following technical memoranda (TM) will be delivered as part of this project.

- TM-1 Interceptor Capacity Assessment.
- TM-2 RRF Hydraulic Capacity Evaluation.
- TM-3 RRF Biological Capacity Evaluation.
- TM-4 RRF Energy Independence Improvements.
- TM-5 RRF Operational Improvements.
- Executive Summary with final TMs in one report.

"Since I have had the pleasure of spending more time with you [Carollo] in relation to our project, I can honestly say that there could not have possibly been a close second out there to fill your shoes here at the District. I cannot stress enough how refreshing it is to sit with a group of engineers of your experience that are so open and understanding when it comes to everyone's opinion - especially from the operational side of things. . . . I believe that this whole process, from conception to the execution of today's efforts, were well managed and made each stakeholder, guest, and member of District staff feel as though they were a contributing member of the team; just as it should be. I look forward to the next step as we approach this huge milestone; and can say without a doubt that I am glad you're on our side!"

— Mark Ban, Director of Operations,
Hi-Desert Water District



3150 Bristol Street, Suite 500, Costa Mesa, California 92626
P. 714.593.5100 | F. 925.930.0208

July 12, 2018

Mr. Logan Olds
General Manager
Victor Valley Wastewater Reclamation Authority
2011 Shay Road
Victorville, CA 92394

Subject: Victor Valley Wastewater Reclamation Authority (VWRA) -
Cost Proposal - Capacity Study: Main Plant and Interceptor System


Dear Mr. Olds:

The enclosed fee, including hourly rate schedule, accompanies our proposal also dated and submitted on July 12, 2018. It contains man-hours, hourly rates, and fee breakdown by task for each classification of personnel assigned to complete your Capacity Study and related work. Our cost proposal estimate is based on the RFP and proposal scope of work.

We look forward to working with you and Authority staff to deliver this important project. If you have any questions about this cost proposal or any other elements of our submittal, please contact me at 602-501-9960 or via email to AGilmore@carollo.com.

Sincerely,

CAROLLO ENGINEERS, INC.


Andrew Gilmore, P.E.
Vice President

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY

Capacity Study Project

**Carollo Engineers, Inc.
Project Fee Schedule**




LABOR CATEGORY	BILLING RATES
Project Director / Project Manager	\$ 255.00 per hour
Operations Specialist	\$ 270.00 per hour
Project Engineer	\$ 235.00 per hour
Project Professional	\$ 185.00 per hour
Professional	\$ 175.00 per hour
Staff Engineer	\$ 155.00 per hour
CADD Technician	\$ 145.00 per hour
Clerical / Word Processor	\$ 95.00 per hour
OTHER DIRECT COSTS (ODCs)	
Travel and Subsistence	at cost
Reproduction	at cost
Postage and Courier Services	at cost
Long Distance Communication	at cost
Mileage	\$ 0.545 per mile
Subconsultant	cost + 10%

NOTE: Project Fee Schedule will remain valid for the duration of this phase of services only. Fee schedule for supplemental phase services, including but not necessarily limited to preliminary and final design, engineering services during construction, may be subject to an updated fee schedule to be negotiated at a later time as appropriate.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 20 September 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Award of Interceptor Capacity Study to Dudek Engineering

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Dudek Engineering to perform an Interceptor Capacity Analysis in an amount not to exceed \$127,810.00, one hundred and twenty-seven thousand, eight hundred and ten dollars.

REVIEW BY OTHERS

This project was reviewed by the Engineering Committee; Tim Millington, County Special Districts, Greg Snyder Town of Apple Valley, David Burkett, City of Hesperia, and Brian Gengler, City of Victorville. Also, this recommendation was reviewed by VVWRA; Piero Dallarda, Legal Counsel, Chieko Keagy, Controller, Latif Laari, Business Applications Manager, and Alton Anderson Construction Manager.

BACKGROUND INFORMATION

At the August 2018 Board meeting action was taken to perform an audit on VVWRA's Sanitary Sewer Management Plan (SSMP) which is required to be updated every five years. To complete such audit, staff recommended that the Sewer Master Plan (Master Plan) be updated as well to reflect an accurate hydraulic model. The Master Plan was last updated by RBF in 2008 and is based on assessments of the hydraulics, physical condition and maintenance of the collection system. The Master Plan outlines recommendations and improvements to provide adequate hydraulic capacity and improve the reliability of the collection system.

Concurrently the Board is considering a revised JPA agreement which would include an allocation of interceptor capacity to each of the Member Entities. Since the last hydraulic model was performed VVWRA has built new interceptors in Hesperia, Apple Valley, the Upper Narrows and the Subregionals. Also, in 2014 the Authority began collecting flow data in the interceptors 24/7/365. Therefore, both for the Master Plan and for the JPA, VVWRA needs to understand how sewage is conveyed and what the resulting capacity is that is available for allocation. The results of this project will be used for the addendum to the JPA allocating capacity and to meet State reporting requirements. Staff had originally budgeted this project for fiscal year 19/20 however due to the need to identify capacity in the interceptor system for the revised JPA the project needs to be completed at this time.

FINANCIAL IMPACT

This is an un-budgeted expenditure in the amount of \$127,810.00, one hundred and twenty-seven thousand eight hundred and ten dollars to account 01-05-535-8105.

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-05-535-8105
Transfer Needed due to Insufficient Budget	Y [X] N []
If Transfer, from Which Account String or Reserve	TBD
Budgeted Amount Where Money Comes from	TBD
Budget Remaining after the Recommendation	TBD
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	Y [] N []
Contract after Change	\$

RELATED IMPACTS

It may be possible to eliminate or amend the capital projects associated with the interceptor once the modeling results are analyzed and a resulting capacity is known for individual interceptor segments.

Interceptor Capacity Study Scope of Services

The goal of this project is to determine the existing capacity of the interceptor system.

The Authority would like to utilize the information developed by RBF Engineering in 2013 to determine the percentage of interceptor system including pump stations owned by VVWRA and utilized by each of the Member Entities during periods of average dry weather, peak dry weather and peak wet weather flows. This information should be updated to incorporate the ADS flow monitoring data that has been in place in the Authority's interceptors since 2014 (Available upon request).

The following activities have occurred since the prior interceptor hydraulic model was created:

1. Construction of the Santa Fe Interceptor in Hesperia
2. Construction of the Nanticoke Interceptor in Apple Valley
3. Elimination of the Nanticoke Pump Station and force main in Apple Valley
4. Construction of the Upper Narrows Interceptor which includes a double barrel inverted siphon connection from the SAVI
5. Construction of the Hesperia pump station and water reclamation plant
6. Construction of the Apple Valley water reclamation plant
 - a. Transfer to VVWRA of the Otoe Pump Station from the Town of Apple Valley
7. Fall 2018 construction of the Desert Knolls Wash Interceptor
8. ADS flow monitoring data from each Member Entity since 2014
9. Minor modifications include Tao Road manhole replacements, manhole replacement and lining, Shay Road junction structure rehabilitation, WAS line from AVWRP, removal of manhole on Hwy 18 and replacement with a wye. There may be additional minor improvements.

The following project components will need to be addressed:

1. Replacement of the Oro Grande Interceptor.
2. Transfer of Ownership of the Victorville Pump Station located near Stoddard Wells Road.
3. Three existing capital projects proposed to address pipe size issues. There are locations in VVWRAs interceptor system where the pipeline diameter was decreased as a result of increasing slope. Therefore, larger interceptors discharge to smaller interceptors creating hydraulic jumps and debris accumulation.
4. Lining of two interceptors in Ossum Wash
5. Adelanto Interceptor

The Authority is requesting a firm, not-to-exceed fee for performing the project elements delineated below:

- Perform an analysis to determine the interceptor system capacity, by reach, for average dry weather flow (ADWF), peak dry weather flow (PDWF) and peak wet weather flow (PWFF) for flows from each Member Entity and for the abandoned Adelanto Interceptor.

- Aggregate Delivery Capacity means the total delivery capacity of the Regional Collection System to collect wastewater effluent at the Delivery Points and deliver such wastewater effluent to the Regional Wastewater Treatment Facilities.
- Utilize the hydraulic model to determine the capacity utilized by each Member Entity by reach.
- Preparation of a memo to recommend values to be used to determine remaining capacity in the interceptors by pipeline diameter for PDWF and PWWF according to best engineering practices and any state and federal guidelines.
- Determine the capacity of the VVWRA pump stations located in Apple Valley (1), Hesperia (1), Oro Grande (1) and Victorville (1).
- Identify areas where capacity could be increased with minimal capital investment.
- Evaluation of ongoing operation and maintenance activities of the interceptor to determine if those activities are impacting the capacity of the collection system and are in conformance with state regulations.
- Eight meetings to present findings of the model to the Engineering and Finance Committees and Board of Commissioners.

The interceptor model to determine capacity for the overall system must be completed by October 31st. If your firm is unable to meet this date, please state this in your proposal, why that date cannot be met and suggest a date by which you believe it could be completed. The intent is to utilize the model to develop cost of service scenarios relative to the allocation of flows (capacity) amongst the Member Entities that would result in a new financial model and rate study which would be in effect on July 1, 2019. VVWRA staff believes that November will consist of several meetings with the Engineering and Finance Committees to develop consensus of the numbers derived from the model with adoption in December by the VVWRA Board. The entire project is intended to be completed at the December 20, 2018 Board meeting. January through March 2019 will be used for proposition 218 noticing requirements. April through June 2019 will be used to finalize the FY 19/20 budget.

The Interceptor Capacity Study will be prepared in a manner such that it may be incorporated in to the Authority's 2019 update to its Sanitary Sewer Management Plan (SSMP) Section (viii) System Evaluation and Capacity Assurance Plan. The Authority intends to release a separate RFP to update the SSMP in 2019.

The Interceptor Capacity Study should be prepared in a manner that assists the O&M team to make informed decisions regarding Repair and Replacement of existing interceptor infrastructure and Management for the construction of new interceptor(s) to improve capacity.

All materials used to prepare the model including the final interceptor model will be provided to VVWRA in an electronic format agreed to by VVWRA at the conclusion of the project.

DUDEKVWRA

Proposal for Capacity Study: Interceptor Study

PREPARED FOR

Victor Valley Wastewater Reclamation Authority

August 30, 2018

Executive Summary

August 30, 2018

Mr. Logan Olds, General Manager
Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

Subject: Proposal to Prepare a Capacity Study: Interceptor Study

Dear Mr. Olds,

Dudek is pleased to submit our proposal to prepare a Capacity Study for the VVWRA Interceptor System. In addition to our many years providing wastewater infrastructure engineering design services to Southern California clients, Dudek has built a strong and valued reputation as a firm that thinks outside the box to find the best solutions for clients. Dudek's company culture fosters the flexibility and freedom to provide the necessary resources and expertise to meet our clients' needs.

The goal of this project is to develop a hydraulic model with sufficient data for use in developing cost of service scenarios relative to the allocation of flows amongst the four member agencies that will support a new financial model and rate study, which the Authority would like to be in effect on July 1, 2019.

The project includes four primary objectives:

1. Creation of a new interceptor system hydraulic model, calibrated to the lasted metered flow data.
2. Determine the flow in the Interceptor system, by reach and by member agency, for ADWF, PDWF, and PWWF.
3. Support VVWRA in generation of a rate model assessing fiscal responsibility of pipeline segments according to various use/capacity scenarios.
4. Complete the above 3 objectives by December 20, 2018.

