

AGENDA REGULAR WORKSHOP/MEETING OF THE BOARD OF DIRECTORS

WEDNESDAY, NOVEMBER 2, 2022 10:00 A.M.

AGENCY HEADQUARTERS BOARD ROOM 6075 KIMBALL AVENUE, BUILDING A CHINO, CALIFORNIA 91708 VIEW THE MEETING LIVE ONLINE AT IEUA.ORG TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 811 003 35#

PURSUANT TO AB361 AND RESOLUTION NO. 2022-10-1 ADOPTED BY THE IEUA BOARD OF DIRECTORS ON OCTOBER 19, 2022, IEUA BOARD AND COMMITTEE MEETINGS WILL CONTINUE TO BE CONDUCTED THROUGH TELECONFERENCE IN AN EFFORT TO PROTECT PUBLIC HEALTH AND PREVENT THE SPREAD OF COVID-19.

The public may participate and provide public comment during the meeting by dialing the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at <u>dgarzaro@ieua.org</u> prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Board of Directors.

CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS MEETING

FLAG SALUTE

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager prior to the public comment section or request to address the Board during the public comments section of the meeting. <u>Comments will be limited to three minutes per speaker.</u> Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

*A Municipal Water District

1. WORKSHOP ITEM

A. <u>SEWER COLLECTION SYSTEM (POWERPOINT)</u>

2. GENERAL MANAGER'S COMMENTS

3. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS

4. DIRECTORS' COMMENTS

A. <u>CONFERENCE REPORTS</u>

This is the time and place for the Members of the Board to report on prescheduled Committee/District Representative Assignment meetings, which were held since the last regular Board meeting, and/or any other items of interest.

5. CLOSED SESSION

A. <u>PURSUANT TO GOVERNMENT CODE SECTION 54956.9(d)(2)(e)1</u> <u>CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION</u> One Case

B. <u>PURSUANT TO GOVERNMENT CODE SECTIONS 54957 AND 54957.6</u> <u>– PUBLIC EMPLOYEE PERFORMANCE EVALUATION</u>

- 1. Manager of Internal Audit
- 2. General Manager
- 3. Board Secretary/Office Manager

<u>ADJOURN</u>

Declaration of Posting

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at <u>www.ieua.org</u> at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or <u>dgarzaro@ieua.org</u>, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

WORKSHOP ITEM





Sewer Collection System Workshop

Lucia Diaz, Manager of Facilities & Water System Programs Daniel Dyer, Sewer Collections Supervisor November 2, 2022

Agenda



Sewer Overview

Sanitary Sewer Management Plan (SSMP)

Regional Facilities & Systems

Collection System Operators

Coordination Efforts

Technology Influences

Upcoming Challenges

Sewer Types Serving Different Purposes

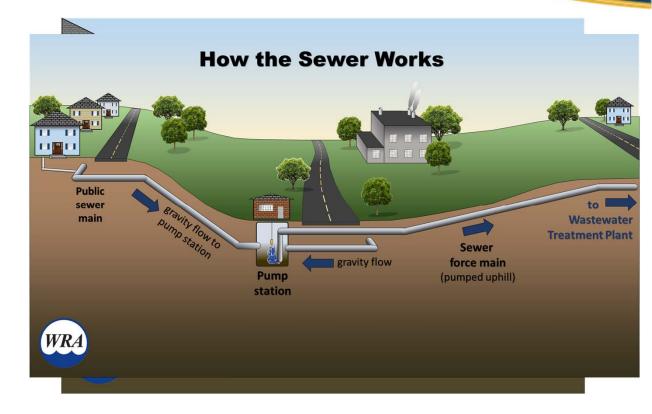
Dry Weather Wet Weather Sanitary Sewers – Used for conveyance of wastewater to treatment plants Combined Down Spout Storm Sewers – Used for Sewer Storm 🚗 Storm conveyance of stormwater and local runoff to receiving waters Outfall Pipe to Water Body **Overflow** Outfall Pipe to Water Body Sewage from Domestic, Commercial, and Industrial Sources and Storm Wat To Sewage Treatement Plant To Sewage Treatement Plant • Combined Sewers - Used for conveyance of both sanitary and Sanitary storm sewers to treatment plants during dry weather Down Spout Down Spout ... Sewer ... Storm 🚗 Storm Prain **Overflow** Separate Storm Sewer Separate Storm Sew Sewage Treatement Plant age Treatement Plant

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Sewer Types Serving Different Purposes

