# AGENDA

## SPECIAL MEETING OF THE BOARD OF DIRECTORS
## LA PUENTE VALLEY COUNTY WATER DISTRICT
## 112 N. FIRST STREET, LA PUENTE, CALIFORNIA
## TUESDAY, DECEMBER 18, 2018 AT 5:30 PM

## 1. CALL TO ORDER

## 2. PLEDGE OF ALLEGIANCE

## 3. ROLL CALL OF BOARD OF DIRECTORS

President Rojas____ Vice President Escalera____ Director Barajas____

Director Hastings____ Director Hernandez____

## 4. PUBLIC COMMENT

Anyone wishing to discuss items on the agenda or pertaining to the District may do so now. The Board may allow additional input during the meeting. A five-minute limit on remarks is requested.

## 5. ADOPTION OF AGENDA

Each item on the Agenda shall be deemed to include an appropriate motion, resolution or ordinance to take action on any item. Materials related to an item on this agenda submitted after distribution of the agenda packet are available for public review at the District office, located at the address listed above.

## 6. APPROVAL OF CONSENT CALENDAR

There will be no separate discussion of Consent Calendar items as they are considered to be routine by the Board of Directors and will be adopted by one motion. If a member of the Board, staff, or public requests discussion on a particular item, that item will be removed from the Consent Calendar and considered separately.

A. Approval of Minutes of the Regular Meeting of the Board of Directors held on December 10, 2018.

B. Approval to Attend the Association of Ground Water Agencies AGWA – AGWT Annual Conference on Monday and Tuesday, February 11-12, 2019, in Ontario, CA.

## 7. FINANCIAL REPORTS

A. Summary of Cash and Investments for November 30, 2018.

***Recommendation:*** Receive and File.

B. Statement of District's Revenues and Expenses as of November 30, 2018.

***Recommendation:*** Receive and File report.

C. Statement of City of Industry Waterworks System's Revenues and Expenses as of November 30, 2018.

***Recommendation:*** Receive and File Report.

**8. ACTION/DISCUSSION ITEMS**

A. Consideration of Annual Cost of Living Adjustment for District Employees.

***Recommendation:*** Board Discretion.

B. Review and Approve the Proposed District Budget for Period Ending December 31, 2019.

***Recommendation:*** Approve the Proposed District Budget for Period Ending December 31, 2019.

**9. PROJECT ENGINEER REPORT**

**10. GENERAL MANAGER'S REPORT**

**11. OTHER ITEMS**

A. Upcoming Events.

B. Correspondence to the Board of Directors.

**12. ATTORNEY'S COMMENTS**

**13. BOARD MEMBER COMMENTS**

A. Report on Events Attended.

B. Other Comments.

**14. FUTURE AGENDA ITEMS**

**15. CLOSED SESSION**

Public Employee Performance Evaluation.

Position: General Manager.

**16. REPORT ON CLOSED SESSION**

**17. ADDITIONAL ACTION/DISCUSSION ITEM**

Consideration of Compensation Adjustment and Extension of Employment Contract for the District's General Manager.

***Recommendation*:** Board Discretion.

**18. ADJOURNMENT**

POSTED: Friday, December 14, 2018.

President William R. Rojas, Presiding.

Any qualified person with a disability may request a disability-related accommodation as needed to participate fully in this public meeting. In order to make such a request, please contact Greg B. Galindo, Board Secretary, at (626) 330-2126 in sufficient time prior to the meeting to make the necessary arrangements.

**Note:** Agenda materials are available for public inspection at the District office or visit the District's website at www.lapuentewater.com.

**MINUTES OF THE REGULAR MEETING OF**
**THE BOARD OF DIRECTORS OF THE**
**LA PUENTE VALLEY COUNTY WATER DISTRICT**

A regular meeting of the Board of Directors of the La Puente Valley County Water District was held on Monday, December 10, 2018, at 5:30 p.m. at the District office, 112 N. First St., La Puente, California.

**Meeting Called to Order:**
President Rojas called the meeting to order at 5:30 p.m.

**Pledge of Allegiance:**
President Rojas led the meeting in the Pledge of Allegiance.

**Oath of Office:**
Greg Galindo administered the Oath of Office to Directors' Cesar J. Barajas, John P. Escalera and Henry P. Hernandez; Board and Staff congratulated them.

**Directors Present:**
William Rojas, President; John Escalera, Vice President; Cesar Barajas, Director; David Hastings, Director and Henry Hernandez.

**Staff Present:**
Greg Galindo, General Manager; Gina Herrera, Office Manager; Roy Frausto, Engineering & Compliance Manager, Cesar Ortiz, Water Treatment & Supply Supervisor and Jim Ciampa, District Counsel.

**Others Present:**
Charlie & Susan Klinakis, Violet Lewis, Alicia Maes and Betty Escalera.

**Public Comment:**
Charlie Klinakis thanked the Board and Staff for their participation in the 2018 Annual La Puente Christmas Parade.

**Adoption of Agenda:**
President Rojas asked for the approval of the Agenda.
Motion by President Rojas, seconded by Director Hernandez, that the agenda be adopted as presented.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**Consent Calendar:**
President Rojas asked for the approval of the Consent Calendar.

- **A.** Approval of the Minutes of the Regular Meeting of the Board of Directors held on November 13, 2018.
- **B.** Approval of the Minutes of the Regular Meeting of the Board of Directors held on November 20, 2018.

- **C.** Approval of District Expenses for the Month of November 2018.
- **D.** Approval of City of Industry Waterworks System Expenses for the Month of November 2018.
- **E.** Receive and File the District's Water Sales Report for November 2018.
- **F.** Receive and File the City of Industry Waterworks System's Water Sales Report for November 2018.
- **G.** Receive and File the Water Production Report for November 2018.

Motion by Vice President Escalera, seconded by President Rojas, to approve the Consent Calendar as presented.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**Action/Discussion Items:**

**A.** Consideration of Rescheduling the December 24, 2018, Regular Board of Director's Meeting.

After a brief discussion, motion by President Rojas, seconded by Director Hernandez, to cancel the December 24, 2018 Regular Board of Director's Meeting and to schedule a Special Board of Director's Meeting for Tuesday, December 18, 2018 at 5:30 pm.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**B.** Consideration to Lease 500 Acre-Feet of Main San Gabriel Groundwater Production Rights to the Industry Public Utilities Commission.

- Mr. Galindo summarized his staff report and groundwater rights lease analysis that was provided in the meeting agenda packet.
- He explained that the groundwater productions rights that are proposed to be leased are in excess of the District's needs for the production year.

After further discussion, Motion by President Rojas, seconded by Director Hastings, to authorize the General Manager to enter into an Agreement to lease 500 Acre-Feet of 2018-19 Main San Gabriel Basin Groundwater Production Rights to the Industry Public Utilities Commission for $379,470.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**C.** Consideration to Lease 250 Acre-Feet of Groundwater Production Rights to San Gabriel County Water District.

After discussion, motion by Vice President Escalera, seconded by Director Hernandez, to authorize the General Manager to enter into an Agreement to lease 250 Acre-Feet of 2018-19 Main San Gabriel Basin Groundwater Production Rights to San Gabriel County Water District for $189,735.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**D.** Consideration of Resolution No. 257, Honoring Director Charles "Charlie" Aguirre for his Seventeen Years of Service on the Board of Directors.

After a brief discussion, motion by President Rojas, seconded by Director Hernandez, to approve Resolution No. 257.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**E.** Consideration of Resolution No. 258, Honoring Rosa B. Ruehlman for her Retirement from the District.

After a brief discussion, motion by President Rojas, seconded by Director Hastings, to approve Resolution No. 258.

Motion was approved by the following vote:
Ayes: Rojas, Escalera, Barajas, Hastings and Hernandez.
Nays: None.

**Workshop on the 2019 District Budget**

- Mr. Galindo provided a presentation (enclosed) on the draft proposed District budget for the 2019 calendar year.
- Mr. Galindo reviewed the projected revenue and expenses for the end of the current year and then reviewed staff's proposed budget for the coming year.
- He added that there is no action to be taken at this time and said that at the December 18, 2018, special meeting of the Board; he will be presenting the draft budget document for their review and approval.
- There was much discussion on various items in the proposed budget, but no action was taken.

**General Manager's Report:**

- Mr. Galindo congratulated Vice President Escalera, Director Hernandez and congratulated and welcomed Director Barajas.

**Information Items:**

**A.** Upcoming Events.

- Mrs. Herrera provided an update on upcoming events and verified with the Directors who will be planning on attending the next few events.
- She gave the Board information on the upcoming Christmas party.

**B.** Correspondence to the Board of Directors.

- Included in the Board Meeting Agenda Packet.

**Board Member Comments:**

**A.** Report on events attended.

- President Rojas attended 1 event; ACWA JPIA 2018 Fall Conference.
- Director Hernandez attended 1 event; ACWA 2018 Fall Conference.

**B.** Other comments.

- Board Members congratulated and welcomed newly appointed Director Cesar Barajas and new District Counsel Jim Ciampa to the District.

**Attorney Comments:**

Mr. Ciampa thanked the Board and Staff and stated he is looking forward to serving the District as General Counsel.

**Future Agenda Items:**

No Future Agenda Items.

**Adjournment:**

With no further business or comment, the meeting was adjourned at 6:49 p.m.

William R. Rojas, President

Greg B. Galindo, Secretary

## Association of Ground Water Agencies - American Ground Water Trust

# AGWA – AGWT Annual Conference

## "Everything aquifers and groundwater management"

**Monday, February 11 and Tuesday, February 12, 2019**

**Gateway Hotel, 2200 East Holt Boulevard, Ontario, California 91761**

***See website for field visit opportunity to Regional Recycled Water Program*** **(transportation not provided)**

**Background**

**The first AGWA/AGWT joint conference was held in Ontario, CA in 2000. Since then, this annual event has provided an important information exchange and networking opportunity for California's water agencies, utilities and water districts, and for all water professionals (scientific, engineering, managerial, legal, environmental, regulatory), end-users of water, and local and state elected officials involved with water policy issues. The focus of every program is on current groundwater management issues in California.**

**Continuing Education**

**Anticipated approval for CA Drinking Water Operators – 11 Contact Hours**

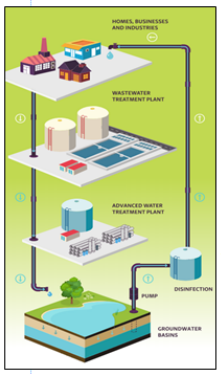
**2019 Conference Sponsors – sign-up now to join them!**

Western Municipal Water District; California American Water; WRD Water Replenishment District of Southern California; Preferred Pump; Hydro resources; Layne A Granite Company; 3R Valve; CCC Cotey Chemical Corp.; Baroid Industrial Drilling Products Halliburton; Roscoe Moss Company; INTERA Geoscience & Engineering Solutions; DBS&A Daniel B. Stephens & Associates, Inc.; Goulds Water Technology; Collier Consulting Geoscience & Engineering

**Regional Recycled Water Advanced Purification Center**

**POST-CONFERENCE TOUR**

**Wednesday, Feb. 13th - Sign- up: www.agwt.org/events**




**9:30 am -11:30 am**

**Joint Water Pollution Control Plant, 24501 S. Figueroa Street, Carson, 90745**

**Learn about the Advanced Purification Center. A new demonstration facility that tests an innovative process to purify wastewater for groundwater replenishment. It could lead to a full-scale program that purifies 150 million gpd and replenishes four groundwater basins in Southern California, making it one of the largest of its kind in the world. The program is a partnership of The Metropolitan Water District of Southern California and the Sanitation Districts of Los Angeles County.**

Monday February 11, 2019

**7:30 – 8:30** **REGISTRATION** (Coffee & pastries – network with exhibitors)

**8:30 – 8:40** **OPENING REMARKS FROM AGWA AND AGWT**

Anthony Zampiello, Chairman, Association of Ground Water Agencies
Andrew Stone, Executive Director, American Ground Water Trust

**8:40 – 9:10** **KICK-OFF PRESENTATION**

METROPOLITAN WATER DISTRICT: UPDATE ON SOUTHERN CALIFORNIA REGIONAL GROUNDWATER CONDITIONS

Matthew D. Hacker, Senior Resource Specialist, Metropolitan Water District, Los Angeles, CA

**9:10 – 9:40** **THE ELUSIVE SUSTAINABILITY OBJECTIVE**

GROUNDWATER SUSTAINABILITY PLANNING: GROUNDWATER MODELING TO EVALUATE GROUNDWATER/SURFACE WATER INTERACTIONS AND CLIMATE CHANGE IMPACTS

Abhishek Singh, PhD, PE, Manager - California Operations, Senior Water Resources Engineer, INTERA Inc. Torrance, CA and Bryan Bondy, PG, CHG, Bondy Groundwater Consulting, Inc., (co-author recognition - David Jordan,PE, INTERA Inc.)

**9:40 – 10:10** **INVITED KEYNOTE PRESENTATION**

NEW FUNDING FOR STORMWATER CAPTURE
Mark Pestrella, Director, LA County Public Works, Los Angeles, CA (invited)

**10:10 10:30 BREAK**

**11:30 – 12:00 Session 1**

**IDENTIFYING, QUANTIFYING AND DEALING WITH CONTAMINANTS OF EMERGING CONCERN (CECs)**

(Including 1,2,3-TCP, hexavalent chromium, PPCPs, PFAS, perchlorate, 1-4,dioxane, NDMA and others! ) Water agencies are faced with an urgent need to respond to concerns about health issues, property values, remediation options and infrastructure costs related to the identification, measurement and treatment of these compounds.

Moderator: Rick Zimmer, Senior Account Manager, Eurofins Eaton Analytical, LLC, Monrovia, CA

CECs IN THE LOS ANGELES (CENTRAL/WEST) BASIN
Brian Partington, Senior Hydrologist, Water Replenishment District of Southern California, Lakewood, CA

CECs IN THE ORANGE COUNTY GROUNDWATER BASIN
Patrick Versluis, Director of Water Quality, Orange County Water District, Fountain Valley, CA Presenter,

CECs IN THE SAN GABRIEL BASIN
Randy Schoellerman, Assistant Executive Director, San Gabriel Basin Water Quality Authority, West Covina, CA

CECs IN THE CHINO BASIN
Presenter to be determined

**12:00 – 1:00 LUNCH** (provided)

**1:00 – 2:20 - Session 2**

**PASO ROBLES BASIN - FIRST JURY TRIAL OVER GROUNDWATER RIGHTS IN CALIFORNIA**

A Santa Clara County Superior Court jury found on Sept. 24, 2018 that a group of public water suppliers in San Luis Obispo County had the right to pump groundwater from a large groundwater basin in San Luis Obispo and Monterey Counties. The four-week trial pitted agricultural interests against public water suppliers during a time of extreme water tension due to drought and drought-like conditions in the State. What comes next?

Anthony Brown, CEO & Principal Hydrologist, Aquilogic, Costa Mesa, CA
Jeffrey V. Dunn, JD, Attorney, Partner, Best Best Krieger Law, Irvine, CA

**2:20 – 3:50 Session 3**

**THE CLOUD & WATER RESOURCES MANAGEMENT**

Moderator to be announced

In the natural hydrologic system, water moves from the meteorological clouds to aquifers. In the modern management of groundwater, the movement of hydrogeological data is from the ground to the cyberspace cloud. Management is the key to groundwater sustainability. Does the "cyberspace cloud" help?

NEXT GENERATION GROUNDWATER LEVEL INFORMATION SYSTEMS: EXTENDING WELL DATA NETWORKS BEYOND THE WELLFIELD TO INFORM OPERATION AND MANAGEMENT DECISIONS
Chuck Dunning, PhD, PG, Vice President Business Development, Wellntel, Milwaukee, WI

HELPING GSAS ACHIEVE SUSTAINABILITY USING FOCUSED GROUNDWATER MANAGEMENT SOFTWARE
Aaron Collier, PG, Vice President, Collier Consulting, Stephenville, TX

DEVELOPING A COMPREHENSIVE DATA MANAGEMENT SYSTEM FOR INDIAN WELLS VALLEY - PAINFUL BUT NECESSARY
Tim Parker, PG, CEG, CHG, President, Parker Groundwater, Sacramento, CA

**3:50 – 4:00 BREAK**

**4:00 – 5:30 Session 4**

**DOWN-HOLE TECHNOLOGY FOR EFFICIENT GROUNDWATER PUMPING, RECHARGE AND WATER QUALITY CONTROL**

Water engineers, consultants and agency managers can benefit from technology updates about what happens down a well. Water wells are engineered holes in the ground. The equipment that is selected for pumping, recharge and for refining well design can have significant economic impacts on construction and operation costs. Drawing up specifications for wells is best done with an understanding of equipment options and awareness of how advance information of subsurface geochemistry can inform pumping and treatment decisions.

Moderator: Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

RAPID HIGH RESOLUTION ZONAL AQUIFER GEOCHEMISTRY AND FLOW DOWN TO 3000 FEET
Noah Heller, President, Best Environmental Subsurface Science and Technologies, San Rafael, CA,

THE DESIGN AND OPERATION OF DOWNHOLE VALVE EQUIPMENT FOR EFFICIENT OPERATION IN AQUIFER STORAGE RECOVERY WELLS
Kent Madison, President, 3RValve LLC, Echo, OR

THE WELL PUMP IS THE HEART OF GROUNDWATER SYSTEMS: HOW TO SELECT THE RIGHT PUMP AND SIMPLE ROUTINE DIAGNOSTICS TO KEEP YOUR PUMP HEALTHY
David Kill, PE, Training Consultant, Xylem Goulds Water Technology, St. Paul, MN

**5:30 – 7:00 RECEPTION** (Cash bar)

Tuesday February 12, 2019

**7:30 – 8:30 REGISTRATION**

**8:30 – 10:00 Session 5**

**CHALLENGES TO ENSURING SAFE SUSTAINABLE GROUNDWATER SUPPLY IN RURAL AREAS OF CALIFORNIA**

Water Supply responsibilities in California extend beyond providing for the needs of the major irrigation industries and the water agencies with large service populations. The more rural areas of the state also have sustainability and water quality issues. As more people are choosing to live in the foothills and in areas away from major urban centers and the reach of pipelines, there needs to be a closer focus on how groundwater professionals can help maintain affordable and safe water supply for small systems and homeowners.

Moderator to be announced

PFAS: WIDE-RANGING SOURCES AND IMPACTS TO CALIFORNIA WATER SUPPLIES
Gregory Schnaar, PhD, Principal Environmental Scientist, Daniel B. Stephens & Associates, Washington, DC

GROUNDWATER MANAGEMENT IN FRACTURED ROCK AQUIFERS SERVING RURAL NEIGHBORHOODS, VINEYARDS, FARMS AND RANCHES
Stephen J. Baker, PG, HG, Hydrogeologist, Living Water® programming, Nevada City, CA

SOLVING WATER SUPPLY CHALLENGES FOR CALIFORNIA'S SMALLER COMMUNITIES
Dan Demoss, Executive Director, California Rural Water Association, Sacramento, CA.

**10:00 - 10:30 INVITED PRESENTATION FROM CALIFORNIA'S GROUNDWATER INFORMATION GURU**

WHERE AND HOW TO GET INFORMATION: CALIFORNIA WATER LIBRARY AND THE GROUNDWATER EXCHANGE
Chris Austin, *Maven's Notebook,* The Groundwater Exchange, *California Water Library, Santa Clarita, CA*

**10:30 – 10:50 BREAK**

**10:50 – 12:20 Session 6**

**WATER AGENCY/WATER DISTRICT: COMMUNICATION, OUTREACH AND EDUCATION INITIATIVES WHY THEY ARE NEEDED AND HOW SUCCESS IS MEASURED**

Why do water agencies invest in education programs? What are the benefits from having the customer base understand where their water comes from and how it is delivered? How do agency educators decide on their targets? Is "outreach" different from "education" and is there a dividing line between public relation programs and education? What initiatives are shown to be effective and how can their effectiveness be assessed?

Moderator: Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH
Gina Ayala, Principal Communications Specialist, Orange County Water District, Fountain Valley, CA
Rachel McGuire Communications Manager, Western Municipal Water District, Riverside, CA
Adrian Hightower, Education Unit Manager, Metropolitan Water District, Los Angeles, CA

**12:20 – 1:20 LUNCH**

**1:20 – 2:50 Session 7**

**GEOPHYSICS AT THE FRESH WATER/SALT WATER INTERFACE OF SOUTHERN CALIFORNIA'S COASTAL AQUIFERS**

Coastal groundwater conditions in Southern California range from freshwater discharge off-shore, uncontrolled salt water intrusion through multilayered and faulted aquifer systems, and relic intrusion plumes trapped behind fresh water barrier well systems. Data from electrical resistivity and time domain electromagnetic induction from airborne geophysical investigations can provide valuable information for characterizing and modeling saline/freshwater dynamics at coastal and inland sites.

Moderator – John Jansen, Senior Geophysicist/Hydrogeologist, Collier Consulting, West Bend, WI

GROUNDWATER DISCHARGE & SALT WATER INTRUSION ALONG THE SOUTHERN CALIFORNIA COAST
John Jansen, PhD, PG, PGp, Senior Geophysicist/Hydrogeologist, Collier Consulting, West Bend, WI

AIRBORNE GEOPHYSICAL INVESTIGATIONS OF SALT WATER INTRUSION ALONG COASTAL CALIFORNIA
Theodore Asch, PhD, PGp, Research Geophysicist, Aqua Geo Frameworks, LLC, Lakewood, CO

SALT WATER & FRESH WATER INTERACTION AND AIRBORNE ELECTROMAGNETIC SURVEYING
Max Halkjaer, Hydrogeologist, Geophysicist, Ramboll Group, København S Denmark

**2:50 – 3:00 BREAK**

**3:00 – 4:30 Session 8**

**SGMA FEE ISSUES:**
**HOW TO FUND GSA IMPLEMENTATION, GSP PROJECTS ETC. HOW TO AVOID PROP 218 PITFALLS**

As GSAs push to meet the upcoming GSP deadline, it is critical not to overlook funding practices. How will your GSA employ its fee authority to fund the GSA and GSP? What are other GSAs doing to guarantee funding is available for GSP implementation? This panel dives into the nuts and bolts of fee setting to ensure your GSA secures both sustainable funding and sustainable groundwater management.

Moderator and panelist:
Jena Acos, JD, Attorney, Brownstein Hyatt Farber Schreck, Santa Barbara, CA
Mack Carlson, JD, Attorney, Brownstein Hyatt Farber Schreck, Santa Barbara, CA
Mark Hildebrand, Principal, Hildebrand Consulting, Oakland, CA

**4:30 WRAP-UP, Continuing education sign-out and ADJOURN**

# REGISTRATION FORM

AGWA/AGWT ANNUAL GROUNDWATER CONFERENCE

Monday and Tuesday, February 11 & 12, 2019

Complete information below and fax to 603 228-6557 or register on-line at www.agwt.org/events

| Early bird payment must be received BEFORE Dec 31,2018 | Two Day<br>Feb 11 **AND** 12 | One Day<br>Feb 11 **OR** Feb 12 |
|---|---|---|
| **YOU MUST CHECK ONE:➔** | ☐ | ☐ or ☐ |
| General Registration BEFORE Dec 31, 2018 | ☐ $400 | ☐ $245 |
| AGWT Member BEFORE Dec 31, 2018 | ☐ $375 | ☐ $220 |
| General Registration AFTER Dec 31 | ☐ $440 | ☐ $245 |
| AGWT Member AFTER Dec 31 | ☐ $415 | ☐ $220 |
| Full-Time Student* (ID required at Registration) | ☐ $120 | ☐ $80 |
| Download of presentation ppts (Registrant Price) | ☐ $30 | |
| Exhibit Table (personal registration also required) | ☐ $300 | |
| Field trip (Feb 13) (Conf registration required; transportation not provided) | ☐ $50 | |

**Registration Includes: access to exhibits, reception, breaks and lunch(s)*

Total for all checked boxes $ ……..……

**To be an event sponsor, call AGWT at 800 423-7748 or visit our website, www.agwt.org/events, for more information**

**SPEAKER REGISTRATION ONLY:**

Speakers receive complimentary registration for the day of their presentation

| | | |
|---|---|---|
| Speaker Presentation Date | Feb 11 ☐ | Feb 12 ☐ |
| Attending (day not presenting) | Feb 11 ☐- $100 | Feb 12 ☐ - $100 |

## Payment Information:

☐ CHECK *[payable to: AGWT]* ☐ AMEX/VISA/MC/Discover ☐ PO # _____

**AMOUNT AUTHORIZED $** _____

Name on Card _____

Card No. _____ Expiration Date _____

Cardholder Email _____

Company Name _____

Attendee Name _____

Attendee Email _____

Position/Job Title _____

Address _____

City _____ State _____ Zip_____

Phone _____

**REGISTER ONLINE:**
agwt.org/events

**MAIL TO:**
American Ground Water Trust
50 Pleasant Street, Suite 2
Concord, NH 03301-4073

**FAX**: (603) 228-6557

**TEL:** (603) 228-5444

**? QUESTIONS:**
(800) 423-7748
9:00-4:00pm (Eastern Time)

# Summary of Cash and Investments
## November 2018

### La Puente Valley County Water District

| Investments | Interest Rate (Apportionment Rate) | Beginning Balance | Receipts/ Change in Value | Disbursements/ Change in Value | Ending Balance |
|---|---|---|---|---|---|
| Local Agency Investment Fund | 2.16% | $ 2,694,382.10 | $ - | $ - | $ 2,694,382.10 |
| Raymond James Financial Services | | $ 355,564.54 | $ 433.32 | | $ 355,997.86 |
| **Checking Account** | | | | | |
| Well Fargo Checking Account (per General Ledger) | | $ 331,211.51 | $ 507,260.50 | $ 424,123.24 | $ 414,348.77 |
| | | | | **District's Total Cash and Investments:** | **$ 3,464,728.73** |

### Industry Public Utilities

| Checking Account | Beginning Balance | Receipts | Disbursements | Ending Balance |
|---|---|---|---|---|
| Well Fargo Checking Account (per General Ledger) | $ 1,006,430.32 | $ 183,317.09 | $ 122,173.16 | $ 1,067,574.25 |
| | | | **IPU's Total Cash and Investments:** | **$ 1,067,574.25** |

I certify that; (1) all investment actions executed since the last report have been made in full compliance with the Investment Policy as set forth in Resolution No. 237 and, (2) the District will meet its expenditure obligations for the next six (6) months.

_____ , General Manager  Date: 12.14.18

Greg B. Galindo

**La Puente Valley County Water District (Treatment Plant Included)**
**Statement of Revenues and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| DESCRIPTION | COMBINED YTD 2018 | COMBINED BUDGET 2018 | 92% OF BUDGET | COMBINED 2017 YE |
|---|---|---|---|---|
| Total Operational Rate Revenues | $ 1,821,274 | $ 2,031,000 | 90% | $ 1,981,901 |
| Total Operational Non-Rate Revenues | 2,112,451 | 2,733,100 | 77% | $ 260,272 |
| Total Non-Operating Revenues | 198,967 | 291,100 | 68% | 2,110,238 |
| **TOTAL REVENUES** | **4,132,691** | **5,055,200** | **82%** | **4,092,139** |
| Total Salaries & Benefits | 1,803,359 | 1,959,600 | 92% | 1,287,342 |
| Total Supply & Treatment | 1,537,686 | 1,714,200 | 90% | 1,486,941 |
| Total Other Operating Expenses | 316,594 | 460,100 | 69% | 274,747 |
| Total General & Administrative | 319,924 | 500,500 | 64% | 347,296 |
| **TOTAL EXPENSES** | **3,977,562** | **4,634,400** | **86%** | **3,396,326** |
| **TOTAL OPERATIONAL INCOME** | **155,130** | **420,800** | **37%** | **695,813** |
| Total Capital Improvements | (219,023) | (1,235,000) | 18% | (82,810) |
| Total Capital Outlay | (28,286) | (50,000) | 57% | (39,731) |
| **TOTAL CAPITAL** | **(247,308)** | **(1,285,000)** | **19%** | **(122,542)** |
| **INCOME (AFTER CAPITAL EXPENSES)** | (92,179) | (864,200) | 11% | 573,272 |
| Grant Proceeds | - | 300,000 | 0% | - |
| Loan Proceeds | - | 500,000 | 0% | - |
| Loan Repayment | - | - | 0% | - |
| **PROJECTED CHANGE IN CASH** | **(92,179)** | **(64,200)** | **144%** | **573,272** |
| Non-Cash Items (Dep. & OPEB) | (266,025) | 725,000 | -37% | (474,668) |
| **NET INCOME (LOSS)** | **$ (358,204)** | **$ 660,800** | **-54%** | **$ 98,603** |

**La Puente Valley County Water District**
**Statement of Revenues and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| Description | November 2018 | YTD 2018 | ANNUAL BUDGET 2018 | 92% OF BUDGET | YEAR END 2017 |
|---|---|---|---|---|---|
| **Operational Rate Revenues** | | | | | |
| Water Sales | $ 76,825 | $ 1,155,055 | $ 1,295,000 | 89% | $ 1,251,382 |
| Service Charges | 46,683 | 547,621 | 608,500 | 90% | 604,424 |
| Surplus Sales | 3,975 | 40,120 | 38,000 | 106% | 35,769 |
| Customer Charges | 3,069 | 28,379 | 33,300 | 85% | 33,425 |
| Fire Service | 1,330 | 48,374 | 55,500 | 87% | 56,096 |
| Miscellaneous Income | - | 1,725 | 700 | 246% | 805 |
| **Total Operational Rate Revenues** | **131,882** | **1,821,274** | **2,031,000** | **90%** | **1,981,901** |
| **Non-Rate Operational Revenues** | | | | | |
| Management Fees | - | 214,284 | 261,700 | 82% | 194,810 |
| Other O & M Fees | - | - | 13,000 | 0% | 65,461 |
| PVOU Service Fees (Labor) | - | 12,090 | 42,900 | 28% | - |
| BPOU Service Fees (Labor) | 23,412 | 284,965 | 278,800 | 102% | - |
| IPU Service Fees (Labor) | 56,993 | 633,101 | 715,800 | 88% | - |
| **Total Non Rate Operational Revenues** | **80,405** | **1,144,439** | **1,312,200** | **87%** | **260,272** |
| **Non Operating Revenues** | | | | | |
| Taxes & Assessments | 6,321 | 128,022 | 215,000 | 60% | 230,516 |
| Rental Revenue | 3,025 | 33,013 | 36,100 | 91% | 34,988 |
| Interest Revenue | - | 13,768 | 17,000 | 81% | 27,436 |
| Miscellaneous Income | 286 | 24,165 | 18,000 | 134% | 76,053 |
| Contributed Capital | - | - | - | N/A | 210,130 |
| Developer Fees | - | - | 5,000 | 0% | 81,095 |
| **Total Non-Operational Revenues** | **9,632** | **198,967** | **291,100** | **68%** | **920,490** |
| **TOTAL REVENUES** | **221,918** | **3,164,680** | **3,634,300** | **87%** | **2,902,391** |
| **Salaries & Benefits** | | | | | |
| Total District Wide Labor | 102,118 | 1,071,680 | 1,142,700 | 94% | 497,621 |
| Directors Fees & Benefits | 10,393 | 109,281 | 117,300 | 93% | 117,385 |
| Benefits | 26,189 | 281,473 | 303,100 | 93% | 124,987 |
| OPEB Payments | 2,094 | 116,717 | 150,000 | 78% | 157,030 |
| Payroll Taxes | 7,264 | 85,417 | 90,600 | 94% | 43,150 |
| Retirement Program Expense | 11,746 | 138,791 | 155,900 | 89% | 64,566 |
| **Total Salaries & Benefits** | **159,802** | **1,803,359** | **1,959,600** | **92%** | **1,004,737** |
| ***Analysis Purposes Only:*** | | | | | |
| ***Offsetting Revenue*** | **(80,405)** | **(930,156)** | **(1,057,500)** | **88%** | - |
| ***District Labor Net Total*** | **79,397** | **873,203** | **902,100** | **97%** | - |
| **Supply & Treatment** | | | | | |
| Purchased & Leased Water | - | 376,920 | 379,500 | 99% | 421,870 |
| Power | 11,994 | 141,911 | 157,000 | 90% | 152,220 |
| Assessments | - | 157,211 | 221,900 | 71% | 132,114 |
| Treatment | 208 | 2,804 | 6,700 | 42% | 4,079 |
| Well & Pump Maintenance | - | 18,929 | 32,000 | 59% | 11,841 |
| **Total Supply & Treatment** | **12,203** | **697,775** | **797,100** | **88%** | **722,124** |
| **Other Operating Expenses** | | | | | |
| General Plant | 923 | 23,883 | 42,300 | 56% | 29,918 |
| Transmission & Distribution | 802 | 80,595 | 90,500 | 89% | 50,636 |
| Vehicles & Equipment | 4,362 | 24,948 | 30,300 | 82% | 14,669 |
| Field Support & Other Expenses | 1,439 | 42,088 | 68,500 | 61% | 30,329 |
| Regulatory Compliance | 1,124 | 33,428 | 51,500 | 65% | 28,754 |
| **Total Other Operating Expenses** | **8,650** | **204,941** | **283,100** | **72%** | **154,307** |

**La Puente Valley County Water District**
**Statement of Revenues and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| Description | November 2018 | YTD 2018 | ANNUAL BUDGET 2018 | 92% OF BUDGET | YEAR END 2017 |
|---|---|---|---|---|---|
| **General & Administrative** | | | | | |
| District Office Expenses | 1,399 | 28,366 | 61,800 | 46% | 37,453 |
| Customer Accounts | 1,173 | 17,015 | 20,400 | 83% | 20,907 |
| Insurance | - | 40,755 | 69,900 | 58% | 60,490 |
| Professional Services | - | 119,613 | 160,000 | 75% | 132,598 |
| Training & Certification | 303 | 36,671 | 37,700 | 97% | 29,068 |
| Public Outreach & Conservation | 54 | 30,803 | 32,500 | 95% | 15,717 |
| Other Administrative Expenses | 553 | 30,252 | 70,200 | 43% | 29,176 |
| **Total General & Administrative** | **3,483** | **303,476** | **452,500** | **67%** | **325,409** |
| **TOTAL EXPENSES** | **184,137** | **3,009,550** | **3,492,300** | **86%** | **2,206,578** |
| **TOTAL OPERATIONAL INCOME** | **37,781** | **155,130** | **142,000** | **109%** | **695,813** |
| **Capital Improvements** | | | | | |
| Fire Hydrant Repair/Replacements | - | (10,908) | - | N/A | (178) |
| Zone 3 Improvements | (18,013) | (173,679) | (220,000) | 79% | (7,022) |
| Service Line Replacements | - | (21,199) | (20,000) | 106% | (33,456) |
| Valve Replacements | - | (7,096) | (10,000) | 71% | (13) |
| Main & 1st Street Building Retrofit | - | (4,080) | (35,000) | 12% | - |
| Phase 1 - Recycled Water System | - | (1,879) | (900,000) | 0% | - |
| SCADA Improvements | - | - | (15,000) | 0% | - |
| Meter Read Collection System | - | (181) | (35,000) | 1% | (42,141) |
| **Total Capital Improvements** | **(18,013)** | **(219,023)** | **(1,235,000)** | **18%** | **(82,810)** |
| **Capital Outlay** | | | | | |
| Communications Systems Upgrade | - | - | - | N/A | - |
| Backhoe | - | - | - | N/A | - |
| Truck(s) | - | (28,286) | (40,000) | 71% | (39,731) |
| Other Equipment | - | - | (10,000) | 0% | - |
| **Total Capital Outlay** | **-** | **(28,286)** | **(50,000)** | **57%** | **(39,731)** |
| **TOTAL CAPITAL** | **(18,013)** | **(247,308)** | **(1,285,000)** | **19%** | **(122,542)** |
| **INCOME (AFTER CAPITAL EXPENSES)** | **19,768** | **(92,179)** | **(1,143,000)** | **8%** | **573,272** |
| **Loan & Debt Repayment** | | | | | |
| Recycled Water System (Grant Revenues) | - | - | 300,000 | 0% | - |
| Recycled Water System (Loan Proceeds) | - | - | 500,000 | 0% | - |
| **CASH DIFFERENCE** | **19,768** | **(92,179)** | **(343,000)** | 27% | **573,272** |
| Add Back Capitalized Assets | 18,013 | 247,308 | 1,285,000 | 19% | 122,542 |
| Less Depreciation Expense | (31,666.67) | (348,333.33) | (380,000) | 92% | (360,602) |
| Less OPEB Expense - Not Funded | - | - | - | N/A | (71,263) |

**Treatment Plant**
**Statement of Revenues and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| Description | November 2018 | YTD 2018 | ANNUAL BUDGET 2018 | 92% OF BUDGET | YEAR END 2017 |
|---|---|---|---|---|---|
| **Non-Rate Operational Revenues** | | | | | |
| Reimbursements from CR's | 134,206 | 968,011 | $ 1,420,900 | 68% | $ 1,189,748 |
| Miscellaneous Income | - | - | - | N/A | - |
| **Total Non-Rate Operational Revenues** | **134,206** | **968,011** | **1,420,900** | **68%** | **1,189,748** |
| **Salaries & Benefits** | | | | | |
| *BPOU TP Labor (1)* | 23,412 | 284,965 | 278,800 | 102% | 282,605 |
| Contract Labor | - | - | - | N/A | - |
| **Total Salaries & Benefits** | **23,412** | **284,965** | **278,800** | **102%** | **282,605** |
| **Supply & Treatment** | | | | | |
| NDMA, 1,4-Dioxane Treatment | 5,975 | 206,844 | 170,000 | 122% | 195,826.73 |
| VOC Treatment | - | 1,756 | 17,800 | 10% | 25,373.87 |
| Perchlorate Treatment | 91,294 | 418,205 | 415,000 | 101% | 315,421.42 |
| Other Chemicals | 1,378 | 14,148 | 16,600 | 85% | 17,829 |
| Treatment Plant Power | 12,658 | 171,539 | 202,700 | 85% | 174,702.82 |
| Treatment Plant Maintenance | 682 | 18,460 | 75,000 | 25% | 19,347.14 |
| Well & Pump Maintenance | - | 8,959 | 20,000 | 45% | 16,314.93 |
| **Total Supply & Treatment** | **111,988** | **839,911** | **917,100** | **92%** | **764,816** |
| **Other Operating Expenses** | | | | | |
| General Plant | 984 | 14,714 | 45,000 | 33% | 12,311.60 |
| Transmission & Distribution | - | 198 | - | N/A | 1,320.76 |
| Vehicles & Equipment | 877 | 10,240 | 10,000 | 102% | 10,412.75 |
| Field Support & Other Expenses | - | 55 | 15,000 | 0% | - |
| Regulatory Compliance | 21,857 | 86,446 | 107,000 | 81% | 96,395.21 |
| **Total Other Operating Expenses** | **23,717** | **111,653** | **177,000** | **63%** | **120,440** |
| **General & Administrative** | | | | | |
| District Office Expenses | - | - | 10,000 | 0% | - |
| Insurance | - | 9,153 | 18,000 | 51% | 9,756.84 |
| Professional Services | - | 7,296 | 20,000 | 36% | 12,130.26 |
| **Total General & Administrative** | **-** | **16,448** | **48,000** | **34%** | **21,887** |
| **TOTAL EXPENSES** | **159,117** | **1,252,977** | **1,420,900** | 88% | **1,189,748** |
| **TOTAL OPERATIONAL INCOME** | **(24,911)** | **(284,965)** | **-** | **-** | **-** |
| **Capital Outlay** | | | | | |
| Scada Computer | - | - | - | N/A | - |
| **Total Capital Outlay** | **-** | **-** | **-** | N/A | **-** |
| Depreciation Expense | (15,000) | (165,000) | (180,000) | 92% | (165,346) |
| **Total Non-Cash Items (Dep. & OPEB)** | **(15,000)** | **(165,000)** | **(180,000)** | **92%** | **(165,346)** |
| **NET INCOME (LOSS)** | **$ (39,911)** | **$ (449,965)** | **$ (180,000)** | **250%** | **$ (165,346)** |

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**
**Statement of Revenue and Expenses Summary**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| DESCRIPTION | November 2018 | FISCAL YTD 2018-2019 | BUDGET FY 2018-2019 | 42% OF BUDGET | FY END 2017-2018 |
|---|---|---|---|---|---|
| Total Operational Revenues | $ 199,717 | $ 904,869 | $ 2,026,800 | 45% | $ 1,920,277 |
| Total Non-Operational Revenues | - | - | 30,000 | 0% | 40,307 |
| **TOTAL REVENUES** | **199,717** | **904,869** | **2,056,800** | **44%** | **1,960,584** |
| Total Salaries & Benefits | 56,993 | 290,015 | 668,600 | 43% | 644,392 |
| Total Supply & Treatment | 3,188 | 71,421 | 848,565 | 8% | 607,538 |
| Total Other Operating Expenses | 4,075 | 50,893 | 171,500 | 30% | 149,475 |
| Total General & Administrative | 879 | 73,262 | 301,568 | 24% | 245,510 |
| Total Other & System Improvements | - | - | 120,800 | 0% | 45,748 |
| **TOTAL EXPENSES** | **65,135** | **485,590** | **2,111,000** | **23%** | **1,692,664** |
| **OPERATING INCOME** | **134,582** | **419,279** | **(54,200)** | **-774%** | **267,920** |
| **NET INCOME (LOSS)** | **$ 134,582** | **$ 419,279** | **$ (54,200)** | **-774%** | **$ 267,920** |