In addition to the above objectives, the project will update the model with past improvements and future projected improvements, as well as seek to identify opportunities to improve capacity and O&M efficiency.

We look forward to the opportunity to discuss this project further. If you have any questions or wish to discuss our proposal, please contact Elizabeth Caliva (760.479.4114) or Russ Bergholz (760.479.4107). We look forward to discussing this project with you.

Sincerely,



Elizabeth Caliva, P.E.
Project Manager



Bob Ohlund, PE
Vice President

Bob Ohlund is authorized to sign on behalf of Dudek.

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- B Fiscal Stability Documentation
- C Insurance Documentation

Identification of Proposer

Dudek is Southern California's leading mid-sized engineering and environmental consulting firm, specializing in water, wastewater, and recycled water. For over 38 years, we have served Southern California cities and special districts on a variety of planning, design, permitting, construction management, and regulatory issues. We view our role as partners with our clients, working to identify effective, financially prudent solutions to the project challenges they face.

Dudek is an employee-owned, privately held corporation that has been profitable since its founding in 1980. The firm is in sound financial condition and has no financial or legal issues that would impede our ability to provide the services sought by VVWRA.

We have over 450 employees working in eleven offices throughout California, including our corporate office located in Encinitas. Dudek's professional staff represents a broad spectrum of engineering design and management disciplines relevant to your identified needs. In addition to a strong core group of proven civil, sanitary, and environmental engineers, our firm provides a balanced mix of environmental, general civil, water/wastewater treatment, hazardous waste, and construction management specialists,

supported by an impressive and diversified mix of process/system engineers, construction inspectors, and Computer Aided Drafting and Design (CADD)/GIS experts. The depth of our in-house expertise and support staff allows us to offer a wide range of services on a moment's notice.

Project Manager Contact Information

Elizabeth Caliva
605 Third Street
Encinitas, California 92024
T: 760.479.4114
F: 760.942.4508
E: ecaliva@dudek.com

Binding Authority

Bob Ohlund, PE
Vice President
27372 Calle Arroyo
San Juan Capistrano, California 92675
T: 949.450.2525
F: 949.450.2626
E: bohlund@dudek.com

Table 1 provides the information requested by the Authority.

Table 1. VVWRA Requested Information

VVWRA Request	Dudek Response
Legal name and address of company	Dudek
Legal form of company (corporation, partnership, etc.)	A proud <i>California</i> Corporation since 1980
Address and phone number of the office that will be primarily responsible for providing services for this Proposal	605 Third Street Encinitas, California 92024 T: 760.479.4114 F: 760.942.4508
California Business License Number	City of Victorville License Number BSL09-00067. Currently "Inactive", we are now reactivating the license. Dudek holds 94 active licenses throughout California.

Staff Resources

Project Organization

The Dudek team includes a concise array of professionals who built their careers planning and designing public works infrastructure. The key team members provide the requisite expertise in sewer master planning, hydraulic modeling and capacity analysis essential to deliver effective and efficient service to VVWRA. **Figure 1** illustrates our project organization and provides the roles and responsibilities of each person assigned to your project. The Dudek team members are dedicated to

your project for its duration to the extent necessary to complete their assigned tasks. Dudek employs over 450 professionals with including engineers, environmental planners, modelers, and construction managers No changes in staff assignments will occur without prior written approval from VVWRA staff.

Following the organization chart, brief biographies for our key staff. Full resumes for all personnel are located in **Appendix A**.

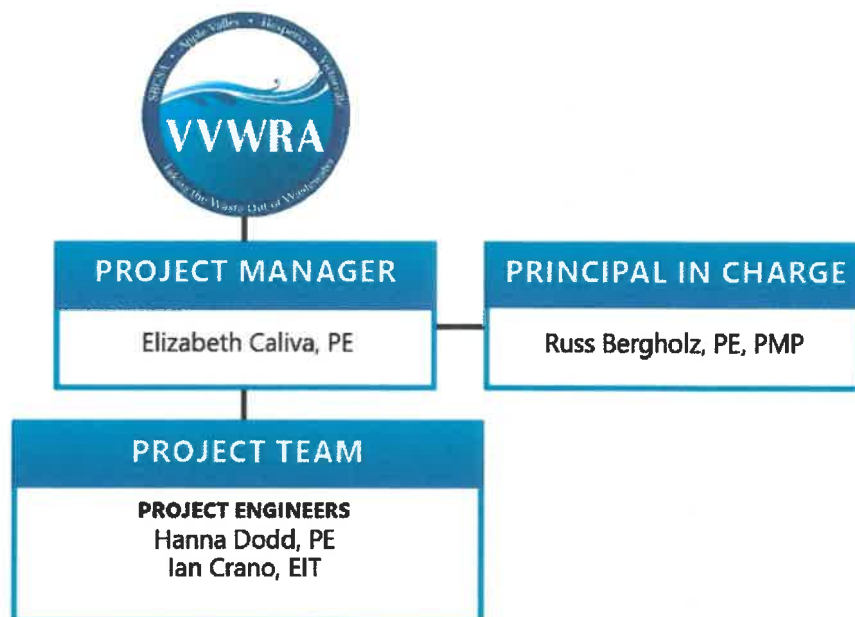


Figure 1. Project Organization Chart

Project Manager (Primary Contact)

Elizabeth Caliva, PE

Elizabeth Caliva is a senior engineer with Dudek and assigned as the project manager for the City's proposed project. Ms. Caliva specializes in water/wastewater/recycled water planning and design. She has performed a variety of tasks for projects pertaining to treatment plant design, lift station design, sewer pipe line design, hydraulic model development and optimization, GIS, preliminary design studies and alternative analyses. Ms. Caliva has managed and/or performed the development and operation of water, recycled water and wastewater hydraulic models for numerous clients, including San Elijo Joint Powers Authority, Ramona MWD, Irvine Ranch Water District, Rainbow MWD, City of La Mesa, Temescal Valley Water District, City of Oceanside, City of Poway, Municipal Water District of Orange County (MWDOC) and numerous others. Ms. Caliva's recent hydraulic modeling and master plan experience includes:

- City of San Marino, Sewer Master Plan and Condition Assessment
- City of Pasadena, Sewer Master Plan Update
- Crestline Sanitation District, Sewer Master Plan
- As Needed Sewer Hydraulic Modeling, Irvine Ranch Water District
- South County Interceptor Planning Level Reliability Analysis, MWDOC

Principal in Charge/Quality Control (Secondary Contract)

Russ Bergholz, PE, PMP

Russ Bergholz is a principal engineer with Dudek and responsible for overseeing the Dudek water infrastructure group and is assigned as the principal in charge for the City's proposed project. Mr. Bergholz specializes in the planning, design, and construction of public water and wastewater infrastructure projects. His experience includes water and wastewater-related system master planning and design, various as-needed special studies, preliminary design reports, GIS development projects, and other related engineering services. Mr. Bergholz' recent master planning experience includes:

- City of Placentia, Sewer Master Plan and Condition Assessment
- City of Pasadena, Sewer Master Plan Update
- City of Carlsbad, Water and Sewer Master Plan Update
- Irvine Ranch Water District, Lake Forest Subarea Sewer Master Plan
- Irvine Ranch Water District, Sewer Collection System Master Plan
- Rainbow Municipal Water District, Water and Sewer Master Plan.

Education

University of California, Berkeley
MS, Water Resources and Water
Quality Engineering, 2003

University of California, Berkeley
BS, Environmental Engineering,
1999

License & Certifications

Professional Civil Engineer
CA No. 64331

Education

University of California, Davis
BS Civil Engineering, 1995

License & Certifications

Professional Civil Engineer
PE CA No. 59395

Project Management Institute
PMP No. 1472209

Fiscal Stability

Dudek is an employee-owned corporation that has been profitable each year since its founding in 1980. The firm is in sound financial condition and has no financial or legal issues that would impede our ability to provide the services sought for this contract. Dudek has a strong, experienced, fiscally responsible management team, allowing the firm to finance operations with internally generated funds.

Appendix B contains our latest Dun & Bradstreet financial report. *This information will remain confidential and is not subject to public disclosure.*

Experience and Technical Competence

Dudek Expertise and References

Dudek engineers are experienced in hydraulic modeling of water, sewer and recycled water systems. The firm is proud of the relationships that our project managers and engineers build with our clients. We are confident that our demonstration of project experience below will provide you with adequate information about our technical capabilities. A list of agencies we have provided hydraulic modeling and planning services for in the last 5 years are below. Please contact our references listed with each project to learn more about our performance.

San Marino Wastewater Master Plan

Client: City of San Marino

Key Dudek Staff: Elizabeth Caliva, Russ Bergholz, Hanna Dodd

Project Manager: Michael Throne, PE, City Engineer, 626.300.0700

Dudek was contracted by the City to prepare their first comprehensive wastewater collection system master plan. As the City is very near built-out, the primary focus of the project was condition assessment of its aging infrastructure. The project consists of review of 20 miles of CCTV pipeline inspection videos (40% of their system) to assess the rehabilitation needs of the system and the development of a capital improvement program to address those needs. Dudek is also preparing a Sewer System Management Plan (SSMP) update in accordance with the latest guidelines for the Water Quality Control Board.



Crestline Wastewater Master Plan

Client: Crestline Sanitation District

Key Dudek Staff: Elizabeth Caliva, Russ Bergholz, Hanna Dodd

Project Manager: Rick Dever, General Manager, 909.338.1751, rdever@crestlinesanitation.com

Crestline Sanitation District was in need of a comprehensive master plan that included its collection system, three wastewater treatment facilities, and effluent outfall and disposal system. Dudek performed a risk-reliability based evaluation of the District's collection system and treatment facilities. Several workshops with District staff were conducted to glean insight on the operation of treatment facilities and the collection system. ADS flow monitoring was conducted at strategic times and locations in the collection system to capture both dry and wet weather flows. Flow monitoring results were used to calibrate a system-wide sewer flow model. The sewer flow model identified areas of the collection system with limited capacity. The risk-reliability based evaluation of the treatment facilities identified key processes and equipment in



need of replacement or repair. Capital improvement projects were ranked based on risk and consequence of asset failure. The District now has a prioritized CIP in place that systematically addresses those areas of the collection system and treatment facilities that have the highest consequence and probability of failure.

Pasadena Sewer Master Plan Update and Condition Assessment

Client: City of Pasadena

Key Dudek Staff: Elizabeth Caliva, Russ Bergholz, Hanna Dodd, Ian Crano

Project Manager: Jon Ramey, 626.744.3832, jramey@cityofpasadena.net

The City of Pasadena had last completed a sewer master plan over 10-years prior and experienced a significant change in public works staff over the years. The City was in need of a full evaluation of the 700-mile sewer collection systems condition, operational issues, capacity analysis and rehabilitant needs. Dudek proposed a comprehensive evaluation of hydraulic capacity through updated flow monitoring and hydraulic modeling, as well as condition assessment and identification of improvements needed for system operation and reliability.