• IEUA service area has sanitary sewers

- -Regional System
 - Residential, commercial, and industrial wastewater
- –Non-Reclaimable Wastewater System
 - Industrial wastewater with high TDS
- -Collection System
 - Pipelines
 - Lift Stations



Statewide Sanitary Sewer System General Order (SSS-WDR)

- Adopted by the SWRCB in 2006
 - Order No. 2006-0003 SSO-WDR
 - Order No. WQ 2013-0058-EXEC amending MRP of SSO-WDR
 - -New Draft Order is currently available for review
- · It regulates publicly-owned sewer systems statewide
- Sets statewide requirements for the Sanitary Sewer Overflow ("SSO") Reduction Program
- Prohibits discharges to waters of the US per Clean Water Act
- Requires each system owner to:
 - Develop and implement a Sanitary Sewer Management Plans ("SSMP")
 - -Perform critical system operation and maintenance
 - -Publicly report spills from systems



<image>

Chino CA 91708 United States



Categories of SSO Notifications

 Category 1 SSO that enter surface water or storm drainpipe <1,000 gallons

-Cal OES within 2 hours of becoming aware of discharge

- -RWQCB within 2 hours of becoming aware of discharge
- Category 2 SSO that do not enter surface water or storm drainpipe and/or is fully recovered > 1,000 gallons

-No regulatory notification required

- Category 3 SSO all other discharges — No regulatory notification required
- All notifications are submitted to SWRCB



CIWQS SSO Reporting Information

- Spill Appearance Points, most common
 - Gravity Mainline
 - -Force Main
 - -Manhole
 - -Pump Station
- Spill Causes, most common
 - Debris Construction; Rags; Wipes / Non-Disposables; Lateral
 - Collection System Maintenance Caused Spill / Damage
 - Construction Diversion Failure
 - Grease Deposition (FOG)
 - Operator Error
 - Pipe Structural Problem Installation; Controls; Mechanical; Power
 - -Root Intrusion
 - -Siphon Failure
 - -Vandalism

Baby Wipes, Toilet Paper And Feces: The Carson Raw Sewage Spill Left Residents



Sanitary Sewer Management Plan (SSMP)

- SSMP is a dynamic written document that details how a specific sewer collection system is designed, operated, maintained, repaired and funded with the goal of preventing Sanitary Sewer Overflows (SSO)
- Essentially the SSMP is an asset management program
- SSMP Elements (11)
- Goals
- Organization
- Legal Authority
- Overflow Emergency Response Plan
- Operation and Maintenance Plan
- FOG Control Program

- Design and Performance Standards
- System Capacity Assurance Plan
- Monitoring, Measurement, and Program Modifications
- SSMP Program Audits
- Communication Program



2021 SSMP AUDIT REPORT



Prepared by: Inland Empire Utilities Agency

Period Covered: May 2, 2019 to May 2, 2021 Analyzed Data up to March 1, <u>2021</u>

WDID #855O10580

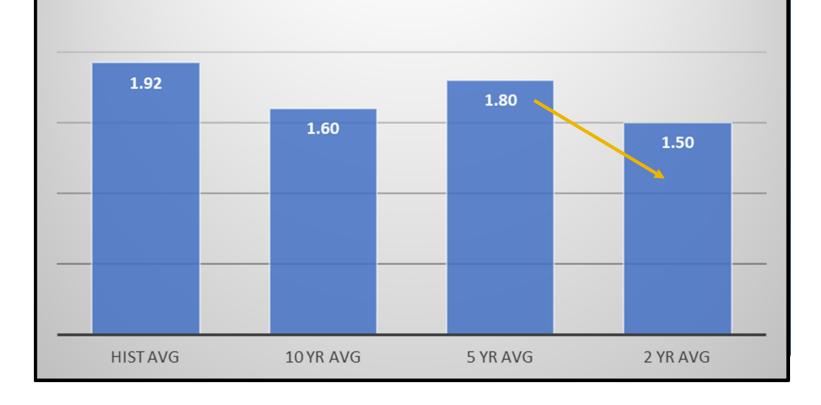
IEUA SSMP Current Status

- Approved by IEUA Board of Directors
- Certified with SWRCB
- Published online on IEUA Website
 - -https://www.ieua.org/about-us/ssmp/
- Last SSMP 5-Year Update completed in 2019
- Last Bi-Annual Audit completed in 2021
- New Draft Order is currently available for review
 - -Adoption Hearing is December 2022
 - -A new SSMP will be completed in 2023



IEUA Historical SSO's

Historical SSO Averages (10/3/2022)