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**
**Statement of Revenue and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| DESCRIPTION | November 2018 | FISCAL YTD 2018-2019 | BUDGET FY 2018-2019 | 42% OF BUDGET | FY END 2017-2018 |
|---|---|---|---|---|---|
| **Operational Revenues** | | | | | |
| Water Sales | $ 129,177 | $ 599,234 | $ 1,317,750 | 45.47% | $ 1,206,751 |
| Service Charges | 55,903 | 251,485 | 600,000 | 41.91% | 598,493 |
| Customer Charges | 1,495 | 7,740 | 21,000 | 36.86% | 20,000 |
| Fire Service | 13,143 | 46,410 | 88,000 | 52.74% | 95,032 |
| **Total Operational Revenues** | **199,717** | **904,869** | **2,026,800** | **44.65%** | **1,920,277** |
| **Non-Operational Revenues** | | | | | |
| Contamination Reimbursement | - | - | 30,000 | 0.00% | 40,267 |
| Developer Fees | - | - | - | N/A | - |
| Miscellaneous Income | - | - | - | N/A | 39 |
| **Total Non-Operational Revenues** | **-** | **-** | **30,000** | **0.00%** | **40,307** |
| **TOTAL REVENUES** | **199,717** | **904,869** | **2,056,800** | **43.99%** | **1,960,584** |
| **Salaries & Benefits** | | | | | |
| Administrative Salaries | 16,129 | 86,045 | 186,800 | 46.06% | 190,967 |
| Field Salaries | 20,360 | 99,409 | 238,000 | 41.77% | 219,465 |
| Employee Benefits | 12,756 | 63,590 | 149,000 | 42.68% | 143,834 |
| Pension Plan | 5,159 | 26,184 | 57,440 | 45.59% | 54,946 |
| Payroll Taxes | 2,590 | 13,188 | 30,360 | 43.44% | 29,215 |
| Workman's Compensation | - | 1,598 | 7,000 | 22.83% | 5,964 |
| **Total Salaries & Benefits** | **56,993** | **290,015** | **668,600** | **43.38%** | **644,392** |
| **Supply & Treatment** | | | | | |
| Purchased Water - Leased | - | - | 377,614 | 0.00% | 326,781 |
| Purchased Water - Other | 1,766 | 8,460 | 17,500 | 48.34% | 17,128 |
| Power | 1,423 | 51,425 | 120,000 | 42.85% | 119,441 |
| Assessments | - | 11,030 | 184,752 | 5.97% | 135,945 |
| Treatment | - | - | 6,200 | 0.00% | 4,834 |
| Well & Pump Maintenance | - | 506 | 142,500 | 0.35% | 3,409 |
| **Total Supply & Treatment** | **3,188** | **71,421** | **848,565** | **8.42%** | **607,538** |
| **Other Operating Expenses** | | | | | |
| General Plant | 149 | 2,615 | 10,500 | 24.90% | 4,932 |
| Transmission & Distribution | 582 | 30,907 | 64,000 | 48.29% | 54,395 |
| Vehicles & Equipment | - | - | 32,000 | 0.00% | 31,553 |
| Field Support & Other Expenses | 1,174 | 10,869 | 35,000 | 31.05% | 31,104 |
| Regulatory Compliance | 2,169 | 6,502 | 30,000 | 21.67% | 27,491 |
| **Total Other Operating Expenses** | **4,075** | **50,893** | **171,500** | **29.68%** | **149,475** |

**INDUSTRY PUBLIC UTILITIES - WATER OPERATIONS**
**Statement of Revenue and Expenses**
**For the Period Ending November 30, 2018**
**(Unaudited)**

| DESCRIPTION | November 2018 | FISCAL YTD 2018-2019 | BUDGET FY 2018-2019 | 42% OF BUDGET | FY END 2017-2018 |
|---|---|---|---|---|---|
| **General & Administrative** | | | | | |
| Management Fee | - | 46,428 | 187,568 | 24.75% | 183,891 |
| Office Expenses | 642 | 4,295 | 21,000 | 20.45% | 17,478 |
| Insurance | - | 11,321 | 15,000 | 75.47% | 5,667 |
| Professional Services | - | 2,323 | 45,000 | 5.16% | 15,576 |
| Customer Accounts | 223 | 5,753 | 16,000 | 35.95% | 16,247 |
| Public Outreach & Conservation | 14 | 2,188 | 15,000 | 14.59% | 3,923 |
| Other Administrative Expenses | - | 955 | 2,000 | 47.74% | 2,727 |
| **Total General & Administrative** | **879** | **73,262** | **301,568** | **24.29%** | **245,510** |
| **Other Expenses & System Improvements (Water Operations Fund)** | | | | | |
| Transfer to Capital or Expense | - | - | - | N/A | - |
| Developer Capital Contributions | - | - | - | N/A | - |
| Developer Project | - | - | - | N/A | - |
| Developer Project | - | - | - | N/A | - |
| Developer Project | - | - | - | N/A | - |
| Developer Project - | - | - | - | N/A | - |
| Developer Project - | - | - | - | N/A | - |
| Developer Project - | - | - | - | N/A | - |
| **Net Developer Project Activity** | - | - | - | - | - |
| Master Plan Update / Hydraulic Model | - | - | - | N/A | - |
| Other System Improvements (Materials) | - | - | - | N/A | - |
| FH Laterals | - | - | 6,300 | 0.00% | 790 |
| Service Line Replacements | - | - | 30,000 | 0.00% | 31,693 |
| Valve Replacements | - | - | 19,500 | 0.00% | 5,874 |
| Plant Electrical System Improvements | - | - | - | N/A | - |
| Meter Installations - Industry Hills | - | - | - | 0.00% | 7,391 |
| Meter Read Collection System | - | - | 25,000 | 0.00% | - |
| SCADA System Assessment & Upgrades | - | - | 40,000 | 0.00% | - |
| **Total Other & System Improvements** | **-** | **-** | **120,800** | **0.00%** | **45,748** |
| **TOTAL EXPENSES** | **65,135** | **485,590** | **2,111,000** | **23.00%** | **1,692,664** |
| **OPERATING INCOME** | **134,582** | **419,279** | **(54,200)** | **N/A** | **267,920** |

# Memo

To: Honorable Board of Directors

From: Greg B. Galindo, General Manager

Date: December 14, 2018

Re: 2019 Cost of Living Adjustment and Salary Schedule Adjustment

---

***Summary***

As customary of this District, a cost of living adjustment (COLA) of all District Employees salaries is considered each year. It is the duty of the General Manager to recommend to the Board what increase is in the best interest of the District. In past years, this recommendation has been based on the increase of the Consumer Price Index (CPI) for urban wage earners and clerical workers in our region. Although, this is the basis for the recommendation other factors are considered, such as the change in the cost for providing health benefits for District employees.

Over this past year, the annual average of the CPI for our region increased by an estimated 3.98%. For your reference, I have attached the data from the U.S. Department of Labor detailing the historical CPI for our region, for US Cities and for US Western Cities. In addition, I have included a table depicting the District's COLA calculations for the past several years.

For calendar year 2018, The Board of Directors decided to approve a 2% COLA, which was .74% less than the change in CPI. This decision was made to minimize the impact of the increasing cost for employee health benefits in 2018. In preparing my recommendation for the 2019 COLA, I analyzed the fiscal impact the adjustment to salaries will have along with the change in the cost of providing health benefits to the employees. In 2019, I project that the cost of providing health benefits for employees will increase by an average of 1.9% and the cost of providing pension benefits for employees will increase slightly as well.

***Recommendation***

For calendar year 2019, I recommend a 3% COLA be applied to all employee salaries and to salary ranges for each position. Enclosed is a revised District salary schedule with the proposed 3% adjustment to the ranges.

Thank you for your consideration on this matter. If you have any question, please feel free to contact me.

***Enclosures:***

1. Summary of CPI and Changes to COLA
2. CPI Tables for US, Western Cities & Los Angels
3. Proposed Salary Schedule (adjusted 3%)

**Summary of CPI Changes and Cost of Living Adjustments**

**2014 CPI Increase Calculation**

| | 2012 | 2013 | Point Change | Point Change / 2012 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 229.649 | 232.234 | 2.585 | 0.0113 | 1.13% |

**2015 CPI Increase Calculation**

| | 2013 | 2014 | Point Change | Point Change / 2013 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 232.234 | 235.273 | 3.039 | 0.0131 | 1.31% |

**2016 CPI Increase Calculation**

| | 2014 | 2015 | Point Change | Point Change / 2014 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 235.273 | 236.646 | 1.373 | 0.0058 | 0.58% |

**2017 CPI Increase Calculation**

| | 2015 | 2016 | Point Change | Point Change / 2015 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 236.646 | 240.140 | 3.494 | 0.0148 | 1.48% |

**2018 CPI Increase Calculation**

| | 2016 | 2017 | Point Change | Point Change / 2016 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 240.140 | 246.722 | 6.582 | 0.0274 | 2.74% |

**2019 CPI Increase Calculation**

| | 2017 | 2018 | Point Change | Point Change / 2017 | Percentage Change |
|---|---|---|---|---|---|
| CPI Annual Average | 244.899 | 254.620 | 9.721 | 0.0397 | 3.97% |

Based on US Department of Labor -Bureau of Labor and Statisticts' Consumer Price Index-
Urban Wage Earners and Clerical Workers (Los Angeles, Riverside and Orange Counties)

| 2014 Approved COLA | 2015 Approved COLA | 2016 Approved COLA | 2017 Approved COLA | 2018 Approved COLA | 2019 Recommended COLA |
|---|---|---|---|---|---|
| 1.00% | 1.35% | 1.00% | 0.00% | **2.00%** | **3.00%** |
| -0.13% | 0.04% | 0.42% | -1.48% | **-0.74%** | **-0.98%** |
| Adjusted downward to cover increase in benefits | Board approved a 1.35 % which was .04% over the CPI Increase | Board approved a 1% which was .42% over the CPI Increase | Adjusted downward to cover increase in benefits | Adjusted downward slightly to cover increase in benefits | |

## CPI-Urban Wage Earners and Clerical Workers (Curre
## Original Data Value

**Series Id:** CWUR0000SA0
**Not Seasonally Adjusted**
**Series** All items in U.S. city average, urban wage earners and
**Area:** U.S. city average
**Item:** All items
**Base** 1982-84=100
**Years:** 2008 to 2018

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | HALF1 | HALF2 | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2008** | 206.744 | 207.254 | 209.147 | 210.698 | 212.788 | 215.223 | 216.304 | 215.247 | 214.935 | 212.182 | 207.296 | 204.813 | 210.309 | 211.796 | |
| **2009** | 205.700 | 206.708 | 207.218 | 207.925 | 208.774 | 210.972 | 210.526 | 211.156 | 211.322 | 211.549 | 212.003 | 211.703 | 207.883 | 211.377 | 3.36% |
| **2010** | 212.568 | 212.544 | 213.525 | 213.958 | 214.124 | 213.839 | 213.898 | 214.205 | 214.306 | 214.623 | 214.750 | 215.262 | 213.426 | 214.507 | 1.68% |
| **2011** | 216.400 | 217.535 | 220.024 | 221.743 | 222.954 | 222.522 | 222.686 | 223.326 | 223.688 | 223.043 | 222.813 | 222.166 | 220.196 | 222.954 | 3.21% |
| **2012** | 223.216 | 224.317 | 226.304 | 227.012 | 226.600 | 226.036 | 225.568 | 227.056 | 228.184 | 227.974 | 226.595 | 225.889 | 225.581 | 226.878 | 1.68% |
| **2013** | 226.520 | 228.677 | 229.323 | 228.949 | 229.399 | 230.002 | 230.084 | 230.359 | 230.537 | 229.735 | 229.133 | 229.174 | 228.812 | 229.837 | 1.45% |
| **2014** | 230.040 | 230.871 | 232.560 | 233.443 | 234.216 | 234.702 | 234.525 | 234.030 | 234.170 | 233.229 | 231.551 | 229.909 | 232.639 | 232.902 | 0.32% |
| **2015** | 228.294 | 229.421 | 231.055 | 231.520 | 232.908 | 233.804 | 233.806 | 233.366 | 232.661 | 232.373 | 231.721 | 230.791 | 231.167 | 232.453 | 0.38% |
| **2016** | 231.061 | 230.972 | 232.209 | 233.438 | 234.436 | 235.289 | 234.771 | 234.904 | 235.495 | 235.732 | 235.215 | 235.390 | 232.901 | 235.251 | 1.99% |
| **2017** | 236.854 | 237.477 | 237.656 | 238.432 | 238.609 | 238.813 | 238.617 | 239.448 | 240.939 | 240.573 | 240.666 | 240.526 | 237.974 | 240.128 | 2.18% |
| **2018** | 241.919 | 242.988 | 243.463 | 244.607 | 245.770 | 246.196 | 246.155 | 246.336 | 246.565 | 247.038 | 246.551 | 247.260 | 244.157 | 246.473 | 2.80% |

Estimated

**CPI-Urban Wage Earners and Clerical Workers (Current S**
**Original Data Value**

**Series Id:** CWUR0400SA0
**Not Seasonally Adjusted**
**Series** All items in West urban, urban wage earners and clerical
**Area:** West
**Item:** All items
**Base** 1982-84=100
**Years:** 2008 to 2018

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | HALF1 | HALF2 | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2008** | 210.342 | 210.816 | 213.159 | 214.355 | 216.029 | 218.508 | 219.248 | 217.854 | 217.028 | 215.499 | 210.870 | 208.088 | 214.316 | 213.868 | 214.765 | |
| **2009** | 209.367 | 210.492 | 210.661 | 211.386 | 212.263 | 213.973 | 213.541 | 213.988 | 214.490 | 214.718 | 214.228 | 213.919 | 212.752 | 211.357 | 214.147 | -0.73% |
| **2010** | 214.664 | 214.710 | 215.457 | 215.873 | 216.044 | 215.681 | 215.824 | 216.048 | 215.804 | 216.273 | 216.267 | 216.847 | 215.791 | 215.405 | 216.177 | 1.43% |
| **2011** | 217.995 | 219.368 | 221.830 | 223.268 | 223.944 | 223.237 | 222.815 | 223.204 | 224.237 | 224.268 | 223.785 | 222.968 | 222.577 | 221.607 | 223.546 | 3.14% |
| **2012** | 223.849 | 224.956 | 227.271 | 227.686 | 228.189 | 227.543 | 226.460 | 227.681 | 228.798 | 229.849 | 227.767 | 226.585 | 227.220 | 226.582 | 227.857 | 2.09% |
| **2013** | 227.197 | 229.319 | 230.226 | 230.056 | 230.555 | 230.723 | 230.882 | 231.084 | 231.553 | 231.244 | 230.390 | 230.356 | 230.299 | 229.679 | 230.918 | 1.36% |
| **2014** | 230.937 | 231.785 | 233.375 | 234.081 | 235.579 | 235.845 | 236.051 | 235.820 | 235.974 | 235.343 | 233.499 | 232.108 | 234.200 | 233.600 | 234.799 | 1.69% |
| **2015** | 230.843 | 232.364 | 234.802 | 235.222 | 237.509 | 237.441 | 238.151 | 237.791 | 236.999 | 236.728 | 236.003 | 235.728 | 235.798 | 234.697 | 236.900 | 0.68% |
| **2016** | 236.888 | 236.747 | 237.415 | 238.757 | 239.973 | 240.365 | 240.395 | 240.291 | 241.052 | 241.744 | 241.167 | 241.098 | 239.658 | 238.358 | 240.958 | 1.64% |
| **2017** | 242.384 | 243.810 | 244.489 | 245.454 | 246.096 | 246.155 | 246.373 | 246.978 | 248.379 | 248.883 | 248.863 | 249.055 | 246.410 | 244.731 | 248.089 | 2.82% |
| **2018** | 250.416 | 251.704 | 252.644 | 253.933 | 255.316 | 255.804 | 255.931 | 256.311 | 256.950 | 258.149 | 256.978 | 256.369 | 255.042 | 253.303 | 256.781 | 3.50% |

Estimated

## CPI-Urban Wage Earners and Clerical Workers (Curre
## Original Data Value

**Series Id:** CWURS49ASA0
**Not Seasonally Adjusted**
**Series** All items in Los Angeles-Long Beach-Anaheim, CA,
**Area:** Los Angeles-Long Beach-Anaheim, CA
**Item:** All items
**Base** 1982-84=100
**Years:** 2008 to 2018

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | HALF1 | HALF2 | % Change |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2008** | 213.825 | 214.231 | 216.493 | 217.914 | 219.702 | 222.435 | 223.245 | 221.230 | 220.285 | 218.726 | 214.083 | 211.007 | 217.765 | 217.433 | 218.096 | |
| **2009** | 212.454 | 213.234 | 213.013 | 213.405 | 214.446 | 216.145 | 216.128 | 216.628 | 217.302 | 217.474 | 216.618 | 216.233 | 215.257 | 213.783 | 216.730 | -1.15% |
| **2010** | 217.290 | 217.090 | 218.157 | 218.475 | 218.787 | 218.222 | 218.367 | 218.752 | 218.427 | 219.339 | 218.694 | 219.619 | 218.435 | 218.004 | 218.866 | 1.48% |
| **2011** | 221.540 | 222.814 | 225.770 | 227.051 | 226.842 | 225.461 | 224.277 | 224.665 | 226.096 | 226.116 | 225.786 | 224.444 | 225.072 | 224.913 | 225.231 | 3.04% |
| **2012** | 226.245 | 227.585 | 230.281 | 230.023 | 230.180 | 228.917 | 228.446 | 230.229 | 231.085 | 233.431 | 230.426 | 228.940 | 229.649 | 228.872 | 230.426 | 2.03% |
| **2013** | 230.651 | 232.983 | 233.200 | 232.030 | 232.387 | 232.378 | 232.190 | 232.245 | 232.817 | 232.735 | 231.598 | 231.594 | 232.234 | 232.271 | 232.197 | 1.13% |
| **2014** | 232.578 | 233.886 | 235.500 | 235.717 | 236.647 | 236.880 | 236.963 | 236.504 | 236.451 | 235.921 | 233.896 | 232.330 | 235.273 | 235.201 | 235.344 | 1.31% |
| **2015** | 231.063 | 232.975 | 235.991 | 235.697 | 238.816 | 237.792 | 239.889 | 238.755 | 237.324 | 237.472 | 237.190 | 236.787 | 236.646 | 235.389 | 237.903 | 0.58% |
| **2016** | 238.609 | 238.262 | 239.146 | 239.536 | 240.320 | 240.522 | 240.580 | 240.267 | 240.851 | 241.932 | 240.809 | 240.846 | 240.140 | 239.399 | 240.881 | 1.48% |
| **2017** | 242.735 | 244.254 | 244.932 | 245.417 | 246.153 | 245.900 | 246.681 | 247.260 | 248.550 | 249.234 | 249.680 | 249.854 | 246.721 | 244.899 | 248.543 | 2.74% |
| **2018** | 251.785 | 253.243 | 254.451 | 255.379 | 256.652 | 256.208 | 256.632 | 257.318 | 258.246 | 259.899 | 258.964 | 258.190 | 256.414 | 254.620 | 258.208 | 3.93% |

Estimated

**La Puente Valley County Water District**

**Salary Schedule - Proposed for Calendar Year 2019**

| Range | Position | Time | Proposed | | |
|---|---|---|---|---|---|
| | | | Begin | Mid | End |
| GM | General Manager | Annual | **$ 118,277** | **$ 138,963** | **$ 159,650** |
| | | Month | $ 9,856 | $ 11,580 | $ 13,304 |
| | | Hour | $ 56.86 | $ 66.81 | $ 76.75 |
| ECM | Engineering & Compliance Manager | Annual | **$ 86,108** | **$ 96,872** | **$ 107,635** |
| | | Month | $ 7,176 | $ 8,073 | $ 8,970 |
| | | Hour | $ 41.40 | $ 46.57 | $ 51.75 |
| OM | Office Manager | Annual | **$ 81,988** | **$ 92,237** | **$ 102,485** |
| | | Month | $ 6,832 | $ 7,686 | $ 8,540 |
| | | Hour | $ 39.42 | $ 44.34 | $ 49.27 |
| WTS | Water Treatment & Supply Supervisor | Annual | **$ 81,988** | $ 92,237 | **$ 102,485** |
| | | Month | $ 6,832 | $ 7,686 | $ 8,540 |
| | | Hour | $ 39.42 | $ 44.34 | $ 49.27 |
| WDS | Water Distribution Supervisor | Annual | **$ 73,336** | **$ 82,503** | **$ 91,670** |
| | | Month | $ 6,111 | $ 6,875 | $ 7,639 |
| | | Hour | $ 35.26 | $ 39.66 | $ 44.07 |
| LWT | Lead Water System Operator (Treatment) | Annual | **$ 66,744** | **$ 75,087** | **$ 83,430** |
| | | Month | $ 5,562 | $ 6,257 | $ 6,953 |
| | | Hour | $ 32.09 | $ 36.10 | $ 40.11 |
| LWD | Lead Water System Operator (Distribution) | Annual | **$ 63,448** | **$ 71,379** | **$ 79,310** |
| | | Month | $ 5,287 | $ 5,948 | $ 6,609 |
| | | Hour | $ 30.50 | $ 34.32 | $ 38.13 |
| WSOII | Water System Operator II | Annual | **$ 59,328** | **$ 66,744** | **$ 74,160** |
| | | Month | $ 4,944 | $ 5,562 | $ 6,180 |
| | | Hour | $ 28.52 | $ 32.09 | $ 35.65 |
| WSOI | Water System Operator I | Annual | **$ 54,384** | **$ 61,182** | **$ 67,980** |
| | | Month | $ 4,532 | $ 5,099 | $ 5,665 |
| | | Hour | $ 26.15 | $ 29.41 | $ 32.68 |
| WMW | Water System Maintenance Worker | Annual | **$ 48,616** | **$ 54,693** | **$ 60,770** |
| | | Month | $ 4,051 | $ 4,558 | $ 5,064 |
| | | Hour | $ 23.37 | $ 26.29 | $ 29.22 |
| LCS | Lead Customer Support & Accounting Clerk | Annual | **$ 51,912** | **$ 58,401** | **$ 64,890** |
| | | Month | $ 4,326 | $ 4,867 | $ 5,408 |
| | | Hour | $ 24.96 | $ 28.08 | $ 31.20 |
| CSII | Customer Support & Accounting Clerk II | Annual | **$ 46,968** | **$ 52,839** | **$ 58,710** |
| | | Month | $ 3,914 | $ 4,403 | $ 4,893 |
| | | Hour | $ 22.58 | $ 25.40 | $ 28.23 |
| CSI | Customer Support & Accounting Clerk I | Annual | **$ 37,492** | **$ 45,526** | **$ 53,560** |
| | | Month | $ 3,124 | $ 3,794 | $ 4,463 |
| | | Hour | $ 18.03 | $ 21.89 | $ 25.75 |


# DRAFT

## ANNUAL BUDGET

## Year Ending December 31, 2019

BOARD OF DIRECTORS

| | |
|---|---|
| William R. Rojas | President |
| John P. Escalera | Vice President |
| Cesar Barajas | Director |
| David Hastings | Director |
| Henry P. Hernandez | Director |

**Prepared by:** Greg B. Galindo, General Manager


THE LA PUENTE VALLEY COUNTY WATER DISTRICT BOARD OF DIRECTORS AND STAFF ARE DEDICATED TO PROVIDING OUR CUSTOMERS HIGH QUALITY WATER, ALONG WITH COURTEOUS AND RESPONSIVE CUSTOMER SERVICE AT THE MOST REASONABLE COST.

# Table of Contents

## *Sections*



## *Figures*

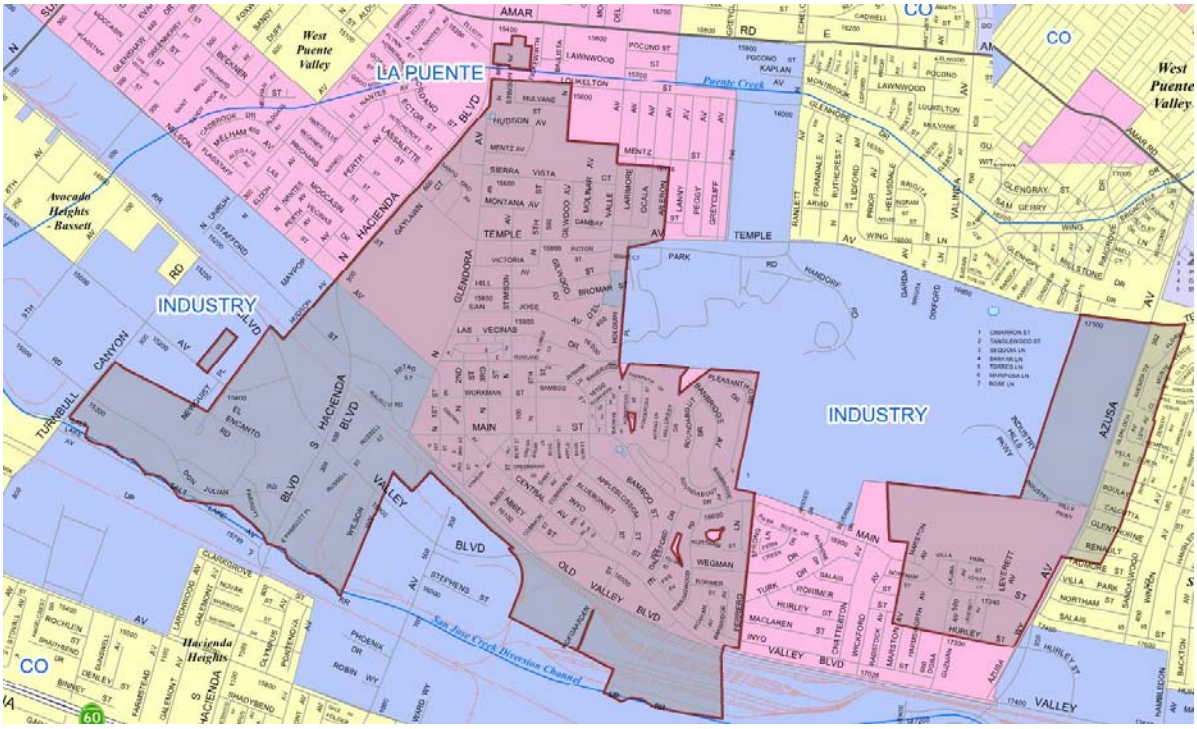


## *Tables*

## About La Puente Valley County Water District

La Puente Valley County Water District provides safe, reliable and cost-effective drinking water to approximately 9,600 people within the communities of La Puente and the City of Industry. The District has been providing water service to these communities for over 94 years. The District was formed in August 1924 by popular vote, in accordance with the County Water District Act of 1913. In its infancy, the District consisted of approximately 1,300 acres and 200 water service connections. The area was vastly different from what it is today. At that time, most of the water produced from the District's Well Field was delivered to meet agricultural irrigation needs of the valley. Over the years, the District has grown to approximately 1,600 acres and over 2,500 water service connections. To this day, the District's Well Field continues to be the main source of supply to meet the needs of the District's customers. The boundary map of the District's service area is provided in **Figure 1.1**.

**Figure 1.1 - Boundary Map of District's Service Area**




A publicly elected, five-member Board of Directors governs the District. Board members serve four-year terms and elections are held every two years with terms staggered to ensure continuity. The Board is responsible for establishing District policy on a variety of issues including, but not limited to, financial planning, infrastructure investment, and water rates. Day-to-day operations are managed by the General Manager who oversees a highly-qualified staff responsible for executing ongoing operational and administrative functions. The District's employees include certified water treatment and distribution operators and an experienced administrative staff.

The District's Water System includes approximately 2,550 service connections, more than 32 miles of distribution and transmission mains, 4 wells, a state of the art groundwater treatment

facility, 5 booster pump stations, 4 pressure regulating stations and 3 reservoirs. In addition, the District manages and operates the Industry Public Utilities Water System, which includes 1,860 service connections, 34.4 miles of distribution and transmission mains, 1 active well, 5 booster pump stations, and 3 reservoirs.

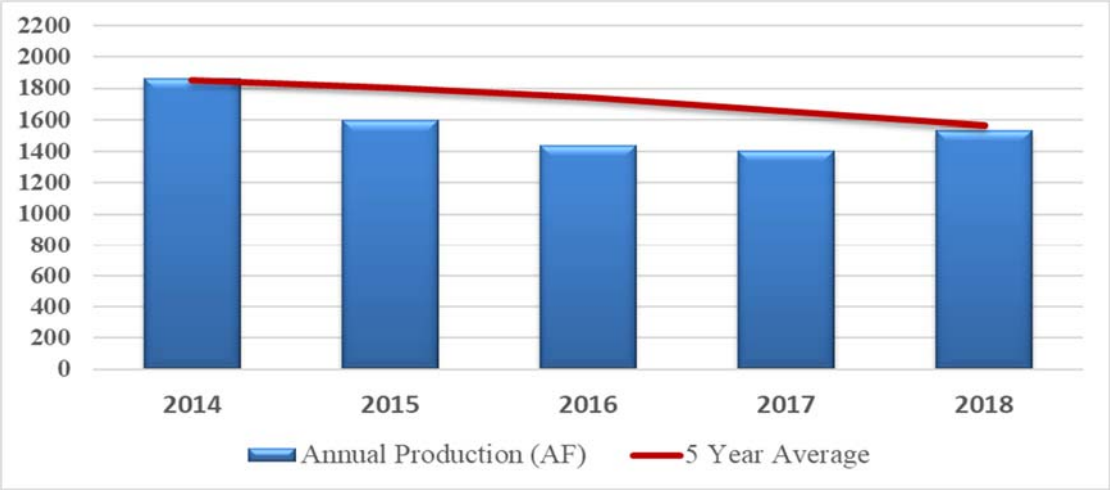
### Service Area Trends

Land use in the portion of the City of La Puente bounded by the District's service area is primarily residential with some commercial, public/institutional, and open space areas. Land use in the portion of the City of Industry bounded by the District's service area is primarily commercial and industrial. This portion of the District's service area is also, for the most part, fully developed. Population data for the City of Industry shows little or no growth over the next 20 years. District Staff projects that most, if not all, future developments within this portion of the District's service area will be redevelopment of commercial properties that may or may not have an impact on the water system's water demand.

Portions of the City of La Puente bounded by the District's service area are also, for the most part, fully developed. Based on the current and projected trends, the long-term population growth is projected to increase at a rate of approximately 1.0% per year. In recent years, developments within this portion of the District's service area have been infill residential type of developments. With the exception of one development in 2017, developments in the District's service area have not required major infrastructure additions and typically are accommodated by the installation of new service connections from existing water main lines, however these types of development do increase the system's water supply based on the historic water use at the developed site.

The annual amount of water used within the District's water system (water system demand) over the last 10 years (2009-2018) has averaged 1,720 acre-feet (AF). The water system demand over the past 5 years (2014-18) has been 1,566 AF. In 2018, the water system demand was approximately 9% greater than in 2017, but 2% less than compared to the 5-year average. The low water demand in 2017 was driven mainly by water conservation efforts in response to the multi-year historic State drought conditions (2012-2016). In May 2015, the District's Board of Directors adopted Resolution No. 229, which re-declared emergency water conservation restrictions and adopted the revised State Water Resources Control Board Regulations. The adopted outdoor water use restrictions yielded a substantial reduction in water system demand from 2015 through 2017. The reduction in water use has also had a significant impact on water sales revenue in 2015, 2016 and 2017. **Figure 1.2** displays the water system demand in AF for a 5-year period compared to the rolling five-year average.

**Figure 1.2 - Years 2014-2018 Annual Water System Demand**




## Water Supply and Cost of Water

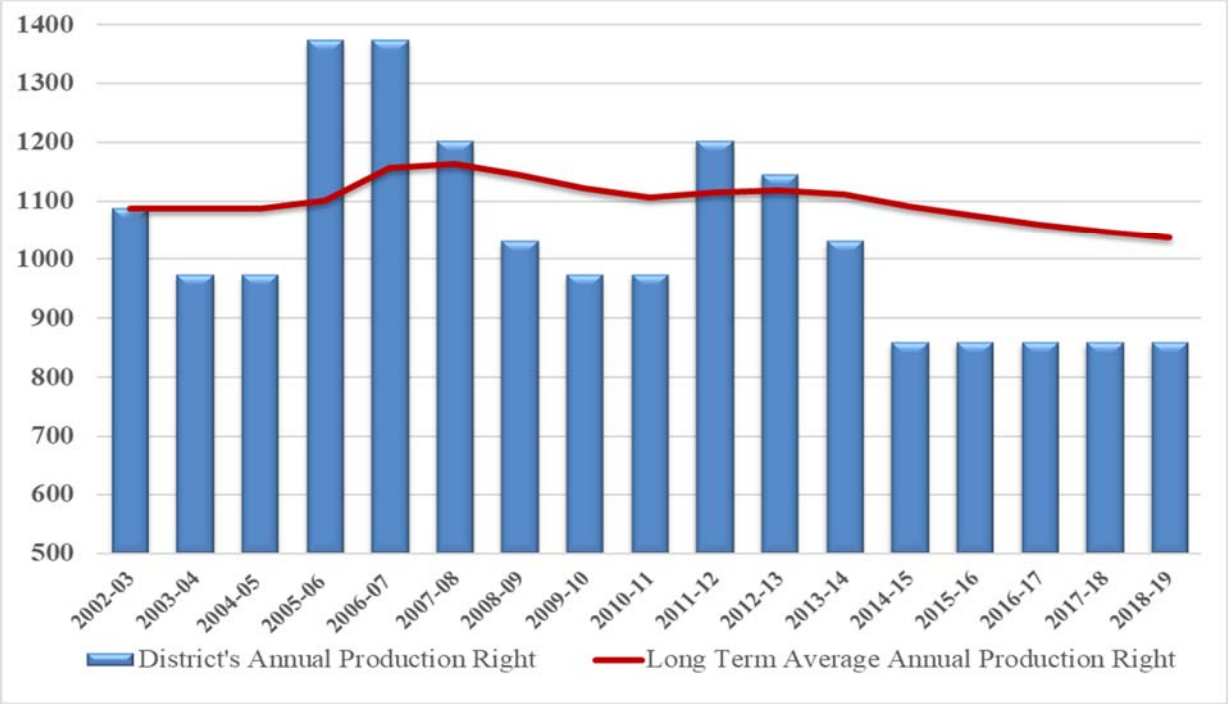
The District's primary source of supply is from three ground water wells that produce water from the adjudicated Main San Gabriel Basin (Basin). The groundwater rights in the Basin were adjudicated on the basis of mutual prescription resulting in a specific quantity in acre-feet per year for each producer. Such rights were then converted to a Pumper's Share, expressed in percent of the aggregate of all prescriptive rights. The District was adjudicated 1,097.00 acre feet of water rights based on groundwater production that occurred between calendar years 1953 and 1967. Subsequently, the District obtained the water rights of El Encanto Properties on July 22, 1974, in the amount of 33.40 acre-feet. Thus, the District's total adjudicated water rights are 1,130.40 acre-feet. This represents 0.57197 percent (Pumper's Share) of all adjudicated water rights in the Basin.

Under the Main San Gabriel Basin Judgment, the Main San Gabriel Basin Watermaster (Watermaster) annually establishes the Operating Safe Yield (OSY) for the ensuing year. This is done mainly on the basis of groundwater storage conditions as reflected by the Baldwin Park Key Well. In order to provide sufficient storage capacity in the basin to capture as much of the local stream flow as practicable, the Judgment provides that imported supplemental water will not be spread in the Basin when the Key Well elevation exceeds 250 feet above mean sea level (msl) and will be spread, insofar practicable, to maintain the elevation above 200 feet msl. Each year a producer is allowed to extract, free of Replacement Water Assessment, its share of the OSY which is established in May each year by the Watermaster. This annual share is referred to as the annual production right. Any producer can extract all the water needed for beneficial use, but the portion of such extraction, which exceeds the annual production right of the OSY, is assessed at a rate (Replacement Water Assessment), which will purchase one acre-foot of imported supplemental water for each acre-foot of excess production. Such water is then purchased by the Watermaster from the appropriate Responsible Agency (municipal water district) and used to replenish the Basin. If Basin storage is low, as indicated by the key well elevation, the OSY is set at a lower level so that more Replacement Water may be purchased to increase Basin storage. If Basin storage is relatively high, the OSY is increased so that

Replacement Water will not increase Basin storage to the point that local water runoff will be un-storable.

The Main San Gabriel Basin watershed continues to be in the state of a drought. The lack of precipitation locally has resulted in a major decrease in groundwater replenishment. After recovering to normal water levels in 2011, water levels at the District's well field have declined significantly over the last seven years. Although there has been a major decline in water levels, the District remains fortunate that it's well field is located very near the middle of the Basin and that its wells were designed to yield water with no impacts to the District's groundwater pumping capacity at low Basin water levels. Due to the historic drought conditions the OSY has been set at a very low level for the last four years. This has resulted in a 18% reduction of the District's annual production right as compared to the long-term average annual production right. Approximately 40% of water the District pumps from the Basin each year to meet its water system demand, requires the District to lease production rights and/or purchase replacement water. **Figure 1.3** displays the District's annual production right and the long term annual average of its production right.

**Figure 1.3 District's Annual Production Rights (2002-2018)**




The District is located within the service area of regional water supplier Upper San Gabriel Valley Municipal Water District (Upper District). The District relies upon Upper District to deliver replacement water for every acre foot of water produced over the District's annual production right. Upper District is a member agency of the Metropolitan Water District of Southern California (MWD), which is the agency that it purchases imported water from for replenishment purposes. The vast majority of imported water is delivered through the State Water Project (SWP) Delivery System. In the past, MWD provided this water at its replenishment water rate. Between 2007 and 2010, imported water at the replenishment rate was unavailable for purchase, but was available at the MWD tier 1 and tier 2 untreated water rates, which were substantially higher. As a result of

the import water pricing change, in May 2009, the rate for the Replacement Water Assessment, set by Watermaster, was increased from $251.90 per acre foot to $450.00. In May 2018, the Replacement Water Assessment was set at $934.00 per acre foot for the 2018-19 production year, which equates to a $682.10 per acre foot increase over the last nine years.

The District was able to cushion the effect of this increase by purchasing 2,000 acre feet of cyclic storage water (in 2009) at a rate of $251.90 per acre foot. Cyclic storage water, when available, can be purchased by a producer that has a cyclic storage water agreement in place with Watermaster. Cyclic storage water is replenishment water that has already been delivered into the Basin, which can be used to offset future replenishment water obligations. This water has allowed the District to limit its replenishment water purchase to only 188 acre feet over the last nine years. Currently the District has 929 acre feet in its cyclic storage account. This water also provides a major benefit during times of drought, like we are currently facing. Over the last seven years, the District has also leased groundwater productions rights at a rate 8% to 10% lower than the cost for replacement water, which further reduced the impact of the rising cost of replenishment water. The future cost for replenishment water along with groundwater production assessments will continue to have a substantial financial impact on the District in years to come.

## Water Quality and the Cost of Water Treatment

The area of the Basin where the District's wells draw water is contaminated with various contaminants, such as volatile organic compounds (VOC's) and perchlorate. In 2002, the District along with other water entities, entered into an agreement with the parties who were potentially responsible for the groundwater contamination. This agreement is known as the Baldwin Park Operable Unit Project Agreement (BPOU Agreement). Under this Agreement, the water from the District's well field is treated at the District's groundwater treatment facility before it enters the District's service area. Water leaving the facility meets all State and Federal drinking water regulations. The cost to construct, maintain and operate the treatment facility was and continues to be reimbursed by the potentially responsible parties, who are now known as the Cooperating Respondents (CRs). None of these treatment costs are paid for through the District's water rates.

The term of the BPOU Agreement was 15 years and was set to expire in May of 2017. The District, other water entities and the CRs negotiated an extension to the BPOU Agreement (referred to as the 2017 BPOU Agreement), which has secured continued funding of groundwater treatment at the District's well field for an additional ten years.

In 2018, District staff identified that levels of nitrate in the water produced from the District's well field were increasing. Although the levels of nitrate in the water are below the regulatory maximum contaminant level for nitrate, District staff recommends moving forward, in the next two years, with the addition of a nitrate treatment system at the District's groundwater treatment facility. The capital investment and operational cost of a nitrate treatment system will have a substantial financial impact on the District and the cost for water.

## Customer Base and Water Usage

The 2,550 customer connections of the District are delineated into 6 different categories: residential, multi-family, institutional, commercial, industrial, irrigation & fire service. Dedicated fire service connections make up approximately 1.7% of the customer connections. The District bills its customers for water service and water usage on a bi-monthly basis. The District meters the water usage for each customer and bills for every hundred cubic feet (hcf) of water used (hcf =748 gallons), this is referred to as a unit of water.

Residential and multi-family connections make up approximately 83%. Residential single-family home connections comprise about 81% of all connections with multi-family accounting for 2%. The water use from these customer categories makes up approximately 58% of the water system demand. **Table 1.1** provides a summary of the number of active services by customer category and the percent of the overall water system demand for each category based on water consumption data from 2018.

**Table 1.1 Number of Active Connections by Category and Percentage of Demand**

| Customer Category | Number of Connections | % of Connections | % of Water System Demand |
|---|---|---|---|
| Residential | 1971 | 79.8% | 45% |
| Multi-Family | 54 | 2.2% | 13% |
| Commercial | 280 | 11.3% | 15% |
| Industrial | 7 | 0.3% | 6% |
| Irrigation | 86 | 3.5% | 15% |
| Public Authority | 27 | 1.1% | 6% |
| Fire Service | 44 | 1.8% | 0% |
| **Total** | **2469** | 100.0% | **100%** |

Residential per capita water use in the District averaged 83 gallons per person per day in 2018. Over the last three years, single-family residential class customers used approximately 24 units of water, on average, each bi-monthly billing period. The average Customer's bi-monthly water bill in 2018 was approximately $72.00 ($35.00 monthly) and their annual cost for potable water service was $432.00, which is less than 1% of the median household income within the District's service area.