As the City is 99% built out and historically has not experienced significant capacity issues, Dudek proposed to focus efforts on identifying rehabilitation needs, quantifying specific repair methods, grouping improvement by region, and most importantly, applying prioritization of recommended improvements to address the most critical issues first. Taking a system wide perspective and focusing on key improvement areas that mitigate high risk, City staff will have confidence that the collection system will continue to operate and be maintained cost effectively.

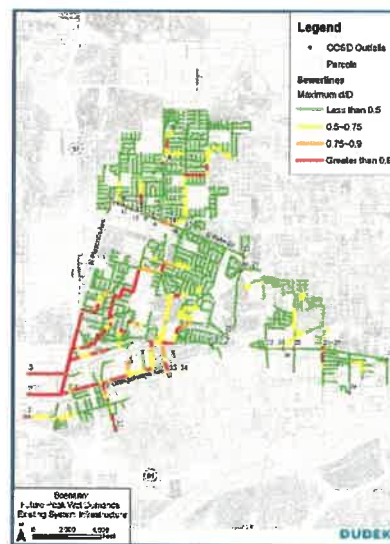
Placentia Sanitary Sewer Master Plan Update

Client: City of Placentia

Key Dudek Staff: Elizabeth Caliva, Russ Bergholz, Hanna Dodd

Project Manager: Luis Estevez, Director of Public Works, 7147.993.8120, lestevez@placentia.org

The City of Placentia requested a condition assessment of approximately 20% of its collection system while concurrently preparing the system wide sewer master plan update. The condition assessment work included review of approximately 30 miles of pipeline and identification of \$1.5M in needed rehabilitation work, primarily consisting of CIPP lining of aging sewer pipelines. The sewer master plan work included creation, flow loading (using flow monitoring), calibration and capacity analysis of a brand new sewer hydraulic model. The collection system, which is comprised for 44 separate sewer sheds and contains interties with other agencies, was modeled in InfoSewer to check for capacity deficiencies and improvements associated with the redevelopment of the City's TOD zone. Collection system modeling revealed nearly \$13M in necessary capacity improvements to accommodate the influx of redevelopment. The completion of rehabilitation through CIPP will revive and reset the useful life of the infrastructure, reducing risks associated with failures. The identification of redevelopment-triggered capacity projects through master planning will provide the City with necessary justification for collecting revenue through a combination of sewer service and redevelopment fees.



As Needed Hydraulic Modeling

Client: City of Vista

Client Reference: Elmer Alex, Principal Engineer, 760.726.1340

Dudek provided as-needed hydraulic modeling services to the City in response to the City's need to update their sewer model. Following Dudek's preparation of the City of Vista Sewer and Storm Drain Master Plans in 2009, we have continued to assist the City with the evaluation of new development impacts, potential impacts of large-scale land use changes, and several inter-agency hydraulic capacity and expansion projects between the City of Vista, City of Carlsbad and City of Oceanside.

As-Needed Hydraulic Modeling

Client: Irvine Ranch Water District

Client Reference: Eric Akiyoshi, Principal Engineer, 949.453.5300

Dudek continues to provide as-needed computerized hydraulic modeling for the Districts water, recycled water, and wastewater system. Tasks also included database and GIS development, model calibration, results analysis, report preparation and coordination with water District staff. Most recent studies include the St. Michael's Abby development impact to the water distribution system, Silverado Canyon Fire Flow Analysis, peer review of the Michelson Water Recycling Plant biosolids and energy recovery facilities odor control systems, and the San Diego Creek (sewer) Interceptor Risk Evaluation and Alternative Analysis.

VWRA Experience

Dudek has direct experience with the Authority's processes and procedures. Through our engineering planning and design services we have become familiar with the Authority's processes and procedures. This allows the Dudek team to hit the ground running, eliminating any delay or disruption to the projects. Below is a comprehensive list of experience with VWRA

Table 2. VWRA Project Experience

Project Name and Description

C101 Hesperia Pre-Conversion Recycled Water Study

The City of Hesperia was in need of supplementing water demands with recycled water for city parks, schools and golf course. Hired by VWRA, the local recycled water supplier, **Dudek** prepared a pre-conversion study to understand the level of effort, costs, and conversation requirements for both the City and VWRA. The detailed pre-conversion study provided both the City and VWRA with a thorough plan, with cost information and schedule to coordinate the conversion process.

Oro Grande Pipeline, Ossum Wash Interceptor Rehabilitation, and Oro Grande Lift Station Rehabilitation

VWRA contracted with **Dudek** to provide engineering design services for three projects:

The Ossum Wash Interceptor Replacement Project protects a 36-inch diameter VCP and a 42-inch diameter RCP pipeline from exposure to flood flows in Ossum Wash by installing a structural, cured-in-place liner to provide additional strength.

The Oro Grande Pipeline will replace an existing pair of aging 8-inch diameter gravity sewers flowing westerly under the Mojave River to the Authority's Oro Grande Lift Station with a new 8-inch pipeline installed using microtunneling.

Oro Grande Lift Station, had experienced increasing problems with clogged pumps from rags and other fibrous materials wrapping around the pump impellers causing stoppage and triggering alarms, which required manual cleaning. Dudek recommended replacement of the existing pumps with chopper pumps, which has successfully alleviated the ragging and maintenance issues.

In House Resources

Engineering and hydrogeological software applications include computer modeling and analysis of groundwater basins, solute transport, hydrogeology, flood routing, open channel hydraulics, closed circuit hydraulics and network analysis, surge analysis, and culvert design. Our computer-aided design (CAD) and geographic information system (GIS) departments use the latest Quad-Core Xeon workstations with visualization-grade NVIDIA graphics cards, running Windows 7 Enterprise operating systems, ESRI and Autodesk GIS software, Autodesk and MicroStation CAD software, and engineering design, including production of civil plan and profile drawings.

Relevant programs currently used in-house include:

- 3ds Max 2012 (3D graphics and animation)
- AES HydroSoft (modeling)
- AutoCAD 2014 (CAD)
- Autodesk Map 3D 2014 (GIS)
- Autodesk Civil 3D 2014 (CAD)
- Bentley MicroStation V8 (CAD)
- Cybernet (hydraulic network analysis)
- ESRI ArcGIS 3D Analyst
- ESRI ArcGIS Desktop 10.2.2 (GIS)
- ESRI ArcGIS Geostatistical Analyst (GIS)
- ESRI ArcGIS Network Analyst (GIS)
- ESRI ArcGIS Server 10.2.2 (GIS)
- ESRI ArcGIS Spatial Analyst (GIS)
- ESRI ArcSDE (Spatial Database Engine) 10.0 SP5 (GIS)
- ESRI ArcView 10.0 SP4 (GIS)
- Google Earth Pro (mapping)
- GPR-SLICE v7.0 (geospatial modeling)
- HEC-1 and HEC-HMS (hydrology)
- HEC-2 and HEC-RAS (hydraulics)
- HEC-6 (sediment transport)
- Hydra 6.4 (hydraulic network analysis)
- MT3D (groundwater modeling)
- MODFLOW (groundwater modeling)
- SURGE 5.0 (hydraulic surge analysis)
- WMS (water modeling)
- WSPG (modeling)

Ability to Draw Upon Multi-Discipline Staff

With more than 450 employees, we are one of the region's leading mid-sized engineering, construction management, and environmental firms. Our structure allows us to be nimble problem solvers with project managers who stay involved in clients' projects from start to finish, while offering depth and variety of service. Dudek has the flexibility and responsiveness necessary to adapt to ever-changing engineering processes and, while working with the City, help ensure that your work proceeds smoothly. Our in-house team includes:

- Licensed professional engineers
- AICP-certified environmental planners
- CDFG and USFWS certified biologists
- Registered professional archaeologists
- Noise and air quality specialists
- Registered landscape architects
- Certified arborists and foresters
- Professional foresters
- Certified GIS professionals
- Accredited LEED professionals
- Certified hydrogeologists
- Licensed geologists
- Registered environmental assessors
- Licensed contractors

Method to Accomplish Work

The following section provides an overview of the project goals and objectives, approach to major tasks of the project, establishment of assumptions and description of deliverables.

Goals and Objectives

The goal of this project is to develop a hydraulic model and sufficient data for use in developing cost of service scenarios relative to the allocation of flows amongst the four member agencies that would result in a new financial model and rate study, which the Authority would like to be in effect on July 1, 2019.

The objectives of the project include:

1. Develop a hydraulic model for the Interceptor system, calibrated to latest metered flow data.
2. Update the model based on both latest and planned improvements.
3. Determine the flow in the Interceptor system, by reach and by member agency, for ADWF, PDWF, and PWWF. (to be completed by October 31, 2018)
4. Support VVWRA in generation of a rate model assessing fiscal responsibility of pipeline segments according to various use/capacity scenarios.
5. Determine the capacity of the VVWRA pump stations and areas where Interceptor capacity can be increased with minimal capital investment.
6. Evaluate ongoing operation and maintenance (O&M) activities to determine if they are impacting system capacity and are conforming to with state regulations.
7. Present study findings to the Engineering and Finance Committees and Board of Commissioners.

Task 1: Data Collection and Review

This task consists of collecting and reviewing relevant data provide by the Authority for this project. Data to be provided will include, but not be limited to, previously completely master plans, as-built plans for interceptor improvements for the last 10 years since the prior hydraulic model was created, existing GIS for the interceptor (as relevant per the 2008 master plan), ADS flow monitoring data from each member agency since 2014 and all other pertinent information. Dudek will compile a request for information not already provided during the proposal process and submit it prior to the kick off meeting.

Flow monitoring data will be reviewed and analyzed in preparation for hydraulic model calibration. ADWF, PDWF, PWWF and diurnal curves will be calculated for each of the 23 interceptor member agency input locations.

Assumptions for this task include:

- Existing interceptor GIS from 2008 is complete with accurate pipe alignments, diameters, slope, length, connectivity, inverts, surface elevations and pump and forcemain characteristics.
- ADS flow metering data will be at minimum hourly and provided for every location where flow from member entities enters the interceptor system (23 locations assumed).

Task 2: Hydraulic Model Update and Calibration

The Authority's existing Interceptor GIS will be converted into the Innovyze® InfoSewer hydraulic

modeling software. It is assumed that post-conversion troubleshooting will indicate that no additional information is needed for a functioning system. Once confirmed, infrastructure for improvements since the 2008 model will be updated into the model.

Once the model has been updated with existing system improvements, the model will be calibrated for ADWF, PDWF and PWWF within 10% of field data using the ADS flow meter provided in Task 1. Once calibrated, known future system improvements will be input into the model. Troubleshooting will confirm a fully functioning model.

Assumptions for this task include:

- Complete as-built data is available for all improvements since the 2008 model.
- Seven (7) improvement projects assumed plus minor modifications for the fee estimate, including the Tao Road manhole replacements, manhole replacement and lining, Shay Road junction structure rehabilitation, WAS line from AVWRP, removal of manhole on Highway 18 and replacement with a wye. No other improvements were accounted for.
- For known future system improvements (i.e. replacement of Oro Grande Interceptor, Victorville Pump Station transfer of ownership, pipeline diameter increases, Ossum Wash interceptor lining and abandoning of Adelanto Interceptor) it is assumed that all necessary information will be made available by the Authority. 4 labor hours is assumed for research, model input and validation of model operation for each future system improvement.