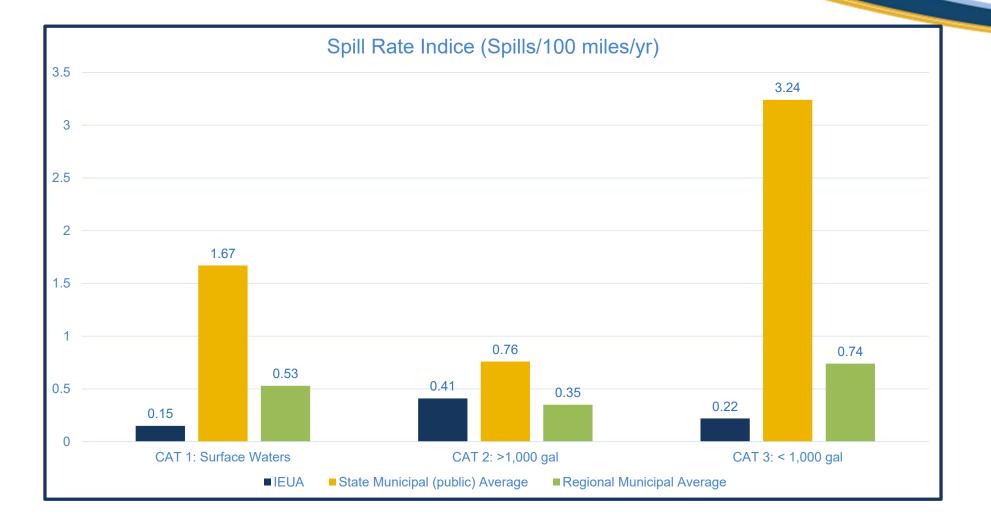


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IEUA Spill Rate Comparison to Industry



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Recent SSO Events

- Category 2 SSO associated with the Juniper Avenue line for NRWS - July 6, 2022
- Category 2 SSO occurred at El Prado Road RP-5 Primary Sludge line - July 19, 2022





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SSO After-Action



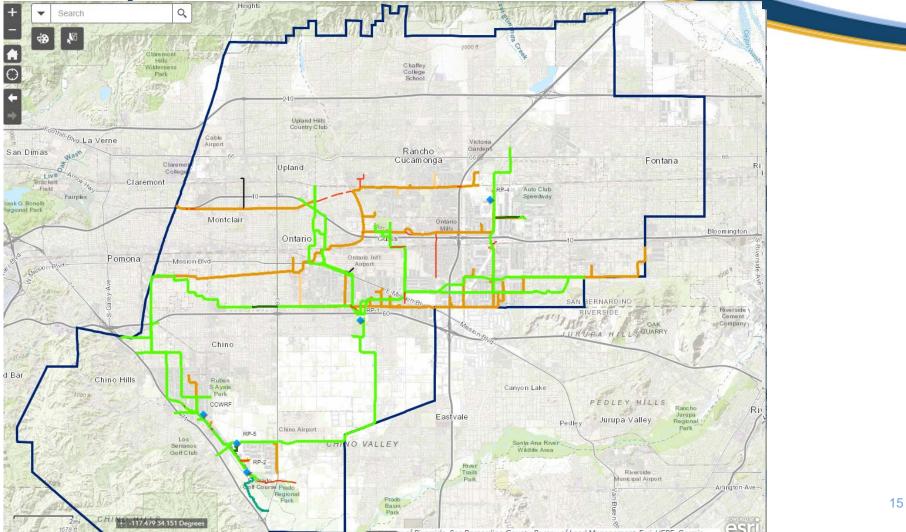


Operational Challenges

• Increase in Fats, Oils, and Grease (FOG) & Ragging



Regional Map



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Pump & Lift Stations



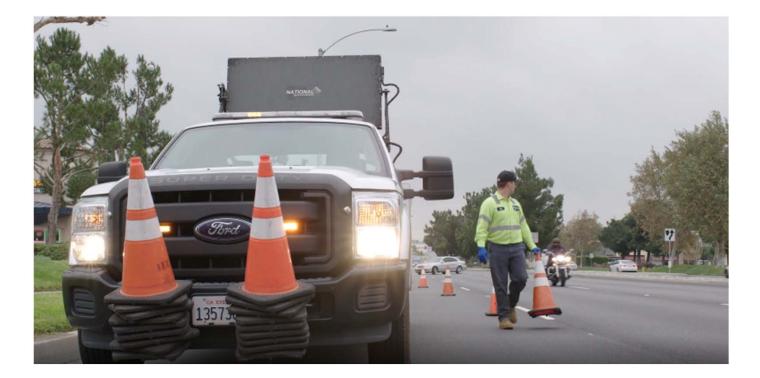
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Collection Team