## Water Rate Adjustments

On July 18, 2006, the Board of Directors passed Resolution No. 178, which established water and service charge rates through 2010. This resolution also specifies that rates be reviewed on an annual basis. The adopted rate increases for the years 2006, 2007 and 2008 were implemented and had increased revenue as projected. In 2008 and 2009 the District minimized the impact of rising operating expenses through the following cost saving efforts:

- Grant Funding for New Well (2008)
- Cyclic Storage Water Purchase (2009)

Due to these cost savings efforts, the Board of Directors passed Resolution No. 193 on September 9, 2009 which canceled the scheduled rate increases for 2009 and directed Staff to complete a water rate study prior to making any other water rate adjustments.

In July 2010, the Board of Directors established a Reserve Fund Policy for the District. This policy is an important tool that guides Staff in its planning of the District's financial resources. In May 2012, the Reserve Fund Policy was updated to add reserve funds for water system connection fees and retiree health benefits.

In 2010, the District's Board of Directors directed Staff to conduct an in-house water rate study, which was completed in April 2011. As part of the study, staff provided a recommendation for water rates, which would generate sufficient revenue to meet the cost of providing water service to its customers over a five-year period. The final recommendation was to adopt a multi-year (5 year) water rate adjustment plan that would avoid drastic increases to water rates. Water rate adjustments were developed and a notice to all customers of the proposed increase to water rates was provided as required by articles XIIIC and XIIID of the California Constitution (Proposition 218). The recommended rate adjustment was approximately 24%, over a five-year period, for the average customer. The rate adjustments were adopted by unanimous vote of the Board of Directors on August 22, 2011 with the first rate adjustment effective in September 2011 with subsequent adjustments instituted in September of each year with the 5$^{th}$ year adjustment instituted in September 2015.

In 2017, the District initiated another water rate study and comprehensive cost of service analysis. This study was completed by Raftelis Financial Consultants in June of 2018. The final recommendation was to adopt a multi-year (5 year) water rate adjustment plan. Water rate adjustments were developed as part of the study and a notice to all customers of the proposed increase to water rates was provided in August of 2018. Substantial increases in the District's operational expenses, as described below, were the major factors supporting the need for an increase to water rates and charges:

***Cost of Water*** – The District is fortunate to have rights to a local groundwater source in the Main San Gabriel Basin ("Basin"), but any water the District pumps over its allotment must be replaced to maintain water levels in the Basin by leasing rights or purchasing imported water. The cost for this replacement water has increased by over twenty-three percent (23%) in the last four years.

***Groundwater Management*** – A new groundwater pumping assessment has been put into effect by the Main San Gabriel Basin Watermaster in order to secure additional water resources to maintain water levels in the Basin. This assessment will have a large cost impact on the District and all water providers that pump groundwater from the Basin in the San Gabriel Valley.

***Capital Improvements*** – The District continuously invests in capital improvement projects that improve the performance of the water system or extend the life of existing facilities and equipment to avoid more expensive emergency repairs. In 2017 the District updated its Ten-Year Water

Master Plan which identified necessary improvements and prioritized projects based on their need and benefit.

The recommended rate increase is approximately 38% over a five-year period, for the average customer. The rate adjustments were adopted by unanimous vote of the Board of Directors on October 15, 2018. The first year's rate adjustment became effective the first billing cycle following October 15, 2018, with subsequent adjustments to be instituted in October of each year with the 5th year adjustment instituted in October 2022.

## The Budget

This Budget has been designed to help fulfill the District's Mission to provide high quality water along with courteous and responsive service at the most reasonable cost to our customers. The Budget is intended to support the priorities and policies of the Board of Directors as reflected in the District's Mission Statement and serve as a policy document, a financial plan, a communications device and an operations guide. It provides a comprehensive summary of District activities and capital improvement projects proposed for year ending December 31, 2019. The District is embarking on its District's 95th year of service to the community, which comes with significant challenges. Continued prudent planning of the District is paramount in positioning the District to handle these challenges long into the future.

The District's budget is prepared on a full accrual basis of accounting generally accepted in the United States, which is consistent with the District's audited financial statements. Revenues are recorded at the time they are earned and expenses are recorded at the time the liability is incurred. The intent of the District is to establish water rates sufficient to provide for payment of all operations and maintenance expenses along with capital improvements. The annual goal is to present a balanced budget (projected expenses equal to or less than projected revenues) to the Board of Directors for adoption.

The preparation and adoption of a comprehensive budget and operating plan is essential for the sound management and financial administration of the District. As an enterprise type of utility, the District is similar to a commercial operation whose expenditures may vary during the year in response to the timing and level of customer service demand. Water service demand is primarily influenced by water consumption practices, weather factors and the continued growth in the number of customers served. Budget objectives must therefore be structured to respond to fluctuating service demands. Activities are projected from historical data as a baseline to determine the appropriate funding level. Decisions made throughout the year by the Board of Directors and the General Manager is balanced between meeting budget objectives and budgetary constraints.

## Direction of the District and Financial Forecast

Looking out beyond 2019, it is necessary to identify any significant increase in expenses that the District will need to be prepared for, either by managing reserves or increasing revenues. In preparing the annual budget, District Staff also projects the annual revenue and operating expenses (cash items) out for five years. These projections include all operating costs and capital

improvement investments but exclude depreciation and noncurrent liabilities. Summarized below are a few District ventures that will have substantial impact on the five-year projection of revenue and expenses.

***Recycled Water Project***

The construction of a recycled water system is of importance over the next year and will require the District, for the first time in several decades, to obtain a loan to finance such a project. The investment in a recycled water system will deliver recycled water to several irrigation customers and replace the use of drinking water for irrigation.

The recent drought has made it clear that reliance on imported water for groundwater replenishment is not the best long-term solution for the regions' water supply needs. By incorporating recycled water into the District's overall supply, we would reduce our dependence on this expensive water source.

The District has partnered with Upper San Gabriel Valley Municipal Water District to secure a $428,000 grant from the State Department of Water Resources for Phase 1 of a Recycled Water System Project. The projected cost of Phase 1 is $2,000,000. The grant will cover approximately 25 percent of the estimated cost of Phase 1, which is expected to serve 50 acre feet per year of recycled water, to be purchased indirectly from Los Angeles County Sanitation Districts, to serve irrigation customers on Don Julian Avenue.

The District had also planned on a Phases 2 and 3 to deliver an additional 140 acre feet per year. During 2017 the District was informed by the Los Angeles County Sanitation Districts that the availability of recycled water for the District's Phase 2 and Phase 3 was uncertain. They also informed the District that recycled water for the District's Phase 1 may be delayed due to permitting issues associated with decreasing recycled water discharges into the San Gabriel River as a result of increasing the use of recycled water for irrigation. At this time, District staff is uncertain if or when recycled water for Phase 1 of the District's Recycled Water Project will be made available. Phase 2 and 3 have been put on hold until the availability of 140 AF of recycled water annually, can be secured.

The current cost to produce 50 acre feet of water that is over the District's annual production right is approximately $50,000. The District will **need** to secure a loan along with any other available grant funding to fund this project, which would otherwise not be cost effective. The assumptions of the Recycled Water Project cost and the associated debt service, is included in the five-year forecast. This new drought resistant source of water improves long-term water supply reliability for all the District's customers. The estimated cost of the Recycled Water System Project, loan proceeds, loan payment and other grant funding are included in the 5-year revenue and expense projections.

***Puente Valley Operable Unit Intermediate Zone Project***

The District prides itself on its efforts over the past 25 years to provide groundwater cleanup (treatment) in the Main San Gabriel Groundwater Basin. In fact, the District was the first water agency in the San Gabriel Valley to provide multi-barrier treatment for various contaminants at its groundwater treatment facility, which kick started other groundwater treatment projects in the

Valley. Over the years, the District's groundwater treatment plant has removed tons of contaminants. Our District's overall goal is to leave the groundwater basin free of contamination for future generations, so that it may continue to be used to meet the needs of its residents.

In mid-2014, the District was presented with an opportunity to further make a difference in remediating groundwater contamination in the Main San Gabriel Basin, more specifically the Puente Valley area. Under an order by US EPA, several industrial companies have been planning for several years to construct a highly efficient groundwater treatment system. This system would be comprised of 50 monitoring wells, 7 production wells, and multiple treatment technologies. In 2015, a property was purchased, by the lead industrial company, to construct the groundwater treatment facility. This property is located within the District's service area and in close proximity to the District's water distribution facilities. Since District staff already has experience operating a similar groundwater treatment system, the District has agreed to operate the Puente Valley Operable Unit Intermediate Zone (PVOU IZ) treatment facility. The plan was for the District to receive fully treated water, which meets all State and Federal drinking water standards, into its water system to utilize this water as a back-up supply for the District and for the neighboring Puente Basin Water Agency.

In November 2014, the District, the Puente Basin Water Agency, and the lead industrial company signed a Term Sheet to move forward with plans for the District to operate and deliver water from the proposed groundwater treatment plant. The plant will need to be operated on a continual basis and any surplus water in excess of the needs of the District was planned to be conveyed to the Puente Basin Water Agency.

In 2017 the PVOU IZ project was been modified with respect to the delivery of treated water. The treated water is now planned to be delivered to the District, who will in turn deliver a certain amount to neighboring Suburban Water Systems. The other components of the project remain unchanged.

The new treatment facility will improve water quality in the groundwater Basin, provide an additional emergency water supply for the community of La Puente, and create an additional revenue source for the District. The revenue that will be received by the District for conveying water and operating the plant will help keep the District water rates affordable. The groundwater treatment system and associated improvements are anticipated to be constructed over the next years with groundwater treatment starting in 2020. The revenue anticipated from the District's involvement in this project is included in the five-year revenue projections.

***Groundwater Treatment System for Nitrate Removal***

Over the last year, District staff identified that levels of nitrate in the water produced from the District's well field were increasing in an abnormal trend, as compared to last 5 years. Although the levels of nitrate in the water are below the regulatory maximum contaminant level, District staff recommends moving forward, in the next two years, with the addition of a nitrate treatment system at the District's groundwater treatment facility. In 2019, District staff recommends the completion of a preliminary design report (PDR) to identify the most cost-effective nitrate treatment system to install at the District's groundwater treatment facility. The PDR will also

identify capital investment required to construct the recommended system and the annual operational and maintenance cost of the system as well.

Depending on the findings of the PDR the District will seek any available grants and may need to seek a loan for this project as well. The rough estimated cost of a nitrate treatment system, loan proceeds, loan payment and grant funding are included in the 5-year revenue and expense projections.

**Table 1.2** provides a summary of the five-year forecast of the District's expenses and compares it to the projected revenues.

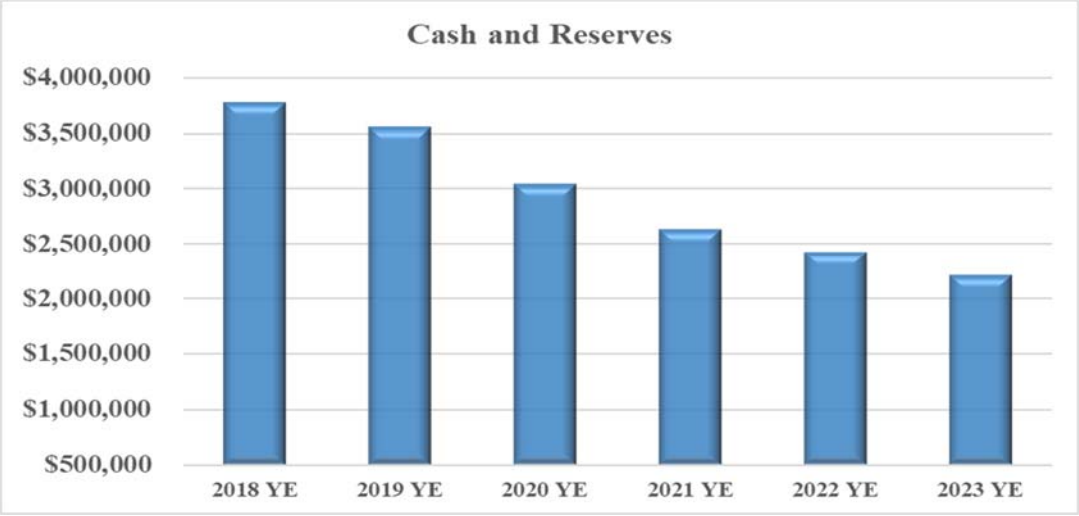
**Table 1.2 Five Year Forecast of Revenue and Expenses**

| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|
| Revenue | $ 4,633,200 | $ 6,697,700 | $ 7,999,800 | $ 4,604,000 | $ 4,892,600 | $ 5,151,500 |
| Expenses | $ 4,653,200 | $ 6,779,300 | $ 8,421,500 | $ 5,146,000 | $ 5,208,000 | $ 5,488,000 |
| Net Gain/Loss | $ (20,000) | $ (81,600) | $ (421,700) | $ (542,000) | $ (315,400) | $ (336,500) |

***District's Cash and Reserves***

In May 2012, the Board of Directors adopted Resolution No. 208 which updated the policy for the management of the District's cash and financial reserves. The Policy specifies what types of reserves the District shall maintain and what the minimum and maximum levels shall be for each reserve fund. **Figure 1.4** below provides a five-year projection of the cash and the reserve fund level based on the projected expenses and revenues from **Table 1.2**.

**Figure 1.4 Five Year Projection of the District's Total Cash and Reserve Fund Level**




Reserve fund levels decline in 2019 & 2020, primarily due to the projected capital investments in the District's Recycled Water Project & Nitrate Treatment System Project. In 2022, reserve levels start to decline. Staff projects that the recently adopted five-year water rate increase plan is vital in maintain adequate reserve fund levels and meeting the needs of the District's Customers.

## 2019 Objectives

Special emphasis will be placed on accomplishing the following objectives during 2019.

- ❖ Recycled Water System Project
    - Complete Design of Phase 1
    - Confirm Recycled Water Availability
    - Complete Construction of Phase 1
    - Initiate Phase 1 Customer Retrofits
- ❖ Continue Involvement in the PVOU Intermediate Zone Project Planning
- ❖ Secure Groundwater Production Right Leases for Approximately 629 Acre Feet that Reduce the Impacts of Replacement Water Costs
- ❖ Continue Fulfill Contractual Obligation in Operating and Managing the City of Industry Waterworks System in a Cost-Effective Manner
- ❖ Secure Best Available Grants and Financing for the District's Capital Improvement Projects
- ❖ Complete Capital Improvement Projects

## Executive Summary

A report of the significant findings and recommendations for the calendar year 2019 Budget are:

- Overall water system demand is projected to be roughly 1,580 acre-feet
- Annual Revenue is expected to be $4,787,700
- Annual Expenditures are budgeted at $4,68,300
- Capital Improvement/Outlay Projects are budgeted at $2,095,000
- The District expects to receive grant and loan proceeds of $1,800,000 to fund the District's Recycled Water Project
- The District expects to receive reimbursement for the estimated $1.36 million O&M costs incurred in the operation of the treatment plant
- The District expects to receive $265,900 in revenue from management fees for the operation and management of the City of Industry Waterworks System and the District's Groundwater Treatment Facility
- The District expects to receive $215,000 in revenue from taxes and assessments
- District Reserve Funds are expected to decrease by $81,600 through 2019

## Water Operations Fund

The District's activities identified in this budget are designed to accomplish the District's Mission as it relates to water operations. For the calendar year 2019, the District will need a total operation budget of $4,787,700 to carry out its Mission.

The District currently provides residential, commercial and industrial water through a production and distribution system valued at $7,871,662. The system consists of three active wells, eleven interagency water connections, three reservoirs with a combined storage capacity of 4.9 million gallons, 5 booster stations and more than 32 miles of water mains. During 2019, it is projected that the District will deliver over 1,580 acre feet of water to over 2,550 active service connections.

All of the revenues and expenses that allow the District to function flow either directly or indirectly through the Water Operations Fund. The Water Operations Fund's source of revenue consists of water sales, miscellaneous billing, property taxes, management fees and interest earned on Water Operations Fund related investments.

The Water Operations Fund exists to finance operations, maintenance, repair, supplies, depreciation, contingencies, personnel compensation related to water operations, capital improvements and to provide a catastrophic restoration reserve.

The Budget Summary details the projected Water Operations Fund revenues and expenditures for 2019 and compares those revenues and expenditures with the estimate for year-end 2018.

## Water Revenue - Operational

***Water Sales and Service Charges:***

Water sales and service charges are the major sources of revenue for the District. These sales are the result of the District's normal meter reading and billing activities for all classes of water to all active service connections. The distribution of sales provides 38 percent as fixed sales allocated to the service charges on the basis of meter capacity and the remaining 62 percent being variable sales and allocated to the commodity charges. The District forecasts water sales at $1,340,00. Water sales revenue is predicated on a projected average water usage of 1,580 acre feet to over 2,550 water services and includes construction water and miscellaneous billings.

***Operational Revenue Related to the District's Groundwater Treatment Facility***

The District owns and operates a groundwater treatment plant within the Main San Gabriel Basin for the removal of various contaminants. The United States EPA has identified this contaminated area of the Basin as BPOU and has named those parties that are potentially responsible, also known as the Cooperating Respondents, for the contamination in this area of the Basin. The construction and ongoing operating cost of the District's treatment plant is reimbursable per the BPOU Project Agreement entered into by the Cooperating Respondents, Main San Gabriel Basin Watermaster, San Gabriel Basin Water Quality Authority and the Water Entities; which the District is a party to. As detailed in the Proposed 2019 Budget for the District's Treatment Plant, the District anticipates the operation and maintenance expense for the Treatment Plant to be $1.36 million dollars, all of which will be reimbursed to the District by the Cooperating Respondents.

## Water Revenue – Non-Operational

***Interest:***

For calendar year 2019, District staff forecasts interest on Water Operations Fund related investments of $28,800. The estimate is predicated on a projection of historical data and its relationship to current interest rates.

***Other Non-Operational Revenues:***

This includes a total of $215,000 from Property Taxes; $265,900 for Fees related to the management of the Treatment Plant and the City of Industry Water Works System; $1,050,000 from Service Fees related to labor reimbursement, $36,800 from Rental Revenue, $300,000 from Prop 84 Grant Funds and $1,500,000 from Recycled Water Project Loan proceeds.

## Water Expenditures

***Personnel (Salaries and Benefits):***

In order to maintain high quality service within the District's service area, fulfill contractual obligations to manage and operate the City of Industry Waterworks System, continue the District's involvement in the PVOU IZ Project and operate the District's Groundwater Treatment Facility, a total of 13 full-time employees and 2 part-time employees will be needed.

(Field Operations) Transmission, Distribution, Treatment and Supply 8.5

(Office and Management) Customer Service and Administration 6.5

In calendar year 2019, the District will need a personnel compensation budget of $1,288,600 for salaries and payroll taxes related to meeting the requirements of water distribution, water treatment & supply, customer service and administrative functions for the District, CIWS, BPOU Treatment Plant Operations and PVOU IZ; $36,700 for Governing Board of Directors. The District's 2019 projection for the total cost of health benefits for current directors and employees is $389,000 and for retirees is $42,000. This year's Budget also includes prefunding of Post-Retirement Health Benefits in the amount of $100,000, which will be partially off-set by revenue generated from labor cost reimbursement from the CIWS and Treatment Plant Operations.

***Supply and Treatment:***

Water Supply and Treatment make up the variable costs of the District. These costs are generally defined as the annual operating expense to purchase and lease imported water and pump local groundwater to satisfy customer service demand. Variable costs are sensitive to operating factors that are beyond the District's control. These factors include weather, new construction, pricing or incentive programs offered by other agencies, cost of treatment chemicals and materials, energy costs and changes in efficiency of existing equipment. The budget amount can be considered as the best projection of annual costs based on an average weather, growth and consumption. For the calendar year 2019, the District will need a total of $1,780,700 for the Supply and Treatment costs.

***Other Operating Expenses:***

These program costs make up a portion of the fixed operating or "overhead" costs required to maintain the District's plant sites and water distribution system (facilities). This includes costs for services, materials, vehicles and equipment for the repair, maintenance and operation of these facilities. For the calendar year 2019, the District will need a total of $481,500 for Other Operating Expenses.

***General and Administrative:***

These program costs are "overhead" costs required to maintain District operations as they relate to customer service and administrative functions of the District. This includes costs for office supplies, office building maintenance, office equipment, customer billing, insurance, professional services, public outreach and conservation programs. For the calendar year 2019, the District will need a total of $412,000 for General and Administrative costs.

## Capital Improvements and Capital Outlay

The District is committed to enhancing the condition of its water system through investments in capital improvement projects. These investments will ensure that the water system will deliver high quality water to its customers long into the future. These investments will also ensure that the District's personnel will have the necessary tools to carry out their functions. Capital Improvements and Outlay may include expenditures for construction of new permanent capital facilities, replacement of existing facilities, purchasing fixed assets for various programs in the District and capital purchases necessary to maintain the quality of operations in the District.

**Table 1.3** below is a summary for Capital Improvement and Capital Outlay expenses that are necessary to maintain high quality service for District Customers:

**Table 1.3 2019 Capital Improvement Projects & Capital Outlay**

| Project | Description | Cost |
|---|---|---|
| Service Line Replacements | Replace Aging Plastic and/or Galvanized Service Lines as Needed | $ 25,000 |
| Valve Replacements | Replace Inoperable Valves as Needed | $ 40,000 |
| Fire Hydrant Replacements | Replace Inoperable Fire Hydrants as needed. | $ 5,000 |
| Other Improvements | Replace distribution system appurtenances as needed. | $ 15,000 |
| Scada Improvements | Assessment of current system and initiate improvements to software and hardware | $ 50,000 |
| Meter Read Collection System | Expand the Radio Meter Reading Collection System | $ 20,000 |
| New Pick-Up Truck | Purchase 1/2 Ton Pick-Up to Replace Fully Depreciated Pick-Up with over 120K Miles | $ 40,000 |
| Other Equipment and IT Equipment | Purchase of computer equipment and small construction equipment. | $ 30,000 |
| Ferrero Lane and Rorimer St. Improvements | Construct a new pressure regulating station to supply water from Zone 2 to the southeast portion of Zone 1 to improve fire flow and service reliability. | $ 75,000 |
| 5th Avenue Waterline Improvement | Construct a new waterline from in 5th avenue from Main Street to Workman to improve fire flow. | $ 150,000 |
| LP-CIWS Interconnection (Ind. Hills) | Design upgrades to an interconnection between the CIWS and the District to assist with the delivery of PVOU IZ treated water. | $ 10,000 |
| Hudson Plan Improvements | Design a new pump station for the delivery of PVOU IZ treated water to Suburban Water Systems and improvements to the District's existing pump station. | $ 75,000 |
| Well No. 5 Rehab (Design) | Complete design of new pumping equipment and sound enclosure for Well No. 5 | $ 25,000 |
| Groundwater Treatment System – Nitrate Removal | Complete a preliminary design report for the addition of a Nitrate treatment system at the District's groundwater treatment facility. | $ 85,000 |
| Recycled Water System (Phase 1) | Complete design and Construct a Portion of a New Recycled Waterlines and Pump Station for 10 Irrigations Customers. | $ 1,450,000 |
| | **Total:** | **$ 2,095,000** |

**Table 1.4**

La puente Valley County Water District Budget Summary
Period Ending December 31, 2019

| DESCRIPTION | COMBINED Proj. YE 2018 | COMBINED BUDGET 2018 | % OF BUDGET | LPVCWD PROPOSED 2019 | TP PROPOSED 2019 | COMBINED PROPOSED 2019 | 2019-2018 BUDGET VARIANCE |
|---|---|---|---|---|---|---|---|
| Total Operational Rate Revenues | $ 2,020,400 | $ 2,031,000 | 99% | $ 2,109,500 | $ - | $ 2,109,500 | $ 78,500 |
| Total Operational Non-Rate Revenues | 2,311,100 | 2,454,300 | | 1,014,500 | 1,361,400 | 2,375,900 | (78,400) |
| Total Non-Operational Revenues | 301,700 | 291,100 | 104% | 302,300 | | 302,300 | $ 11,200 |
| **TOTAL REVENUES** | **4,633,200** | **4,776,400** | **97%** | **3,426,300** | **1,361,400** | **4,787,700** | **11,300** |
| Total Salaries & Benefits | 1,959,000 | 1,959,600 | 100% | 1,708,500 | 301,400 | 2,009,900 | $ 50,300 |
| Total Supply & Treatment | 1,634,400 | 1,714,200 | 95% | 918,400 | 862,300 | 1,780,700 | $ 66,500 |
| Total Other Operating Expenses | 354,270 | 460,100 | 77% | 314,300 | 167,200 | 481,500 | $ 21,400 |
| Total General & Administrative | 394,800 | 500,500 | 79% | 381,700 | 30,500 | 412,200 | $ (88,300) |
| **TOTAL EXPENSES** | **4,342,470** | **4,634,400** | **94%** | **3,322,900** | **1,361,400** | **4,684,300** | **49,900** |
| **TOTAL OPERATIONAL INCOME** | **290,730** | **142,000** | **205%** | **103,400** | **-** | **103,400** | **$ (38,600)** |
| Capital Improvements | (275,200) | (1,235,000) | 22% | (2,025,000) | - | (2,025,000) | (790,000) |
| Capital Outlay | (35,500) | (50,000) | 71% | (70,000) | - | (70,000) | $ (20,000) |
| **TOTAL CAPITAL** | **(310,700)** | **(1,285,000)** | **24%** | **(2,095,000)** | **-** | **(2,095,000)** | **(810,000)** |
| **INCOME (AFTER CAPITAL EXPENSE)** | **(19,970)** | **(1,143,000)** | **2%** | **(1,991,600)** | **-** | **(1,991,600)** | **(848,600)** |
| Capital Reimbursement (OU Projects) | | | | 110,000 | | 110,000 | |
| Grant Proceeds | - | 300,000 | 0% | 300,000 | - | 300,000 | $ - |
| Loan Proceeds | - | 500,000 | 0% | 1,500,000 | - | 1,500,000 | $ 1,000,000 |
| Loan Repayment | - | - | 0% | - | - | - | $ - |
| **CHANGE IN CASH** | **(19,970)** | **(343,000)** | **6%** | **(81,600)** | **-** | **(81,600)** | **151,400** |
| Contibuted Capital (Developer) | 238,870 | | | - | | - | |
| Add Back Capitalized Assets | 310,700 | 1,285,000 | 24% | 2,095,000 | | 2,095,000 | |
| Less Depreciation Expense | (380,000) | (560,000) | 68% | (380,000) | (180,000) | (560,000) | |
| Less OPEB & Pension Liability Expense - | (181,000) | - | | (10,000) | | (10,000) | $ (10,000) |
| **NET INCOME (LOSS)** | **$ (270,270)** | **$ 382,000** | **-71%** | **$ 1,513,400** | **$ (180,000)** | **$ 1,333,400** | **$ 141,400** |

**Table 1.5**
La Puente Valley County District
Budget for Period Ending December 31, 2019

| Description | 2017 Actual | Projected YE 2018 | 2018 Budget | Variance from Budget | 2019 Budget | 2019 Budget-2018 Budget |
|---|---|---|---|---|---|---|
| **Operational Rate Revenues** | | | | | | |
| Water Sales | $ 1,251,382 | $ 1,284,200 | $ 1,295,000 | $ (10,800) | $ 1,340,000 | $ 45,000 |
| Service Charges | 604,424 | 604,900 | 608,500 | (3,600) | 636,000 | 27,500 |
| Surplus Sales | 35,769 | 43,400 | 38,000 | 5,400 | 40,000 | 2,000 |
| Customer Charges | 33,425 | 30,100 | 33,300 | (3,200) | 34,100 | 800 |
| Fire Service | 56,096 | 56,400 | 55,500 | 900 | 58,400 | 2,900 |
| Miscellaneous Income | 805 | 1,400 | 700 | 700 | 1,000 | 300 |
| **Total Operational Rate Revenues** | **1,981,901** | **2,020,400** | **2,031,000** | **(10,600)** | **2,109,500** | **78,500** |
| **Operational Non-Rate Revenues** | | | | | | |
| Management Fees | 194,810 | 260,700 | 261,700 | (1,000) | 265,900 | 4,200 |
| PVOU Service Fees (Labor) | - | 16,400 | 42,900 | (26,500) | 40,000 | (2,900) |
| *BPOU Service Fees (Labor)* | | 307,700 | 278,800 | *28,900* | *301,400* | *22,600* |
| IPU Service Fees (Labor) | | 689,600 | 715,800 | (26,200) | 695,600 | (20,200) |
| Other O&M Fees | 65,461 | 12,500 | 13,000 | (500) | 13,000 | - |
| **Total Operational Non-Rate Revenues** | **260,271** | **1,286,900** | **1,312,200** | **(25,300)** | **1,315,900** | **3,700** |
| **Non-Operational Revenues** | | | | | | |
| Taxes & Assessments | 230,516 | 210,000 | 215,000 | (5,000) | 215,000 | - |
| Rental Revenue | 34,988 | 36,000 | 36,100 | (100) | 36,800 | 700 |
| Interest Revenue | 27,436 | 28,800 | 17,000 | 11,800 | 28,800 | 11,800 |
| Miscellaneous Income | 76,053 | 21,900 | 18,000 | 3,900 | 16,700 | (1,300) |
| Developer Fees | 81,095 | 5,000 | 5,000 | - | 5,000 | - |
| **Total Non-Operational Revenues** | **450,088** | **301,700** | **291,100** | **10,600** | **302,300** | **11,200** |
| **TOTAL REVENUES** | **2,692,261** | **3,609,000** | **3,634,300** | **(25,300)** | **3,727,700** | **93,400** |
| **Salaries & Benefits** | | | | | | |
| Total District Wide Labor | 497,621 | 1,152,600 | 1,142,700 | 9,900 | 1,195,800 | 53,100 |
| Directors Fees & Benefits | 117,385 | 119,220 | 117,300 | 1,920 | 116,600 | (700) |
| Benefits | 124,987 | 300,680 | 303,100 | (2,420) | 308,800 | 5,700 |
| OPEB Payments | 157,030 | 150,000 | 150,000 | - | 142,000 | (8,000) |
| Payroll Taxes | 43,150 | 91,500 | 90,600 | 900 | 92,800 | 2,200 |
| Retirement Program Expense | 64,566 | 145,000 | 155,900 | (10,900) | 153,900 | (2,000) |
| **Total Salaries & Benefits** | **1,004,737** | **1,959,000** | **1,959,600** | **(600)** | **2,009,900** | **50,300** |
| **For Analysis Purposes Only** | | | | | | |
| **Offsetting Revenue** | **(50,000)** | **(1,033,700)** | **(1,057,500)** | | **(1,057,000)** | **500** |
| **District Labor Net Total** | **954,737** | **925,300** | **902,100** | **23,200** | **952,900** | **50,800** |
| **Supply & Treatment** | | | | | | |
| Purchased & Leased Water | 421,870 | 377,100 | 379,500 | (2,400) | 467,200 | 87,700 |
| Power | 149,637 | 155,500 | 157,000 | (1,500) | 163,700 | 6,700 |
| Assessments | 132,114 | 188,500 | 221,900 | (33,400) | 248,300 | 26,400 |
| Treatment | 4,079 | 3,600 | 6,000 | (2,400) | 6,700 | 700 |
| Well & Pump Maintenance | 12,188 | 22,100 | 32,700 | (10,600) | 32,500 | (200) |
| **Total Supply & Treatment** | **719,888** | **746,800** | **797,100** | **(50,300)** | **918,400** | **121,300** |
| **Other Operating Expenses** | | | | | | |
| General Plant | 29,918 | 27,570 | 42,300 | (14,730) | 48,100 | 5,800 |
| Transmission & Distribution | 52,872 | 102,000 | 90,500 | 11,500 | 102,400 | 11,900 |
| Vehicles & Equipment | 14,669 | 30,200 | 30,300 | (100) | 31,800 | 1,500 |
| Field Support & Other Expenses | 30,329 | 48,600 | 68,500 | (19,900) | 69,000 | 500 |
| Regulatory Compliance | 28,754 | 34,300 | 51,500 | (17,200) | 63,000 | 11,500 |
| **Total Other Operating Expenses** | **156,543** | **242,670** | **283,100** | **(40,430)** | **314,300** | **31,200** |

**Table 1.5**
La Puente Valley County District
Budget for Period Ending December 31, 2019

| Description | 2017 Actual | Projected YE 2018 | 2018 Budget | Variance from Budget | 2019 Budget | 2019 Budget-2018 Budget |
|---|---|---|---|---|---|---|
| **General & Administrative** | | | | | | |
| District Office Expenses | 37,453 | 42,000 | 61,800 | (19,800) | 64,100 | 2,300 |
| Customer Accounts | 20,907 | 18,500 | 20,400 | (1,900) | 25,000 | 4,600 |
| Insurance | 60,490 | 64,300 | 69,900 | (5,600) | 65,800 | (4,100) |
| Professional Services | 132,598 | 130,200 | 160,000 | (29,800) | 120,000 | (40,000) |
| Training & Certification | 29,068 | 42,000 | 37,700 | 4,300 | 37,500 | (200) |
| Public Outreach & Conservation | 15,717 | 34,500 | 32,500 | 2,000 | 32,500 | - |
| Other Administrative Expenses | 29,176 | 38,300 | 70,200 | (31,900) | 36,800 | (33,400) |
| **Total General & Administrative** | **325,409** | **369,800** | **452,500** | **(82,700)** | **381,700** | **(70,800)** |
| **TOTAL EXPENSES** | **2,206,578** | **3,318,270** | **3,492,300** | **(174,030)** | **3,624,300** | **132,000** |
| **TOTAL OPERATIONAL INCOME** | **485,683** | **290,730** | **142,000** | **148,730** | **103,400** | **(38,600)** |
| **CAPITAL, LOANS AND DEBT SERVICE** | | | | | | |
| **Capital Improvements** | | | | | | |
| Zone 3 Improvements | (7,022) | (200,300) | (220,000) | 19,700 | - | 220,000 |
| Service Line Replacements | (33,456) | (47,200) | (20,000) | (27,200) | (25,000) | (5,000) |
| Valve Replacements | (13) | (9,600) | (10,000) | 400 | (40,000) | (30,000) |
| Fire Hydrant Repair/Replacements | (178) | (11,900) | - | (11,900) | (5,000) | (5,000) |
| Meter Read Collection System & Meter Replace | (42,141) | (200) | (35,000) | 34,800 | (20,000) | 15,000 |
| SCADA Improvements | | - | (15,000) | 15,000 | (50,000) | (35,000) |
| Main & 1st Street Building Retrofit | - | (4,100) | (35,000) | 30,900 | - | 35,000 |
| Ferrero Lane and Rorimer St. Improvements | | | | | (75,000) | (75,000) |
| 5th Avenue Waterline Improvement | | | | | (150,000) | (150,000) |
| LP-CIWS Interconnection (Ind. Hills) | | | | | (10,000) | (10,000) |
| Hudson Plant Improvements | | | | | (75,000) | (75,000) |
| Well No. 5 Rehab (Design) | | | | | (25,000) | |
| Nitrate Treatment System | | | | | (85,000) | (85,000) |
| Phase 1 - Recycled Water System | | (1,900) | (900,000) | 898,100 | (1,450,000) | (550,000) |
| Phase 2 - Recycled Water System | | - | - | - | - | - |
| Other Improvements | | | | | (15,000) | (15,000) |
| **Total Capital Improvements** | **(82,810)** | **(275,200)** | **(1,235,000)** | **959,800** | **(2,025,000)** | **(790,000)** |
| **Capital Outlay** | | | | | | |
| Truck(s) | (39,731) | (35,500) | (40,000) | 4,500 | (40,000) | - |
| Other Equipment | | | (10,000) | | (10,000) | - |
| IT Equipment | | | | | (20,000) | (20,000) |
| **Total Capital Outlay** | **(39,731)** | **(35,500)** | **(50,000)** | **4,500** | **(70,000)** | **(20,000)** |
| **TOTAL CAPITAL** | **(122,541)** | **(310,700)** | **(1,285,000)** | **964,300** | **(2,095,000)** | **(810,000)** |
| **INCOME (AFTER CAPITAL EXPENSE)** | **363,142** | **(19,970)** | **(1,143,000)** | 1,123,030 | **(1,991,600)** | **(848,600)** |
| **Funding & Debt Repayment** | | | | | | |
| Capital Reimbursement (OU Projects) | | | | | 110,000 | |
| Grant Revenue | - | - | 300,000 | (300,000) | 300,000 | - |
| Loan Proceeds | - | - | 500,000 | (500,000) | 1,500,000 | 1,000,000 |
| Loan Payments | - | - | - | - | - | - |
| **CASH DIFFERENCE** | **363,142** | **(19,970)** | **(343,000)** | **323,030** | **(81,600)** | **151,400** |
| Contributed Capital | 210,130 | 238,870 | - | 238,870 | - | - |
| Add Back Capitalized Assets | 122,542 | 310,700 | 1,285,000 | (974,300) | 2,095,000 | 810,000 |
| Less Depreciation Expense | (360,602) | (380,000) | (380,000) | - | (380,000) | - |
| Less OPEB Expense - Not Funded | (71,263) | (10,000) | (12,800) | 2,800 | (10,000) | 2,800 |
| **NET INCOME (LOSS)** | **$ 263,949** | **$ 139,600** | **$ 549,200** | **(648,470)** | **$ 1,623,400** | **$ 1,074,200** |

# Table 1.6

La Puente Valley County Water District
BPOU Treatment Plant Budget
Period Ending December 31, 2019

| Description | 2017 Actual | Projected YE 2018 | 2018 Budget | Variance from Budget | 2019 Budget | Difference 2019 Budget-2018 Budget |
|---|---|---|---|---|---|---|
| **Operational Non-Rate Revenues** | | | | | | |
| Reimbursements from CR's | $ 1,189,748 | $ 1,331,900 | $ 1,420,900 | $ (89,000) | $ 1,361,400 | $ (59,500) |
| Miscellaneous Income | - | - | - | - | - | - |
| **Total Non-Operational Revenues** | **1,189,748** | **1,331,900** | **1,420,900** | **(89,000)** | **1,361,400** | **(59,500)** |
| | | | - | | | - |
| **Salaries & Benefits** | | | | | | |
| *BPOU TP Labor (1)* | *282,605* | *307,700* | *278,800* | *$ 28,900.00* | *301,400* | *22,600* |
| Contract Labor | - | - | - | - | | - |
| **Total Salaries & Benefits** | **282,605** | **307,700** | **278,800** | **28,900** | **301,400** | **22,600** |
| **Supply & Treatment** | | | | | | |
| NDMA, 1,4-Dioxane Treatment | 195,827 | 211,300 | 170,000 | 41,300 | 218,200 | 48,200 |
| VOC Treatment | 25,374 | 1,800 | 17,800 | (16,000) | 20,000 | 2,200 |
| Perchlorate Treatment | 315,421 | 425,200 | 415,000 | 10,200 | 344,000 | (71,000) |
| Other Chemicals | 17,829 | 15,500 | 16,600 | (1,100) | 17,500 | 900 |
| Treatment Plant Power | 174,703 | 192,500 | 202,700 | (10,200) | 200,200 | (2,500) |
| Treatment Plant Maintenance | 19,347 | 21,300 | 75,000 | (53,700) | 42,000 | (33,000) |
| Well & Pump Maintenance | 16,315 | 20,000 | 20,000 | - | 20,400 | 400 |
| **Total Supply & Treatment** | **764,816** | **887,600** | **917,100** | **(29,500)** | **862,300** | **(54,800)** |
| **Other Operating Expenses** | | | | | | |
| General Plant | 13,632 | 16,900 | 45,000 | (28,100) | 40,000 | (5,000) |
| Vehicles & Equipment | 10,413 | 12,000 | 10,000 | 2,000 | 12,200 | 2,200 |
| Field Support & Other Expenses | - | 2,400 | 15,000 | (12,600) | 15,000 | - |
| Regulatory Compliance | 96,395 | 80,300 | 107,000 | (26,700) | 100,000 | (7,000) |
| **Total Other Operating Expenses** | **120,440** | **111,600** | **177,000** | **(65,400)** | **167,200** | **(9,800)** |
| **General & Administrative** | | | | | | |
| District Office Expenses | - | - | 10,000 | (10,000) | 2,500 | (7,500) |
| Insurance | 9,757 | 16,400 | 18,000 | (1,600) | 18,000 | - |
| Professional Services | 12,130 | 8,600 | 20,000 | (11,400) | 10,000 | (10,000) |
| **Total General & Administrative** | **21,887** | **25,000** | **48,000** | **(23,000)** | **30,500** | **(17,500)** |
| **TOTAL EXPENSES** | **1,189,748** | **1,331,900** | **1,420,900** | **(89,000)** | **1,361,400** | **(59,500)** |
| ***TOTAL EXPENSES (Minus Labor)*** | ***907,143*** | ***1,024,200*** | ***1,142,100*** | | ***1,060,000*** | |
| **TOTAL OPERATIONAL INCOME** | **-** | **-** | **-** | **-** | **-** | **-** |
| Depreciation Expense | **(165,346)** | **(171,000)** | **(180,000)** | **9,000** | **(180,000)** | **-** |
| **Total Non-Cash Items (Dep. & OPEB)** | **(165,346)** | **(171,000)** | **(180,000)** | **9,000** | **(180,000)** | **-** |
| **NET INCOME (LOSS)** | **$ (165,346)** | **$ (171,000)** | **$ (180,000)** | **$ 9,000** | **$ (180,000)** | **$ -** |

**(1)** The labor expense depicted here is the amount of labor billed to the BPOU in which the District recieves reimbursement which is shown on Table 1.5 in operational non-rate revenue (BPOU Service Fees).