Task 3: Capacity Analysis

With a fully updated and calibrated model, three hydraulic scenarios will be analyzed: ADWF, PDWF and PWWF. Reach-by-reach output tables will be generated that present the portion of flow contributed by each member agency for each of the three hydraulic scenarios. Remaining capacity in each reach will also

be calculated. Results of this analysis will be included in the 50% report submittal.

This analysis will be conducted by running the model with each member agency's flow independently during each scenario (ADWF, PDWF, PWWF). Flow for each scenario, for each member agency, will be combined in a table displaying the percentage of the total flow for each reach of pipe.

Assumptions for this task include:

- There are large portions of the Interceptor system that only serve one member agency. For example the North Apple Valley interceptor only serves Apple Valley. Therefore the analysis of shared flows will only include Interceptor segments where more than one member agency conveys flow through the segment, estimated at approximately 1/3rd of total length of the system.

Task 4: Pump Station Capacity Analysis

A desktop pump station capacity analysis of Authority-provided data will be performed for the four Authority pump stations. This task does not include a physical inspection of facilities.

Assumptions for this task include:

- The analysis will compare pump capacity with modeled peak hour flows. The assumption for this analysis will show that in some stations, pump size exceeds necessary capacity. Analysis is limited to consideration of pumping rates, pump operation type (VFD vs. constant rate), wet-well storage volumes and modeled flows.

Task 5: Capacity and O&M Improvement Evaluation

Capacity of the Interceptor system will be evaluated to identify if areas may exist to increase capacity with minimal capital investment. Ongoing operation and maintenance (O&M) activities will be evaluated to determine if they are impacting capacity of the collection system and are in conformance with state regulations. The focus of this task will be related to supporting the upcoming SSMP update. Results of these evaluations will be included in the 75% report submittal.

Assumptions for this task include:

- The Authority will define “minimal capital investment” and potential improvement projects will be evaluated against this threshold.
- The Authority will provide a list of ongoing O&M activities and a brief desktop assessment (8 hours maximum) to evaluate activities against capacity impacts will be performed.

Task 6: Report

A 50% submittal will be provided to the Authority with the results of the Interceptor Capacity Analysis (Task 3). A 75% submittal will be provided that also includes the results of the pump station capacity analysis (Task 4) and the capacity and O&M evaluation (Task 5). Authority comments will be incorporated into the final report.

Deliverables: 50%, 75% and final versions of the Interceptor Capacity Study report in electronic format.

Task 7: Project Management and Meetings

Dudek’s project manager and project engineer will be responsible for leading and implementing scope of work assignments in accordance with the project budget and schedule.

Meetings. The project kick-off meeting is a key component of all Dudek projects. We will use this meeting to begin the communication process with the VVWRA, as well as to define the schedule, budget and other project parameters. Project status meetings will be held monthly to report to VVWRA staff on progress versus the project schedule, to discuss potential project challenges, and to address any pressing project issues. It is assumed that Status Meetings (4 assumed) will be held via conference call. In addition, it is assumed Dudek will attend eight (8) meetings to present the findings of the study to the Engineering and Finance Committees and the Board of Commissioners.

Quality Control and Quality Assurance. Our Project Manager will also be responsible with Quality Assurance and monitoring the completion of quality control reviews. The quality control review for specific project elements will be delegated to senior staff with expertise in those elements.

Schedule. Our project manager will be responsible for managing the tight schedule for this project.

Deliverables: Meeting agenda, meeting minutes, schedule updates, progress reports, invoices, presentation materials.

Victor Valley Wastewater Reclamation Authority



Financial and Cash Report

August 2018

Victor Valley Wastewater Reclamation Authority
CASH AND RESERVE SUMMARY
 August 29, 2018

G/L Account	Description	Balance
1000	DCB Checking Account	\$ 1,112,300
1030	DCB Sweep Account	872,729
1075	Cal TRUST	6,121,215
1070	LAIF	1,548,060
	Total Cash	\$ 9,654,304

\$65 mil Max

Reserves:	Current Balance	Restricted	Assigned	Not Assigned
Targeted Capital Reserve	\$ -	\$ -	\$ -	\$ -
O&M Reserve: 10% of Prior Year Budgeted Operating Expenses	1,081,523		1,081,523	
R&R Reserve: 1% of Land Improvements/Plants/Interceptors PY CAFR	1,670,006		1,670,006	
Reserve for SRF Payments (P& I) - Operating	2,843,784	2,843,784		
Reserve for SRF Payments (P& I) - Capital	2,439,893	2,439,893		
Available for O&M	1,619,098			
Total Cash	\$ 9,654,304	\$ 5,283,677	\$ 2,751,529	\$ -

Note 1: ACCUMULATION FOR SRF LOAN PAYMENTS:

	9.5 MGD, 11.0 MGD, NAVI, Phase III-A	Upper Narrows Replacement	Nanticoke Bypass	Sub-Regional Apple Valley	Sub-Regional Hesperia	Total
Reserve for SRF Payments (P& I) - Operating	\$ 782,104	257,745	202,665	640,818	960,452	\$ 2,843,784
Reserve for SRF Payments (P& I) - Capital	1,348,576	-	67,555	409,703	614,059	2,439,893
	\$ 2,130,680	257,745	270,220	1,050,521	1,574,511	\$ 5,283,677

Note 2: PROJECTS AND FUNDING:

a. Construction and Change Orders for Sub-Regional Plants	Bureau of Reclamation - Title 16 Grant	Dept. of Water Resources - Proposition 84 Grant	SWRCB SRF Loan - Hesperia	SWRCB SRF Loan - Apple Valley	SWRCB - Proposition One Grant - A.V.	SWRCB - Water Recycling Prop 13 Grant - A.V.	Total
Completion (or Termination) Dates	05/31/16	12/31/17	06/30/17	06/30/17	06/30/17	03/31/17	
Agreement Amounts	\$ 3,259,517	\$ 3,000,000	\$ 35,442,795	\$ 22,537,632	\$ 8,135,648	\$ 4,000,000	\$ 76,375,592
Claimed	(3,259,517)	(3,000,000)	(32,144,691)	(21,470,921)	(7,915,494)	(3,992,567)	(71,783,190)
Grant and Loan Balance Remaining	\$ -	\$ -	\$ 3,298,104	\$ 1,066,711	\$ 220,154	\$ 7,433	\$ 4,592,402

b. Planning and Design for Sub-Regional Plants	Bureau of Reclamation - Title 16 Grant	Dept. of Water Resources - Proposition 84 Grant	SWRCB SRF Loan - Hesperia	SWRCB SRF Loan - Apple Valley	SWRCB - Proposition One Grant - A.V.	SWRCB - Water Recycling Prop 13 Grant - A.V.	Total
Completion (or Termination) Dates	05/31/16	not applicable	06/30/17	06/30/17	06/30/17	not applicable	
Agreement Amounts	\$ 1,607,477	\$ -	\$ 5,107,160	\$ 4,535,127	\$ 1,046,193	\$ -	\$ 12,295,957
Claimed	(1,607,477)	-	(5,107,160)	(4,535,127)	(1,046,193)	-	(12,295,957)
Grant and Loan Balance Remaining	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

c. Upper Narrows Emergency

*FEMA/Cal OES PW 1136 Revised Grant Limit - Completion 12/27/15	\$	7,954,740	
Eligible Cost Incurred 12/26/10 - 11/06/16		(7,750,326)	
Grant Balance Remaining	\$	204,414	
Funding Received or To Be Received:			
FEMA (Claims x .90 x .7500)	\$ 5,231,470		
Cal OES (Claims x .90 x .1875)	1,307,868	6,539,338	
VVWRA Share:			
VVWRA (Claims x .0625)	484,395	484,395	
10% Retention to Be Received upon Completion:			
(Claim - VVWRA portion) x .10	726,593	726,593	
	\$	7,750,326	

d. Upper Narrows Replacement

*FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15	\$	33,124,002	
Eligible Costs Incurred 04/01/11 - 08/31/16		(33,124,002)	
Grant Balance Remaining	\$	-	
Funding Received or Expected to Receive:			
FEMA (Claims x .90 x .7500)	\$ 22,358,701		
Cal OES (Claims x .90 x .1875)	5,589,675	27,948,377	
VVWRA Share:			
VVWRA (Claims x .0625)	2,070,250	2,070,250	
10% Retention to Be Received upon Completion:			
(Claim - VVWRA portion) x .10	3,105,375	3,105,375	
	\$	33,124,002	

*** SRF Loan**

	Incurred	Claimed	Remaining
Construction	1,655,130	(1,655,130)	-
Change Orders	1,825,000	(1,825,000)	-
Soft Costs	806,250	(806,250)	-
	4,286,380	(4,286,380)	-

Victor Valley Wastewater Reclamation Authority
Flow Study
For the Month Ended July 31, 2018

Measured by ADS	Percentage of Total %	July Monthly MG
VSD 1 (less North Apple Valley)	5.5782%	19.8460
VSD 2	14.3155%	50.9310
VSD 3	25.7418%	91.5830
VSD 4	7.2771%	25.8900
VSD 5	0.5563%	1.9790
VSD 6	6.2570%	22.2610
VSD Total	59.7259%	212.4900
Apple Valley 01	10.4676%	37.2410
Apple Valley 02	5.7297%	20.3850
Apple Valley North	0.1057%	0.3760
Apple Total	16.3030%	58.0020
Hesperia	18.6983%	66.5240
CSA 64 SVL	4.6212%	16.4410
CSA 42 Oro Grande	0.6517%	2.3180
CSA Total	5.2729%	18.7590
Total Apportioned Flow	100.0000%	355.7750
Mojave Narrows Regional Park		0.1000
Total Study Flow		355.8750

Victor Valley Wastewater Reclamation Authority
Statement of Net Position
August 31, 2018

<i>Assets and Deferred Outflows of Resources</i>	2018
Current assets:	
Cash and cash equivalents	\$ 10,043,361
Interest receivable	5,914
Accounts receivable	4,576,266
Receivable from FEMA Grants	4,040,946
Accounts receivable - Other	7,748
Allowance for Doubtful Accounts	(89,459)
Materials and supplies inventory	83,104
Prepaid expenses and other deposits	233,858
Total current assets	18,901,738
Fixed assets:	
Capital assets not being depreciated	2,941,421
Capital assets being depreciated	198,937,917
Total capital assets	201,879,338
Total assets	220,781,076
Deferred outflows of resources	
Deferred outflows of resources - pension	1,743,035
Total	\$ 222,524,111
<i>Liabilities, Deferred Inflows of Resources, and Net Position</i>	
Current liabilities:	
Accounts payable and accrued expenses	\$ 570,377
Accrued interest on long-term debt	64,084
Long-term liabilities - due within one year:	
Compensated absences	48,647
Loans payables	1,849,149
Other payables	(7,010)
Total current liabilities	2,525,247
Non-current liabilities:	
Long-term liabilities - due in more than one year:	
Compensated absences	239,372
Other post employment benefits payable	1,419,041
Loans payable	84,960,947
Net Pension Liability	5,011,624
Other payables	353,462
Total non-current liabilities:	91,984,446
Total liabilities	94,509,693
Deferred inflows of resources	
Deferred inflows of resources - pension	165,023
Net position:	
Net investment in capital assets	122,731,832
Restricted for SRF loan covenant	5,285,091
Unrestricted	1,187,793
Decrease in net position FY 19	(1,355,321)
Total net position	127,849,395
Total	\$ 222,524,111