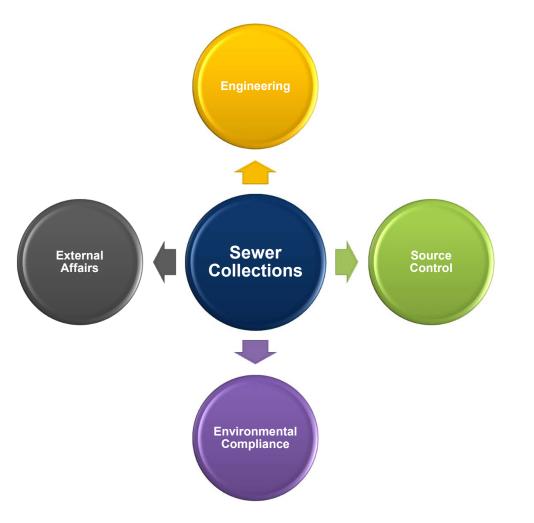


IEUA Sewer Collections Crew



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Internal Coordination is Essential to Success



Inland Empire Utilities Agency A MUNICIPAL WATER DISTRICT **Asset Management**



CCTV Inspections

Engineering Projects

Coordination with Cities on manhole covers

Condition Assessment Project

Mutual Aid Partners



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Mutual Aid Coordination Improves Response, Knowledge, and Relationships

- Sewer Collections Team hosted the first ever Multi-Agency Sanitary Sewer Overflow Drill.
- Total of six Agencies/Cities
- Training consisted of multiple SSO simulations and bypass support.
- Hosted first meeting between member Agencies for the Sewer Collections and Environmental Compliance teams.









Regional Messaging FOG & Rags

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Inland Empire Utilities Agency 🤗 \mathbf{O} Published by Hootsuite [?] · April 8 · G

FOG (fats, oils, and greases) and wipes clog pipes! Make sure to keep those items and any napkins, tissues, or paper towels in the trash and out of our sewer systems. #nowipesinthepipes #wipesclogpipes #FOG #sewersmart #ieuawater



Inland Empire Utilities Agency 🤗 Published by Hootsuite [?] - July 14 - G

Our Collections Crew reminds us to be #sewersmart by keeping FOG (fats, oils, and greases) and "flushable" wipes out of our sewer systems! Instead, we should collect, cool, and can all FOG and dispose of all wipes in the trash can. Toilet paper should be the only item flushed down the drain. #themoreyouknow #NoWipesInThePipes #NoFOGDownTheDrain #ieuawater



Inland Empire Utilities Agency
Published by Hootsuite (1) - June 16 - FOG clogs! Friendly reminder to always collect, cool, and can fats, oils, and greases instead of disposing of them down the drain. #FOG #reminder wersmart #ieuawate

Collect it. Cool it. Can it. #NoFOGDownTheDrain

Inland Empire Utilities Agency O Published by Hootsuite [?] - August 15 - G

Here's your #reminder to properly dispose of #wipes and #FOGI Improper disposal can negatively impact infrastructure, sewer system equipment, and our environment! #the ouknow #NoWipesInThePipes #NoFOGDownTheDrain #ieuawate

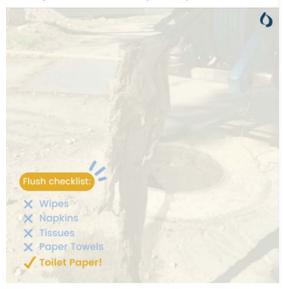


Inland Empire Utilities Agency 🤗 Published by Hootsuite [?] - September 8 - 3

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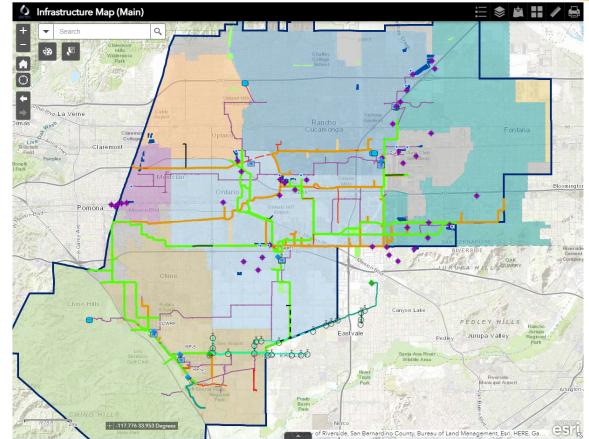
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Make sure tollet paper is the only item being flushed down your drain! Improper disposal of non-flushable items can lead to huge inefficiencies in sewer and city infrastructure. Plus, our Collections team will thank you! #themorevouknow #sewersmart #NoWipesInThePipes #ieuawater