# Memo

To: Honorable Board of Directors

From: Roy Frausto, Engineering & Compliance

Meeting Date: December 18, 2018

Re: Engineering & Compliance Report – November 2018

## CAPITAL PROJECTS

1. LPVCWD Recycled Water Project –
   - Staff will provide information through a verbal report.

2. LPVCWD PVOU IZ Project and SZ-South Project –
   - Staff received a revised draft copy of the Section 4 document of the 97-005 report for the PVOU IZ treatment facility on October 15, 2018. Staff concluded the review and provided comments to Northrop
   - Staff and District Counsel reviewed and commented on the draft term sheet with respect to an Operation Services Agreement for the SZ PVOU treatment system. A final draft is expected to be presented in January 2019
   - Construction crews began grading and exploratory excavations at the project site

3. LPVCWD Banbridge Pump Station Retrofit Project –
   - Staff is happy to report that both pumps successfully pumped at their design rate and performed as expected
   - Staff met with the Lievanos to discuss existing structures exterior color and pending aesthetic improvements

## DEVELOPMENTS

1. CIWS: 13814 Valley Blvd (McDonalds) – Staff installed a 4-inch fire service and a 2-inch domestic service in support of an existing McDonalds restaurant building retrofit.

2. CIWS: 13551, 13553 and 13563 Don Julian Rd. (3 units) – Staff is installed three (3) new 1-inch water services to support accessory dwelling developments to three existing homes.

3. CIWS: 419 S 5th Ave - Staff is scheduled to install a new 1-inch water services to support a mobile housing unit at an existing property.

4. LPVCWD: Star Theatre Property (22 Condo Development) – A focused draft EIR was completed by the City of La Puente. The focused draft EIR is available for public review during regular business hours at City Hall and other various locations.

5. LPVCWD: 15921 Sierra Vista Court – Currently, City staff advised that a proposed grading plan was approved along with the retaining wall. It is anticipated that the request to construct 5 water services in support of the 5-unit development will be received in the next coming months.

## SPECIAL/OTHER PROJECTS

1. LPVCWD: 17351 Main St – District staff conducted a cross connection control survey at the La Villa Puente Apartments and concluded that the onsite fire and domestic systems are interconnected. Provided these findings, staff sent a letter to the property manager advising the need of two backflow prevention devices to protect the existing 6-inch domestic meter and 6-inch fire service. Staff has scheduled an in person meeting to further discuss the scope of work and construction cost estimate.

2. Nitrate Levels – Provided the current levels (See **Enclosure 1**) of Nitrate at the District's well field, staff is moving forward with acquiring a preliminary design report (PDR) to evaluate the different treatment options for Nitrate.
    - Staff drafted a Request for Qualifications (RFQ) as an initial step to qualify Engineering firms to submit future proposals with respect to drafting the PDR. The RFQ's are due by January 4, 2019.

3. LPVCWD Sanitary Survey – On October 29, 2018, the State Water Resources Control Board Division of Drinking Water (DDW) conducted their sanitary survey of our District's water system. Staff received a letter from DDW with respect to the 2018 Sanitary Survey and provided the following comments:
    - Sample Wells 2, 3 and 5 for SOCs and Well 2 for gross alpha and uranium by Dec. 31, 2018
    - Physically disconnect Well 4 from the distribution system or properly destroy Well 4 per DWR Bulletins 74-81 and 74-90 as Well 4 may serve as a conduit for groundwater contamination

4. GETS/WPS – Staff applied and received approval for the Government Emergency Telecommunications Service (GETS) and Wireless Priority Service (WPS). The services are administered by the Dept. of Homeland Security, which in summary provide priority communication capabilities to landlines and cell phones to key national security and emergency preparedness personnel during natural or man-made disasters.

5. School (K-12) Lead Sampling – Staff contacted Basset Unified School District and Whittier School District representatives to discuss lead sampling at Don Julian Elementary and Wallen L. Andrews Elementary to comply with AB 746 by July 1, 2019.
    - Staff sampled for lead at Don Julian Elementary on December 12, 2018
    - Staff sampled for lead at Wallen L. Andrews Elementary on December 6, 2018

6. CIWS Permit Amendment – Staff received the final permit amendment (enclosed as **Enclosure 2**) from DDW with respect to the CIWS system on November 16, 2018.

*Enclosures*
- *Enclosure 1: November/December 2018 Nitrate Levels*
- *Enclosure 2: 2018 CIWS Permit Amendment*

# SP 6 and SP 10
# Nitrate Concentrations
# EPA Method 300.0
# MCL = 10 mg/l

| Nitrate Concentrations November/December 2018 | | | | |
|---|---|---|---|---|
| Date | SP 10 | SP 6 | Well | Comments |
| 11/1/18 | 5.6 | 5.3 | Well 5 | New Resin Change Out |
| 11/5/18 | 7.8 | 7.8 | Well 5 | |
| 11/8/18 | 7.8 | 7.8 | Well 5 | |
| 11/13/18 | **8.0** | **8.0** | Well 5 | |
| 11/15/18 | **8.0** | **8.0** | Well 5 | |
| 11/19/18 | **8.0** | **8.0** | Well 5 | |
| 11/26/18 | 7.7 | 7.7 | Well 5 | |
| 11/29/18 | **8.2** | **8.2** | Well 5 | |
| 12/3/18 | **8.0** | **8.0** | Well 5 | |
| 12/6/18 | 7.9 | 7.9 | Well 5 | |
| | | | | |
| | | | | |
| | | | | |
| AVERAGE | 7.7 | 7.7 | | |
| MINIMUM | 5.6 | 5.3 | | |
| MAXIMUM | 8.2 | 8.2 | | |

NOTES:

All units reported in milligrams per liter (mg/l)

MCL = Maximum Contaminant Level

La Puente Valley County Water District

112 N First St.
La Puente, CA 91744

**Enclosure 1**

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

**State Water Resources Control Board**
Division of Drinking Water

November 15, 2018

Mr. Greg B. Galindo
General Manager
Industry Public Utilities
112 N. First Street
City of Industry, CA 91744

Dear Mr. Galindo:

**SYSTEM 1910029 – CITY OF INDUSTRY WATERWORKS SYSTEM REVISED 2018 OPERATING PERMIT**

On January 11, 2018, James Ko from our office conducted a sanitary survey of the City of Industry Waterworks System (City), with the assistance of you, Mr. Cesar A. Ortiz, Water Treatment & Supply Supervisor, and Mr. Roy Frausto, Engineering & Compliance Manager.

In addition to the sanitary survey, the attached revised full permit No. 04-07-18P-002 is issued to the City's water system because there have been numerous changes since the original full permit was issued on March 22, 2001. The permit includes specific provisions and appendices. Please review the permit and let us know if there are any comments.

A public water system may file with the State Water Resources Control Board (State Water Board) a petition for reconsideration of a decision by the Deputy Director to issue, deny or amend a permit. Petitions must be received by the State Water Board within 30 calendar days of the issuance of the permit, permit amendment or decision. The date of issuance is the date when the Division of Drinking Water mails or serves a copy of the permit, permit amendment, or decision, whichever occurs first. If the 30th day falls on a Saturday, Sunday, or state holiday, the petition is due the following business day by 5:00 p.m. Information regarding filing petitions may be found at:

http://www.waterboards.ca.gov/drinking_water/programs/petitions/index.shtml

The courtesy extended to our staff and the Division is greatly appreciated. If you have questions regarding this letter, please contact Mr. James Ko at (818) 551-2007 or me at (818) 551-2022.

Sincerely,

Dmitriy Ginzburg, P.E.
District Engineer
Hollywood District

Enclosure

# Enclosure

**WATER PERMIT NO. 04-07-18P-002**

**City of Industry Waterworks System**

**Los Angeles County**
**System No. 1910029**

**November 2018**

CALIFORNIA
Water Boards

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

STATE OF *CALIFORNIA*

# *DOMESTIC WATER SUPPLY PERMIT*

**Issued To**

***The City of Industry Waterworks System***

***1910029***

**By The**

**Division of Drinking Water**
**California State Water Resources Control Board**

**PERMIT NUMBER: 04-07-18P-002** **DATE: November 15, 2018**

## *WHEREAS:*

I. The ***Division of Drinking Water*** revised ***the City of Industry Waterworks*** water system's operating permit issued in March 2001.

II. This public water system is known as ***the City of Industry Waterworks System (hereinafter, City)*** whose headquarters is located at ***112 N. First Street, P.O. Box 3136, La Puente, CA 91744.***

III. The legal owner of ***the City of Industry Waterworks*** water system is ***the City of Industry; however, the La Puente Valley County Water District is contracted by the City of Industry to maintain, operate and monitor the water system. The City of Industry Waterworks System,*** therefore, is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.

IV. The public water system for which the permit is being revised is described briefly below (a more detailed description of the permitted system is described in Section ***1.2*** of the attached Permit Report):

The facilities, two purchased water connections, one water reservoir, one booster station with three booster pumps, and various pipelines and appurtenances as required.

V. The service area of ***the City of Industry Waterworks System*** shall be shown on the service area map in ***Appendix A*** of the Permit Report

## *And WHEREAS:*

I. All of the required information relating to the operation of ***the City of Industry Waterworks System's*** has been submitted.

II. The Division of Drinking Water has evaluated all of the information submitted and has conducted a physical investigation of ***the City of Industry Waterworks System's*** water system.

III. The Division of Drinking Water has the authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

***THEREFORE:*** The Division of Drinking Water has determined the following:

I. ***The City of Industry Waterworks System's*** meets the criteria for and is hereby classified as a ***community*** water system.

II. The applicant has demonstrated that ***The City of Industry Waterworks System's*** has sufficient source capacity to serve the anticipated water demand for at least ***10*** years.

III. The design of the water system complies with the Water Works Standards and all applicable regulations.

IV. The applicant has demonstrated adequate technical, managerial, and financial capacity to operate reliably the proposed water system.

V. Provided the following conditions are complied with, ***The City of Industry Waterworks System*** should be capable of providing water to consumers that is pure, wholesome, and potable and in compliance with statutory and regulatory drinking water requirements at all times.

VI. The City of Industry Waterworks is hereby issued this domestic water supply permit to operate the City of Industry Waterworks Water System.

***VII.*** ***The City of Industry Waterworks*** shall comply with the following permit conditions:

## GENERAL

1. **The City of Industry Waterworks** shall comply with all state laws applicable to public water systems and any regulations, standards, or orders adopted thereunder.

2. All water supplied by **the City of Industry Waterworks** for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) established by the Division of Drinking Water. If the water quality does not comply with the California Drinking Water Standards, treatment shall be provided to meet standards.

3. The only sources approved for domestic water supply are the following:

**Table 1: Active Groundwater Source**

| Sources | PS Code | Status | Capacity (gpm) |
|---|---|---|---|
| Well No. 5 | 1910029-007 | Active | 1,200 |

**Table 2: Purchased Water Sources**

| No. | Connection | Source | Size | Flow Direction | Capacity (gpm) | Status |
|---|---|---|---|---|---|---|
| 1 | SGVWC Lomitas Reservoirs | GW | 12" | SGVWC to City Zone 1 | 2,000 | Active |
| 2 | SGVWC Workman Mill | GW | 10" | SGVWC to City Zone 1 | 2,000 | Active |
| 3 | SGVWC Salt Lake | GW | 2" | SGVWC to City Zone 1 | 50 | Active |
| 4 | LPVCWD Industry Hill PS 1 (Hill St.) | GW | 16" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 5 | LPVCWD Valley Blvd & Proctor Ave. | GW | 14" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 6 | LPVCWD Industry Hills PS 3 | GW | 12" | LPVCWD to Industry Hills | 1,200 | Emergency |
| 7 | LPVCWD Industry Hills Reservoir | GW | 8" | Bi-Directional (Industry Hills) | 400 to City | Active |
| 8 | LPVCWD Holguin Place | GW | 4" | City to LPVCWD | 195 | Active |

| No. | Connection | Source | Size | Flow Direction | Capacity (gpm) | Status |
|---|---|---|---|---|---|---|
| 9 | LPVCWD San Jose Ave & Holguin Place | GW | 12" | City to LPVCWD | 2,000 | Emergency |

4. There are no approved treatment processes in **the City of Industry Waterworks** water system.

5. No changes, additions, or modifications shall be made to the sources or treatment processes outlined in Provisions 3 through 4 unless an amended water permit has first been obtained from the Division.

## WATER QUALITY

6. **The City of Industry Waterworks** shall ensure that monitoring of all active sources is conducted in accordance with the vulnerability assessment issued by the Division of Drinking Water.

## OPERATOR CERTIFICATIONS

7. **The City of Industry Waterworks** water system is not required to have treatment operators, as pursuant to Title 22, Chapter 13, Article 2, Section 63770 of the California Code of Regulations, certified distribution system operators may determine chemical dosage rates for distribution residual maintenance if needed.

8. **The City of Industry Waterworks** distribution system shall be operated by personnel who have been certified in accordance with Chapter 13, Title 22, CCR, Operator Certification Regulations. The chief and shift operator(s) for the distribution facilities shall have, at minimum, D2 and D1 certification, respectively.

## CROSS-CONNECTION CONTROL PROGRAM

9. The City of Industry Waterworks shall comply with Title 17, CCR, to prevent the water system from being contaminated by possible cross-connections. The City of Industry Waterworks shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow preventers shall be tested at least annually.

**DIRECT ADDITIVES**

10. **The City of Industry Waterworks** shall only use additives that have been tested and certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI) Standard 60. This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by ANSI.

**INDIRECT ADDITIVES**

11. **The City of Industry Waterworks** shall only use chemicals, materials, lubricants, or products that have been tested and certified as meeting the specifications of NSF/ANSI Standard 61 in the production, treatment or distribution of drinking water that will result in its contact with the drinking water, including process media, protection materials (i.e. coating, linings, liners), joining and sealing materials, pipe and related products, and mechanical devices used in treatment/transmission/distribution system, unless conditions listed in Section 64593, Title 22, CCR are met. This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by ANSI.

**ANNUAL REPORTS**

12. **The City of Industry Waterworks** shall submit Annual Reports on the status and condition of the water system, as directed by the Division.

**RECORDS**

13. **The City of Industry Waterworks** shall keep complete records of any emergency and scheduled interruptions in water service. These records should include:

    a) Location of the problem
    b) Cause of the interruption
    c) Date and approximate time of the problem
    d) Precautions taken to minimize contamination of the supply and notification of affected users.

This permit supersedes all previous domestic water supply permits and permit amendments issued for this public water system, except for Permit Amendment 2017PA-SCHOOLS issued January 17, 2017, which is expressly incorporated by reference herein and which continues to be in full force and effect from the date of issuance. This permit shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the Division. This permit is non-

transferable. Should ***the City of Industry Waterworks*** undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

This permit shall be effective as of the date shown below.

**FOR THE DIVISION OF DRINKING WATER,**
**STATE WATER RESOURCES CONTROL BOARD**

11/15/2018
***Date***

***Dmitriy Ginzburg, P.E., District Engineer***
***Hollywood District***

# Engineering Report

***For Consideration of a Revised Water Supply Permit for the City of Industry Waterworks System Serving portions of City of Industry, La Puente, Industry Hills and an unincorporated area of Los Angeles County known as Avocado Heights***

***November 15, 2018***

***Division of Drinking Water***
***State Water Resources Control Board***

Prepared by

*James Ko, P.E.*
*Associate Sanitary Engineer*
*Hollywood District*

Reviewed and Approved by

*Dmitriy Ginzburg, P.E., District Engineer*
*Hollywood District*

[Leave Blank Intentionally]

# Table of Contents

# 1. INTRODUCTION

On January 11, 2018, the Division of Drinking Water (hereinafter Division) conducted an inspection of the City of Industry Waterworks System (herein after City). One item that was noted during the survey is that the City's current permit (issued on March 22, 2001) is outdated. This revised full permit will be prepared in conjunction with this sanitary survey in January 2018. The inspection was conducted by James Ko of the Division, with Mr. Roy Frausto, Engineering & Compliance Manager, and Mr. Cesar A. Ortiz, Water Treatment & Supply Supervisor. The last inspection of the City's water system was on January 13, 2015.

## 1.1 Brief Description of the System

The City's potable water system provides potable water supply to approximately 6,813 people through 1,934 service connections within the City itself and in adjacent unincorporated areas of Los Angeles County.

The service area is primarily zoned industrial and commercial with small pockets of residential areas. The City customers include a hotel, a golf course and the Industry Hills Equestrian Center. Other water purveyors serving other parts of the City are La Puente Valley County Water District (LPVCWD), Rowland Water District, Suburban Water Systems, and San Gabriel Valley Water Company (SGVWC).

The City system produces groundwater utilizing its only active groundwater source Well 5 and pumps the extracted groundwater to an offsite treatment facility, which is owned and operated by SGVWC. In exchange, the City receives water from SGVWC's distribution system through one of two permitted interconnections between the City and SGVWC.

The City system utilizes approximately 31.9 miles of pipelines, three water storage reservoirs that have a combined storage capacity of 7.5 million gallons (MG) serving three pressure zones, and five active booster stations having a combined total of fifteen pumps/ boosters.

## 1.2 Permit History

A domestic water supply permit was initially issued to Cross Water Company on August 18, 1954. On March 22, 2001, the Division issued to the City a revised full permit (Permit No. 04-07-01P-001). The City of Industry is contracted with the La Puente Valley County Water District (LPVCWD) to maintain, operate, and monitor the water system since February 2004.

This permit supersedes all previous domestic water supply permits and permit amendments issued for this public water system, except for Permit Amendment 2017PA-SCHOOLS issued January 17, 2017, which is expressly incorporated by reference herein and which continues to be in full force and effect from the date of issuance. This permit shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the Division. This permit is non-transferable. Should the City of Industry Waterworks

System undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

### 1.3 Enforcement History

The City has not had any violations in the last ten years.

## 2. SOURCES OF SUPPLY

### 2.1 Water Produced

The City's groundwater sources consist of one (1) active, three (3) inactive, and one (1) abandoned water wells located near S. San Fidel Avenue in an unincorporated area of Los Angeles County known as Avocado Heights. Active Well No. 5 is the primary source of water supply with a capacity of 1,200 gallon per minute (gpm) which draws groundwater from the Main San Gabriel Ground Water Basin. The aquifer in the area where Well No. 5 draws water is contaminated with volatile organic compounds (VOC's), Perchlorate, and N-Nitrosodimethylamine (NDMA). The water from Well No. 5 is delivered to SGVWC for treatment at its Plant B5 and SGVWC then provides water from its distribution system to the City's Distribution System through two major interconnections between the two systems. Table 1 below lists the City's only active groundwater source.

**Table 1 – Active Groundwater Source**

| Sources | PS Code | Status | Capacity (gpm) |
|---|---|---|---|
| Well No. 5 | 1910029-007 | Active | 1,200 |

### 2.2 Standby Sources, Emergency Supplemental Sources, and Interconnections

The City maintains 9 interconnections with surrounding water purveyors. The City can receive water from 7 connections; however, it primarily receives nearly all its water supply through the interconnection with SGVWC located at the Lomitas Reservoir. The other interconnections provide either emergency backup supply or supplemental supply to the City and provide the surrounding purveyors with either emergency backup supply or supplemental supply from the City.

Table 2 below lists the locations and known capacities of the interconnections to and from the City. When the City's current water supply from SGVWC is unavailable, the City can receive water from adjacent water purveyors via these interconnections.

**Table 2 – City Interconnections**

| No. | Connection | Source | Size | Flow Direction | Capacity (gpm) | Status |
|---|---|---|---|---|---|---|
| 1 | SGVWC Lomitas Reservoirs | GW | 12" | SGVWC to City Zone 1 | 2,000 | Active |
| 2 | SGVWC Workman Mill | GW | 10" | SGVWC to City Zone 1 | 2,000 | Active |
| 3 | SGVWC Salt Lake | GW | 2" | SGVWC to City Zone 1 | 50 | Active |
| 4 | LPVCWD Industry Hill PS 1 (Hill St.) | GW | 16" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 5 | LPVCWD Valley Blvd & Proctor Ave. | GW | 14" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 6 | LPVCWD Industry Hills PS 3 | GW | 12" | LPVCWD to Industry Hills | 1,200 | Emergency |
| 7 | LPVCWD Industry Hills Reservoir | GW | 8" | Bi-Directional (Industry Hills) | 400 to City | Active |
| 8 | LPVCWD Holguin Place | GW | 4" | City to LPVCWD | 195 | Active |
| 9 | LPVCWD San Jose Ave & Holguin Place | GW | 12" | City to LPVCWD | 2,000 | Emergency |
| **Total System Active Source Capacity** | | | | | 11,845 | **MDD = 2.75 MGD (the highest maximum day demand over the past 10 years) 4 x PHD = (MDD/24hr x 1.5 = 0.69 MG** |

Although water produced from Well No. 5 is about 1,200 gpm, the City can receive up to 4,050 gpm from SGVWC'S interconnections.

## 2.3 Groundwater Sources

The City owns five water wells, which are all located at the San Fidel Wells Yard. Out of five wells, only one well (Well No. 5) is active, one well (Well No. 1) is abandoned, one well (Well No. 2) is inactive, and two wells (Well No. 3 and 4) are inactive due to aquifer contamination. Wells No. 3, 4 and 5 are surface sealed, and are located within a 100-year flood zone in a dry riverbed of San Gabriel River and are located near a residential neighborhood adjacent to freeway 605.

Well No. 5 is located 50 feet north of Well No 4 in the same yard and was drilled to a depth of 980 feet in 1984. The wellhead and its equipment are housed within a secured building. The well is equipped with the 200-hp electric motor and "Flowserve" lubricated vertical turbine water pump rated 1,200 gpm. Well pumps 3, 4, and 5 sit on a 6-inch-high surface sealed concrete bases and equipped with the appropriate appurtenances. Well No 5 pumps into a dedicated transmission line that runs from the City's well field to SGVWC's B-5 treatment facility.

## 2.4 System Demand

The City serves potable water within the City of Industry and La Puente and unincorporated portions of Los Angeles County (Avocado Heights Area). Land use within the portion of service area served by the City is primarily commercial and industrial. Land use within the City's service area in unincorporated portions of Los Angeles County is primarily residential.

From 2010 to 2017, the average water usage was approximately 1,351 AFY. For the years 2010 through 2017, the annual water use data is shown in Table 3 below.

**Table 3 – Current Water Demand**

| Year | Water Use (AFY) | Water Use (gpm) |
|---|---|---|
| **2010** | 1,382.21 | 856.35 |
| **2011** | 1,321.04 | 818.45 |
| **2012** | 1,401.54 | 868.32 |
| **2013** | 1,352.56 | 837.98 |
| **2014** | 1,296.64 | 803.33 |
| **2015** | 1,313.63 | 813.86 |
| **2016** | 1,392.38 | 862.40 |
| **2017** | 1,345.33 | 833.3 |
| **Average** | **1,350.67** | **836.7** |

The City's Maximum Day Demand (MDD) per Section 64554(b)(1), Title 22 is 2.75 MGD as calculated in the table above. The total production capacity of the City's active wells and purchased sources is 17.1 MGD. The estimated Peak Hourly Demand (PHD) calculated using the method specified in Section 64554(b)(1) is 0.172 MGH. To be able to meet four

hours of PHD, the City's water system needs source capacity, storage capacity, and/or emergency source connections capacity to exceed 0.172 MGH x 4 = 0.69 MG. The total source capacity (17.1 MGD) and storage capacity (7.5 MG – see the table 4 in Section 4 below) independently satisfy the requirement. Therefore, the City water system has sufficient water to meet the MDD and four hours of PHD.

# 3. TREATMENT FACILITIES

As part of the EPA mandated Baldwin Park Operable Unit (BPOU) cleanup, a treatment facility was constructed at SGVWC's Plant B5 in 2008 to treat water from the City's Well No. 5 and SGVWC wells for VOCs, Perchlorate, NDMA, and 1,4-Dioxane. VOCs are removed from the water by a liquid phase granular activated carbon (LGAC) system. The Perchlorate is removed by a single pass ion exchange system. NDMA is destroyed by an ultraviolet (UV) and hydrogen peroxide advanced oxidation process (AOP) system. Hydrogen peroxide is added prior to the UV treatment system to assist in the destruction of 1,4-Dioxane and for enhanced destruction of NDMA.

SGVWC's Plant B5 is located at 209 Perez Place, east of San Gabriel River Freeway 605 and north of Valley Boulevard in the City of Industry. It is owned and operated by SGVWC, a private water company regulated by the California Public Utilities Commission. The current flow capacity of the treatment plant is 7,800 gpm. The BPOU agreement guarantees the City 1,200 gpm of treatment capacity within the Plant B5 Treatment Facility for treating the amount of water sent to the treatment facility from Well No. 5. This treated groundwater is the primary source of potable water for the City.

Sodium Hypochlorite is injected into the treated water line and passed into the onsite reservoirs. Required CT value is achieved in storage reservoirs. Water from the reservoirs is pumped into the SGVWC's Distribution system via onsite Booster Pumps.

The City receives disinfected water from one of the interconnections between SGVWC and the City. The City monitors free chlorine residuals daily from selected sites in the water system.

# 4. STORAGE FACILITIES

The City has three potable water storage reservoirs, and each reservoir has a storage capacity of 2.5 MG as listed in Table 4 below.

**Table 4 – Reservoir Summary**

| Name | Capacity (MG) | Base Elevation (ft. AMSL) | Full Elevation | Last inspected/ cleaned | Year Completed | Last Relined and Recoated |
|---|---|---|---|---|---|---|
| Lomitas | 2.5 | 392 | 424 | 8/2017 | 1986 | 2013 |
| Industry Hills East | 2.5 | 743 | 775 | 8/2017 | 1978 | 2011 |
| Industry Hills West | 2.5 | 743 | 775 | 8/2017 | 1978 | 2011 |
| **Total System Storage Capacity** | 7.5 | | | | | |

The City's Zone 1 is pressurized from the interconnections from SGVWC and the Booster Pumps located at the Lomitas Reservoirs. The Lomitas 2.5 MG reservoir serves as a storage facility for Zone 1 and is located at the City Yard on Lomitas Avenue. The Lomitas Reservoir was constructed in 1986 and is of steel construction, including sidewalls, floor and roofs. A five-thousand-gallon hydro-pneumatic tank is located adjacent to the Lomitas Reservoir. Emergency diesel-powered generator and 3 booster pumps were installed next to the Lomitas Reservoir in 1999.

The City's Industry Hills Zone receives water from the Lomitas Reservoir Booster Pumps and two Industry Hills Pump Stations. The other two reservoirs are in the Industry Hills development above the City of La Puente. Both Industry Hills Reservoirs were constructed in 1978 and are of steel construction, including sidewalls, floor and roof.

Dive/Corr, Inc. inspected the three reservoirs in August 2017, and the City has completed the Dive's recommendations. The City has scheduled and cleaned its reservoirs at least once every five years.

Overall, the City's three reservoirs are in good condition.

# 5. DISTRIBUTION SYSTEM

## 5.1 Pumping Facilities and Pressure Zones

The City has five (5) active booster pumping stations. Each station has three (3) booster pumps with varying horse-powers, design flows, and design heads.

Currently, there are two (2) main zones and three (3) sub-zones in the City's distribution system:

- Pressure Zone 1 is served primarily by the Lomitas Booster Station, which is supplied by the Lomitas Reservoir. SGVWC interconnections can also pressurize Zone 1 if the Lomitas Booster Station is out of service or is unable to meet the supply demand. If the Lomitas Reservoir and Booster Pump Station are out of service, the interconnection with LPVCWD's Zone 1 can temporarily supply the entire City Zone 1 via gravity feed.
- Salt Lake Sub-Zone is served by an interconnection from SGVWC.
- Industry Hills Zone is served by the Industry Hills Pump Station 2 located east of Industry Hills Pump Station 1 and the Industry Hills Pump Station 1 located south of Temple Avenue. Pump Station 1 feeds the (Lower Zone) industry hills zone and/or pumps water towards the Wet Well located near Industry Hills Pump Station 2. From there, the water is pumped through Industry Hills Pump Station 2 to the Industry Hills Tanks and/or to the Pump Station 2 Sub-Zone (Upper Zone).
- Pump Station 2 Sub-Zone (Upper Zone) serves a portion of the Industry Hills equestrian area.
- Lake Loop Subzone is served by Lake Loop Booster Station located north of BV Handorf Drive near the Dwight D. Eisenhower Golf Course.

## 5.2 Distribution/Transmission Pipelines/Asbestos Monitoring

The distribution system for the City consists of approximately 34.4 miles (181,631 ft.) of water pipeline, ranging in size from 1-inch to 20-inch. Asbestos Cement Pipe is the most common pipeline material within the system. The City also contains steel, cement mortar lined and coated steel, ductile iron and polyvinyl chloride (PVC). Asbestos cement pipe is no longer readily available due to environmental hazards associated with manufacturing and installation. For that reason, when an asbestos pipeline replacement is needed within the system, it will be replaced with PVC or ductile iron pipe. Table 5 below provides a breakdown of the existing pipelines by diameter and material.

**Table 5 – Pipeline Summary**

| Size (in) | AC (ft) | DIP (ft) | PVC (ft) | STL (ft) | Total (ft) |
|---|---|---|---|---|---|
| **1** | 82 | - | 280 | 276 | 639 |
| **2** | 1,456 | - | 69 | 11,050 | 12,574 |
| **2.5** | 175 | - | - | 886 | 1,062 |
| **3** | - | - | - | 1,829 | 1,829 |
| **4** | 10,015 | - | 1,589 | 1,647 | 13,252 |
| **6** | 25,185 | 181 | 660 | 6,323 | 32,348 |
| **8** | 21,069 | 3,083 | 1,329 | 660 | 26,143 |
| **10** | 7,884 | 886 | - | 515 | 9,285 |
| **12** | 19,353 | 1,409 | - | 5,211 | 25,972 |

| Size (in) | AC (ft) | DIP (ft) | PVC (ft) | STL (ft) | Total (ft) |
|---|---|---|---|---|---|
| **14** | 3,979 | 7,275 | - | - | 11,253 |
| **16** | 42,958 | 1,849 | - | 1,136 | 45,943 |
| **18** | 500 | 537 | - | - | 1,037 |
| **20** | 78 | - | - | 216 | 294 |
| **Totals** | **132,734** | **15,220** | **3,927** | **29,749** | **181,630** |

The City monitored for Asbestos in its distribution system on September 27, 2013. The result was a non-detect (ND). Therefore, the City's has completed the distribution system asbestos monitoring for the third compliance cycle (2011-2019).

During the site inspection, the booster pumps appeared to be in good condition. There were no signs of wear or of any improper connections.

# 6. WATER QUALITY MONITORING

## 6.1 Monitoring Bacteriological

Per the Total Coliform Rule (TCR), the City must collect two total coliform (TC) samples weekly from the distribution system. The City currently collects 20 TC samples during four-week months and 25 samples during five-week months. This works out to be 5 weekly samples, which is more than what is required. The City must submit the TC distribution system results monthly to the Division by the 10$^{th}$ of the following month. In the past 10 years, the City has been in compliance with the TCR MCL.

The City must collect residual disinfectant samples from the same locations and the same time that it collects the TC distribution system samples. The monthly average of residual disinfectant samples has been below the maximum residual disinfectant level (MRDL) of 4.0 mg/L for free chlorine.

The City last updated its Bacteriological Sample Siting Plan (BSSP) in December 2016. The City must update its BSSP every ten years and at any time the BSSP does not represent monitoring in the distribution system. If the City has a positive TC sample in the distribution system, then it must follow its Groundwater Rule (GWR) monitoring plan to notify SGVWC and LPVCWD of any positive TC samples in the distribution system.

## 6.2 Monitoring – Inorganic Chemicals

The City does not collect samples for inorganic chemicals, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.3 Monitoring – Nitrate

The City does not collect samples for nitrate, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.4 Monitoring – Nitrite

The City does not collect samples for nitrite, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.5 Monitoring – Perchlorate

The City does not collect samples for perchlorate, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.6 Monitoring – Secondary Standards

The City does not collect samples for secondary standards, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.7 Monitoring – Radiological

The City does not collect samples for radiological chemicals, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.8 Monitoring – Volatile Organic Chemicals

The City does not collect samples for volatile organic chemicals, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.9 Monitoring – Synthetic Organic Chemicals

The City does not collect samples for synthetic organic chemicals, because Well No 5 Water is treated by SGVWC's B-5 treatment facility. All the samples are collected and reported by SGVWC.

### 6.10 Monitoring – Stage 2 Disinfection Byproducts Rule

Under the Stage 2 DBPR, the City has been classified as a Schedule 1 water system. The City began complying with the Stage 2 DBPR monitoring and reporting requirements in the third quarter of 2012. The Stage 2 DBPR monitoring consists of sample collection at two sites that are monitored annually. Between the years of 2015 to 2017, the locational running

annual average (LRAA) at the two sample sites range from 0.64 – 16.00 ppb for total trihalomethanes (TTHM) and 0.00 – 1.50 for five haloacetic acids (HAA5). The three year's TTHM and HAA5 summary sheets are attached in the end of this report. The City is in comply with the Stage 2 DBPR monitoring and reporting requirements.

### 6.11 Monitoring – Lead and Copper Rule (LCR)

The City is a medium-size water system for LCR because it serves greater than 3,300 and less than or equal to 50,000 persons. The City is required to collect 20 lead and copper samples from the distribution system. The last LCR monitoring round was conducted in July of 2016. Out of the 23 samples collected, the 90th percentiles for lead and copper were 0.0031 mg/L and 0.580 mg/L, respectively, which are below the lead and copper action levels. According to the LCR, the City is eligible to continue triennial monitoring. The next monitoring round is required in 2019 during the warmer months of June, July, August, or September.

**Table 6: Lead and Copper Monitoring Results**

| Frequency | Date | Number of Samples | 90th Percentile Results | |
|---|---|---|---|---|
| | | | Lead, ug/L | Copper, ug/L |
| **Semi-Annual** | January 1993 | 40 | 8 | 657 |
| **Semi-Annual** | July 1993 | 40 | < 5 | 711 |
| **Triennial** | August 1998 | 40 | < 5 | 179 |
| **Triennial** | September 2000 | 20 | < 5 | 657 |
| **Triennial** | October 2004 | 21 | < 5 | 370 |
| **Triennial** | October 2007 | 20 | < 5 | 150 |
| **Triennial** | September 2010 | 20 | < 5 | 150 |
| **Triennial** | July 2013 | 20 | < 5 | 440 |
| **Triennial** | July 2016 | 23 | < 5 | 580 |

| Frequency | Date | Number of Samples | 90th Percentile Results | |
|---|---|---|---|---|
| | | | Lead, ug/L | Copper, ug/L |
| **Triennial** | July 2019 | | | |

# 7. RECYCLED WATER

The Industry Hills Civic Recreation-Conservation Area (Equestrian Center) and golf courses are irrigated with recycled water from Los Angeles County Sanitation District-San Jose Plant. The San Jose Plant effluent feeds a 36-inch line through Pumping Plant No. 1 to two (2) 2.1 MG reservoirs. Water from the 2.1 MG reservoirs then goes to Pumping Plant No. 2 which pumps the recycled water through a 16-inch line to a series of lakes and distributed to the Equestrian Center's irrigation system. Proper reduced pressure principle backflow prevention devices are installed on the meters. The recycled water system is physically separated from the domestic water system. Two (2) miles of a 16-inch pipe is in place within the City of Industry boundary.

Each new site where recycled water is approved by the Los Angeles County Health Department, Cross Connection Control Section. The site is also subject to inspection by the Los Angeles County Health Department prior to being placed into service.

# 8. OPERATIONS AND MAINTENANCE

## 8.1 Operator Certifications

The City of Industry is contracted with the LPVCWD to operate the City. Currently, the LPVCWD has ten certified treatment and distribution operators operating the system. The water system is not required to have treatment operators, as pursuant to Title 22, Chapter 13, Article 2, Section 63770 of the California Code of Regulations, certified distribution system operators may determine chemical dosage rates for distribution residual maintenance if needed. According to Section 64413.3 of the Operator Certification Regulations, Title 22, CCR, the City is classified as a D2 system for distribution system. Distribution system classification is based on population served and complexity of system. The chief and shift operator(s) for the distribution facilities shall have, at minimum, D2 and D1 certification, respectively. An updated list of certified operators currently employed by the City along with their operator grade information was provided in the 2017 Electric Annual Reporting System submitted to the Division. The City has adequate number of certified water distribution operators with the proper levels of certifications.

## 8.2 Customer Complaints

The City's administrative staff receives the customer complaints and routes the information to the operators. The operators respond to the customers through a field visit. The City keeps records of all customer complaint incidents on file in its office.

## 8.3 Cross-Connection Control Program

The City's existing cross connection program is adequate, and all backflow prevention assemblies are tested on an annual basis. Currently, Mr. Cesar A. Ortiz is the City's cross connection coordinator with a cross connection specialist certificate obtained from AWWA after completing Cross Connection Control Specialist and Backflow Tester courses in June 2010. A cross connection control program evaluation form was completed and is included as an attachment to this Report.

The LPVCWD's Engineering & Compliance Manager notifies its own Treatment & Supply Supervisor (Mr. Cesar Ortiz) whenever a new development occurs within the service area. The Treatment & Supply Supervisor then conducts a cross connection inspection of the new development and completes a cross connection control inspection report. In his inspection report, Mr. Cesar A. Ortiz determines if a backflow prevention assembly is required at the site.

The City requires that all backflow prevention assemblies be tested annually by their site owners. The City mails testing notices to the site owners. Each site owner is responsible for testing his assembly and sending the testing reports to the City.

If the site owner does not test his assembly, then the City will shut off the water to the site. Reduced pressure (RP) and double check (DC) assemblies are the types of assemblies being used in the water system. Most of the assemblies currently being used are RP assemblies. All assemblies are tested every year.

## 8.4 Valve Exercising

The City has a valve maintenance program, dated in January 2017, on file with the Division. The program outlines the objectives of the program including determination of the number of valves, their locations, and the type of valves, etc. The program also sets policy ensuring timely repair of damaged valves along with procedures for properly exercising valves. Per program, valves should be inspected and exercised every four (4) years. Valves that have been determined to be critical should be exercised every 4 years and inspected annually.

## 8.5 Flushing Program

The main goals of the flushing program are to maintain regulatory compliance, minimize customer complaints, and maintain disinfectant residual throughout the system while minimizing the quantity of water used for flushing. Currently, the City has 64 dead-end

water mains and hydrants that are flushed on an annual basis (Note: During times of low groundwater basin levels and/or severe drought conditions, the dead-end flushing program will be performed on an as needed basis).

The City keeps detailed records of all flushing activities on a "Flushing Schedule Worksheet." When the City performs a flushing activity, some of the pertinent data that is recorded on the worksheet includes: date of activity, name of operator, location of activity, color of water when flushed, time to complete flushing, and type and size of equipment that was flushed. A regular flushing routine ensures that water does not become stagnant in the distribution system, avoiding the potential for any bacteriological growth to occur, as well as nitrification, or other water quality problems which might lead to unpleasant odor, taste, or appearance. Flushing records are satisfactory.

### 8.6 Emergency Response Plan

A copy of the Emergency Response Plan (ERP) is on file with the Division. The City's ERP was revised on December 28, 2016.

### 8.7 Consumer Confidence Report

The Division has the City's 2017 Consumer Confidence Report (CCR) on file.

### 8.8 Water Quality Emergency Notification Plan

The Division has the City's 2017 Water Quality Emergency Notification Plan (WQENP) on file. The WQENP is due every year by April 30.

### 8.9 Annual Report to the Drinking Water Program

The Division has the City's 2017 Annual Report to the Drinking Water Program (ARDWP) on file. The ARDWP is due every year by April 30.

## 9. SYSTEM APPRAISAL

The overall operations and facilities of the City are adequate. The City's system is generally in good condition. The sites are well kept, and all equipment is in decent condition and maintained on a regular basis.

## 10. CONCLUSIONS AND RECOMMENDATIONS

The Division has determined that the City is capable of providing a safe, wholesome, and potable water supply meeting all applicable State Drinking Water Standards when operated

in compliance with this permit. Issuance of the revised full domestic water supply permit by the Division to the City is recommended subject to the following conditions:

## GENERAL

1. The City of Industry Waterworks shall comply with all state laws applicable to public water systems and any regulations, standards, or orders adopted thereunder.

2. All water supplied by the City of Industry Waterworks for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) established by the Division of Drinking Water. If the water quality does not comply with the California Drinking Water Standards, treatment shall be provided to meet standards.

3. The only sources approved for domestic water supply are the following:

**Table 1: Active Groundwater Source**

| Sources | PS Code | Status | Capacity (gpm) |
|---|---|---|---|
| Well No. 5 | 1910029-007 | Active | 1,200 |

**Table 2: Purchased Water Sources**

| No. | Connection | Source | Size | Flow Direction | Capacity (gpm) | Status |
|---|---|---|---|---|---|---|
| 1 | SGVWC Lomitas Reservoirs | GW | 12" | SGVWC to City Zone 1 | 2,000 | Active |
| 2 | SGVWC Workman Mill | GW | 10" | SGVWC to City Zone 1 | 2,000 | Active |
| 3 | SGVWC Salt Lake | GW | 2" | SGVWC to City Zone 1 | 50 | Active |
| 4 | LPVCWD Industry Hill PS 1 (Hill St.) | GW | 16" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 5 | LPVCWD Valley Blvd & Proctor Ave. | GW | 14" | LPVCWD to City Zone 1 | 2,000 | Emergency |
| 6 | LPVCWD Industry Hills PS 3 | GW | 12" | LPVCWD to Industry Hills | 1,200 | Emergency |
| 7 | LPVCWD Industry Hills Reservoir | GW | 8" | Bi-Directional (Industry Hills) | 400 to City | Active |

| No. | Connection | Source | Size | Flow Direction | Capacity (gpm) | Status |
|---|---|---|---|---|---|---|
| 8 | LPVCWD Holguin Place | GW | 4" | City to LPVCWD | 195 | Active |
| 9 | LPVCWD San Jose Ave & Holguin Place | GW | 12" | City to LPVCWD | 2,000 | Emergency |

4. There are no approved treatment processes in the City of Industry Waterworks System's system.

5. No changes, additions, or modifications shall be made to the sources or treatment processes outlined in Provisions 3 through 4 unless an amended water permit has first been obtained from the Division.