Victor Valley Wastewater Reclamation Authority
Revenues and Expenses
Operations and Maintenance
For the Month Ended August 31, 2018

	Actual August 2018	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
User Charges	\$ 1,146,111	\$ 2,261,906	\$ 13,661,700
Sludge Flow Charge	7,199	15,232	120,000
High Strength Waste Surcharges	-	5,549	20,000
ADM FOG Tipping Fee Revenue	26,403	51,841	200,000
Septage Receiving Facility Charges	52,072	108,640	550,000
Reclaimed Water Sales	639	1,236	25,000
Potable Well Water Sales	51	102	-
Leased Property Income	50	100	-
Interest	120	240	-
Pretreatment Fees	3,400	9,000	50,000
Finance Charge	-	-	-
Grant - FEMA/Cal-EMA	-	-	-
Grant - Proposition 1	-	-	-
Grant- Water Recycling	-	-	-
Grant- CEC Microgrid	-	-	-
Sale of Assets, Scrap, & Misc Income	107	228	1,200
Total REVENUES	\$ 1,236,152	\$ 2,454,074	\$ 14,627,900
EXPENSES			
Personnel	\$ 467,481	\$ 966,733	\$ 4,080,784
Maintenance	167,615	224,389	2,194,767
Operations	189,192	392,023	3,151,072
Administrative	56,107	168,907	2,183,749
Construction	-	-	-
Total EXPENSES	\$ 880,395	\$ 1,752,052	\$ 11,610,372
Revenues over Expenses before Depreciation, Debt Service and Transfers	\$ 355,757	\$ 702,022	\$ 3,017,528
Depreciation Expense	(1,406,099)	(2,079,643)	-
FEMA CalOES Retention	-	-	747,034
DEBT SERVICE			
SRF Principal	-	-	2,094,805
SRF Interest	-	-	762,842
	-	-	2,857,647
FUND TRANSFERS IN			
Salary/Benefits Charge from Capital	\$ 8,930	\$ 17,859	-
Admin Charge from Capital	3,393	6,787	-
Total FUND TRANSFERS IN	\$ 12,323	\$ 24,646	\$ -
FUND TRANSFERS OUT			
Transfer to Repairs and Replacements Fund	-	-	2,749,326
Inter-fund loan payment to Capital	-	-	-
Total FUND TRANSFERS OUT	\$ -	\$ -	\$ 2,749,326
Excess Revenues Over Expenses	\$ (1,038,019)	\$ (1,352,975)	\$ (1,842,411)

Victor Valley Wastewater Reclamation Authority
 Revenues and Expenditures
Repairs and Replacement
 For the Month Ended August 31, 2018

	Actual August 2018	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
R&R Revenues	\$ -	\$ -	\$ -
Total REVENUES	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
OTHER FINANCING SOURCES			
SRF Loan Funding	\$ -	\$ -	\$ -
CAPITAL EXPENSES			
Personnel	\$ -	\$ -	\$ -
Maintenance	42,163	42,163	1,204,326
Operations	-	-	25,000
Administrative	-	1,800	150,000
Construction	-	9,450	1,370,000
Total CAPITAL EXPENSES	<u>\$ 42,163</u>	<u>\$ 53,413</u>	<u>\$ 2,749,326</u>
Revenues over Expenses before Debt Service and Transfers	<u>\$ (42,163)</u>	<u>\$ (53,413)</u>	<u>\$ (2,749,326)</u>
FUND TRANSFERS IN			
Transfer from Operations and Maintenance Fund	\$ -	\$ -	\$ 2,749,326
Interfund Loan Payment from O&M	-	-	-
Total FUND TRANSFERS IN	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,749,326</u>
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ -	\$ -	\$ -
Admin Charge to O & M	-	-	-
Total FUND TRANSFERS OUT	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Excess Revenues Over Expenses	<u>\$ (42,163)</u>	<u>\$ (53,413)</u>	<u>\$ -</u>

Accrual Basis

Victor Valley Wastewater Reclamation Authority
Revenues and Expenditures
CAPITAL
For the Month Ended August 31, 2018

	Actual August 2018	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
Connection Fees	\$ 51,400	\$ 51,400	\$ 2,000,000
Title 16 Grant - Subregional	-	-	-
Grant- Water Recycling	-	-	-
Sale of Assets, Scrap, & Misc Income	-	-	-
Interest	23,046	32,656	35,000
Proposition 1 Grant	-	-	-
Proposition 84 Grant	-	-	-
FMV Adjustment	-	2,886	-
CEC Microgrid Grant	-	-	-
Grant - FEMA/Cal-EMA	-	-	3,105,375
Total REVENUES	\$ 74,446	\$ 86,942	\$ 5,140,375
CAPITAL EXPENSES			
Personnel	\$ -	-	\$ 378,554
Maintenance	-	-	-
Operations	-	-	170
Administrative	-	(2,054)	-
Construction	-	13,283	430,000
Total CAPITAL EXPENSES	\$ -	\$ 11,229	\$ 808,724
Revenues over Expenses before Debt Service and Transfers	\$ 74,446	\$ 75,713	\$ 4,331,651
DEBT SERVICE			
SRF Principal	\$ -	-	\$ 2,002,675
SRF Interest	-	-	437,219
	\$ -	\$ -	\$ 2,439,894
FUND TRANSFERS IN			
Capital Recovery - Septage from O&M	\$ -	-	-
Interfund Loan Payment from O&M	-	-	-
Total FUND TRANSFERS IN	\$ -	\$ -	\$ -
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ 8,930	\$ 17,859	\$ -
Admin Charge to O & M	3,393	6,787	-
Total FUND TRANSFERS OUT	\$ 12,323	\$ 24,646	\$ -
Excess Revenues Over Expenses	\$ 62,123	\$ 51,067	\$ 1,891,757

Accrual Basis

Victor Valley Wastewater Reclamation Authority



Operations and Maintenance Report

August 2018

VWRA O&M Monthly Report – August 2018

Page 1 of 10

**Victor Valley Wastewater Reclamation Authority
Operations and Maintenance Report
August 2018**

TO: Logan Olds, General Manager
FROM: Operations & Maintenance Staff
SUBJECT: OPERATIONS/MAINTENANCE REPORT

DATE: September , 2018

The following information details the operation of the Victor Valley Wastewater Reclamation Authority Facility. Included in this report is pertinent information regarding flows, process control information, process sampling, permit requirements, operations activities, and facility maintenance activities. This report is based on O&M activities for August 2018.

	Total	Average
Effluent to Mojave	90.61	2.92
Effluent to Ponds	246.55	7.95
		Limit
Biochemical Oxygen Demand (BOD) Effluent to Mojave	<3.9	10 mg/l
Percent Removal	>98.89%	
		Limit
Total Suspended Solids (TSS) Effluent to Mojave	<2.1	10 mg/l
Percent Removal	>99.40%	
		Limit
Turbidity 30 Day Average	0.38	2.0 ntu

Major Operations Activities

Headworks

The Headworks area operated as intended throughout the months with normal equipment maintenance performed on a weekly basis.

Primary Treatment

Overall removal efficiency of the primary clarifiers was 54.49% removal of influent BOD and 75.23% removal of TSS. Typical operating parameters are 25 to 35 percent removal of BOD and 50 to 60 percent removal of TSS. The primary sludge concentration averaged 2.35% total solids at 67,056.5 gallons per day.

Primary clarifiers: #1, #2, #3, #5, #6 #7, #8 are currently online and continue to treat all incoming flow. Primaries #1 remained offline for the month. With one clarifier off line, the remaining 7 primary clarifiers are capable of treating peak flows up to 27 MGD.

The digester gas conditioning system remains online. The system will prevent premature wear and tear on engines #2 & #3 by removing siloxanes by the addition of ferric chloride. The system increases fuel pressure to the blower gas system, allowing for more output from the blower engine. Digester #4 and 5 gas is mixed and sent to the gas conditioning system. This all but eliminates the use of Natural gas to run engines #2 and #3.

Staff continues to add ADM/ Grease to Daft #3 from Primaries and truck deliveries where it is then feed it to Digesters #4 and #5. This operation is assisting in additional grease removal from the primary clarifiers and increased gas production in the anaerobic digesters.

Secondary Process

Secondary Clarifiers #1 thru #6 are currently offline, not needed at this time.

Aeration basins #1 thru 12 have been retrofitted with the new Aquarius diffusers and are currently performing very well reducing the RPM's on the Piller blower. Currently basins #1-6 and 7-12 are online.

Waukesha Blowers #2 and #3 were rotated throughout the month supplying air to basins #1-6, mixed liquor channel and aerated grit chamber. Piller #6 is supplying air to AB's #7-12.

Staff continues to monitor the solids under aeration and SVI to compare against the SRT Master Control Program. The SRT Master program is performing well. The secondary process has been performing well as a result of the SRT Master Control Program. Weekly Nitrogen studies performed by VVWRA staff produced results below regulatory requirements.

Thioguard was not used during the month.

Secondary turbidity averaged 1.16 (NTU) during the month of August 2018
The 30 minute settleometer test averaged 118.9 ml/L.
The average "pop time" of the MLSS was >90 min.

Percolation Ponds

South percolation ponds #8,#11, #12 and #13 were used and rotated during the month. Percolation Ponds #7 and #10 are offline in preparation for maintenance. All Percolation Pond freeboard level requirements have been met during the month. All ponds are being rotated on a daily basis. Percolation Pond #6 remains off line and drained to minimal levels. No flow seepage has been observed. The north percolation ponds were used sparingly during the month.

Tertiary Filters

Aqua Diamond Filters #1 and #2 were utilized for the month of August. Filter Effluent average Turbidity of 0.56 NTU.

Solids

Digester #1 was drained on 8/19/16 and is offline. Digester #2 and #3 remain offline, drained and clean.

Staff has been operating Digester #4 and #5 at predetermined sludge levels which is controlled by the SCADA system.

VVWRA received 656,629 gallons of ADM (Anaerobically Digestible Material) and FOG (Fats Oil and Grease). Total is comprised of 567,160 gallons of ADM and 89,469 gallons of FOG.

A Total 24,606,875cf/day of gas was created by digesters #4 and 5 for the month of August 2018. That is an average gas production of 793,770cf/day.

Digester #4 averaged 388,664cf/day.

Digester #5 averaged 405,106cf/day.

Digester Volatile Acid/Alkalinity averaged 0.019 for the month.

Ultra Violet Disinfection (UV)

The UV system is currently operating via one channel mode.

Monthly UV intensity probe and flow meter calibration checks were performed.

Permit Continuous Monitoring Requirements and Permit Violations

All permit required, continuous monitoring equipment was on-line, in calibration and working properly during the month.

Date of last reportable incident: March 10, 2015

Days since last reportable incident: 1,270 days

Discharge Sampling

All required samples during the month of August 2018 were collected and processed as scheduled.