## WATER QUALITY

6. The City of Industry Waterworks shall ensure that monitoring of all active sources is conducted in accordance with the vulnerability assessment issued by the Division of Drinking Water.

## OPERATOR CERTIFICATIONS

7. The City of Industry Waterworks water system is not required to have treatment operators, as pursuant to Title 22, Chapter 13, Article 2, Section 63770 of the California Code of Regulations, certified distribution system operators may determine chemical dosage rates for distribution residual maintenance if needed.

8. The City of Industry Waterworks distribution system shall be operated by personnel who have been certified in accordance with Chapter 13, Title 22, CCR, Operator Certification Regulations. The chief and shift operator(s) for the distribution facilities shall have, at minimum, D2 and D1 certification, respectively.

## CROSS-CONNECTION CONTROL PROGRAM

9. The City of Industry Waterworks shall comply with Title 17, CCR, to prevent the water system from being contaminated by possible cross-connections. The City of Industry Waterworks shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow preventers shall be tested at least annually.

## DIRECT ADDITIVES

10. The City of Industry Waterworks shall only use additives that have been tested and certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI) Standard 60. This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by ANSI.

## INDIRECT ADDITIVES

11. The City of Industry Waterworks shall only use chemicals, materials, lubricants, or products that have been tested and certified as meeting the specifications of NSF/ANSI Standard 61 in the production, treatment or distribution of drinking water that will result in its contact with the drinking water, including process media, protection materials (i.e. coating, linings, liners), joining and sealing materials, pipe and related products, and mechanical devices used in treatment/transmission/distribution system, unless conditions listed in Section 64593, Title 22, CCR are met. This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by ANSI.

## ANNUAL REPORTS

12. The City of Industry Waterworks shall submit Annual Reports on the status and condition of the water system, as directed by the Division.

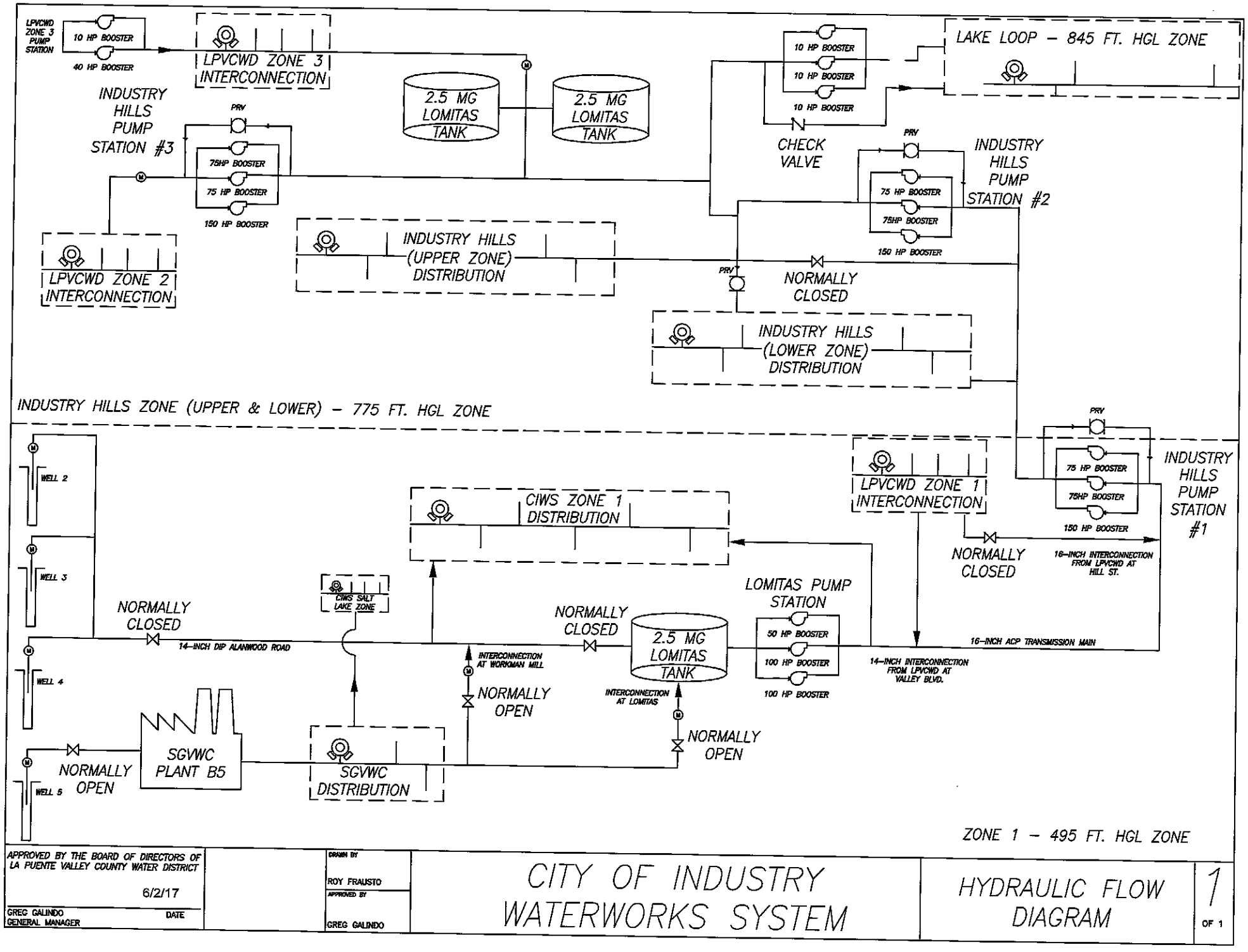
## RECORDS

13. The City of Industry Waterworks shall keep complete records of any emergency and scheduled interruptions in water service. These records should include:

    a) Location of the problem
    b) Cause of the interruption
    c) Date and approximate time of the problem
    d) Precautions taken to minimize contamination of the supply and notification of affected users.

# APPENDIX A

## Water System Map and Schematic




APPROVED BY THE BOARD OF DIRECTORS OF LA PUENTE VALLEY COUNTY WATER DISTRICT

6/2/17

GREG GALINDO
GENERAL MANAGER

DATE

DRAWN BY
ROY FRAUSTO

APPROVED BY
GREG GALINDO

# CITY OF INDUSTRY WATERWORKS SYSTEM

## HYDRAULIC FLOW DIAGRAM

1 OF 1

# APPENDIX B

## Reservoirs Inspection Checklist

# Reservoir Inspection Checklist (in January, 2018)
# City of Industry Waterworks – System No. 1910029

| RESERVOIR | YEAR | SIZE | TYPE | | CONSTRUCTION | | | SECURITY | | GENERAL HOUSEKEEPING | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Are roof vents screened? | Are overflow, drain lines covered or screened? | Is the tank protected against flooding? | Is the site fenced and secure? | Are ladder, roof hatches locked and not accessible to public? | Are the tank and its surrounding adequately maintained? | Quality of water inside the tank and condition of tank interior? |
| NAME | YYYY | MG | A-Above, P-Partial, B-Below Ground Level | C-Conc. S-Steel | Y/N | Y/N | Y/N | Y/N | Y/N | G-Good, F-Fair, P-Poor | G-Good, F-Fair, P-Poor |
| 1. Industry Hills-East | 1978 | 2.5 | A | S | Y | Y | Y | Y | Y | G | G |
| 2. Industry Hills-West | 1978 | 2.5 | A | S | Y | Y | Y | Y | Y | G | G |
| 3. Lomitas | 1987 | 2.5 | A | S | Y | Y | Y | Y | Y | G | G |
| Total | | 7.5 | | | | | | | | | |

# APPENDIX C

## Reservoir Inspection Report (from Dive/Corp, Inc)

# DIVE / CORR, INC.

**Industrial Photography & Inspection Services**

P. O. BOX 30427 • LONG BEACH, CA 90853 • OFFICE (562) 439-8287 • FAX (562) 438-7151


## TANK INSPECTION REPORT

| | | | |
|---|---|---|---|
| | | DATE INSPECTED | 8/03/17 |
| AGENCY | La Puente CWD | TANK NAME | West |
| SUPERVISOR | Mr. Greg Galindo | HATCH | East |
| SIZE | 2.50 MG | DATE BUILT | 1978 |
| INSPECTOR | Dan Gross | TENDER | F Echandi |
| LADDER | Yes/Int-Yes/Ext | CP | Yes/Sac |
| BRIEF | General Survey | LAST INSPECTED | NA |

## CITY OF INDUSTRY
## WEST TANK

THE FOLLOWING PHOTOGRAPHS CORRESPOND TO NUMBERS VIEWED AT THE BOTTOM OF THE ALBUM PAGES WHEN THE ALBUM IS VIEWED IN CENTERFOLD MODE:

15-16) City of Industry - West Tank. This is an above ground welded steel reservoir, four plate courses plus a knuckle course tall. The lowest course is referred to as course #1.

There are two tanks on this site. The West Reservoir is the tank with no access stairway and is farthest from the site access gate.

17-18) The tank nameplate is above the round manway shown in photograph (#19).

| | | |
|---|---|---|
| FABRICATOR | - | AMERICAN BRIDGE |
| CONTRACT # | - | K9310 |
| YEAR BUILT | - | 1978 |
| HEIGHT | - | 36'5" |
| WIDTH | - | 110' |
| SIZE | - | 2.5 MG |

19-38) The exterior wall coating is in good condition. No notable defects were sighted.

This tank has two round manways (#19,35). A transfer pipe (#23) is present. There are flexible couples.

The overflow exits through course #1 (#21). The end has a duckbill.

The exterior target is properly indicating water level (#29). The tank had 31' at the time of inspection.

The tank has a concrete retaining ring. No significant defects were sighted. This tank does not have anchor bolts.

39-76) The exterior roof coating is in good condition. No notable defects were sighted.

The vent hood (#45-50) is secure. Rust is evident on the screen.

A sacrificial anode Cathodic Protection System has been added. Hand hole covers are in good condition. Of note is that the holes are 6" in diameter. The NACE (National Association of Corrosion Engineers) standard is a 5" hole. Grommets were added at the end of the inspection (#61-64).

The roof access hatch (#73) was found properly locked. For the purposes of this report, the hatch will be referred to as being on the West side.

This tank has both handrail and safety cables. These appear to be in good condition.

77-86) The above water portion of the interior access ladder and telemetry pipe is secure and the coating is in good condition.

87-96) The above water portion of the overflow funnel appears securely attached and in overall good condition. The adjacent shell and roof coating are in good condition.

97-122) There are four plate courses plus a knuckle course. The top 5' are above water. The above water walls are in good condition. No notable defects were sighted.

Beam ends are bolted to welded knuckle braces. All beams appear properly coated, upright and securely attached.

There are two fasteners per beam. Fasteners are in good condition.

The float (#107-112) is properly connected to the two guide wires as well as the traveling wire. The pan appears to move properly with a change in elevation.

123-206) The roof underside coating is in good condition. No notable defects were sighted. Patches are in good condition (#167,173).

All wiring for the Impressed Current Cathodic Protection System appears to be intact. No loose or fallen strings were identified. These were not pull tested. All anode wires are connected to the roof (#127).

All beams appear upright and securely attached. No gross bending or twisting was sighted.

The columns appear upright and stable. No indications of movement were observed. The above water column coating is in good condition.

207-216) The below water portion of the internal access ladder appears securely attached and in good condition.

The ladder has a safety climb rail. This also appears securely attached and in good condition.

217-218) The guide wires are securely attached and in good condition. Sediment seen here is considered typical and barely covers the floor.

219-230) A telemetry pipe is adjacent to the internal access ladder. The coating is in good condition. Of note is that there are two slots cut into the base (#207).

Small coating blisters are seen in very sparse numbers along the cut-out edge (#225-230) on both sides. Half of the blister caps are broken. Rust is not associated with this condition.

A transducer is not evident internally.

231-234) The drain exits through the floor. The opening is clear.

235-270) The floor coating is in good overall condition. Many patches are seen. Patches are in good condition.

Sediment is null and barely covers the floor. No measurable deposits were found. No foreign debris from vandalism was sighted.

This tank has sacrificial anodes. The anodes ground directly to the roof. There is no header cable or test box.

As the anodes decay, slough piles develop below (#253). The slough pile depths vary from moderate (#263,265,267) to very slight (#257).

271-274) The inlet/outlet is common and enters though course #1. The coating is in good condition. The adjacent shell coating is typical and in good condition.

275-292) The overflow pipe is internal and exits through course #1. The pipe coating is in good condition. No notable defects were sighted.

Wall and floor braces also appear to be in good condition. No corrosion was sighted.

293-304) There are two round manways. The plates in both cases are in good condition.

Corrosion at support hardware is minimal (#297).

305-344) There are four plate courses plus a knuckle course. The top 5' feet was above water and has been previously described as being in good condition.

The below water coating is in good condition. Patches are found scattered over the surface. These appear to be in good condition. Rust tubercles are rare and small where found (#309). No notable corrosion was seen.

345-372) The below water portion of the column pole coating is in good condition. No notable defects were sighted.

The bases appear stable and the coating is in good condition.

373-388) This tank has sacrificial anodes. In all cases, decomposition is very slight and all anodes are in near new condition.

For reference, several of the anodes show no sign of decay (#379,387).

# DIVE / CORR, INC.

## SUMMARY
## WEST TANK

| | | |
|---|---|---|
| EXTERIOR WALLS | - | Good |
| EXTERIOR ROOF | - | Good |
| VENT | - | Securely attached. |
| Screening | - | Rusting |
| HATCH | - | Securely locked - East side. |
| Handrail | - | Good |
| Safety Cables | - | Two |
| INTERIOR ROOF | - | Good |
| ABOVE WALLS | - | Top 5' - good |
| BELOW WALLS | - | Good |
| FLOOR | - | Good |
| SEDIMENT | - | Most of the floor is either bare or near bare. No measurable deposits. No foreign debris from vandalism was found. |
| STAIRS - Ext | - | None |
| Vandal Guard | - | |
| LADDER - Int | - | Securely attached - good condition |
| SAFETY RAIL | - | Good |
| FLOAT | - | Good |
| Target | - | Indicator properly riding on the target board at this elevation. |
| Guide Wires | - | Good |
| OVERFLOW | - | Interior pipe - good |
| MANWAY #1 | - | Good |

# DIVE / CORR, INC.

| | | |
|---|---|---|
| MANWAY #2 | - | Good |
| DRAIN | - | Clear - exits through the floor. |
| COLUMNS | - | Good |
| INLET | - | Clear - good coating condition. |
| Flex Couple | - | Yes |
| OUTLET | - | Same as the inlet. |
| TELEMETRY PIPE | - | Good - sparse number of coating blisters by the floor cut-out. No related corrosion. |
| CATHODIC SYST | | |
| Hand Hole Covers | | Yes - good condition |
| Grommets | | Yes - added at the end of the inspection |
| Anodes | | Near new condition |

Potentials taken by this inspector using a portable copper copper sulfate reference cell.

TOP -1.187 mVolts
MID -1.190 mVolts
BOT -1.223 mVolts

# DIVE / CORR, INC.

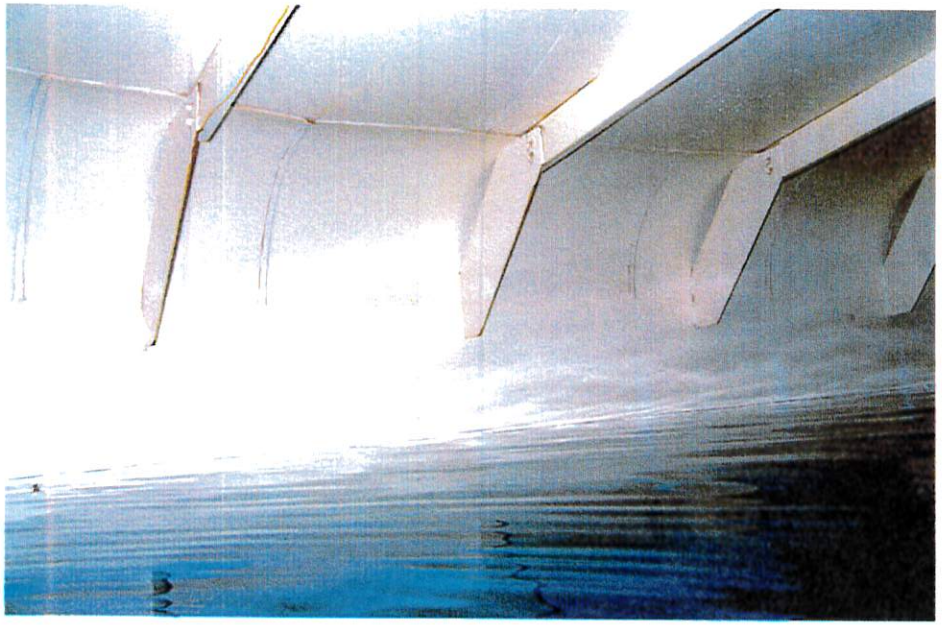
## RECOMMENDATIONS

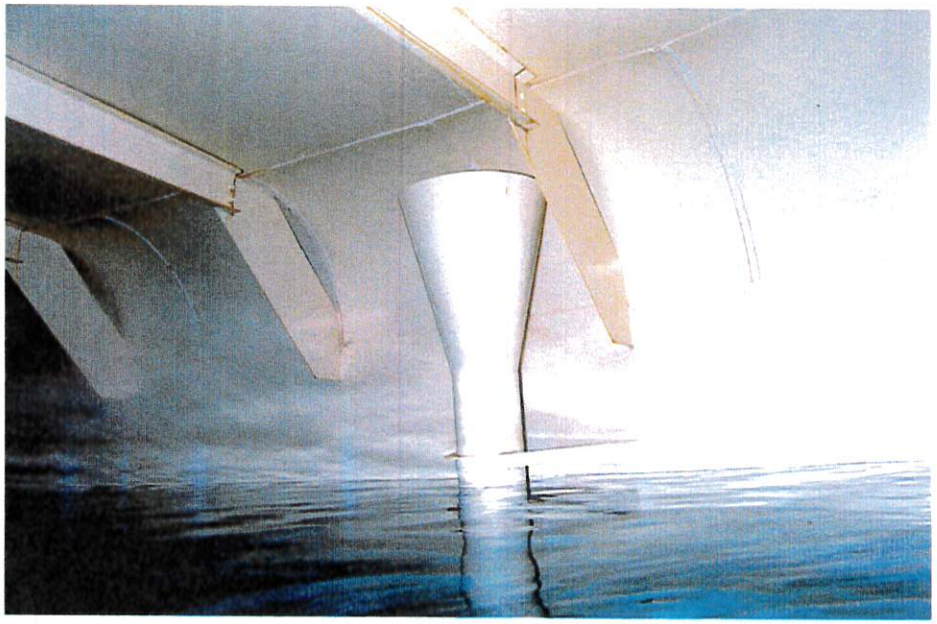
1) Externally, the tank coating is in good condition and no action is recommended.

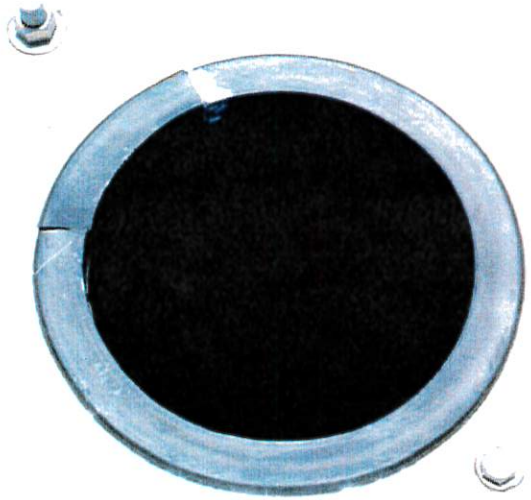
2) Internally, the coating is also in good condition. No corrosion issues are observed at this time.

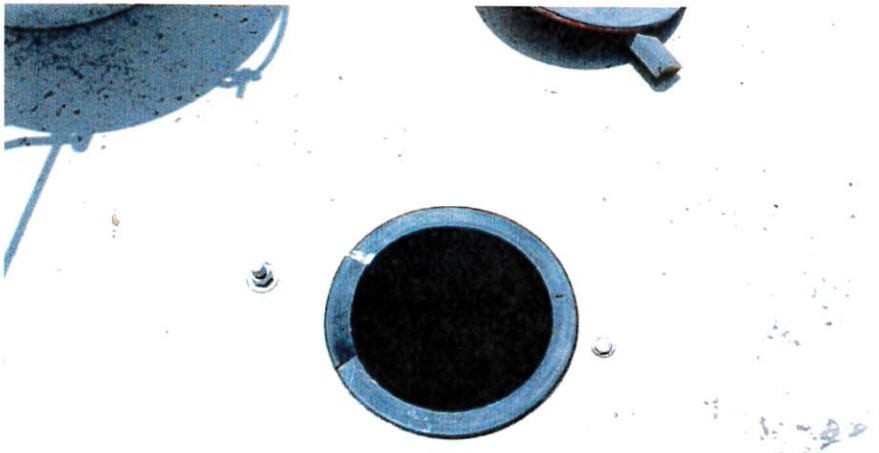
3) This tank has an internal telemetry pipe. There are two small openings at the base and water exchange appears poor. In addition, the sacrificial anodes cannot protect all of the interior surfaces. Consider removing this pipe at the next maintenance cycle.

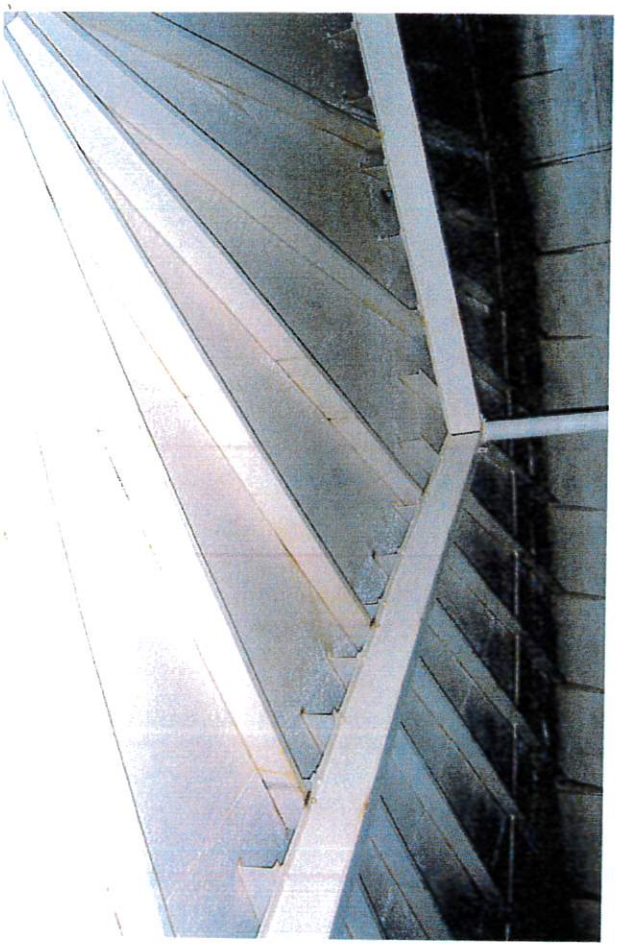
4) The roof vent screen is rusting. Anticipate that this will need changing in one year.