Miscellaneous

Maintenance Activities

CMMS Work Order Activity

VVWRA O&M Monthly Report – August 2018

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VVWRA KPI Report8/6/2018
12:44 PM

8/1/2018 - 8/31/2018

KPI	Count	Percent
Planned Work Total	353	
Planned Work Completed	320	90.65%
Planned Work Completed On-Time	242	68.56%
Planned Work Incomplete	33	9.35%
Planned Work Completed Late	79	22.38%
Total Work Completed	616	
Reactive Work Completed	109	17.69%
PM Work Completed	440	71.43%

Safety

1. Monthly Vehicle Safety Inspections completed.
2. Monthly gas tech monitor inspections completed.
3. Eyewash safety showers inspected.
4. Confine Space refresher
5. Monthly SCBA inspections.
6. Hazardous storage area inspection.
7. Spill kit inspections.
8. Fall protection refresher.

Preliminary Process

1. Aqua Guard pre-treatment screen inspected and serviced.
2. Headwork's Conveyor Belt Lube & Inspect.

 VVWRA O&M Monthly Report – August 2018

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3. Grit classifier monthly lube.

Primary Process

1. All PH and conductivity probes cleaned and calibrated.
2. Influent PH and conductivity probe calibrations complete.
3. Primary #2 Replaced helical skimmer rubber.
4. Primary #3 Replaced helical skimmer rubber.
5. Primary #2 Shear pin replacement.
6. Primary #4 Replaced 6 inch drain valve.
7. EQ #1 Aerator motor replacement.

Secondary Process

1. Piller blowers 1 & 6 weekly inspections complete.
2. Service Air compressors inspection and service completed.
3. Waukesha engines inspections.
4. Piller #1 and #6 Filters Replacement.
5. Aeration basin 1 anoxic mixer guiderail replacement.
6. Aeration basin 1 Mud valve repair.

Tertiary

1. Monthly gear box and platform drive wheel service complete
2. Filter #1 & #2 monthly platform gear box PM's comp.
3. Annual Service Water Pump Motors Lubrication
4. South pond #12 MOV electrical conduit replacement.
5. Filter #1 & #2 monthly backwash wasting pumps oil checks complete
6. All PH and conductivity probes cleaned and calibrated.

Ultra Violet Disinfection (UV)

1. PH and conductivity probes cleaned and calibrated
2. UVT probe calibrated
3. UV Compliance sample pumps foot valve cleaning.

Treatment Disposal

1. DAFT #1 and #2 Air Compressors 1&2 PM services complete.
2. Scum Pump #1 replacement.
3. Drying bed 4 repairs ongoing.
4. DAFT #3 TPS pump replacement.
5. Drying bed 1 repairs.
6. Digester 1-3 on going repairs.
7. Digester exhaust fan system serviced.

Miscellaneous Plant

1. Serviced Air Handling units for Blower Buildings completed.

Plant Equipment**G/CHP 1&2**

1. Monthly UREA refill completed CHP #1 & #2
2. CHP1&2 differential pressure readings taken within normal range, Gas DP pressure collected within normal range
3. Monthly gas samples collected.
4. Completed Source testing on the CHP engines.

Gas Conditioning Skid

1. One H₂S vessel media replacement.
2. One Siloxane vessel media replacement.

VVWRA O&M Monthly Report – August 2018

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3. Monthly gas sampling collected.

OGPS

- 1.** Monthly Generator Test completed
- 2.** Pump #2 pulled and inspected and drag.

AVPS OTOE

1. Grease pump out.
2. Monthly Generator test completed.
3. Pump#2 de-ragged.

OFFROAD EQUIPMENT

1. Brown Bear weekly PM's completed.
2. JCB front loader weekly PM's complete.
3. JCB axel repair.

AVWRP

1. Potable Water line repair.

FLEET

1. Monthly fleet inspections completed pumps, vehicles, hose reel trailer, light towers.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department Report

August 2018

VWRA Environmental Compliance Department
Industrial Pretreatment Program

I. Interceptors Operation and Maintenance:

1. Interceptors cleaning & CCTV:

- ✓ No cleaning or CCTV was performed in August 2018

2. Interceptors Inspections:

The following interceptors were visually inspected for signs of damage, vandalism and evidence of sanitary sewer overflows:

- ✓ South Apple Valley & North Apple Valley.
- ✓ Schedule 1, 2, 3 & 4
- ✓ UNE Bypass HDPE pipe
- ✓ Hesperia, I Ave and Santa Fe.
- ✓ CSA 64
- ✓ Adelanto
- ✓ SCLA1

3. Damage and repair summary:

- ✓ North Apple Valley MH#42B was found damaged from an apparent car accident, it was repaired.

4. Sanitary sewer overflows (SSO) summary:

- ✓ Date of last reportable SSO: June 30th, 2018

5. Interceptors maintenance budget remaining:

- ✓ The fiscal year 2018-2019 Interceptor sewer maintenance amount remaining for sewer cleaning and inspection services is \$89500

6. Dig Alert Underground tickets processed:

- ✓ A total of One Hundred and Six (106) USA Tickets were received and processed in August 2018.

7. Flow monitoring Studies:

- ✓ A flow monitoring study by ADS Environmental is continuing.

II. Industrial pretreatment Activities:

1. **New Business Questionnaires and permits applications evaluated:**
 - ✓ Eleven (11) New Business Questionnaires were processed in the month of August 2018.
 - ✓ One (1) New Business Inspection was conducted in the month of August 2018.
2. **New permits issued:**
 - ✓ One (1) New permits were issued in the month of August 2018.
3. **Permit renewals issued:**
 - ✓ Thirteen (13) Class III permit renewals were issued in the month of August 2018.
4. **Work Orders:**
 - ✓ 54 Work Orders were completed in August 2018
5. **Monthly revenues collected, and invoices issued:**
 - ✓ Revenues: \$4,000.00
 - ✓ Invoiced: \$3,800.00

III. Industrial Pretreatment Activities (continued)

1. Current enforcement actions:

- ✓ Zero (0) Notice of Violation was issued in August 2018.

2. Current active industrial pretreatment permits:

- ✓ The current number of VVWRA’s industrial wastewater discharge permits is 429, they are comprised as follows:

1	Class I	Categorical Industrial User
11	Class II	Non-Categorical Significant Industrial User
404	Class III	Non-Significant Industrial User
2	Class IV	Zero Discharge Industrial User
11	Class V	Sanitary Waste Haulers

- ✓ The permitted establishments include:

17	Automotive Service Facility
13	Bakery
1	Brewery/Winery
21	Car Wash/Truck Wash/Bus Wash
3	Coffee Shop
9	Dry Cleaner
296	FSE
22	Grocery Store
3	Hospital
3	Misc. Food
3	Misc. Industrial
3	Other
1	Photographic
1	Print Shop
1	Prison
3	School
4	Water Retail
11	Waste Haulers

- ✓ Permitted businesses are distributed among member entities as follows: 167 in Victorville, 113 in Apple Valley, 123 in Hesperia and 1 in Oro Grande.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department

Septage/FOG/ADM Monthly Report

August 2018

1. Septage/FOG/ADM receiving invoices and payments monthly report:

Payments and Invoices period: August 1st thru August 31st – Septage rate per Gallon: \$ 0.0936
FOG/ADM rate per Gallon: \$ 0.04

Receiving invoices

ID No	Septage Hauler	Invoice Date	Total Gallons	Invoice Amount
ABS000	Absolute Pumping	8/30/2018	35,994	\$3,369.04
ALP000	Alpha Omega Septic Service	8/30/2018	128,390	\$12,017.30
BUR000	Burns Septic	8/30/2018	156,000	\$14,601.60
HIT000	Hitt Plumbing	8/30/2018	3,435	\$321.52
HON001	Honest Johns Septic Service, Inc	8/30/2018	66,309	\$6,206.52
ROT001	T.R. Stewart Corp. dba Roto Rooter	8/30/2018	88,082	\$8,244.48
USA000	USA Septic	8/30/2018	103,400	\$9,678.24
ALP000	Alpha Omega Septic Service (Nutro)	8/30/2018	128,129	\$5,125.16
COW000	Co-West Commodities	8/30/2018	195,000	\$7,800.00
LIQ000	Liquid Environmental Solutions of CA	8/30/2018	0	\$0
SMC000	SMC Grease Specialist, Inc.	8/30/2018	333,500	\$13,340.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	8/30/2018	0	\$0
HIT000	Hitt Plumbing	8/30/2018	3,435	\$137.40
Grand Totals			1,124,674	\$80,841.26

Septage/FOG/ADM receiving payments:

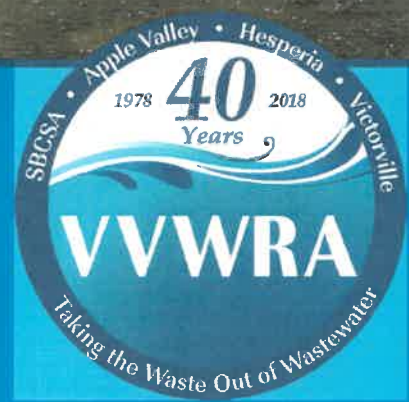
ID No	Business Name	Payments Received
ABS000	Absolute Pumping	\$4,073.75
ALP000	Alpha Omega Septic Service	\$11,158.43
BUR000	Burns Septic	\$18,720.00
HON001	Honest Johns Septic Service, Inc	\$7,327.38
ROT001	T.R. Stewart Corp. dba Roto Rooter	\$8,141.06
USA000	USA Septic	\$10,005.84
ALP000	Alpha Omega Septic Service (Nutro)	\$14,215.68
COW000	Co-West Commodities	\$7,120.00
LIQ000	Liquid Environmental Solutions of CA	\$0
SMC000	SMC Grease Specialist, Inc.	\$6,000.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	\$0
HIT000	Hitt Plumbing	\$961.80
Grand Total		\$89,974.55



Safety & Communications Report



Drying beds



August 2018



Safety

STAFF SAFETY TAILGATE/ORIENTATION

- August 2--Tool safety
- August 6--Workplace violence
- August 9--Public interaction
- August 16--Donning SCBA's
- August 23--cell phone distractions
- August 30--Workplace housekeeping





Safety

SAFETY EVENTS/ TRAINING

- Safety tailgates
- Confined Space Training
- Safety Committee

UNSAFE CONDITIONS REPORTED/RESOLVED

- new first aid kits at Subregionals
- Excess dog food removed
- new O and M sign

DATE OF LAST REPORTABLE ACCIDENT/INJURY:
MARCH 25, 2018

DAYS SINCE LAST REPORTABLE ACCIDENT/INJURY:
159 DAYS



Safety

NEXT MONTH'S SCHEDULE OF STAFF TRAINING/SAFETY EVENTS :

- Safety Tailgates will be conducted at the Thursday weekly staff briefings.
- Safety Tailgates will be conducted at the monthly Administrative staff meetings.
- Staff classes schedule for LOTO,

4

Communications

- Prepped for marking VWRA's 40th anniversary including adjustments to website, social media etc.
- Assisted Logan with presentation gfor national conference in Cleveland
- New Purple Pipe published





Communications

ACTIVITIES

- Maintained new website and social media sites including Facebook & Twitter.
- Led numerous Summer tours of the plant for foreign exchange students
- Set up and manned booth at the San Bernardino County Water conference in Ontario
- Helped organize and put on DAMS Air Pack Derby and Vedor Fair in Big Bear



ACCOLADES

- VWRA team of Marcos Avila and Brad Adams wins the 2018 Air Pack Derby in Big Bear. VWRA has won the competition 4 out of the last 5 years.