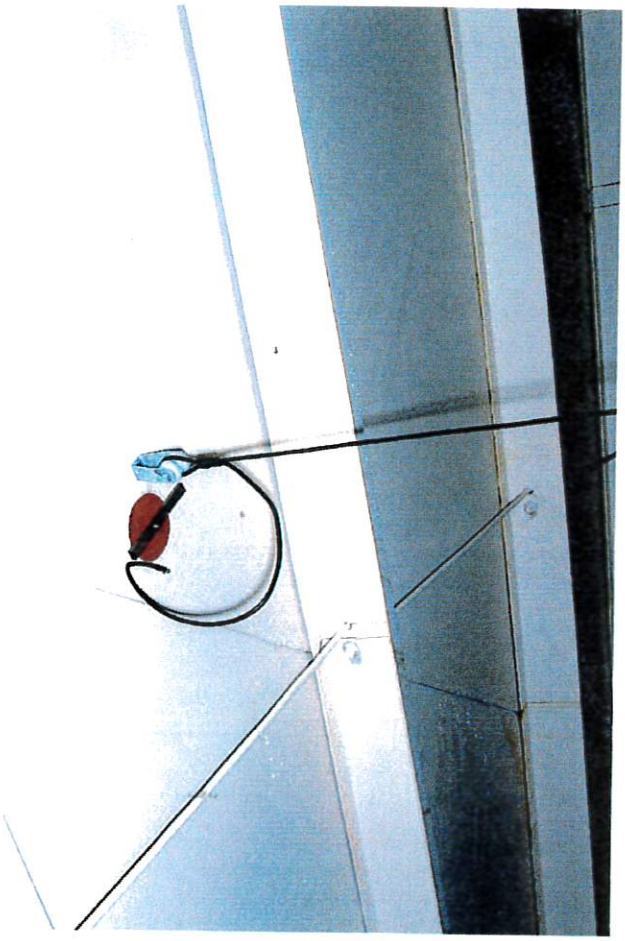


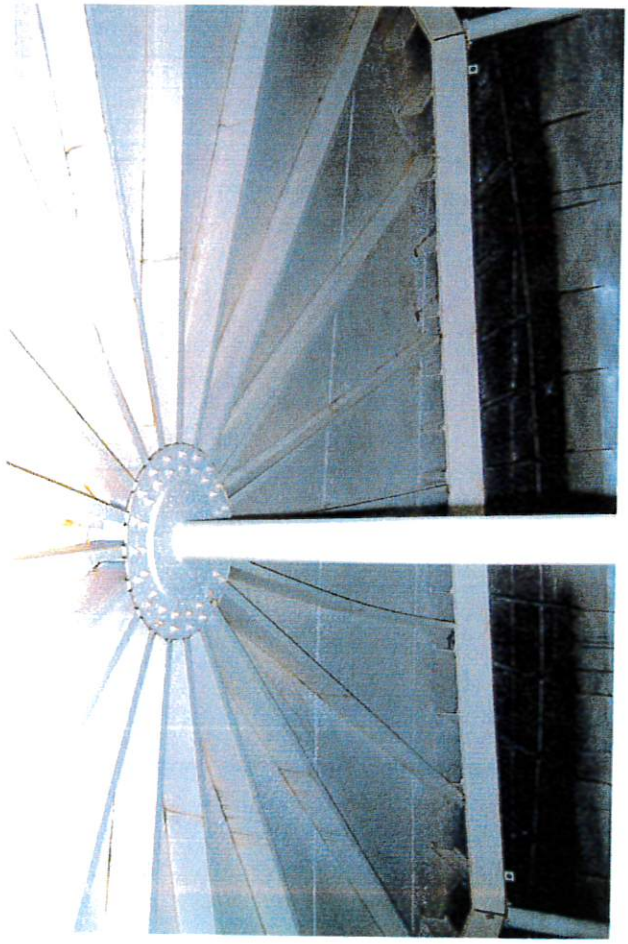


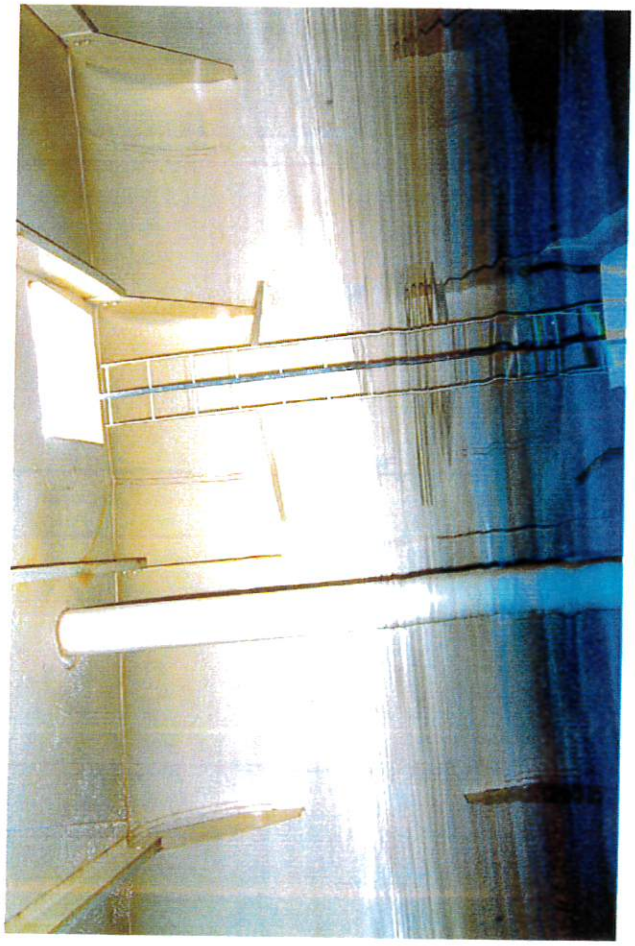


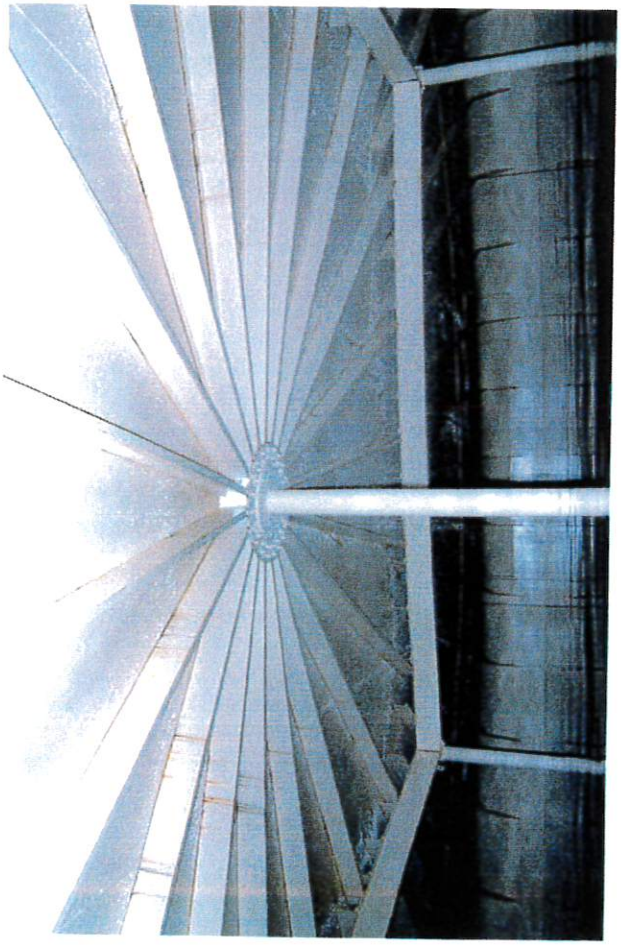


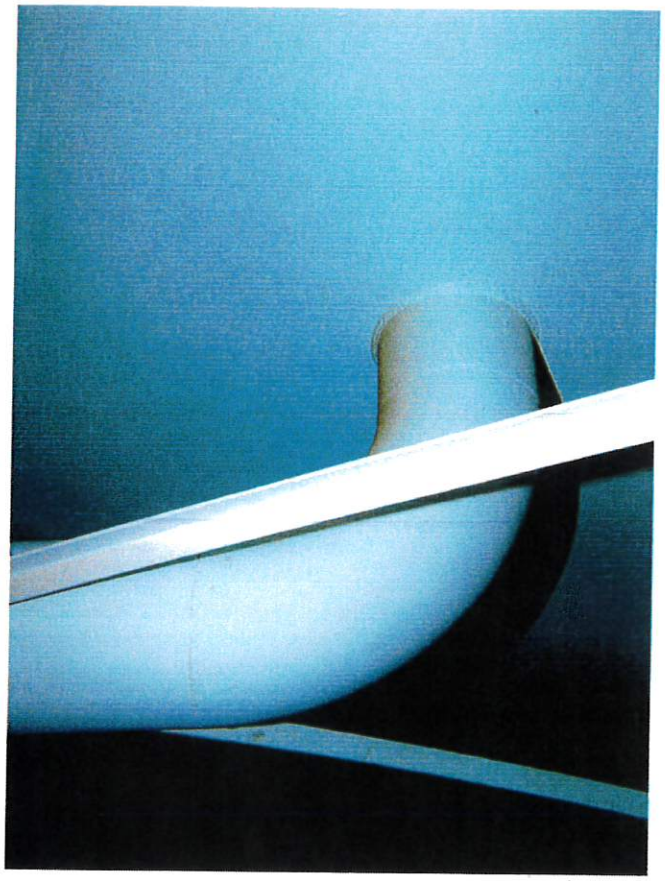


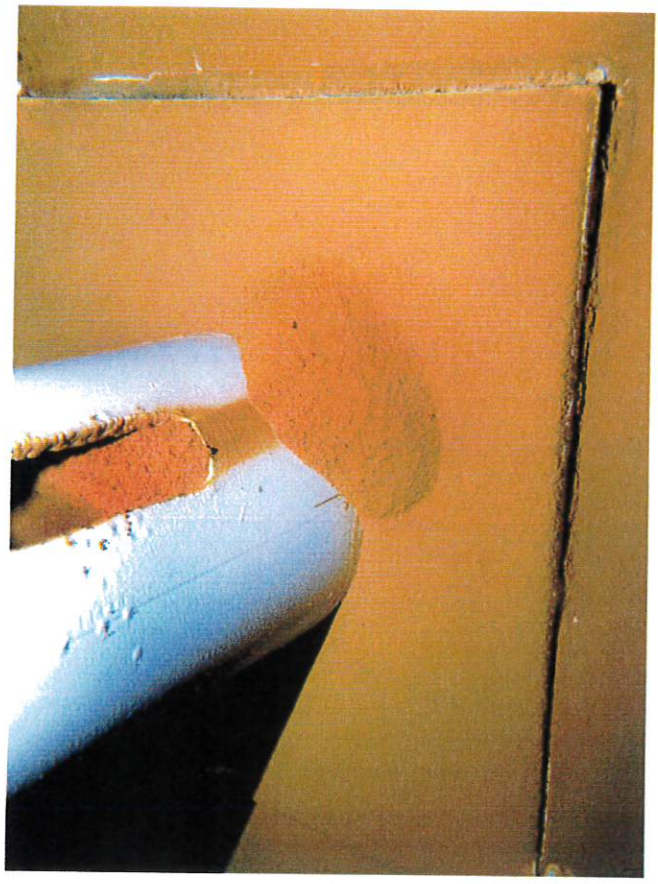


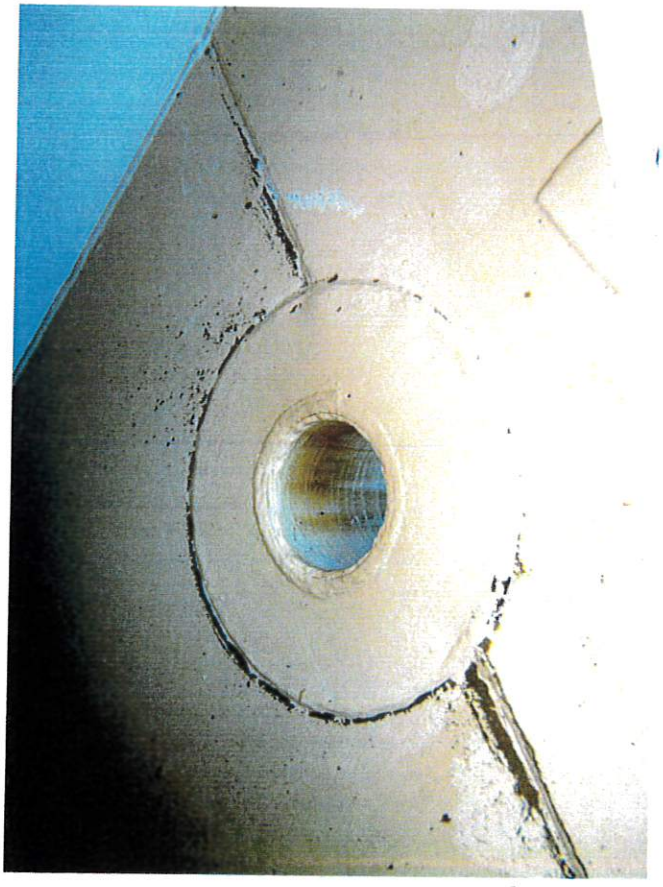


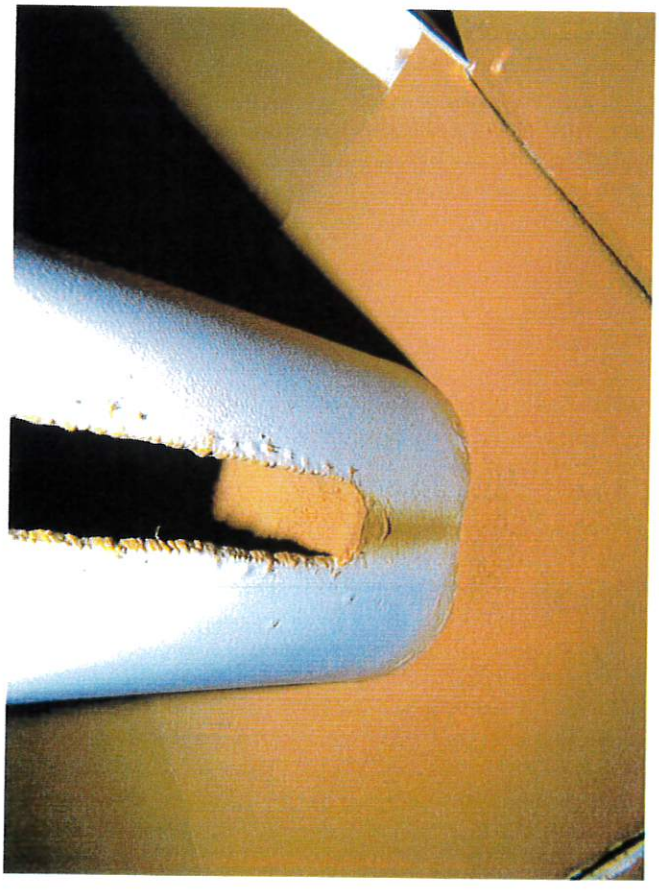


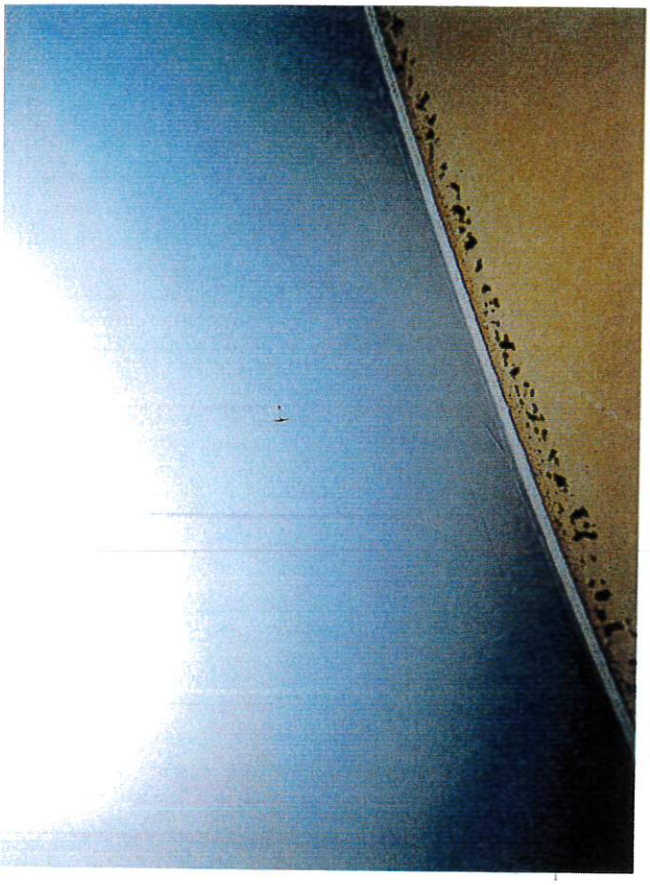


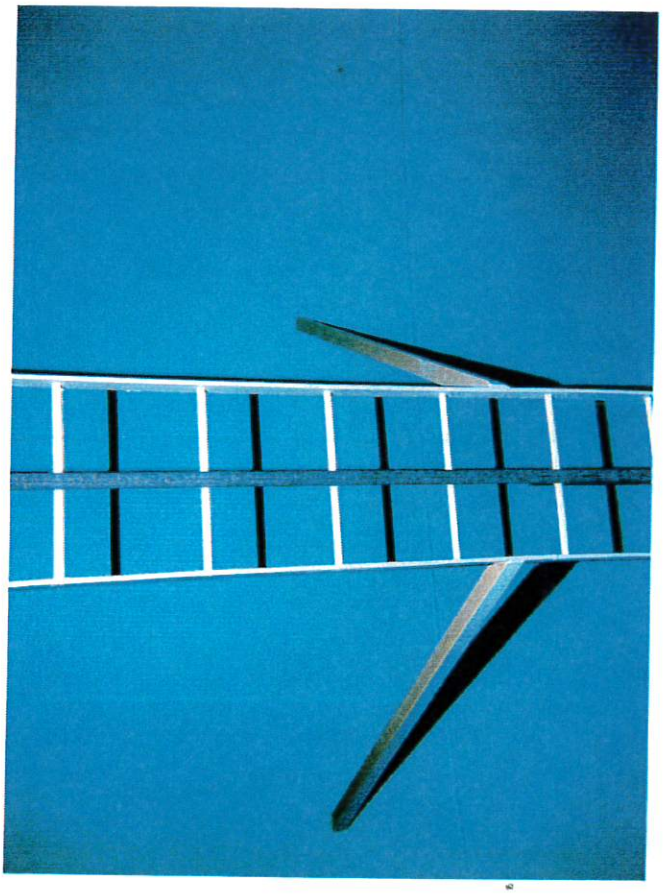


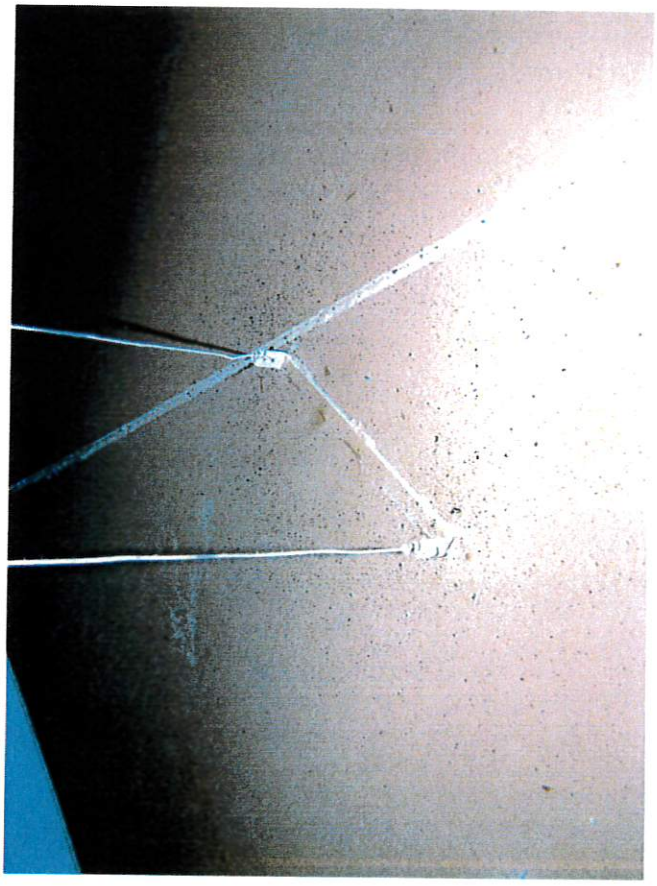


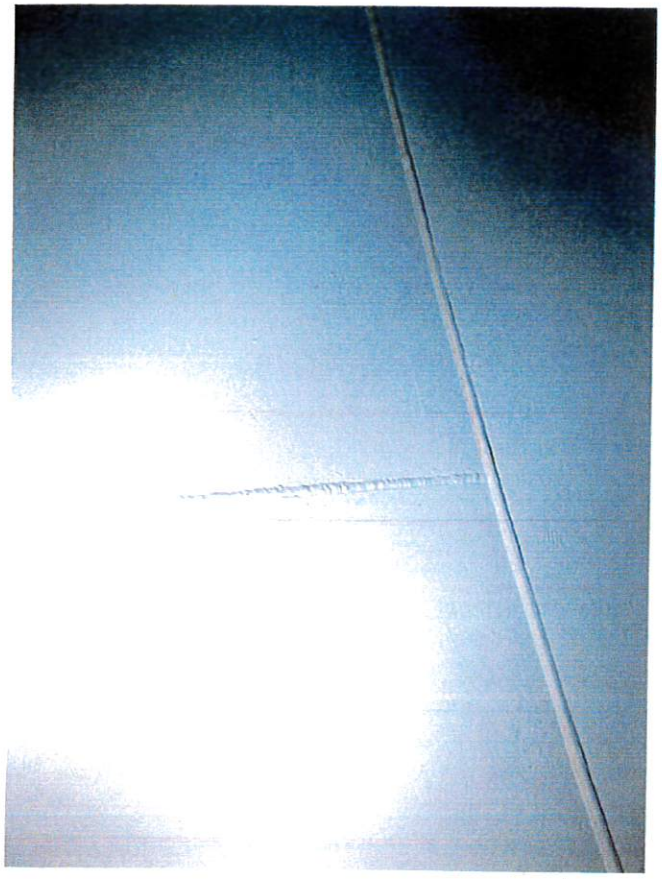


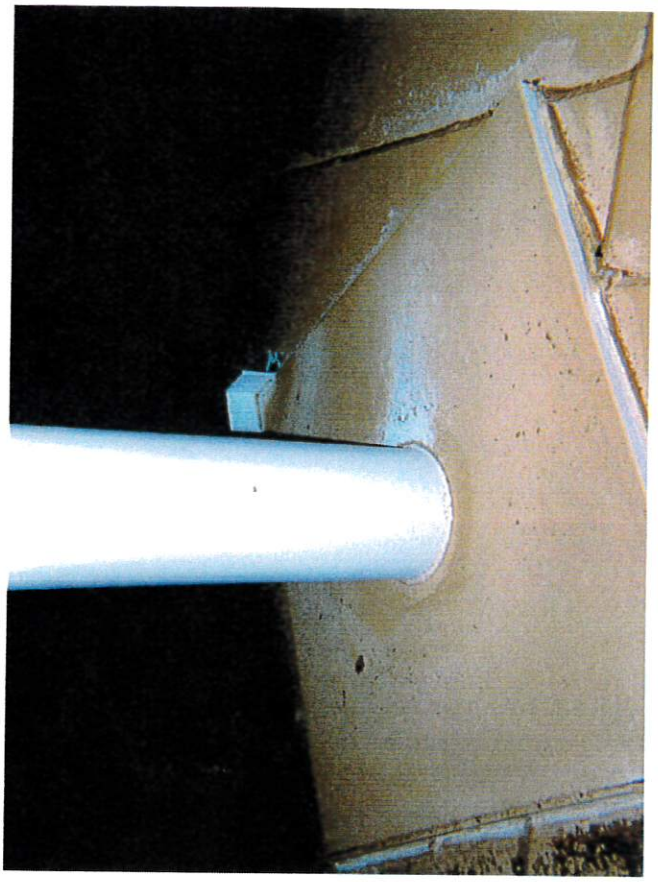


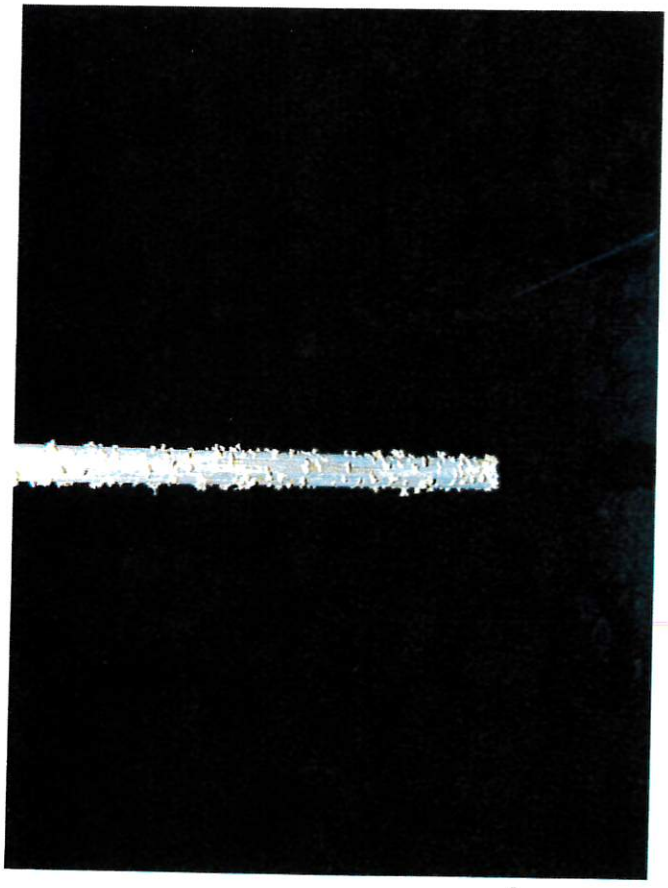


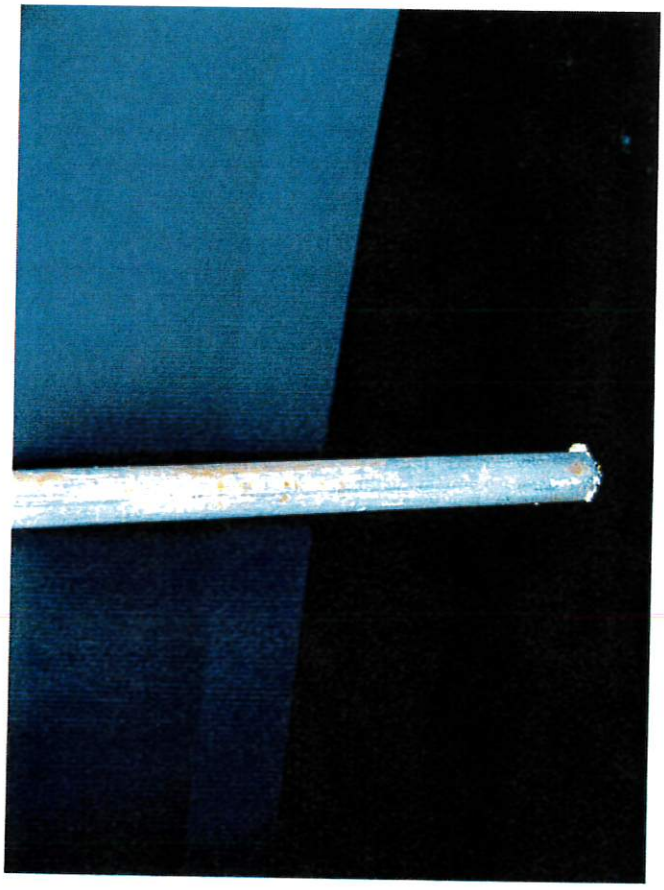












# DIVE / CORR, INC.

**Industrial Photography & Inspection Services**

P. O. BOX 30427 • LONG BEACH, CA 90853 • OFFICE (562) 439-8287 • FAX (562) 438-7151


## TANK INSPECTION REPORT

| | | | |
|---|---|---|---|
| | | DATE INSPECTED | 8/03/17 |
| AGENCY | La Puente CWD | TANK NAME | Alamitas |
| SUPERVISOR | Mr. Greg Galindo | HATCH | West |
| SIZE | 2.50 MG | DATE BUILT | 1986 |
| DIVER | Dan Gross | TENDER | F Echandi |
| LADDER | Yes/Int-Yes/Ext | CP | Yes / Sac |
| BRIEF | General Survey | LAST INSPECTED | NA |

## CITY OF INDUSTRY
## LAS ALAMITAS TANK

**THE FOLLOWING PHOTOGRAPHS CORRESPOND TO NUMBERS VIEWED AT THE BOTTOM OF THE ALBUM PAGES WHEN THE ALBUM IS VIEWED IN CENTERFOLD MODE:**

15-16) Las Alamitas Tank. This is an all steel, above ground reservoir, three plate courses plus a knuckle course tall. The lowest course is referred to as course #1. This is the only tank on this site.

17-18) The tank nameplate is above the round manway shown in photograph (#19).

| | | |
|---|---|---|
| FABRICATOR | - | PITTSBURGH-DES MOINES |
| CONTRACT # | - | 56517 |
| YEAR BUILT | - | 1986 |
| HEIGHT | - | 29' |
| WIDTH | - | 120' |
| SIZE | - | 2.5 MG |

19-48) The exterior wall coating is in good condition. No notable defects were sighted.

This tank has two round manways (#19,43) and a small clean-out door (#43).

The blue pipe does not have a visible flexible couple (#29). Piping on the East side of the tank does have a flexible couple (#37).

The external access ladder was found properly locked. No evidence of vandalism was seen either externally or internally.

The system originally connected to the Cathodic Protection box (#23-26) has been removed. New sacrificial anodes have been installed. These are ground directly to the roof and not connected to a control/test box.

The New CP system was last inspected on 6/22/2016 (#27) by Corrpro. Potentials shown in 2016 were very close to the potentials found by this inspector using a remote Copper Copper Sulfate reference cell.

The overflow exits through the floor as does the drain.

The exterior target is properly indicating water level (#31). The tank had 26' at the time of inspection.

The tank has a concrete retaining ring. No significant defects were sighted. This tank does not have anchor bolts.

49-80) The exterior roof coating is in good condition. No notable defects were sighted.

There are two vent hoods (#49). Both appear securely attached.

A new sacrificial anode Cathodic Protection System has been added. Hand hole covers (#57) are in good condition. Rust was seen on the coating where the covers were removed (#59-62). The coating attached to the cover gasket (#63). Grommets were added at the end of the inspection (#61-64).

The roof access hatch (#79) was found properly locked. For the purposes of this report, the hatch will be referred to as being on the West side.

This tank has both handrail and safety cables. These appear to be in good condition.

81-92) The above water portion of the interior access ladder is secure and the coating is in good condition.

Close examination of photographs (#85-88,89-92) shows rust on the inside faces of the two knuckle braces on either side of the internal access ladder.

93-100) The above water portion of the overflow pipe appears securely attached and in overall good condition. The shroud cover appears stable and is bolted in place. There is a very slight line of rust along the shroud edge (#97).

101-104) The float is properly connected to the traveling wire as well as the two guide wires. Both guide wires are connected at the roof and the floor. The float appears to move properly with a change in elevation.

105-132) There are three plate courses plus a knuckle course. The top 5' are above water. The above water walls are in good condition.

Beam ends are bolted to welded knuckle braces. All beams appear properly coated, upright and securely attached. As previously mentioned, light rust staining is seen on two of the knuckle braces by the internal access ladder.

There are two fasteners per beam. Fasteners are in good condition.

Anodes are attached directly to the roof underside. Appearances are that the covers were leaking (#125-128). Grommets were added to provide a better seal.

133-192) The roof underside coating is in good condition. No notable defects were sighted.

All wiring for the Impressed Current Cathodic Protection System appears to be intact. No loose or fallen strings were identified. These were not pull tested. All anode wires are connected to the roof (#139).

All beams appear upright and securely attached. No gross bending or twisting was sighted.

The columns appear upright and stable. No indications of movement were observed. The above water column coating is in good condition.

193-202) The below water portion of the internal access ladder appears securely attached and in good condition.

203-204) The guide wires are securely attached and in good condition. Sediment seen here is considered typical.

205-252) The floor coating is in good overall condition. There are an estimated 10 very small rust tubercles scattered over the surface (#207-214 / the yellow ruler shown in all photographs in this report is 6" long by 1" wide). Pitting was less than 1/16" deep in all cases.

Sediment is null and barely covers the floor. No measurable deposits were found. No foreign debris from vandalism was sighted.

This tank has sacrificial anodes. The anodes ground directly to the roof. There is no header cable or test box.

As the anodes decay, slough piles develop below. The slough piles are very slight (#237,241-244).

253-256) The drain exits through the floor. The opening is clear.

257-268) The inlet and outlet pipes have shroud covers. Both of te shrouds have a good coating. Close examination of photographs (#259-268) show that one shroud has lifted off the floor. Corrosion is not noted here at this time.

269-284) The overflow pipe is internal and exits through the floor. The pipe coating is in good condition. No notable defects were sighted. Some rust is noted at the contact line of the pipe to brace (#277).

Wall braces also appear to be in good condition. No corrosion was sighted.

285-290) There are two round manways and a clean-out door. All three are gasket covered and not inspectible. No trapped water pockets are seen.

291-294) There is one wash-down valve. Rust is noted at all bolts.

295-352) There are three plate courses plus a knuckle course. The top 5' feet was above water and has been previously described as being in good condition with two exceptions.

The below water coating is in good condition. Patches are found scattered over the surface. Rust points at patch sites are rare (#295). An estimated fifteen small rust points are seen scattered over the surface (#307,313,327).

353-378) The below water portion of the column pole coating is in good condition. Rust tubercles are rare and small where found (#355). No notable defects were sighted.

The bases appear stable and the coating is in good condition.

379-392) This tank has sacrificial anodes. In all cases, decomposition is very slight and all anodes are in near new condition.

For reference, several of the anodes show no sign of decay (#387).

# DIVE / CORR, INC.

## SUMMARY
## LAS ALAMITAS

| | | |
|---|---|---|
| EXTERIOR WALLS | - | Good |
| EXTERIOR ROOF | - | Good |
| VENT | - | Securely attached. |
| Screening | - | Good |
| HATCH | - | Securely locked - West side. |
| Handrail | - | Good |
| Safety Cables | - | Two |
| INTERIOR ROOF | - | Good - two patches of light colored rust staining are seen on the inside faces of the two knuckle braces by the internal access ladder. |
| ABOVE WALLS | - | Top 5' - good |
| BELOW WALLS | - | An estimated 15 very small rust points were scattered over the surface. Pitting was less than 1/16" deep in all cases. |
| FLOOR | - | An estimated 10 very small rust points were scattered over the surface. Pitting was less than 1/16" deep in all cases. |
| SEDIMENT | - | Most of the floor is either bare or near bare. No measurable deposits. No foreign debris from vandalism was found. |
| Vandal Guard | - | Securely locked |
| LADDER - Int | - | Securely attached - good condition |
| SAFETY RAIL | - | None |

# DIVE / CORR, INC.

| | | |
|---|---|---|
| FLOAT | - | Good |
| Target | - | Indicator properly riding on the target board at this elevation. |
| Guide Wires | - | Good |
| OVERFLOW | - | Interior pipe - good |
| MANWAY #1 | - | Plate is gasket covered |
| MANWAY #2 | - | Plate is gasket covered |
| CLEAN-OUT DOOR | | Plate is gasket covered |
| DRAIN | - | Clear - exits through the floor. |
| COLUMNS | - | Good |
| INLET | - | Clear - good coating condition. |
| Flex Couple | - | Yes |
| OUTLET | - | Shroud coating is in good condition - front legs have lifted off the floor. No rust is seen at these sites. |
| Flex Couple | - | No |
| TELEMETRY PIPE | - | None |

CATHODIC SYST

| | |
|---|---|
| Hand Hole Covers | Yes - good condition |
| Grommets | Yes - added at the end of the inspection |
| Anodes | Near new condition |

Potentials taken by this inspector using a portable copper copper sulfate reference cell.

TOP -1.278 mVolts
MID -1.282 mVolts
BOT -1.305 mVolts

# DIVE / CORR, INC.

## RECOMMENDATIONS

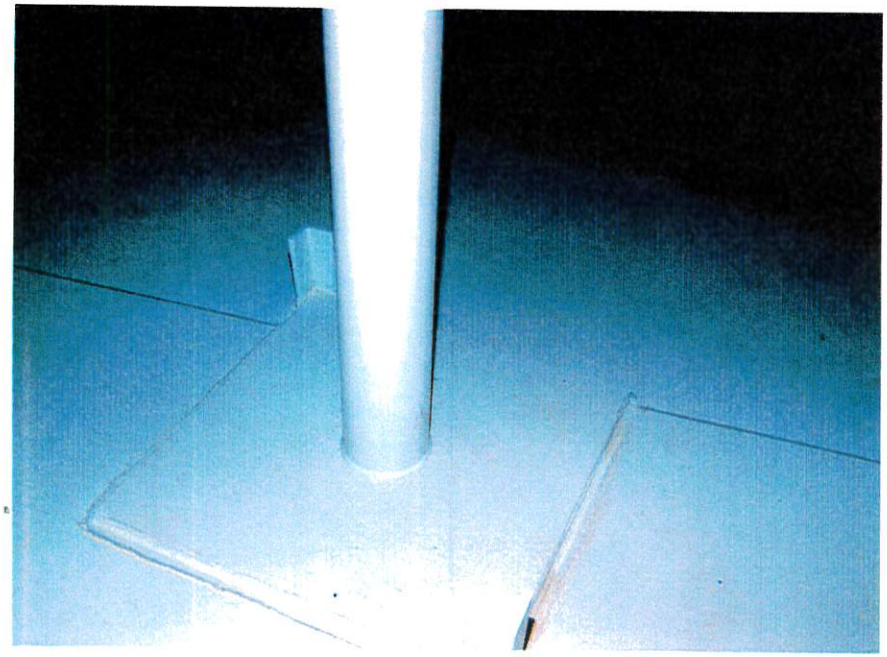
1) Externally, the tank coating is in good condition and no action is recommended.

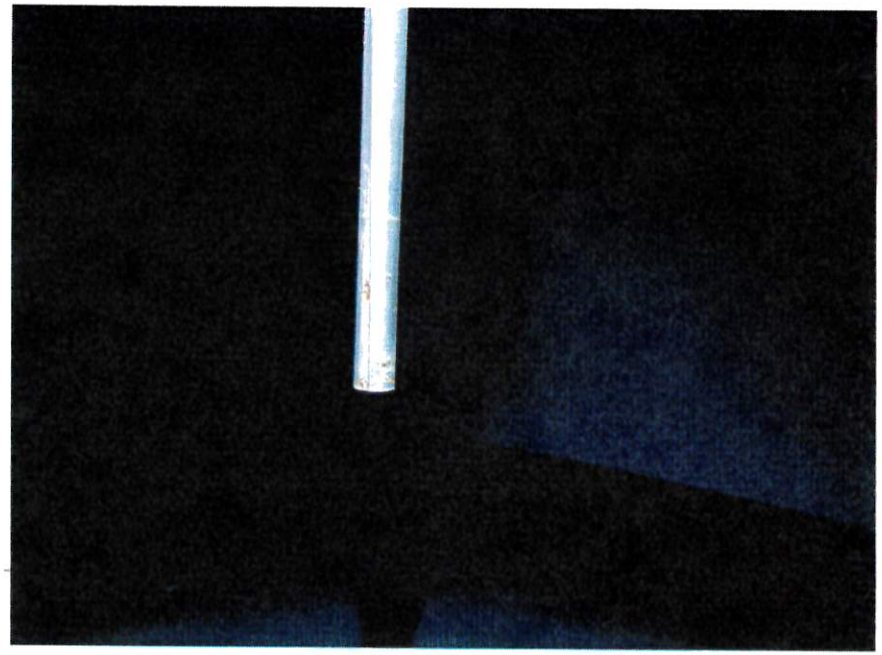
2) Internally, the coating is also in good condition. The only area of above water corrosion found was on two knuckle braces by the internal access ladder.

   Underwater corrosion is rare and rust tubercles are small where found. Pitting was less than 1/16" deep in all cases. This is referred to engineering for review.

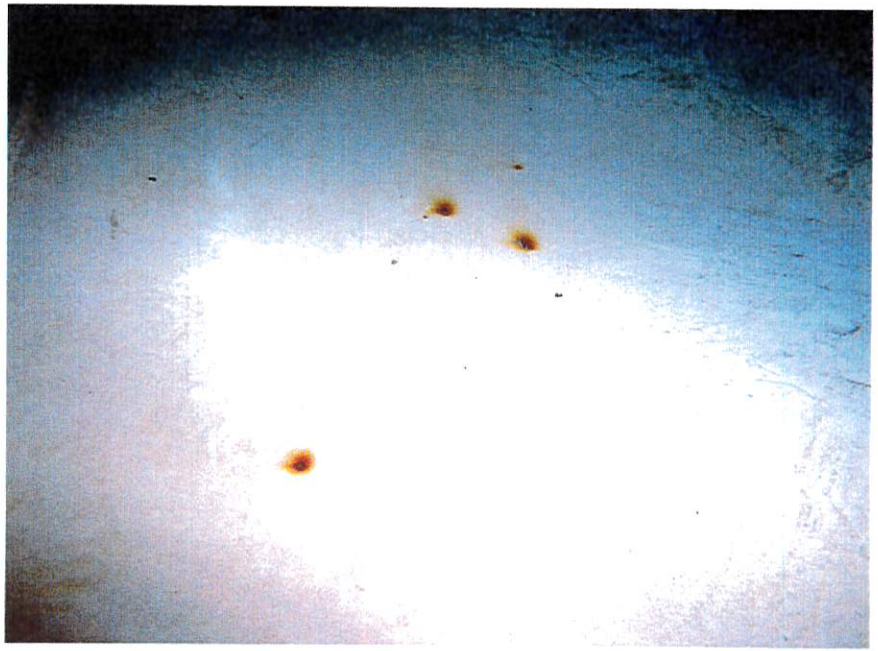
3) Re-inspect in three years.

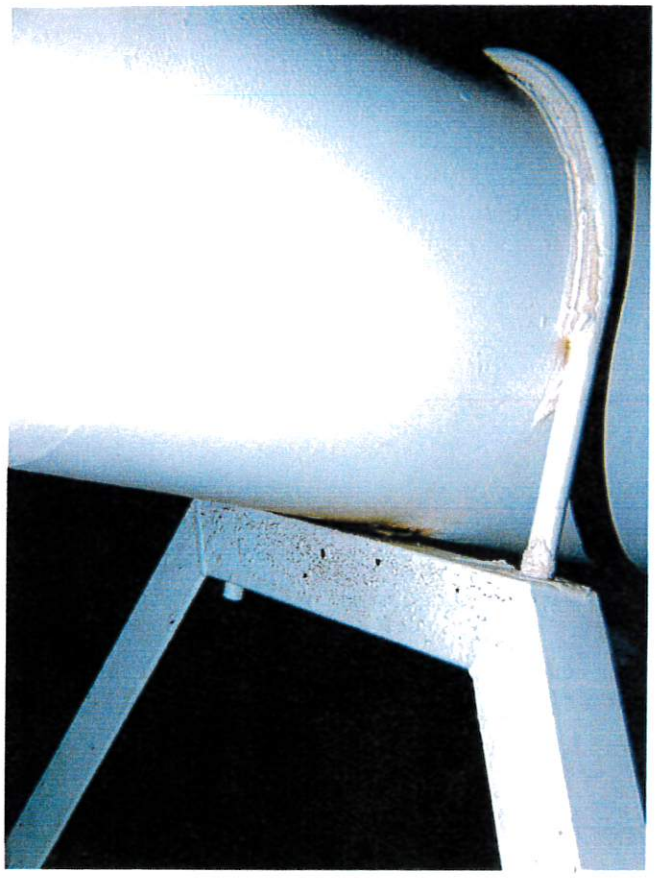
4) Take potentials annually.