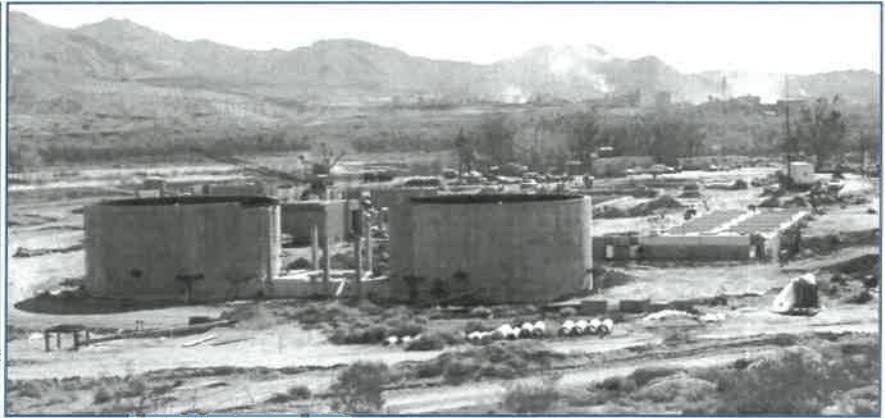


Purple Pipe

Volume XIV Summer 2018



VWRA Marks 40 Years of Service



Officials sign documents creating VVWRA in 1978.

Construction on VVWRA plant at former Culbertson Ranch in February 1979.

VWRA is celebrating 40 years of serving the Victor Valley. It was June 1st, 1978 that VVWRA became an independent agency with the task of providing wastewater treatment services for our region. However the genesis of VVWRA actually dates back to 1973 when local voters approved a bond measure to build a wastewater treatment plant. VVWRA was originally formed by the Mojave Water Agency in 1977 as Improvement District #1. But by June 1, 1978 VVWRA evolved into an independent agency with it's own bylaws and board. Construction began on the original 2.5 million gallon per day treatment plant in mid-1977 with a groundbreaking ceremony on August 9th, 1977. Congresswoman Shirley Pettis called the new construction "a true example of the vision of the crafters of the federal Clean Water Act". 87% of the cost was paid for by state and federal grant funds while the local bond measure paid the remaining amount. It would take four years to complete, but the small plant built on the former Culbertson Ranch began operations on Dec. 1, 1981. Over the years, the Victor Valley population has expanded dramatically and so has VVWRA's mission. Today, VVWRA treats nearly 11 million gallons of wastewater every day. That's more than four times the amount the original plant was designed to handle when it started in 1981. VVWRA is also handling fats, oil and grease (FOG) from local restaurants as well as anaerobically digestible materials (ADM). Those materials have helped in generating biogas which is used to generate electricity to run the plant. In addition, VVWRA has done a number of expansion projects over the years to keep up increasing flows as the result of the regions growth. The projects have included additional primary's, secondary clarifiers, larger digesters, improvements to the aeration basins, tertiary filters and UV disinfection. In 2015, VVWRA broke ground on two sub-regional water recycling facilities in Apple Valley and Hesperia. Construction has been completed at both sites. When fully operational each facility will be capable of producing up to one million gallons of recycled water per day. The water will be used for irrigating golf courses, parks and civic centers. It will also take the strain off our interceptors, which are reaching capacity, while saving precious drinking water.

INSIDE THE PURPLE PIPE

- Pg 2 RIP Commissioner Blewett
- Pg 3 Around the plant
- Pg 4 Mr. Olds goes to DC
- Pg 5 Leadership graduates
New Brown bear
- Pg 6 Memory Lane/VVWRA
History in photos
- Pg 7 This 'n that!
- Pg 8 Dingle's Corner



Marking VVWRA's 40th anniversary at our June Board meeting. l-r. VVWRA's Latif Laari, Xiwei Wang, Marcos Avila, David Wylie, Piero Dallardo, Kristi Casteel, Commissioner Larry Bird, Commissioner Jim Cox, Chieko Keagy, Commissioner Scott Nassif, Toni Henning, Commissioner Jeff Rigney, Alton Anderson, GM Logan Olds, Bruce Correia and Robert Coromina.



A fun look at our past....

by **Bruce Correia**

My first official day with VVWRA was on July 1st 1993. Since this was the first day of the fiscal year I got a raise. Also I was informed that we got the 4th of July off and we were having a BBQ that day to celebrate the holiday. I thought to myself WOW! This is a great place to work!

On my first day in 1993, VVWRA was barely a 6 mgd (million gallons per day) plant. Today, we treat nearly 11 million mgd. There was little, to no automation in the facility. In the summer time before the contact tanks had covers, we probably "accidentally" fell into the tanks of recycled water to escape the heat far more than we should have. On Saturdays we would bring in remote control boats and have boat races on the North perc ponds and chase the ducks. Or after shift, play basketball out in front of the shop with our home made hoop and key.

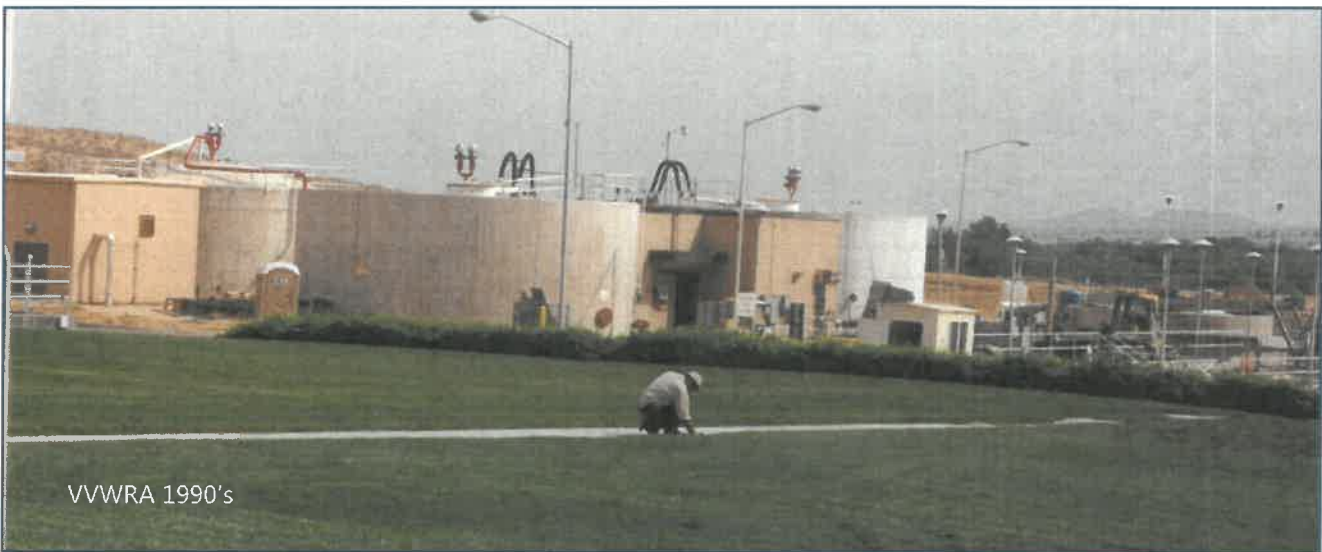
However, some things must change and these activities are, somewhat frowned upon now, for very good reasons. I still miss some of the things we used to do many years ago.

A lot of changes have occurred over the years. New staff, new process, new equipment. Some of these things I predicted and some of these things I hoped for, but did not expect. However one thing I certainly never expected was to be the old sage of VVWRA. It seems like just last week I was an Operator in Training running around the plant trying to figure out what valve was for what pipe.

Today we have automation and equipment that practically operates itself. None of the people I started with are still here and while I miss them, I am just as proud of the new staff that have come aboard in recent years. I can only imagine where VVWRA will be in another 25 years.



Bruce Correia



VVWRA 1990's

Purple Pipe
newsletter
VVWRA
Board of Commissioners

- Larry Bird / Hesperia
- Jim Kennedy / Victorville
- Scott Nassif / Apple Valley
- Jeff Rigney / SB CSA 42 & 46

The Purple Pipe is a quarterly newsletter published by the Victor Valley Wastewater Reclamation Authority.
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Contact: info@vwwra.com
20111 Shay Rd,
Victorville, CA 92394

RIP Commissioner Blewett

VVWRA mourns the unexpected death of Hesperia Mayor and VVWRA Commissioner Russ Blewett who passed away on May 23, 2018. He was 74. Mr. Blewett had served as Hesperia's representative on our board since 2011.





Around the Plant

Daniel Enriquez: Employee of the Quarter



Congratulations to Asset Management Technician Daniel Enriquez who was named Employee of the Quarter. In his position, Daniel purchases the equipment needed to keep our plant running and handles many of our permits. He was recognized for his positive attitude and strong work ethic. Daniel has been with VVWRA since October of 2014 when he started in the Safety Department. Before joining VVWRA, Daniel served eight years in the United States Marines, including two tours of Iraq. Daniel is a native of Washington state and lives in Victorville with his wife Miriam and their two children. Fun fact: Daniel played Irving Dingleberry in the award winning performance by The Dingleberrys at this years VVC Hall of Fame event.

Mauricio Marin named E & I Person of the Year



VVWRA's Mauricio Marin received the California Water Environment Associations award for E & I Person of the Year at their annual conference in Sacramento. The award recognizes Mauricio as the top E & I Technician in the state of California.

Bruce Correia Celebrates 25 years

Congratulations to MIS Coordinator Bruce Correia who is celebrating 25 years at VVWRA. He is the longest tenured employee in VVWRA history. Bruce was recently honored by our Board of Commissioners for his service. Over the years, Bruce has worked in a number of positions including an operator and health and safety. In more recent years, he has led the way in transitioning VVWRA's operations and communications by incorporating state of the art SCADA systems.



VVWRA GM Logan Olds presents Bruce Correia with a "toilet" trophy

**CWEA was founded in 1927 as a not-for-profit, public benefit association for water quality professional.

Promotions and Certs



Congrats to Mike Koncur for being promoted to Mechanic III



Congrats to Latif Laari for earning his Grade 4 Collections Certificate.

Welcome new employees!



Craig Taylor
E & I Technician



Bobby Hesse
Operator

Page 4

Mr. Olds Goes to Washington

VVWRA GM Logan Olds part of National discussion on water issues



VVWRA General Manager Logan Olds spoke on Capitol Hill in April representing the wastewater industry as part of National Water Week. Water Week is the premier national advocacy event for the water sector in Washington, DC, bringing groups together from all across the sector to join together and elevate water as a national priority.

Finance Team Receives Budget Award

Master Accountant

Congratulations to VVWRA Accountant Xiwei Wang who earned his Masters Degree in Accounting from Cal State San Bernardino.



Accountant Xiwei Wang Controller Chieko Keagy Accountant Kyle Parker

The VVWRA Finance Department has received the GFOA's Distinguished Budget Presentation Award for its budget. The award represents a significant achievement by VVWRA and reflects a commitment by our staff to meeting the highest principles of governmental budgeting.