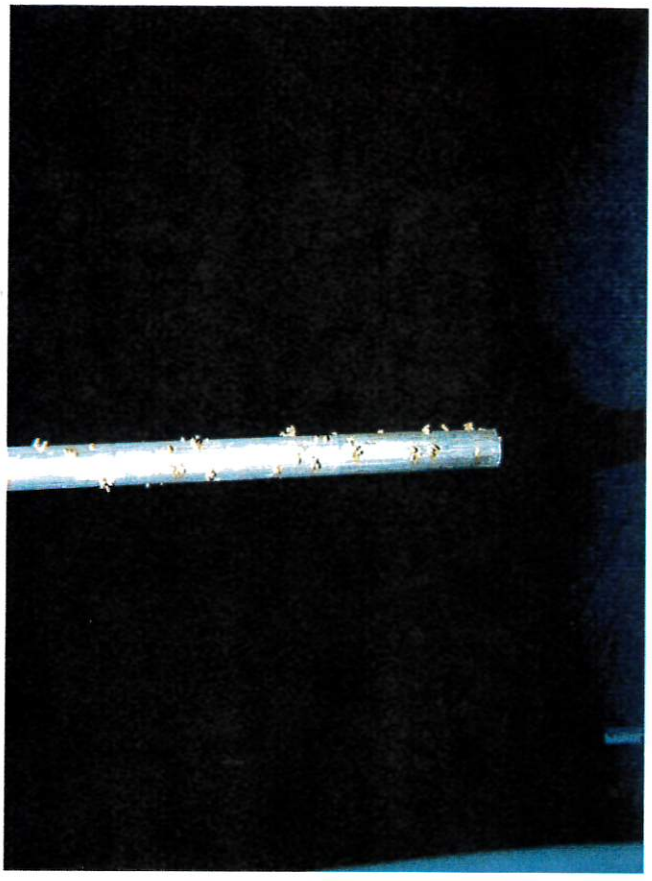


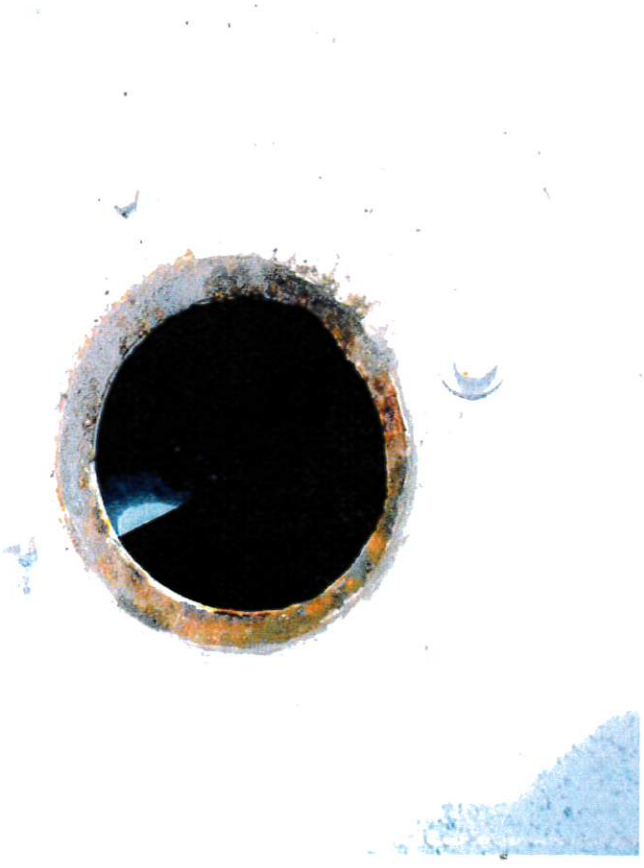


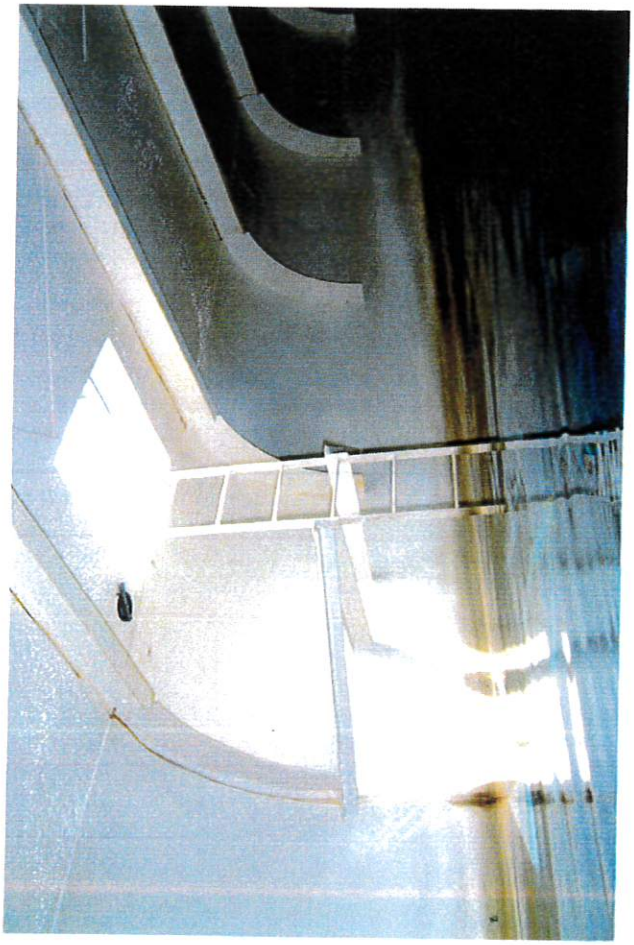

DIVE/CORR, Inc
INDUSTRIAL INSPECTION SERVICES
PO BOX 30427 562-439-8287
LONG BEACH, CA 90853

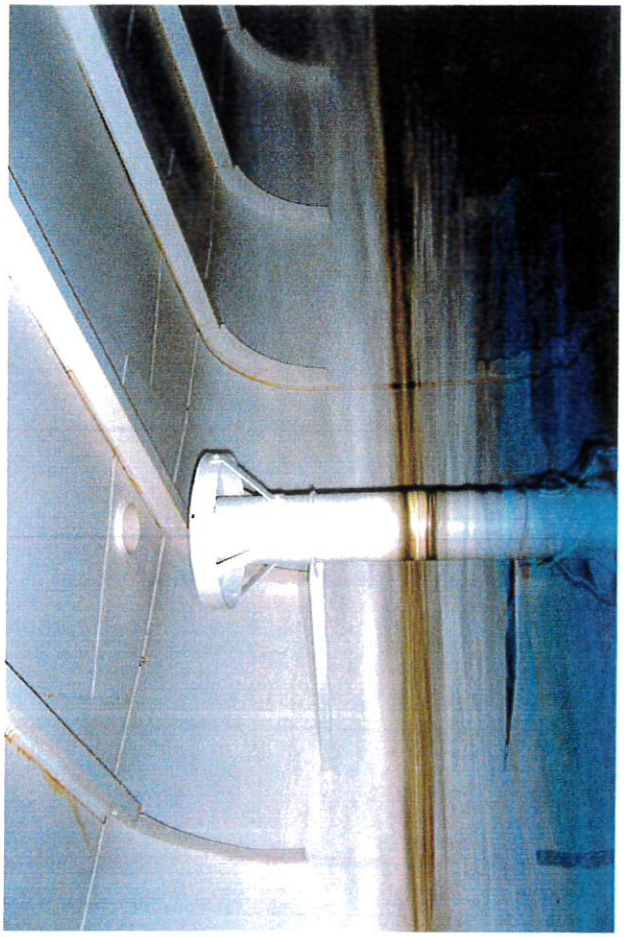


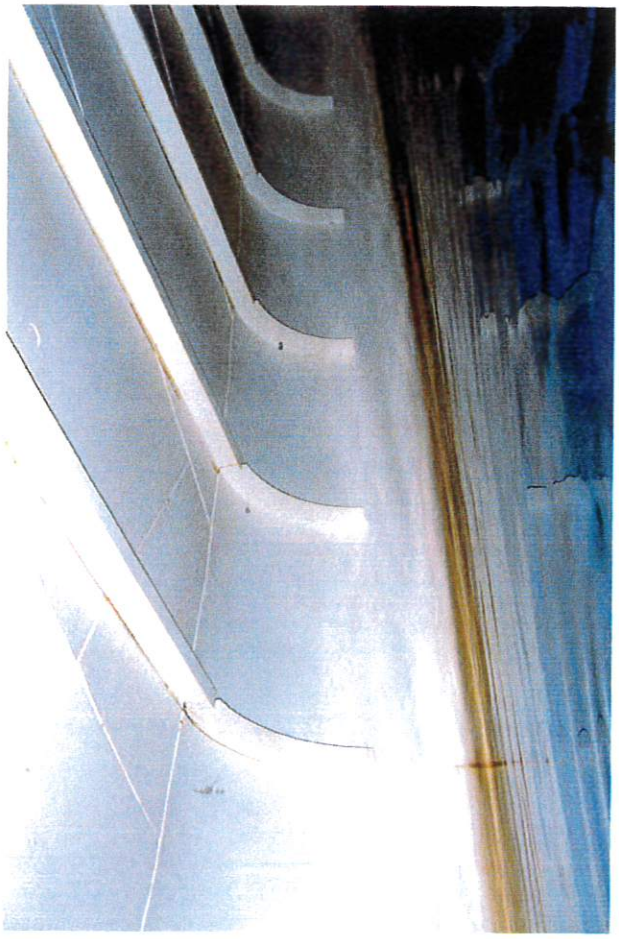


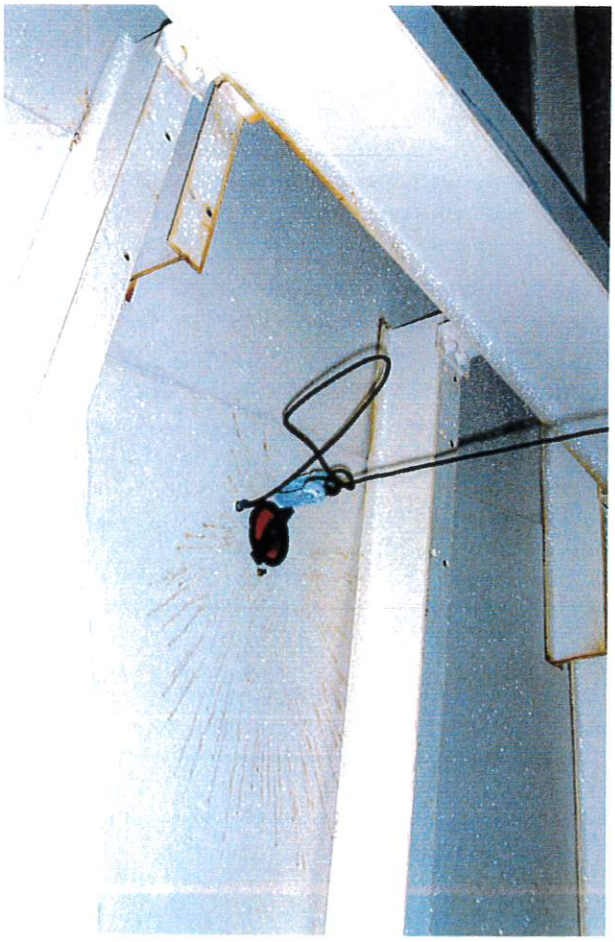


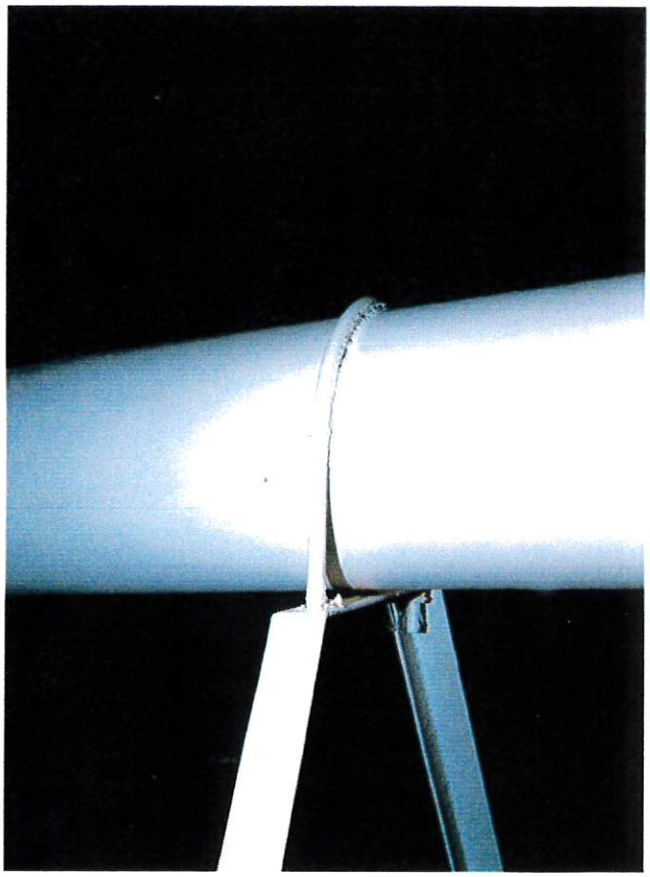


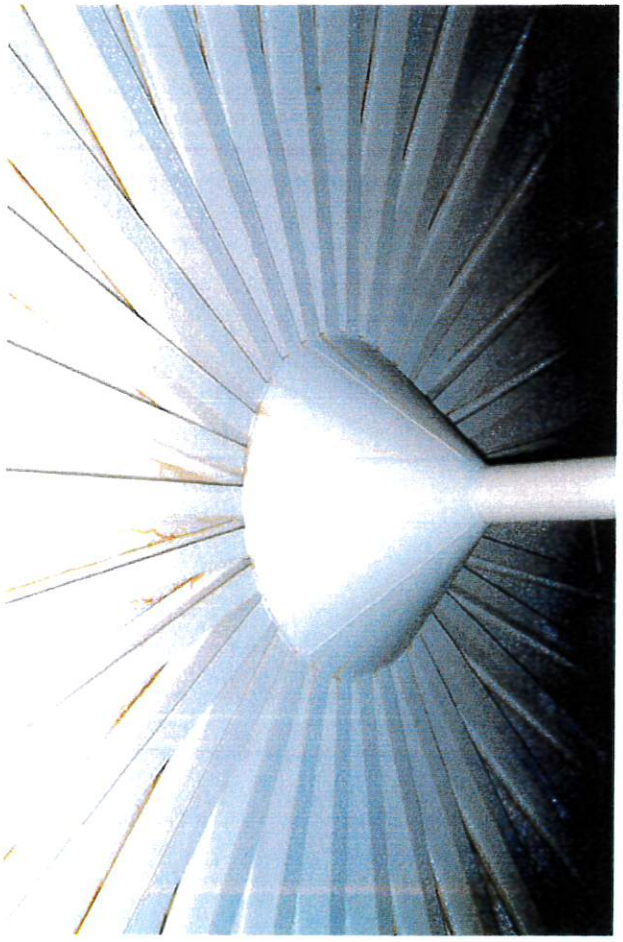


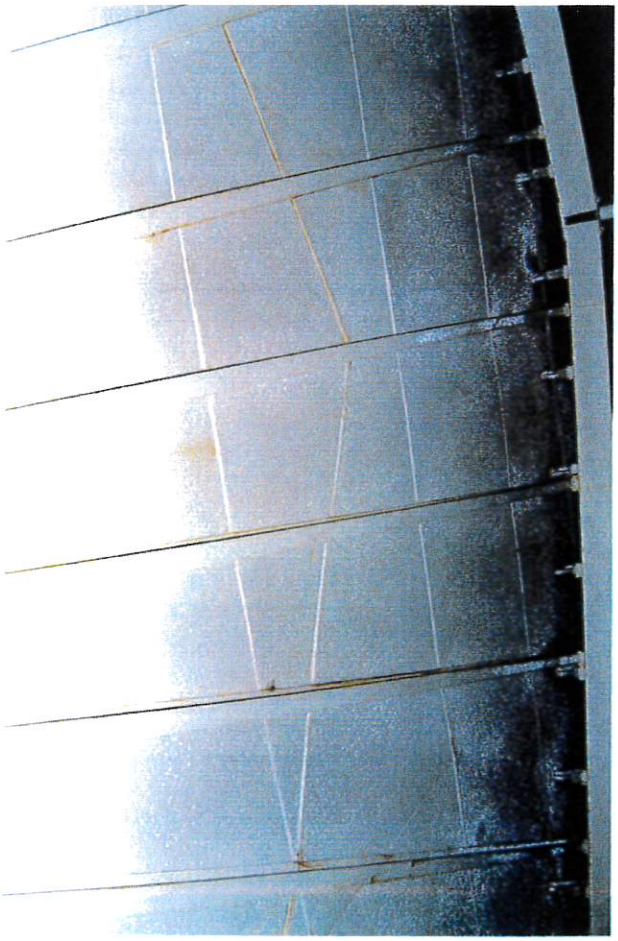


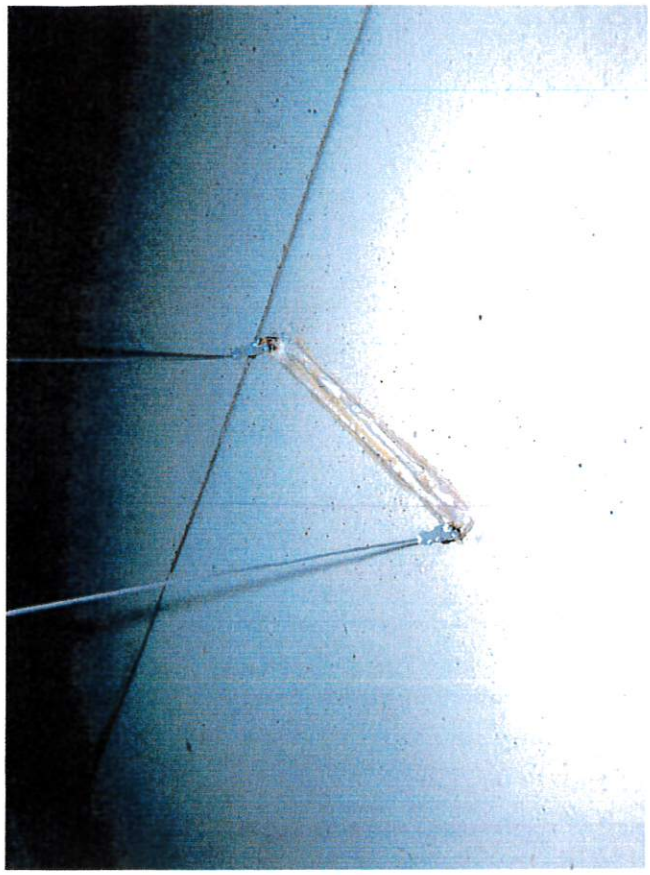


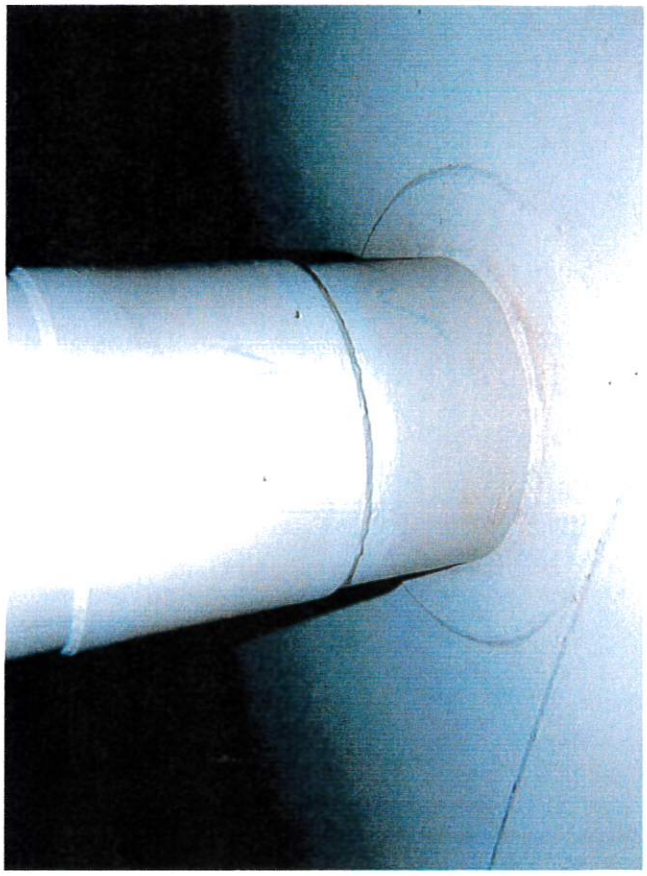


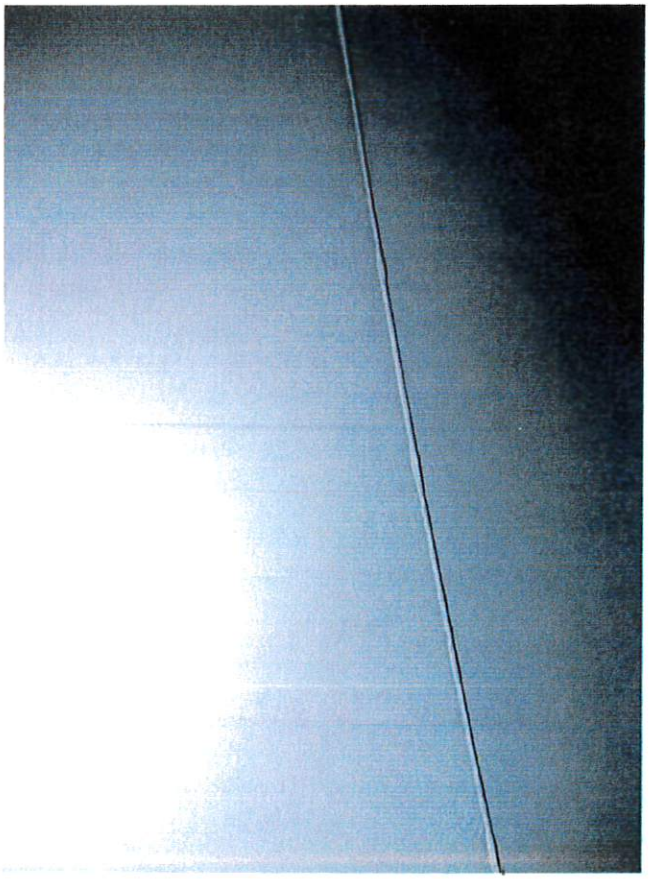












# DIVE / CORR, INC.

**Industrial Photography & Inspection Services**

P. O. BOX 30427 • LONG BEACH, CA 90853 • OFFICE (562) 439-8287 • FAX (562) 438-7151


## TANK INSPECTION REPORT

| | |
|---|---|
| AGENCY La Puente CWD | DATE INSPECTED 8/03/17 |
| SUPERVISOR Mr. Greg Galindo | TANK NAME East |
| SIZE 2.50 MG | HATCH West |
| INSPECTOR Dan Gross | DATE BUILT 1978 |
| LADDER Yes/Int-Yes/Ext | TENDER F Echandi |
| BRIEF General Survey | CP Yes/Sac |
| | LAST INSPECTED NA |

## CITY OF INDUSTRY
## EAST TANK

THE FOLLOWING PHOTOGRAPHS CORRESPOND TO NUMBERS VIEWED AT THE BOTTOM OF THE ALBUM PAGES WHEN THE ALBUM IS VIEWED IN CENTERFOLD MODE:

13-14) City of Industry - East Tank. This is an above ground welded steel reservoir, four plate courses plus a knuckle course tall. The lowest course is referred to as course #1.

There are two tanks on this site. The East Reservoir is the tank with the access stairway and is closest to the site access gate.

15-16) The tank nameplate is above the round manway shown in photograph (#17).

| | | |
|---|---|---|
| FABRICATOR | - | AMERICAN BRIDGE |
| CONTRACT # | - | K9310 |
| YEAR BUILT | - | 1978 |
| HEIGHT | - | 36'5" |
| WIDTH | - | 110' |
| SIZE | - | 2.5 MG |

17-44) The exterior wall coating is in good condition. Rust along the edge of the floor plate extension (#27) is considered rare.

This tank has two round manways (#17,29). A transfer pipe (#41) is present. There are flexible couples.

The overflow exits through course #1 (#43). The end has a duckbill.

The exterior target is properly indicating water level (#21). The tank had 32' at the time of inspection.

There is one stairway (#37) and a walkway that connects the two tanks.

The tank has a concrete retaining ring. No significant defects were sighted. This tank does not have anchor bolts.

45-82) The exterior roof coating is in good condition. No notable defects were sighted.

The vent hood (#49-56) is secure. Rust is evident on the screen.

A sacrificial anode Cathodic Protection System has been added. Hand hole covers are in good condition. Grommets were added at the end of the inspection.

The roof access hatch (#77) was found properly locked. For the purposes of this report, the hatch will be referred to as being on the West side.

This tank has both handrail and safety cables. These appear to be in good condition.

83-90) The above water portion of the interior access ladder and telemetry pipe is secure and the coating is in good condition.

91-94) The above water portion of the overflow funnel appears securely attached and in overall good condition. The adjacent shell and roof coating are in good condition.

95-98) The float is properly connected to the two guide wires as well as the traveling wire. The pan appears to move properly with a change in elevation.

99-128) There are four plate courses plus a knuckle course. The top 5' are above water. The above water walls are in good condition. No notable defects were sighted.

Beam ends are bolted to welded knuckle braces. All beams appear properly coated, upright and securely attached.

There are two fasteners per beam. Fasteners are in good condition.

129-190) The roof underside coating is in good condition. No notable defects were sighted. Patches are in good condition (#167,173).

All wiring for the Impressed Current Cathodic Protection System appears to be intact. No loose or fallen strings were identified. These were not pull tested. All anode wires are connected to the roof (#129).

All beams appear upright and securely attached. No gross bending or twisting was sighted.

The columns appear upright and stable. No indications of movement were observed. The above water column coating is in good condition.

191-202) The below water portion of the internal access ladder appears securely attached and in good condition.

Close examination of photographs (#197-202) that the at this water elevation, the two ladder base clips have detached from the floor. The gap is estimated at 1/4".

The ladder has a safety climb rail. This also appears securely attached and in good condition.

203-204) The guide wires are securely attached and in good condition. Sediment seen here is considered typical and barely covers the floor.

205-216) A telemetry pipe is adjacent to the internal access ladder. The coating is in good condition. Of note is that there are two slots cut into the base (#207).

Small coating blisters are seen in very sparse numbers along the cut-out edge (#209) on both sides. Half of the blister caps are broken. Rust is not associated with this condition.

A transducer is not evident internally.

217-218) The drain exits through the floor. The opening is clear.

219-252) The floor coating is in good overall condition. Many patches are seen. Patches are in good condition.

Sediment is null and barely covers the floor. No measurable deposits were found. No foreign debris from vandalism was sighted.

This tank has sacrificial anodes. The anodes ground directly to the roof. There is no header cable or test box.

As the anodes decay, slough piles develop below (#237). The slough pile depths vary from moderate (#237) to very slight (#239).

253-256) The inlet/outlet is common and enters though course #1. The coating is in good condition. The adjacent shell coating is typical and in good condition.

257-272) The overflow pipe is internal and exits through course #1. The pipe coating is in good condition. No notable defects were sighted.

Wall braces also appear to be in good condition. No corrosion was sighted.

273-284) There are two round manways. The plates in both cases are in good condition. Patches are in good condition (#279).

Corrosion at support hardware is minimal (#275-278).

285-318) There are four plate courses plus a knuckle course. The top 5' feet was above water and has been previously described as being in good condition.

The below water coating is in good condition. Patches are found scattered over the surface. These appear to be in good condition. No notable corrosion was seen.

319-342) The below water portion of the column pole coating is in good condition. No notable defects were sighted.

The bases appear stable and the coating is in good condition.

343-354) This tank has sacrificial anodes. In all cases, decomposition is very slight and all anodes are in near new condition.

For reference, several of the anodes show no sign of decay (#345,353).

# DIVE / CORR, INC.

## SUMMARY
## EAST TANK

| | | |
|---|---|---|
| EXTERIOR WALLS | - | Good |
| EXTERIOR ROOF | - | Good |
| VENT | - | Securely attached. |
| Screening | - | Rusting |
| HATCH | - | Securely locked - West side. |
| Handrail | - | Good |
| Safety Cables | - | Two |
| INTERIOR ROOF | - | Good |
| ABOVE WALLS | - | Top 5' - good |
| BELOW WALLS | - | Good |
| FLOOR | - | Good |
| SEDIMENT | - | Most of the floor is either bare or near bare. No measurable deposits. No foreign debris from vandalism was found. |
| STAIRS - Ext | - | Good |
| Vandal Guard | - | Securely locked. |
| LADDER - Int | - | Securely attached - good condition |
| SAFETY RAIL | - | Good |
| FLOAT | - | Good |
| Target | - | Indicator properly riding on the target board at this elevation. |
| Guide Wires | - | Good |
| OVERFLOW | - | Interior pipe - good |
| MANWAY #1 | - | Good - some rust is seen on the support hardware. |

# DIVE / CORR, INC.

| | | |
|---|---|---|
| MANWAY #2 | - | Good |
| DRAIN | - | Clear - exits through the floor. |
| COLUMNS | - | Good |
| INLET | - | Clear - good coating condition. |
| Flex Couple | - | Yes |
| OUTLET | - | Same as the inlet. |
| TELEMETRY PIPE | - | Good - sparse number of coating blisters by the floor cut-out. No related corrosion. |
| CATHODIC SYST | | |
| Hand Hole Covers | | Yes - good condition |
| Grommets | | Yes - added at the end of the inspection |
| Anodes | | Near new condition |

Potentials taken by this inspector using a portable copper copper sulfate reference cell.

TOP -1.283 mVolts
MID -1.271 mVolts
BOT -1.336 mVolts

# DIVE / CORR, INC.

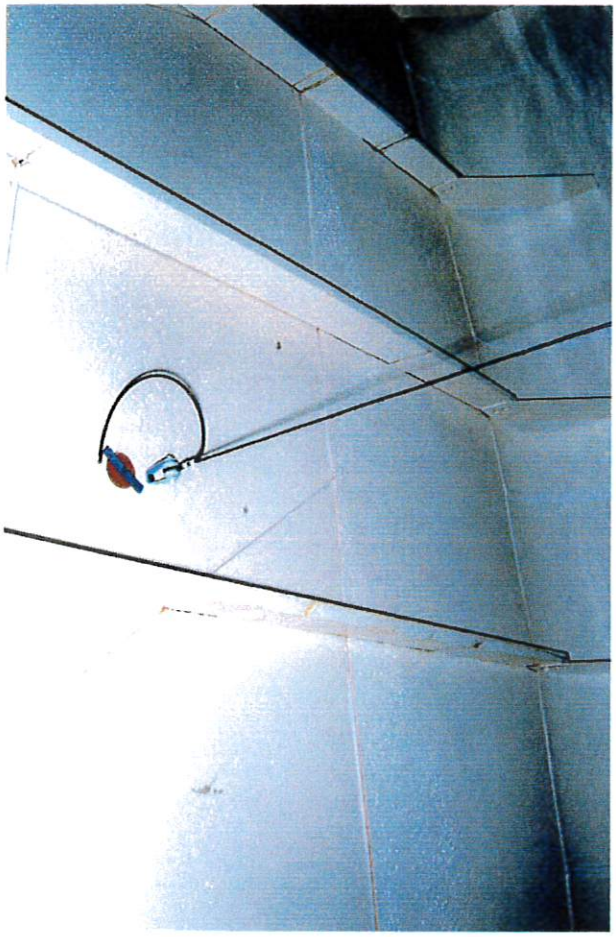
## RECOMMENDATIONS

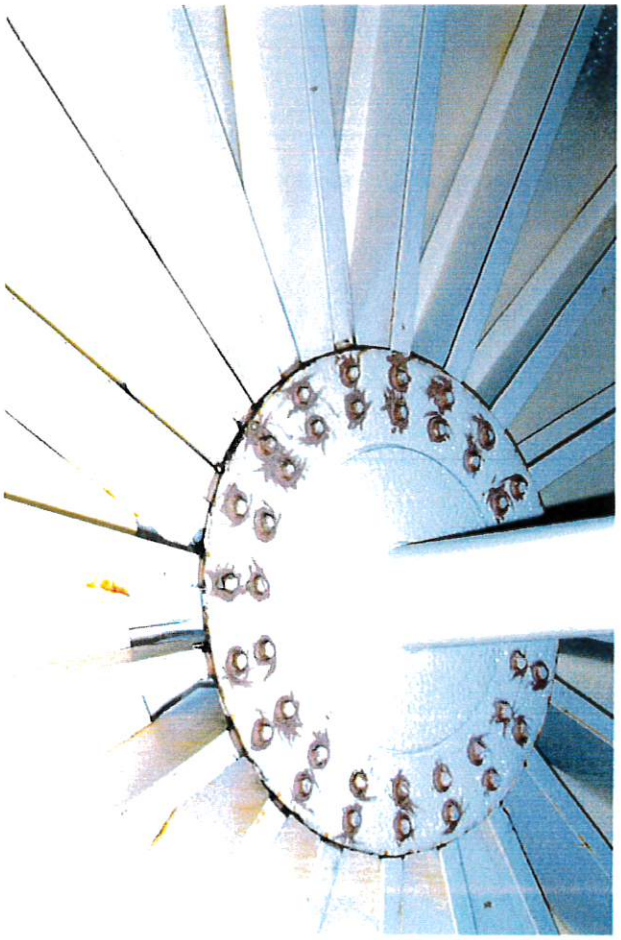
1) Externally, the tank coating is in good condition and no action is recommended.

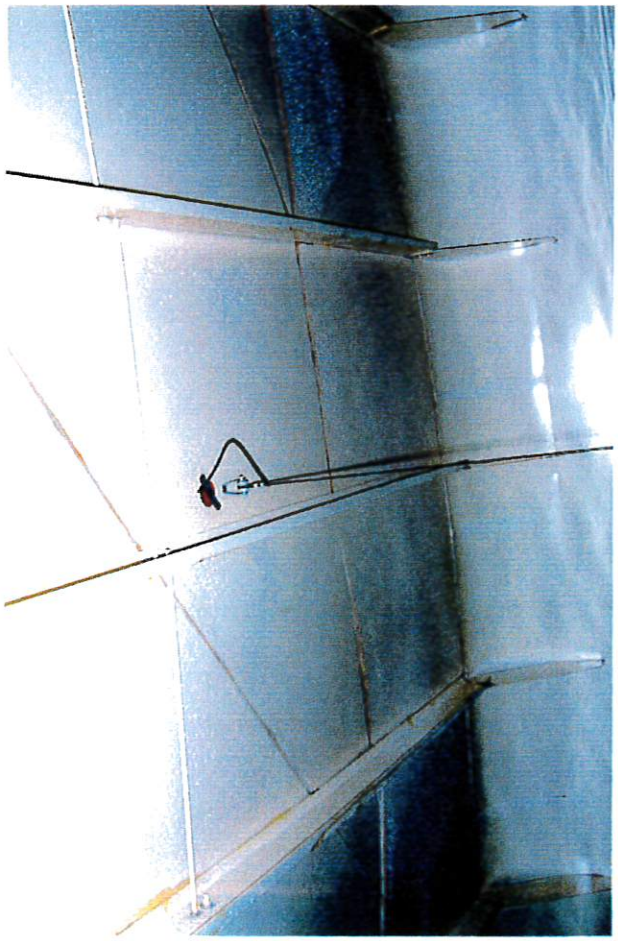
2) Internally, the coating is also in good condition. No corrosion issues are observed at this time.

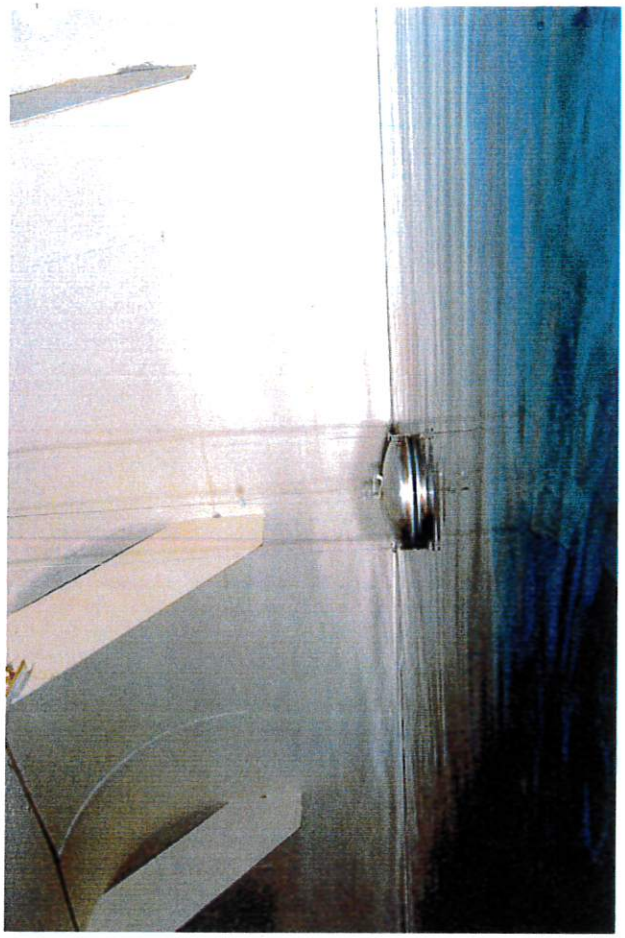
3) This tank has an internal telemetry pipe. There are two small openings at the base and water exchange appears poor. In addition, the sacrificial anodes cannot protect all of the interior surfaces. Consider removing this pipe at the next maintenance cycle.

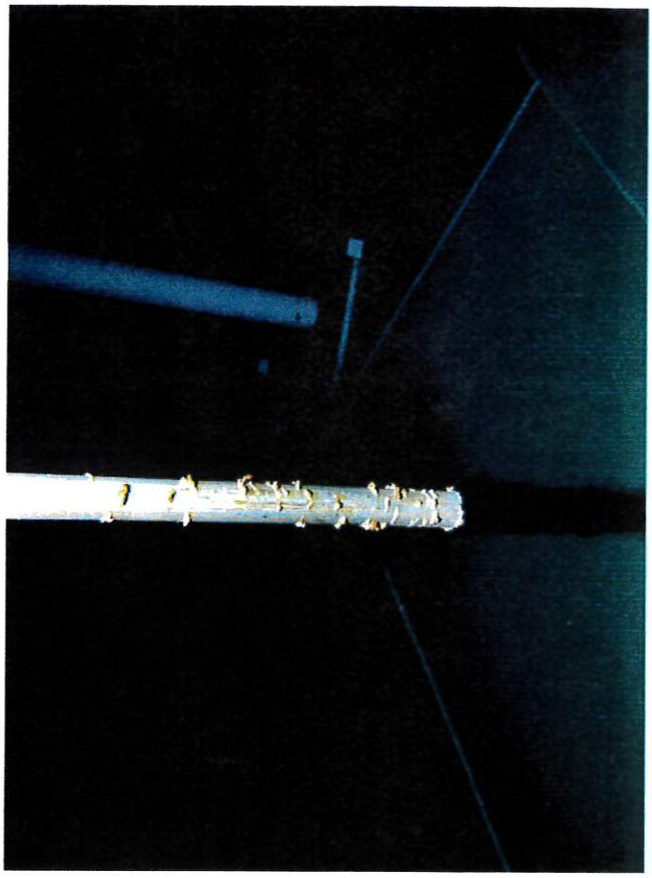
4) The roof vent screen is rusting. Anticipate that this will need changing in one year.