****Fun Fact:** Pooping hippos! Studies show that the average American man produces 24,320 pounds of poop in a lifetime, while women, who generally live longer, produce 25,920 pounds of poop. That's the equivalent weight of three adult hippos. *LiveScience 3-21-18



This 'n that

VWRA Leadership Program Honors First Graduates



VWRA recently instituted a new leadership program for its employees. The program included 11 weeks of training in areas such as time management, communications and finance. Our first graduating class was presented with plaques by the VVWRA Board of Commissioners. (photo l-r, Commissioners Larry Bird and Jim Kennedy, Leadership grads Xiwei Wang, Kristi Casteel, Chieko Keagy, Mauricio Marin and Latif Laari, Commissioner Scott Nassif, VVWRA Dir. of Admin Robert Coromina and GM Logan Olds) (kneeling)

New Brown Bear Helps Dry Bio-solids



Brown Bear Corp. Founder Stan Brown (r) joins VVWRA's Chuck Trammel on the newly delivered Brown Bear.



The new Brown Bear 400 being used to mix biosolids on our solar drying beds.

The Brown Bear has a cute name, but a very dirty job. The Brown Bear 400, recently purchased by VVWRA, is a specially modified hydrostatic tractor made especially for mixing our bio-solids as they dry in the sun. The mixing is done to speed up the drying process and is an invaluable tool at our plant. The Brown Bear features a 250hp CAT C-7 engine and is much more powerful than the previous equipment that VVWRA used. Ironically, the Brown Bear does not get it's name from the dirty jobs it does, but it is named after the founder of the Brown Bear Corporation, Stan Brown.

CWEA/DAMS **2018 AIR PACK DERBY**
 & Vendor Fair
August 23rd
9:00am-2:00pm
 Big Bear Lake Convention Center
 42900 Big Bear Blvd
 Big Bear Lake, CA

New location!



details at:
damsowcwea.org

Save the date

34th Annual Tri-State Seminar
 September 25-27
 South Point Hotel and Casino
 Las Vegas, NV

Registration @
tristateseminar.com





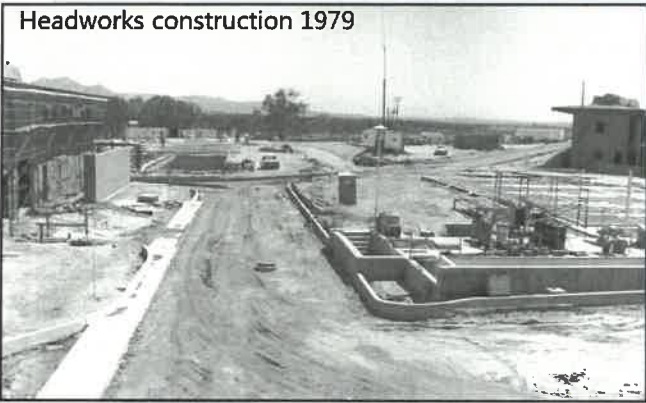
Memory Lane



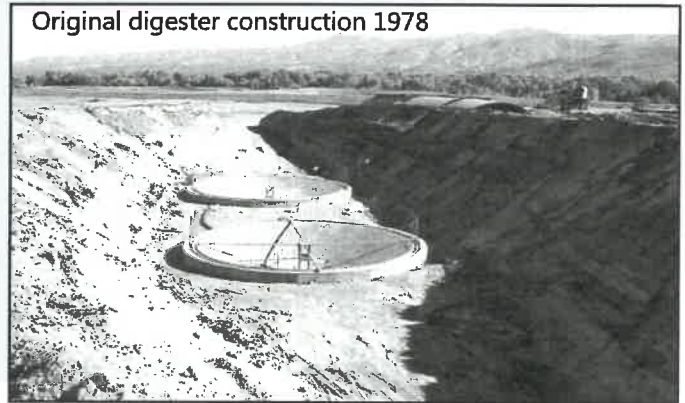
A look back at VWVRA history...



Culbertson Ranch, future site of VWVRA 1977



Headworks construction 1979



Original digester construction 1978



Early board meeting



Original VWVRA logo



VWVRA 1985



Early SCADA system

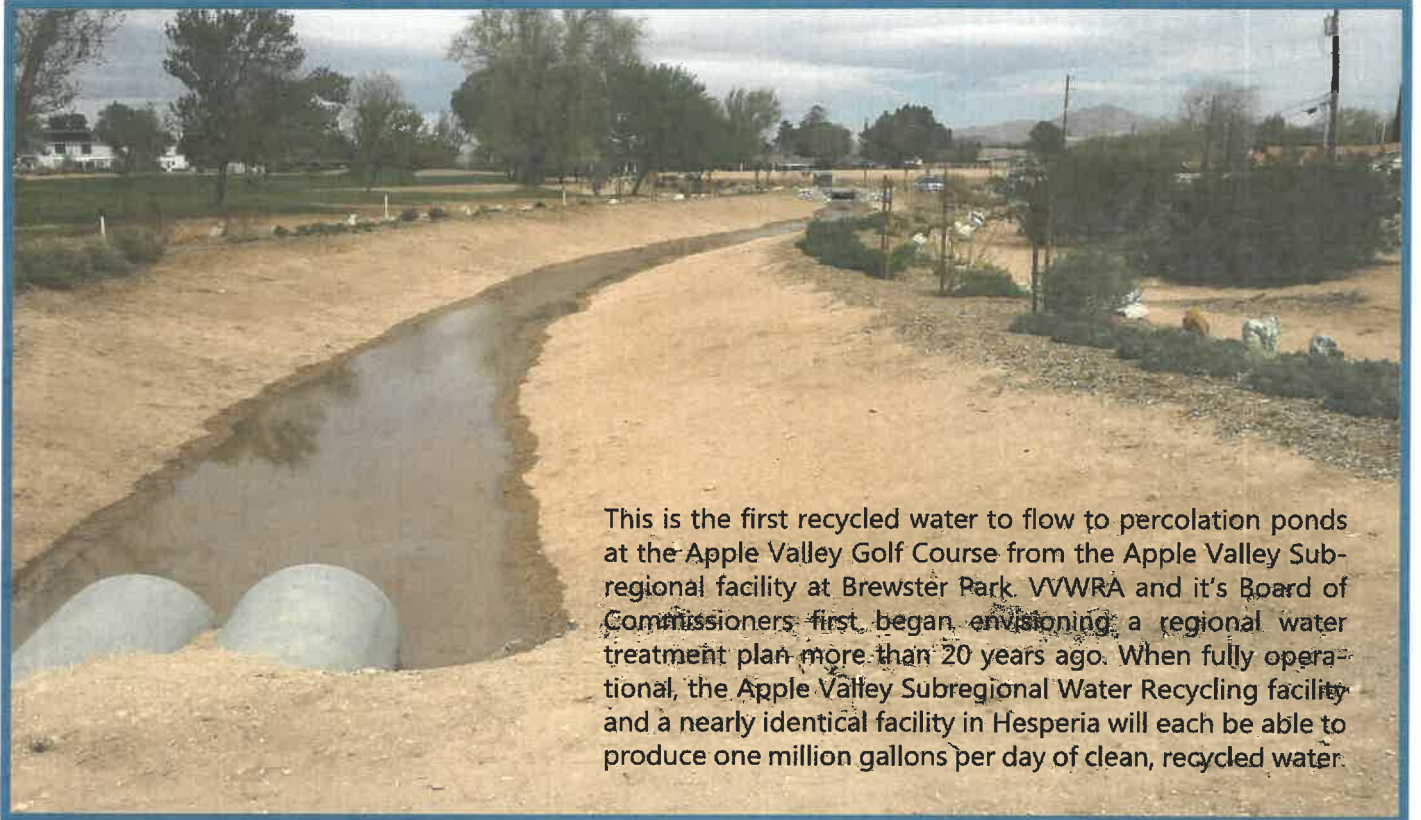


Mr. Dingle's first appearance
September, 2014

**Fun fact: A 1961 Twilight Zone episode starring Burgess Meredith and Don Rickles was called "Mr. Dingle, the Strong".

This 'n That

20 years in the making...



This is the first recycled water to flow to percolation ponds at the Apple Valley Golf Course from the Apple Valley Sub-regional facility at Brewster Park. VVWRA and its Board of Commissioners first began envisioning a regional water treatment plan more than 20 years ago. When fully operational, the Apple Valley Subregional Water Recycling facility and a nearly identical facility in Hesperia will each be able to produce one million gallons per day of clean, recycled water.

Lilla rør

Lilla rør means Purple Pipe in Danish. VVWRA's Latif Laari had a chance to read his copy of the Purple Pipe in the Copenhagen Airport during a recent visit to Denmark. Latif has become our first International reader of the Purple Pipe or Lilla rør.

Cross-cultural connection

VVWRA has had the opportunity to host tours for dozens of Chinese university exchange student this Summer. The students are part of the Envision cross-cultural learning program and have been staying with host families in the Victor Valley. (Envision: erdtenvision.org)

The rear end

Meet the New CWEA/DAMS Board



The new CWEA/DAMS Board was sworn in by CWEA VP Wendy Wert (l) at an installation luncheon in June. The DAMS Board organizes a variety of training events for area water and wastewater workers throughout the year. (photo l-r, CWEA VP Wendy Wert, Josh Peters, Ponton Industries, Wesley Garrison, Barstow, Ron Scriven, Crestline Sanitation, Sam Arvizu, Victorville, Kim Booth, BBARWA, David Wylie, VWVRA, Robert Coromina, VWVRA, Kristi Casteel, VWVRA, Kody Tompkins, Barstow, Latif Laari, VWVRA, Alex Aviles, Helendale CSD)

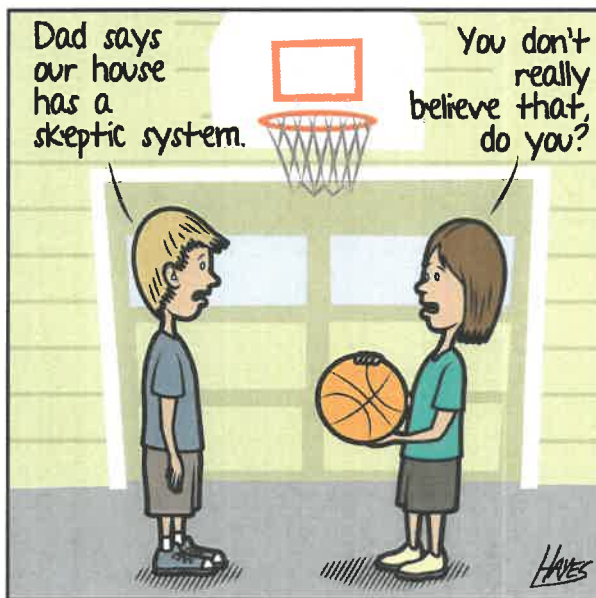
Know Your 'crobe



Nematode

Nematodes look like worms and are the largest of the microbes. Their favorite place to hang out is in our aeration basins where they feed on algae and bacteria. Nematodes are the first to die if any bad chemicals like gasoline or pesticides get into the wastewater. Dead nematodes help alert our operators that there have been changes in the wastewater.

Dingle's Corner



**Septic fact: Most septic tanks should be pumped every 3-5 years depending on the size of the household.