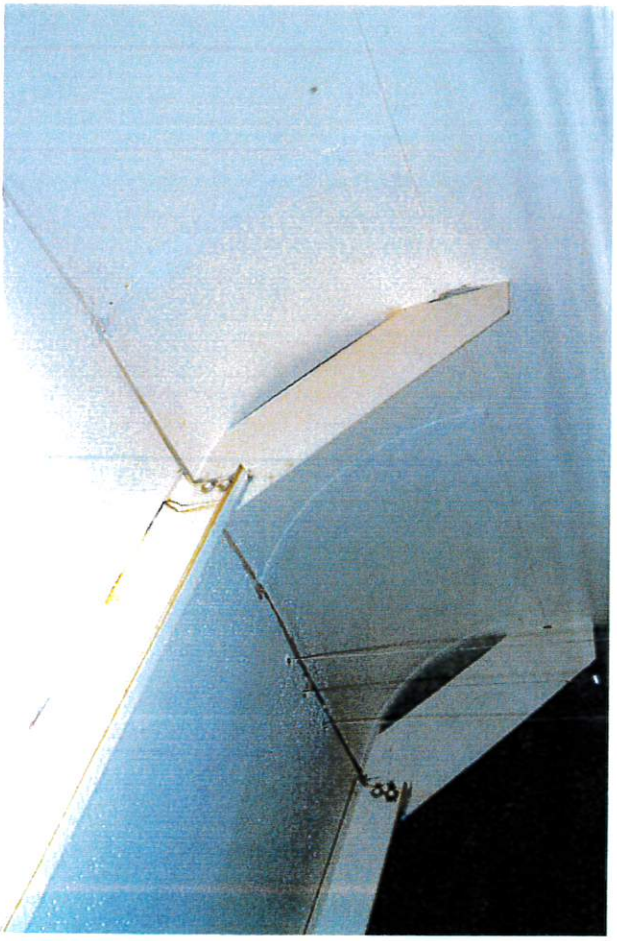


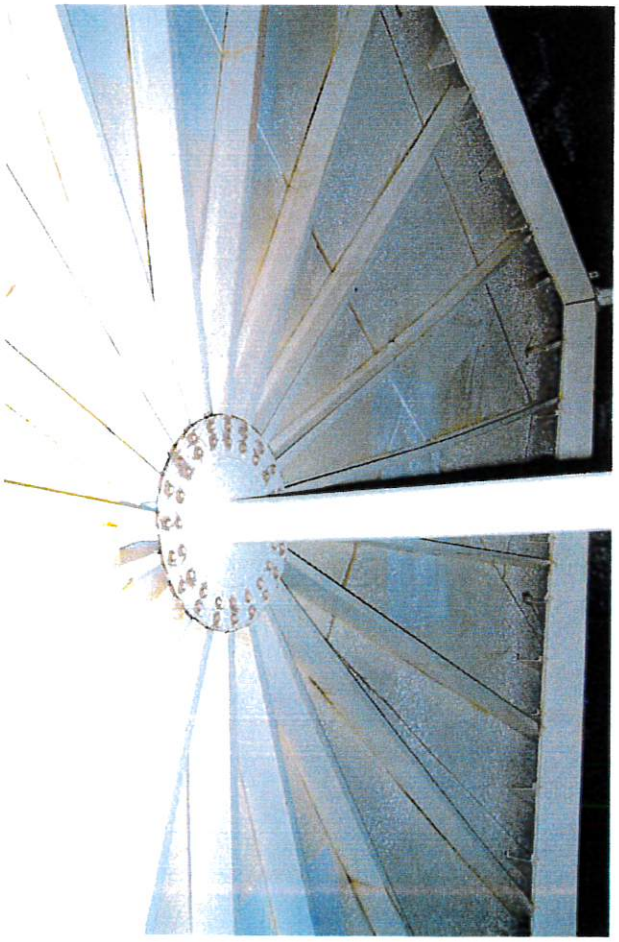


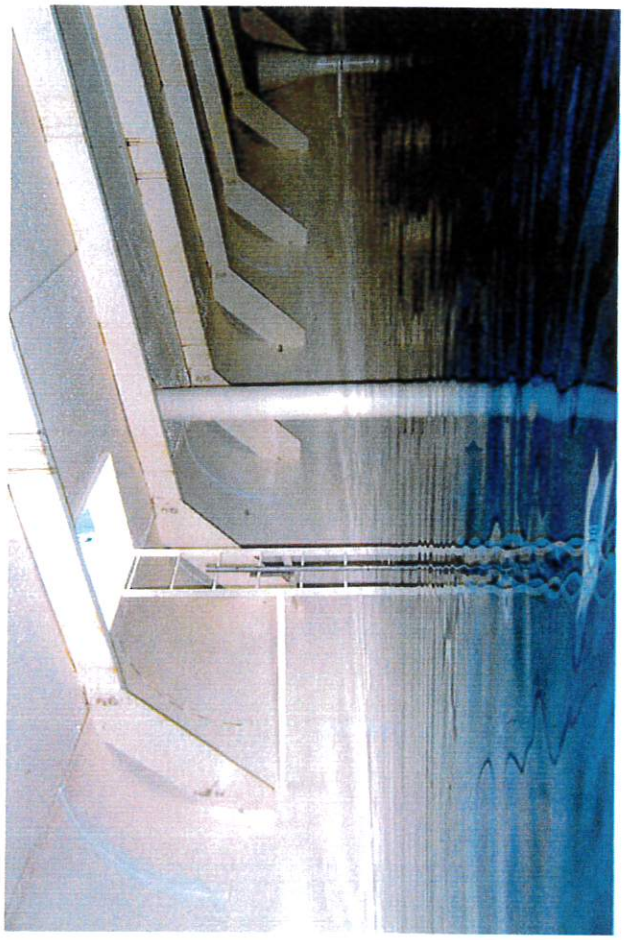


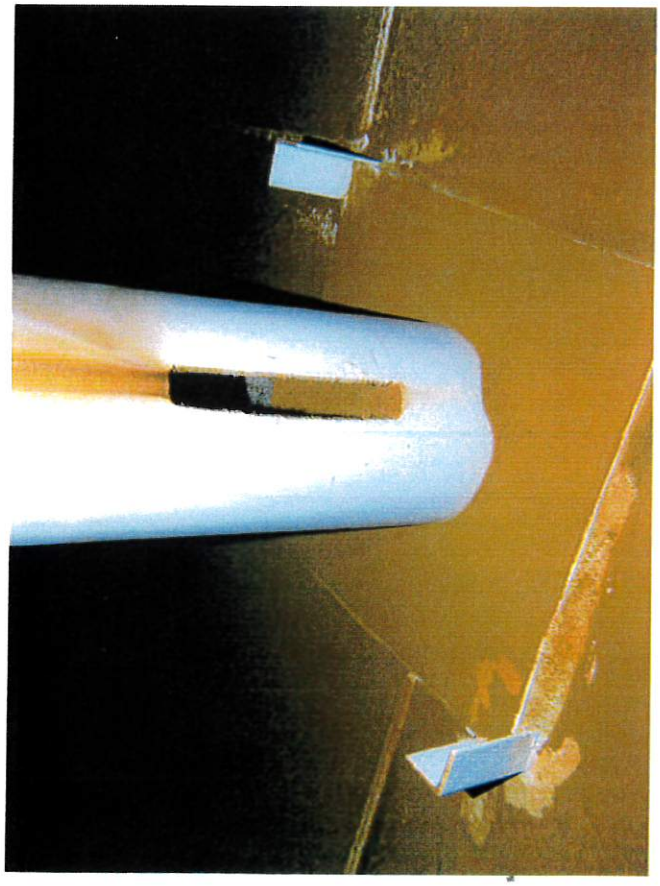


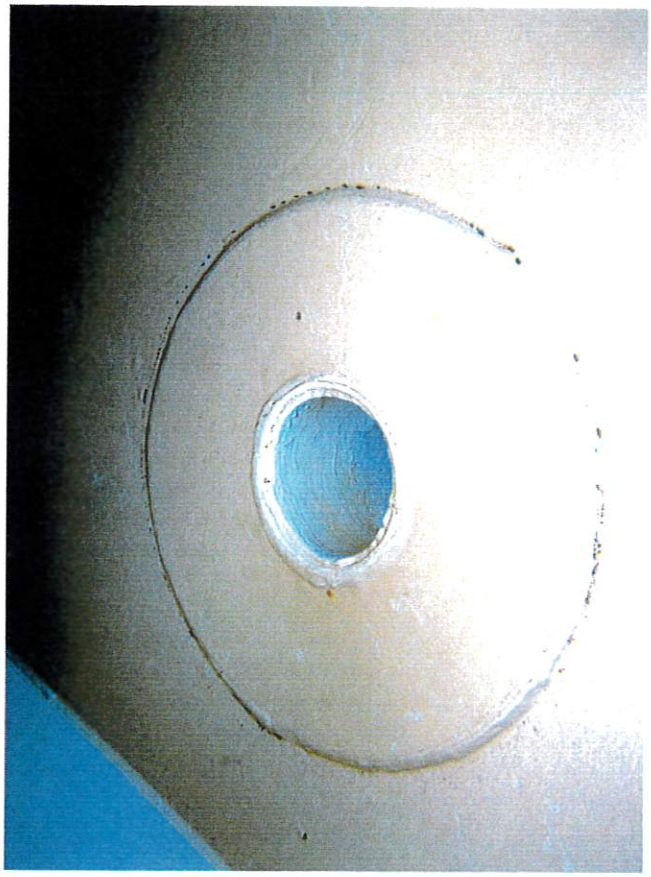


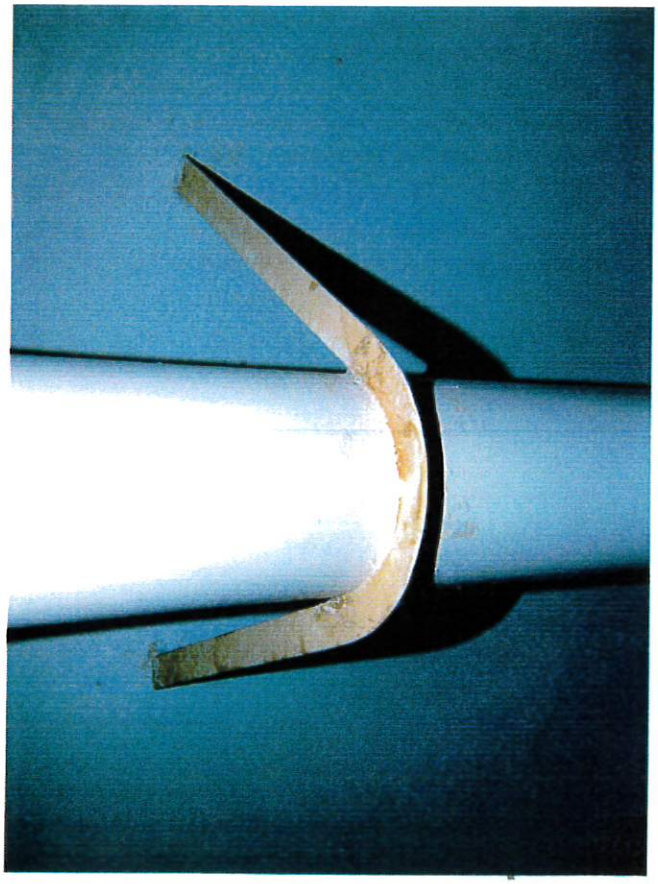


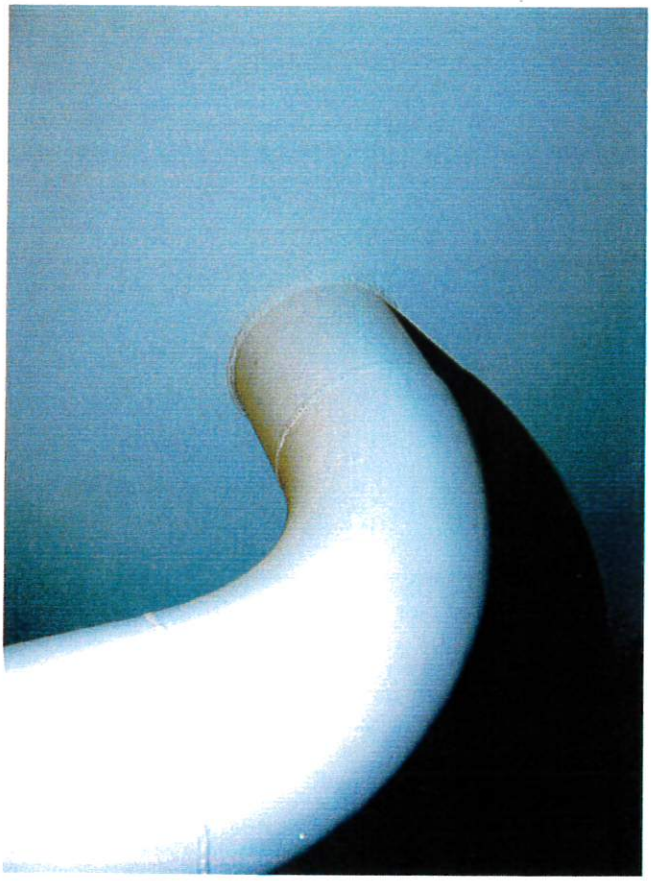


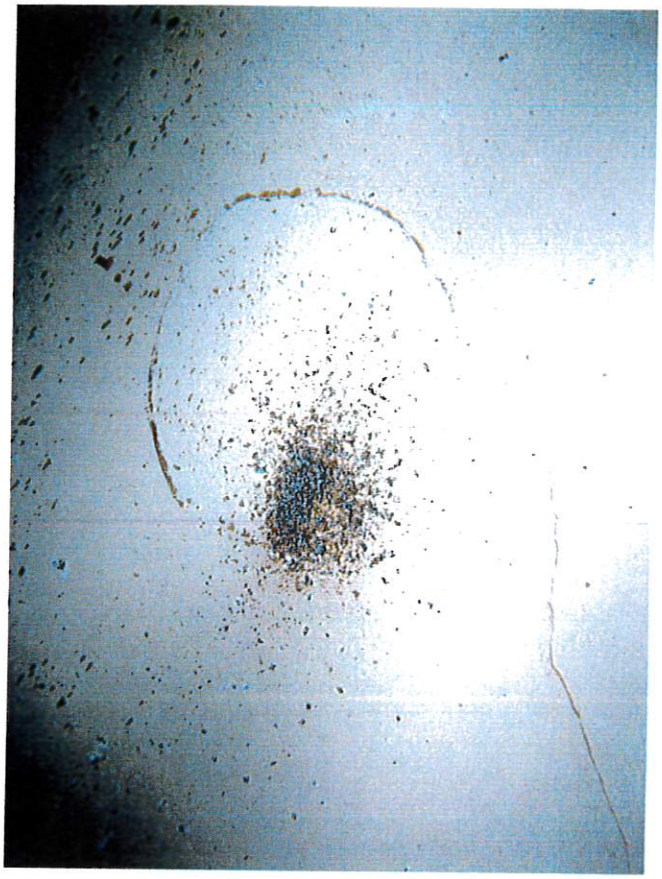


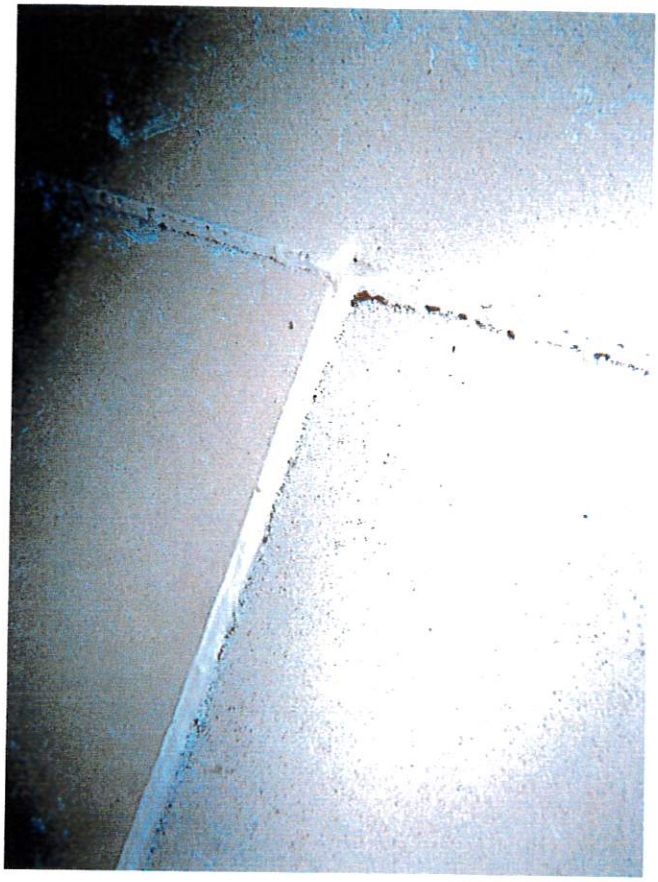


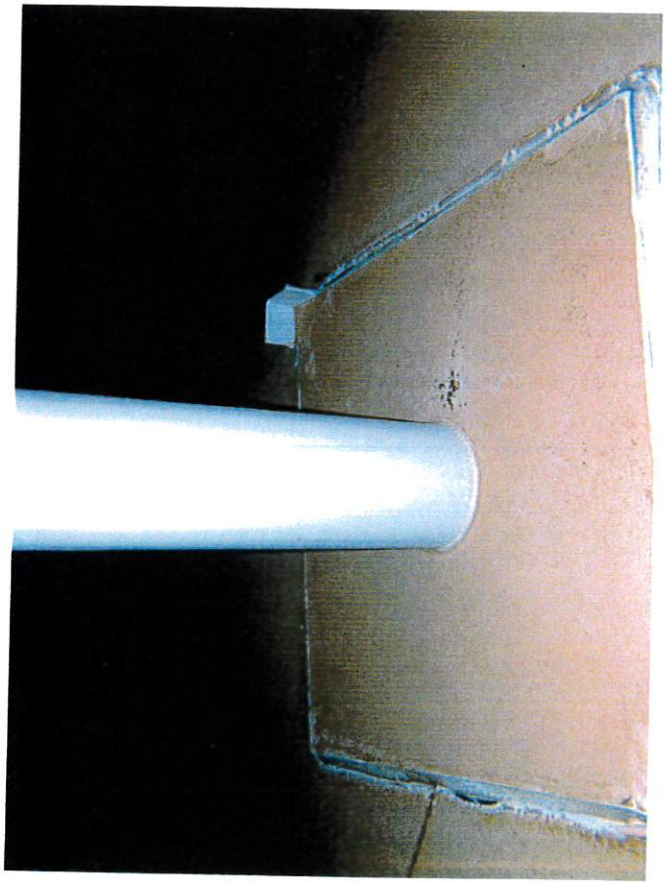


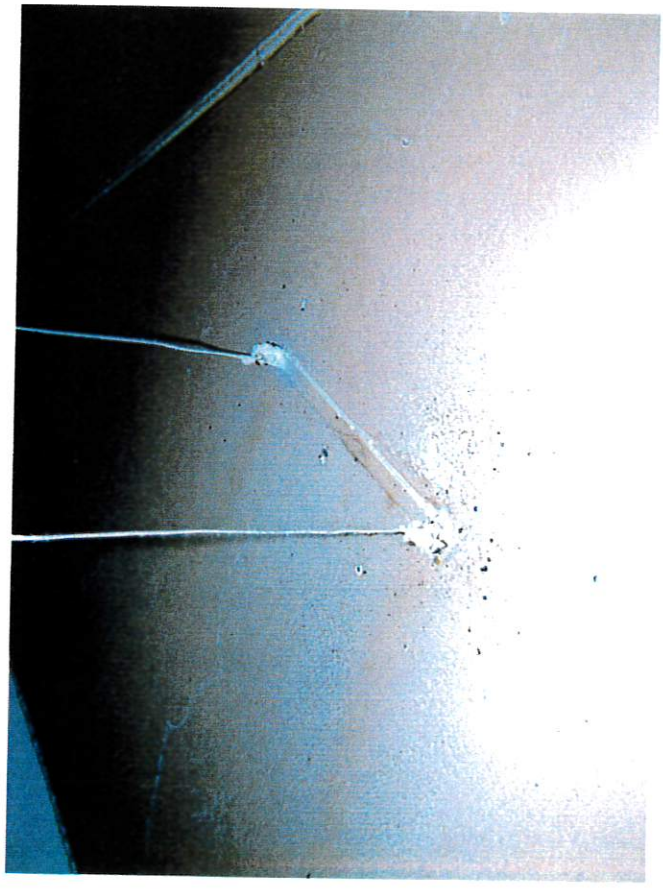


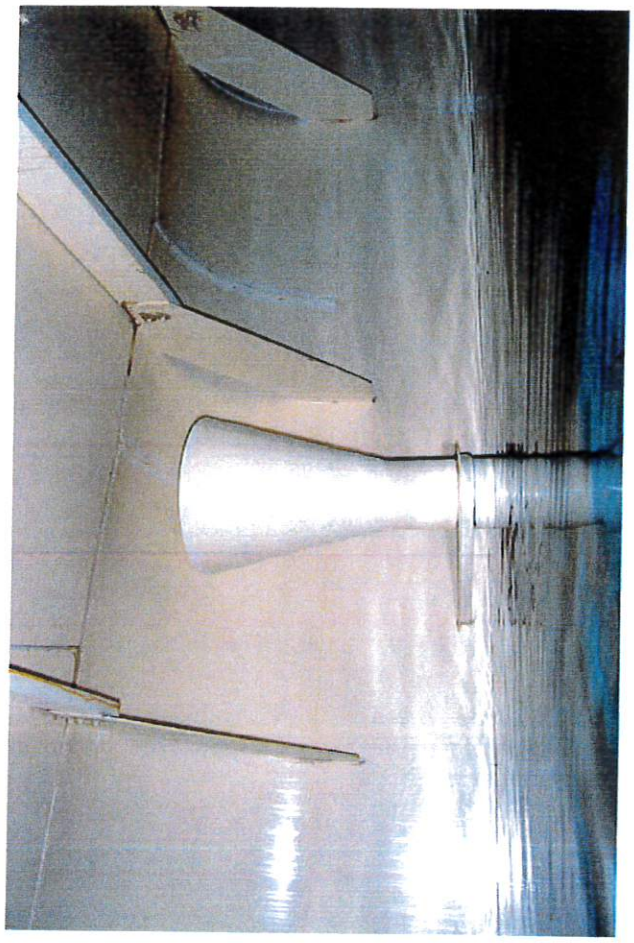


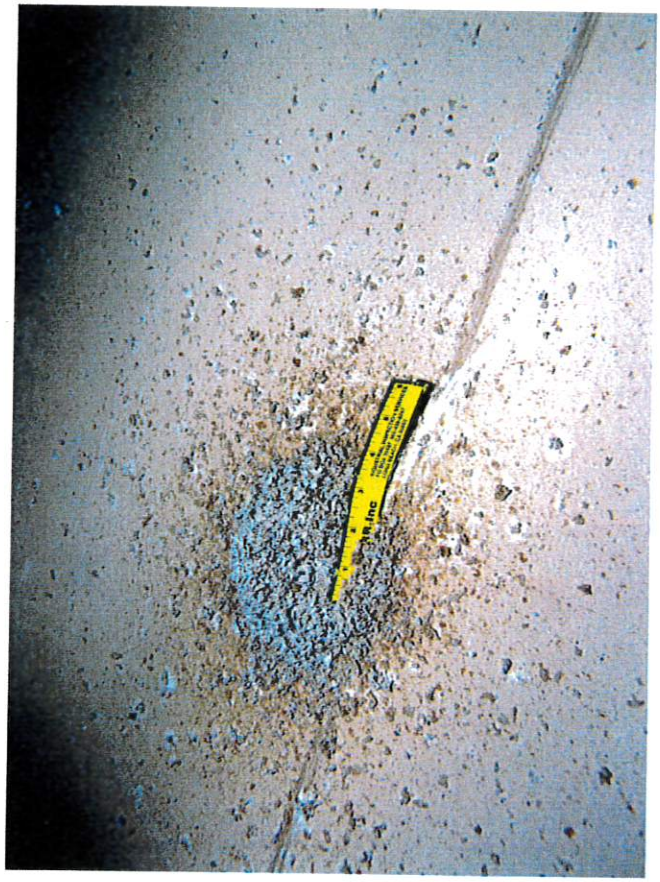












# APPENDIX D

## Reservoir Data Sheets

| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|

# Reservoir Data

*(Use For All Distribution Storage, Chlorine Contact Tanks, Etc)*

| | | | |
|---|---|---|---|
| **System Name:** | City of Industry Waterworks System | | |
| **System Number:** | 1910029 | | |
| Source of Information: | System Records | | |
| Collected By: | Roy Frausto | Date: | 10/15/2018 |
| **Reservoir Number Or Name:** | Lomitas | | |
| ***Location*** | Lomitas Ave. | | |
| Cross Streets: | Lomitas Ave. and S 4th Ave. | | |
| Neighborhood: | Residential/Equisterian | | |
| Size Of Lot: | N/A | | |
| Fencing: | Iron Fencing | | |
| ***Construction*** | | | |
| Date Constructed/Refurbished: | 1986 | | |
| Purpose (Storage, Chlorine Contact, Etc.): | Storage | | |
| Design Capacity (MG): | 2.5 | | |
| Operating Capacity (MG): | | | |
| Construction Type: | Steel | | |
| Shape: | Round | | |
| Construction Materials: | Steel | | |
| Sides: | Steel | | |
| Floor: | Steel | | |
| Cover Or Roof: | Steel | | |
| Interior Coating Type: | Epoxy | | |
| ***Dimensions*** | | | |
| Dimensions (H x L x W) Or (H & Diameter)(feet): | 29' Height x 120" Diameter | | |
| Tank Bottom Elevation (feet): | 393' | | |
| Height Of Tank (feet): | 29' | | |
| Surface Drainage To Reservoir Possible? | No | | |
| ***Ventilation*** | | | |
| Screened (Y/N): | Yes | | |
| Cathodic Protection: | Yes | | |
| ***Inlet Description*** | | | |
| Distance Above Bottom (feet): | 1/2' | | |
| Receives Water From: | San Gabriel Valley Water Company | | |
| ***Outlet Description*** | | | |
| Distance From Inlet (feet): | 120' | | |
| Distance Above Bottom (feet): | 1' | | |
| Delivers Water To: | Lomitas Pump Station | | |
| Pressure Zone Served: | CIWS Zone 1 | | |
| ***Drain Location*** | | | |
| Distance Above Floor (feet): | Floor bottom | | |
| Discharge Location: | Catch Basin | | |
| ***Overflow Location*** | | | |
| Overflow Elevation (feet): | 420' | | |
| Distance Above Bottom (feet): | 27' | | |
| Discharge Location: | Catch Basin | | |


| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|


# Reservoir Data (Cont'd)

| | |
|---|---|
| ***If Hydropneumatic Tank*** | |
| Capacity (gal): | 15,000 |
| Site Glass: | |
| Air Vent: | No |
| Pressure Gage: | Yes |
| ***Comments*** | |

| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|

# Reservoir Data

*(Use For All Distribution Storage, Chlorine Contact Tanks, Etc)*

| | | | |
|---|---|---|---|
| **System Name:** | City of Industry Waterworks System | | |
| **System Number:** | 1910029 | | |
| Source of Information: | System Records | | |
| Collected By: | Roy Frausto | Date: | 10/15/2018 |
| **Reservoir Number Or Name:** | Industry East Tank | | |
| ***Location*** | Industry Hills | | |
| Cross Streets: | N/A | | |
| Neighborhood: | Residential/Golf Course | | |
| Size Of Lot: | N/A | | |
| Fencing: | Manned Security Gate | | |
| ***Construction*** | | | |
| Date Constructed/Refurbished: | 1978 | | |
| Purpose (Storage, Chlorine Contact, Etc.): | Storage | | |
| Design Capacity (MG): | 2.5 | | |
| Operating Capacity (MG): | | | |
| Construction Type: | Steel | | |
| Shape: | Round | | |
| Construction Materials: | Steel | | |
| Sides: | Steel | | |
| Floor: | Steel | | |
| Cover Or Roof: | Roof | | |
| Interior Coating Type: | Epoxy | | |
| ***Dimensions*** | | | |
| Dimensions (H x L x W) Or (H & Diameter)(feet): | 36'5" Height x 110" Diameter | | |
| Tank Bottom Elevation (feet): | 744' | | |
| Height Of Tank (feet): | 36'5" | | |
| Surface Drainage To Reservoir Possible? | No | | |
| ***Ventilation*** | | | |
| Screened (Y/N): | Yes | | |
| Cathodic Protection: | Yes | | |
| ***Inlet Description*** | | | |
| Distance Above Bottom (feet): | 2' | | |
| Receives Water From: | Industry Hills Pump Station(s) | | |
| ***Outlet Description*** | | | |
| Distance From Inlet (feet): | Same Inlet/Outlet | | |
| Distance Above Bottom (feet): | 2' | | |
| Delivers Water To: | Industry Hills | | |
| Pressure Zone Served: | Industry Hills Upper and Lower Zone | | |
| ***Drain Location*** | | | |
| Distance Above Floor (feet): | In floor | | |
| Discharge Location: | Catch Basin | | |
| ***Overflow Location*** | | | |
| Overflow Elevation (feet): | 778' | | |
| Distance Above Bottom (feet): | 34' | | |
| Discharge Location: | Catch Basin | | |


| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|


# Reservoir Data (Cont'd)

| | |
|---|---|
| ***If Hydropneumatic Tank*** | |
| Capacity (gal): | |
| Site Glass: | |
| Air Vent: | |
| Pressure Gage: | |
| ***Comments*** | |

| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|

# Reservoir Data

*(Use For All Distribution Storage, Chlorine Contact Tanks, Etc)*

| | | | |
|---|---|---|---|
| **System Name:** | City of Industry Waterworks System | | |
| **System Number:** | 1910029 | | |
| Source of Information: | System Records | | |
| Collected By: | Roy Frausto | Date: | 10/15/2018 |
| **Reservoir Number Or Name:** | Industry West Tank | | |
| ***Location*** | | | |
| Cross Streets: | N/A | | |
| Neighborhood: | Residential//Golf Course | | |
| Size Of Lot: | N/A | | |
| Fencing: | Manned Security Gate | | |
| ***Construction*** | | | |
| Date Constructed/Refurbished: | 1978 | | |
| Purpose (Storage, Chlorine Contact, Etc.): | Storage | | |
| Design Capacity (MG): | 2.5 | | |
| Operating Capacity (MG): | | | |
| Construction Type: | Steel | | |
| Shape: | Round | | |
| Construction Materials: | Steel | | |
| Sides: | Steel | | |
| Floor: | Steel | | |
| Cover Or Roof: | Steel | | |
| Interior Coating Type: | Epoxy | | |
| ***Dimensions*** | | | |
| Dimensions (H x L x W) Or (H & Diameter)(feet): | 36'5" Helght x 110" Diameter | | |
| Tank Bottom Elevation (feet): | 744' | | |
| Height Of Tank (feet): | 36'5" | | |
| Surface Drainage To Reservoir Possible? | No | | |
| ***Ventilation*** | | | |
| Screened (Y/N): | Yes | | |
| Cathodic Protection: | Yes | | |
| ***Inlet Description*** | | | |
| Distance Above Bottom (feet): | 2' | | |
| Receives Water From: | Industry Hills Pump Station(s) | | |
| ***Outlet Description*** | | | |
| Distance From Inlet (feet): | Same Inlet/Outlet | | |
| Distance Above Bottom (feet): | 2' | | |
| Delivers Water To: | Industry Hills | | |
| Pressure Zone Served: | Industry Hills Upper and Lower Zone | | |
| ***Drain Location*** | | | |
| Distance Above Floor (feet): | In floor | | |
| Discharge Location: | Catch Basin | | |
| ***Overflow Location*** | | | |
| Overflow Elevation (feet): | 778' | | |
| Distance Above Bottom (feet): | 34' | | |
| Discharge Location: | Catch Basin | | |


| State of California | State Water Resources Control Board, Division of Drinking Water |
|---|---|


# Reservoir Data (Cont'd)

| | |
|---|---|
| ***If Hydropneumatic Tank*** | |
| Capacity (gal): | |
| Site Glass: | |
| Air Vent: | |
| Pressure Gage: | |
| ***Comments*** | |

# APPENDIX E

## Distribution Data Sheet

**STATE OF CALIFORNIA**
**DIVISION OF DRINKING WATER**
**DISTRIBUTION DATA SHEET**

**System Name: City of Industry Waterworks System** **No.: 1910029**
**Source of Information:**
**Collected By: Roy Frausto** **Date: October 15, 2018**

| | |
|---|---|
| **Number of Service Connections** | 1884 |
| **Pressure Range** | 40 - 115 psi |
| **Type of Pipe Installed** (%) | |
| Steel-Tar Coated & Wrapped | 0% |
| Steel-Cemented Lined, Cement Coated | 0% |
| Steel-Cement Lined | 16% |
| Ductile Iron | 9% |
| Asbestos Cement | 73% |
| Galvanized | 0% |
| Cast Iron | 0% |
| PVC | 2% |
| ABS | 0% |
| Polyethylene (PE) | 0% |
| **Minimum Size of New Mains** | 6" |
| **Amount Less Than 4" Diameter** | 8% |
| **Condition of Mains** | Good |
| **Minimum Depth of Cover** (Inches) | 36 |
| **Service Connections** (%) | |
| Copper | 84% |
| Steel | 5% |
| Plastic (Type & %) | PVC (1%) Poly (10%) |
| Lead | 0% |
| **Distance of Mains from Sewers** | > 10 ft |
| **Disinfection Method -- New Mains** (Describe Procedure) | Per AWWA C651-14<br>Using the continuous feed method, sodium hypochlorite is injected into new water mains at a minimum of 50 PPM. Chlorine residual tests are taken at appropriate points to verify residual levels. Chlorinated water remains in the water mains for retention of 24 hours. |
| **Disinfection After Repairs** (Describe Procedure) | Per AWWA C651-14<br>Swab with hypochlorite solution and bacteriological testing |
| **Infiltration Hazard** (Relation to Groundwater Table) | |
| **Dead Ends** | |
| How Many? | 65 |
| Flushing Valves Installed? | Yes |
| **Flushing Program** (Describe) | During a flushing event, the field operator will record two chlorine residual results; one at the beginning of the flush and the other at the end. This will ensure that the target |

| | |
|---|---|
| | and the other at the end. This will ensure that the target chlorine residual is maintaining in the system. If the initial chlorine residual is below 0.2 mg/l, this is an indication that the area needs to be flushed on a more frequent basis. In addition, the field operator will note the color (if any) and levels of sand (if any) observed in the discharged water at the beginning and end of the flush on the Flushing Report Form (Form). To ensure adequate flushing of dead-ends, the field operator should, at a minimum, flush 2 length volumes of the water main from the point of discharge to the last service under clear water discharge conditions. Under colored water discharge conditions, the field operator should flush until clear water discharge conditions are stable for a minimum of 2 minutes. Flushing documents are kept on file at La Puente Valley County Water District's main office at 112 N First St. in the City of La Puente, CA 91744. |
| **Growth and Sludge in Mains** | No |
| **Valves** | |
| Sufficient Number | Yes |
| Valve Maps Maintained | Yes |
| Valve Exercise Program | Yes |
| **Cross Connection Control Program** (Describe) | Administerd in house by Mr. Cesar Ortiz. Cross connection surveys completed every 4 years. |
| **Defects and Remarks** | |

# APPENDIX F

## Well Data Sheet

# WELL DATA SHEET

*Complete as much information as possible. Leave blank if information is not available, use N.A. if not applicable.*
** Indicates items required for Source Water Assessment*
*** Indicates additional items required for assessments and Ground Water Rule*

| | *(separate multiple entries in field with semi-colon)* | Actual, Estimated or Default? |
|---|---|---|
| **DATA SHEET GENERAL INFORMATION** | | |
| System Name | Industry Waterworks System | *from DHS database* |
| System Number | 1910029 | *from DHS database* |
| Source of Information *(well log, DHS/County files, system, etc)* | Well Log, System | |
| Organization Collecting Information *(DHS, County, System, other)* | CIWS System | |
| Date Information Collected/Updated | October 15, 2018 | |
| **WELL IDENTIFICATION** | | |
| * Well Number or Name | Well 05 | *from DHS database* |
| * DHS Source Identification Number (**FRDS ID No.**) | 1910029-007 | |
| DWR Well Log on File? ("YES" or "NO") | Yes | |
| State Well Number (from DWR) | 01S/11W-26P08 S | |
| Well Status (Active, Standby, Inactive) | Active | *from DHS database* |
| **WELL LOCATION** | | |
| Latitude | 34.05027778 | *from DHS database* |
| Longitude | 118.00444444 | *from DHS database* |
| Ground Surface Elevation (ft above Mean Sea Level) | 285 | Estimated |
| Street Address | 285 San Fidel Avenue | |
| Nearest Cross Street | Proctor Street | |
| City | La Puente | |
| County | Los Angeles | |
| * Neighborhood/Surrounding Area *(see Note 1)* | Re; A | |
| Site plan on file? ("YES" or "NO") | Yes | |
| DWR Ground Water Basin | Main San Gabriel | *to come from DWR* |
| DWR Ground Water Sub-basin | None | *to come from DWR* |
| **SANITARY CONDITIONS** | | |
| ** Distance to closest Sewer Line, Sewage Disposal, Septic Tank (ft) | 90 | Estimated |
| Distance to Active Wells (ft) | 140 | Estimated |
| Distance to Abandoned Wells (ft) | 320 | Actual |
| Distance to Surface Water (ft) | 840 | Estimated |
| ** Size of controlled area around well (square feet) | 105,000 | Actual |
| * Type of access control to well site *(fencing, building, etc)* | Blk. Wall; Fencing; Bldg | |
| * Surface Seal? (Concrete slab)("YES", "NO" or "UNKNOWN") | Yes | |
| * Dimensions of concrete slab: Length(ft)/ Width(ft)/ Thick(in) | 13/15/6 | Actual |
| * Within 100 year flood plain? ("YES", "NO" or "UNKNOWN") | No | |
| * Drainage away from well? ("YES" or "NO") | Yes | |
| **ENCLOSURE/HOUSING** | | |
| Enclosure Type *(building, vault, none, etc.)* | Building | |
| Floor material | Concrete | |
| Located in Pit? ("YES" or "NO") | No | |
| Pit depth (feet) (if applicable) | Not Applicable | |
| **WELL CONSTRUCTION** | | |
| Date drilled | October 1984 | Actual |
| Drilling Method | Reverse Rotary | Actual |
| Depth of Bore Hole (feet below ground surface) | 980 | Actual |
| Casing Beginning Depth/Ending Depth(ft below surface); 2nd Casing Beginning Depth/Ending Depth; 3rd Casing, etc. | 0/830 | Actual |
| Casing Diameter (inches); 2nd Casing Diameter; 3rd Casing, etc. | 20 | Actual |

# WELL DATA SHEET

| | *(separate multiple entries in field with semi-colon)* | Actual, Estimated or Default? |
|---|---|---|
| **WELL CONSTRUCTION (continued)** | | |
| Casing Material; 2nd Casing Material; 3rd Casing, etc. | Steel | Actual |
| Conductor casing used? ("YES", "NO" or "UNKNOWN") *(See Note 2)* | Yes | |
| Conductor casing removed? ("YES", "NO" or "UNKNOWN") | Unknown | |
| * Depth to highest perforations/screens (ft below surface) (or "UNKNOWN") | 380 | Actual |
| Screened Interval Beginning Depth/Ending Depth (ft below surface); 2nd Screened Interval Beg. Depth/Ending Depth; 3rd Screened Interval, etc. | 380/810 | Actual |
| * Total length of screened interval (ft) *(default = 10% pump capacity in gpm)* (or "UNKNOWN") | 430 | Actual |
| * Annular Seal?("YES", "NO" or "UNKNOWN") *(See Note 3)* | Yes | Actual |
| * Depth of Annular Seal (ft) | 230 | Actual |
| Material of Annular Seal *(cement grout, bentonite, etc.)* | Cement Grout | Actual |
| Gravel pack, Depth to top (ft below ground surface) | 300 | Actual |
| Total length of gravel pack (ft) | 530 | Actual |
| **AQUIFER** | | |
| * Aquifer Materials *(list all that apply: sand, silt, clay, gravel, rock, fractured rock)* | Sand, Gravel, Clay, Cobbles | Actual |
| * Effective porosity (decimal percent) *(default = 0.2)* (or "UNKNOWN") | 0.2 | Default |
| * Confining layer (Impervious Strata) above aquifer? ("YES", "NO" or "UNKNOWN") | No | Actual |
| Thickness of confining layer, if known (ft) | Not Applicable | |
| Depth to confining layer, if known (ft below ground) | Not Applicable | |
| * Static water level (ft below ground surface) | 125 | Measured |
| Static water level measurement: Date/Method | July 2018; Sounder | |
| Pumping water level (ft below ground surface) | 139 | Estimated |
| Pumping water level measurement: Date/Method | July 2018; Sounder | |
| **WELL PRODUCTION** | | |
| Well Yield (gpm) | 1,030 | Actual |
| Well Yield Based On (i.e., pump test, etc.) | Pump Test | Actual |
| Date measured | 4/23/2015 | Actual |
| Is the well metered? ("YES" or "NO") | Yes | |
| Production (gallons per year) | 550,000,000 | Estimated |
| Frequency of Use (hours/year) | 8,760 | Estimated |
| Typical pumping duration (hours/day) | 24 | Estimated |
| **PUMP** | | |
| Make | Peerless | |
| Type | Turbine | |
| Size (hp) | 200 | |
| * Capacity (gpm) | 1,200 | Actual |
| Depth to suction intake (ft below ground surface) | 138 | Actual |
| Lubrication Type | Oil | |
| Type of Power: *(i.e., electric, diesel, etc.)* | Electric | |
| Auxiliary power available? ("YES" or "NO") | No | |
| Operation controlled by: *(i.e., level in tank, pressure, etc.)* | Tank Level at Plant B5 | |
| Pump to Waste capability? ("YES" or "NO") | Yes | |
| Discharges to: *(i.e., distribution system, storage, etc.)* | B5 Treatment Plant | |

**REMARKS AND DEFECTS (use additional sheets as necessary)**

***Original well design is 2,500 gpm. Pump downsized in 2008 from 2,500 gpm to 1,200 gpm***

# WELL DATA SHEET

| NOTES |
| --- |
| 1. Neighborhood/Surrounding Area (list all that apply): A= Agricultural, Ru = Rural, Re = Residential, Co = Commercial, I = Industrial, Mu = Municipal, P = Pristine, O = Other |
| 2. Conductor Casing - Oversized casing used to stabilize bore hole during well construction. Should be removed during installation of annular seal. |
| 3. Annular Seal - Seal of grout in the space between the well casing and the wall of the drilled hole. Sometimes called "sanitary seal". |

# APPENDIX G

## Booster Station Data Sheets

# BOOSTER STATION DATA

**System Name:** City of Industry Waterworks System **System No:** 1910029

**Source of Information:** System Records

**Collected By:** Roy Frausto **Date:** 10-15-18

| **Number or Name** | *Industry Hills Pump Station 1* | | |
|---|---|---|---|
| **Date Constructed** | | | |
| **Purpose** (system pressure, standby, etc.) | System Pressure to Industry Hills Lower Zone | | |
| **Total Pumping Capacity (gpm)** | 4,400 | | |
| **Location** | | | |
| Specific Location (Cross Streets, etc) | Hill Street and Del Valle Avenue | | |
| Neighborhood | Residential /Golf Course | | |
| Size of Lot | N/A | | |
| **Enclosure:** | | | |
| Type | Block Building | | |
| Floor | Concrete | | |
| Insulation | None | | |
| Heating | None | | |
| Drainage | Ground Slope | | |
| Flood Alarm | None | | |
| **Flood Hazard** | None | | |
| **Relation to System** | | | |
| Receives Water From | Lomitas Pump Station (CIWS Zone 1) | | |
| Delivers Water To | Industry Hills Lower Zone | | |
| Portable Pump Connections Available | None | | |
| Station has Capacity to Reduce Pressure From High Side to Low Side of Booster | Yes | | |
| Standby Power Available on Site | No | | |
| Portable Standby Generator Connection Available | No | | |
| Instrumentation and Control | SCADA and Hand Off Auto (HOA) Controls | | |
| **Pumping Units** | *Booster 1* | *Booster 2* | *Booster 3* |
| Make | VERTI-LINE , AURORA PUMP CO. | VERTI-LINE , AURORA PUMP CO. | VERTI-LINE , AURORA PUMP CO. |
| Capacity | 1,100 GPM | 1,100 GPM | 2,200 GPM |
| Lubrication | Oil and Grease | Oil and Grease | Oil and Grease |
| Power | 75 HP (Electric) | 75 HP (Electric) | 150 HP (Natural Gas) |
| **Sewer or Other Hazardous Connections(s)** | None | None | None |
| **Defects and Remarks:** | | | |

# BOOSTER STATION DATA

**System Name:** City of Industry Waterworks System System **No:** 1910029

**Source of Information:** System Records

**Collected By:** Roy Frausto Date: 10-15-18

| **Number or Name** | ***Industry Hills Pump Station 2*** | | |
|---|---|---|---|
| **Date Constructed** | | | |
| **Purpose** (system pressure, standby, etc.) | System Pressure to Industry Hills Upper Zone | | |
| **Total Pumping Capacity (gpm)** | 4,400 | | |
| **Location** | | | |
| Specific Location (Cross Streets, etc) | BV Handorf | | |
| Neighborhood | Residential/Golf Course | | |
| Size of Lot | N/A | | |
| **Enclosure:** | | | |
| Type | Block Building | | |
| Floor | Concrete | | |
| Insulation | None | | |
| Heating | None | | |
| Drainage | Ground Slope | | |
| Flood Alarm | None | | |
| **Flood Hazard** | None | | |
| **Relation to System** | | | |
| Receives Water From | Industry Hills Lower Zone | | |
| Delivers Water To | Industry Hills Upper Zone | | |
| Portable Pump Connections Available | None | | |
| Station has Capacity to Reduce Pressure From High Side to Low Side of Booster | Yes | | |
| Standby Power Available on Site | No | | |
| Portable Standby Generator Connection Available | No | | |
| Instrumentation and Control | SCADA and Hand Off Auto (HOA) Controls | | |
| **Pumping Units** | ***Booster 1*** | ***Booster 2*** | ***Booster 3*** |
| Make | VERTI-LINE, AURORA PUMP CO. | VERTI-LINE, AURORA PUMP CO. | VERTI-LINE, AURORA PUMP CO. |
| Capacity | 1,100 GPM | 1,100 GPM | 2,200 GPM |
| Lubrication | Oil and Grease | Oil and Grease | Oil and Grease |
| Power | 75 HP (Electric) | 75 HP (Electric) | 150 HP (Natural Gas) |
| **Sewer or Other Hazardous Connections(s)** | None | None | None |
| **Defects and Remarks:** | | | |

# BOOSTER STATION DATA

**System Name:** City of Industry Waterworks System System **No:** 1910029

**Source of Information:** System Records

**Collected By:** Roy Frausto Date: 10-15-2018

| **Number or Name** | *Industry Hills Pump Station 3* | | |
|---|---|---|---|
| **Date Constructed** | | | |
| **Purpose** (system pressure, standby, etc.) | Backup to Supply Industry Hills Zone | | |
| **Total Pumping Capacity (gpm)** | 3,900 | | |
| **Location** | | | |
| Specific Location (Cross Streets, etc) | Industry Hills Parkway and Azusa Ave. | | |
| Neighborhood | Residential/Golf Course | | |
| Size of Lot | | | |
| **Enclosure:** | | | |
| Type | Block Building | | |
| Floor | Concrete | | |
| Insulation | None | | |
| Heating | None | | |
| Drainage | Ground Slope | | |
| Flood Alarm | None | | |
| **Flood Hazard** | None | | |
| **Relation to System** | | | |
| Receives Water From | LPVCWD Zone 2 | | |
| Delivers Water To | Industry Hills (Upper Zone) | | |
| Portable Pump Connections Available | None | | |
| Station has Capacity to Reduce Pressure From High Side to Low Side of Booster | No | | |
| Standby Power Available on Site | No | | |
| Portable Standby Generator Connection Available | No | | |
| Instrumentation and Control | SCADA and Hand Off Auto (HOA) Controls | | |
| **Pumping Units** | *Booster 1* | *Booster 2* | *Booster 3* |
| Make | VERTI-LINE, AURORA PUMP CO. | VERTI-LINE, AURORA PUMP CO. | VERTI-LINE, AURORA PUMP CO. |
| Capacity | 600 GPM | 1100 GPM | 2200 GPM |
| Lubrication | Oil and Grease | Oil and Grease | Oil and Grease |
| Power | 40 HP (Electric) | 60 HP (Electric) | 150 HP (Natural Gas) |
| **Sewer or Other Hazardous Connections(s)** | None | None | None |
| **Defects and Remarks:** | | | |

# BOOSTER STATION DATA

**System Name:** City of Industry Waterworks System **System No:** 1910029

**Source of Information:** System Records

**Collected By:** Roy Frausto **Date:** 10-12-2018

| **Number or Name** | ***Lomitas Pump Station*** | | |
|---|---|---|---|
| **Date Constructed** | | | |
| **Purpose** (system pressure, standby, etc.) | System Pressure to CIWS Zone 1 | | |
| **Total Pumping Capacity (gpm)** | 4,600 | | |
| **Location** | | | |
| Specific Location (Cross Streets, etc) | Lomitas Ave. | | |
| Neighborhood | Residential/Equestrian | | |
| Size of Lot | 57,600 sqft. | | |
| **Enclosure:** | | | |
| Type | Fenced Property | | |
| Floor | Concrete | | |
| Insulation | None | | |
| Heating | None | | |
| Drainage | Ground Slope | | |
| Flood Alarm | None | | |
| **Flood Hazard** | None | | |
| **Relation to System** | | | |
| Receives Water From | Lomitas Reservoir | | |
| Delivers Water To | CIWS Zone 1 | | |
| Portable Pump Connections Available | None | | |
| Station has Capacity to Reduce Pressure From High Side to Low Side of Booster | No | | |
| Standby Power Available on Site | Yes | | |
| Portable Standby Generator Connection Available | Yes | | |
| Instrumentation and Control | SCADA and Hand Off Auto (HOA) Controls | | |
| **Pumping Units** | ***Booster 1*** | ***Booster 2*** | ***Booster 3*** |
| Make | | | |
| Capacity | 1,200 GPM | 1,600 GPM | 1,600 GPM |
| Lubrication | Oil and Grease | Oil and Grease | Oil and Grease |
| Power | 50 HP | 100 HP | 100 HP |
| **Sewer or Other Hazardous Connections(s)** | None | None | None |
| **Defects and Remarks:** | | | |

# BOOSTER STATION DATA

**System Name:** City of Industry Waterworks System **System No:** 1910029

**Source of Information:** System Records

**Collected By:** Roy Frausto **Date:** 10-15-2018

| **Number or Name** | ***Lake Loop Pump Station*** | | |
|---|---|---|---|
| **Date Constructed** | | | |
| **Purpose** (system pressure, standby, etc.) | Lake Loop Zone | | |
| **Total Pumping Capacity (gpm)** | 600 | | |
| **Location** | | | |
| Specific Location (Cross Streets, etc) | Lake Loop Rd. | | |
| Neighborhood | Residential | | |
| Size of Lot | N/A | | |
| **Enclosure:** | | | |
| Type | Block Fencing | | |
| Floor | Concrete | | |
| Insulation | None | | |
| Heating | None | | |
| Drainage | Ground Slope | | |
| Flood Alarm | None | | |
| **Flood Hazard** | None | | |
| **Relation to System** | | | |
| Receives Water From | Industry Hills (Upper Zone) | | |
| Delivers Water To | Lake Loop Zone | | |
| Portable Pump Connections Available | None | | |
| Station has Capacity to Reduce Pressure From High Side to Low Side of Booster | No | | |
| Standby Power Available on Site | No | | |
| Portable Standby Generator Connection Available | No | | |
| Instrumentation and Control | SCADA and Hand Off Auto (HOA) Controls | | |
| **Pumping Units** | ***Booster 1*** | ***Booster 2*** | ***Booster 3*** |
| Make | GRUNDFOS | GRUNDFOS | GRUNDFOS |
| Capacity | 200 GPM | 200 GPM | 200 GPM |
| Lubrication | Grease | Grease | Grease |
| Power | 10 HP (Electric) | 10 HP (Electric) | 10 HP (Electric) |
| **Sewer or Other Hazardous Connections(s)** | None | None | None |
| **Defects and Remarks:** | | | |

# APPENDIX H

# Cross-Connection Control Program Evaluation

**STATE OF CALIFORNIA**
**WATER RESOURCES CONTROL BOARD**
**DIVISION OF DRINKING WATER**
**HOLLYWOOD DISTRICT OFFICE**
**CROSS-CONNECTION CONTROL SURVEY**

SYSTEM NAME: **City of Industry Waterworks System** NUMBER: **1910029**

NAME OF PERSON FILING REPORT: **Roy Frausto**

POSITION: **Engineering & Compliance Manager**

I. GENERAL

A. Do you have an active Cross-Connection Control Program? Yes **X** No ____

B. How is the program administered?

| | |
|---|---|
| In house | ( **X** ) |
| By contract with water supplier (wholesaler) | ( ) |
| Coordinated with local agency | ( ) |
| Other ____ | ( ) |

C. Do you have a copy of the GUIDANCE MANUAL FOR CROSS CONNECTION CONTROL PROGRAMS (ODW GREEN BOOK)? Yes **X** No ____

**USC Manual for Cross Connection Control**

II. ELEMENTS OF A CROSS-CONNECTION CONTROL PROGRAM

A. ORDINANCE OR RULES OF SERVICE

1. Have you adopted an enforceable Cross-Connection Control ordinance or rules of service? Yes **X** No ____

   Attach a copy of the ordinance or rules when you return this survey.

2. Are users who are in non-compliance with the cross-connection policy, given written notice to make corrections? Yes **X** No ____

3. Describe procedures followed when corrections are not made: **Procedures are followed according to District Ordinance**

B. CROSS-CONNECTION SURVEYS

1. Have you conducted a survey of your users to determine specific cross-connection control requirements and problems? Yes **X** No ____

2. Are premises periodically reevaluated for backflow hazard? Yes **X** No ____

If yes, how is this accomplished? **Cross connection survey shutdown test every 4 years**

3. Are new services reviewed to establish the need for backflow protection? Yes **X** No

4. Who does the reviewing and what procedures are followed? **District Engineer checks plans and CCC Specialists do site inspections**

C. PROVISIONS FOR BACKFLOW PROTECTION

1. How is backflow protection provided?

Premises isolation ( **X** )
Internal protection ( )
Combination ( )

2. Who is responsible for installation of assemblies?

Water Purveyor ( ), The Water User ( **X** ), Both ( ), Neither ( ), Other ( )

3. If the user is responsible for installation of assemblies, do you provide them with a list of approved backflow assemblies? Yes **X** No

What is the source of that list? **Website - Los Angeles County list of approved backflow devices**

4. Is the installation of approved backflow assemblies inspected by the purveyor to determine if they have proper clearance, drainage, and security as specified in Section 7603? Yes **X** No

D. PROGRAM MANAGEMENT

1. Do you have personnel with expertise and authority to conduct cross-connection surveys to carry out the cross-connection control program? Yes **X** No

| Name | Summary of Education, Training and Experience |
|---|---|
| a) **Cesar A. Ortiz** | **AWWA Cross Connection Control Specialist, T-3, D-3** |
| b) **Miguel Molina** | **AWWA Cross Connection Control Specialist, T-2, D-4** |
| c) | |
| d) | |

E. ASSEMBLY TESTING AND MAINTENANCE

1. Are all backflow assemblies tested, at least, on an annual basis? Yes **X** No ____

Number of backflow assemblies in system **191**
Number of backflow assemblies installed this year **6**
Number of backflow assemblies tested this year **191**

2. Do you employ certified backflow assembly testers? Yes ____ No **X**

| Name | Certified By | Certificate # |
|---|---|---|
| a) | | |
| b) | | |
| c) | | |
| d) | | |

3. Backflow assemblies are tested by:

Water Purveyor ( ), The Water User ( **X** ), Both ( ), Neither ( ), Other____( )

4. If the user is responsible for testing of assemblies, do you provide them with a list of certified testers? Yes **X** No ____

5. Backflow assemblies are maintained by:

Water Purveyor ( ), The Water User ( **X** ), Both ( ), Neither ( ), Other____( )

6. Do you conduct follow-up inspections to determine compliance with testing and maintenance requirements? Yes **X** No ____

F. RECORDS

1. Do you maintain installation, inspection, and testing records? Yes **X** No ____

2. Have you established a program to evaluate inspection and testing records? Yes **X** No ____

III. DEGREE OF PROTECTION

Type of backflow protection required for premises with:

| | N/A | AG[1] | RPP[2] | DC[3] | Other | None |
|---|---|---|---|---|---|---|
| Sewage treatment plants | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Sewage lift stations | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Reclaimed water systems | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Irrigation systems | | | | | | |
| Landscape | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Agricultural | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| With chemical injection | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Unapproved auxiliary water systems (i.e. wells, ponds, etc.) | | | | | | |
| a) Interconnected with water system | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| b) separated from water system | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Docks and piers | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Industrial plants with internal hazards | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Hospitals and clinics | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Laboratories | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Premises with restricted access | ( ) | ( ) | ( X ) | ( ) | ( ) | ( ) |
| Fire system connected to water system | | | | | | |
| a) With unapproved water supply on premise but not interconnected | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| b) Connected to public water supply and inter-connected to unapproved auxiliary supply | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| c) Supplies from water system with on-site private storage or fire pumps | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Water trucks | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Sewer flushing operations | ( X ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Other _____ | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |

[1] AG = Approved Air Gap
[2] RPP = Reduced Pressure Principle Assembly
[3] DC = Approved Double Check Valve Assembly

Signed: _____

Date: 7-23-18

If you need more space to answer any of the questions, please attach additional sheets.

# APPENDIX E

## Water Supply Permit

# APPENDIX I

## Water Supply Permit

State Water Resources Control Board
Division of Drinking Water

# *Certificate of Issuance*

OF A

# ***WATER SUPPLY PERMIT***

TO

## CITY OF INDUSTRY WATERWORKS SYSTEM

This is to certify that a water supply permit **04-07-18P-002** has been issued to City of Industry Waterworks System on **November 15, 2018,** to supply water for domestic purposes to City of Industry Waterworks System. The permit was issued by the SWRCB - Division of Drinking Water, pursuant to the provisions of Division 104, Part 12, Chapter 4, Article 7, of the California Health and Safety Code. The permit is subject to the requirements of Title 22, California Code of Regulations, and to the conditions provided in the water supply permit.

A copy of the water supply permit is on file with City of Industry Waterworks System or may be obtained by contacting the Hollywood District Office of the SWRCB – Division of Drinking Water, Field Operations Branch, 500 N. Central Ave., Ste. 500, Glendale, CA 91203

***Dmitriy Ginzburg, P.E., Hollywood District Senior Sanitary Engineer***