Technology Supports Data Collection and Monitoring

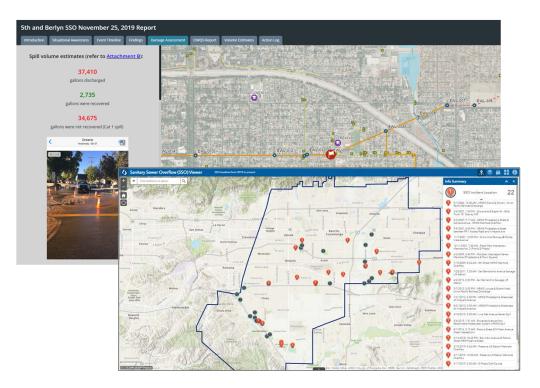
- Geographic Information System (GIS)
 - -IEUA Infrastructure Mapping
 - -Mutual Aid Partner's System Mapping
 - -Inspection Data
 - -Cleaning Data
 - -SmartCovers
 - -SSO Mapping



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Dashboards and Reports







CCTV Inspection

Inspection Dashboard

Δ

Brine Sewer System (BSS) Condition Assessment Dashboard SS BSS Status Map Ξ BSS Pipeline Cleaning (Collections Team) i **BSS** Inspection Status + + Purpose: 4 Use this application to compare the cleaning status with the San Gabr San _ inspection status. C C How-to-use: GABRIEL MOUNTAINS Q GABRIEL MOUNTAINS Q 2 Dry Use the left map to navigate. The JUM Du right map will automatically sync up. sa Glendora Glendora BS Legend: La Verne La Verne Rancho Rancho Blue = Clean Cucamonda othill-Blvd Fonta Cucamonda Foothill-Blvd Fontar Upland Rialto Upland Rialto Claremont Claremont Orange = Inspected Frank. Bonel ovina Covina Black = Not clean/inspected na loo ming to n Bloomington na Ontari Ontag Pom Pom 0 Grand Terra N JOSE HILLS N JOSE HILLS Grand Terr HILLS A-H-1-1-9 Chino Chino Canyon Lake Canyon Lake Chino Hill Chino Hills Riverside Riverside Jurupa Valley Jurupa Valley Santa Ana Riv Santa Ana Rive 1111 VALLEY CH VALLEY O HILLS HILLS Chino Hill funic i pal Yorba Linda Yorba Linda Woo'dcrest Woordcres Coro Coroi Lake Lake Mathews eim TEMESCAL VALLEY TEMESCAL VALLEY The Retrea Orange Orange County of Riverside, San Bernardino County, Bureau of Land County of Riverside, San Bernardino County, Bureau of Land

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SmartCover Units

•25 units in the system
•Hydrogen Sulfide Pilot Program
•Upcoming Flow Study
•Averted four potential SSO's





GIS View

SmartCover Units

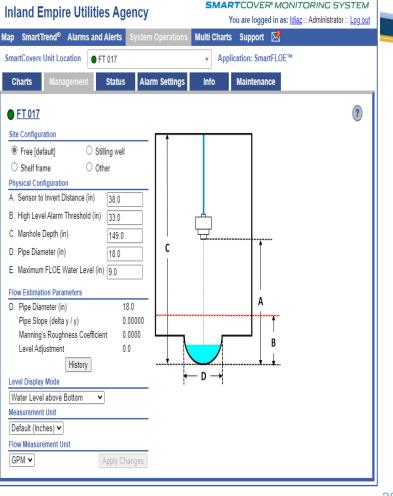
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A MUNICIPAL WATER DISTRICT **SMART**COVER® MONITORING SYSTEM You are logged in as: Idiaz :: Administrator :: Log out Multi Charts Support 🔀 SmartCovere Unit Location | ● FT 017 Application: SmartFLOE™ Charts Status Alarm Settings Info Maintenance ? • FT 017 Site Configuration O Stilling well Free [default] O Other O Shelf frame Physical Configuration



SMARTCOVER® MONITORING SYSTEM

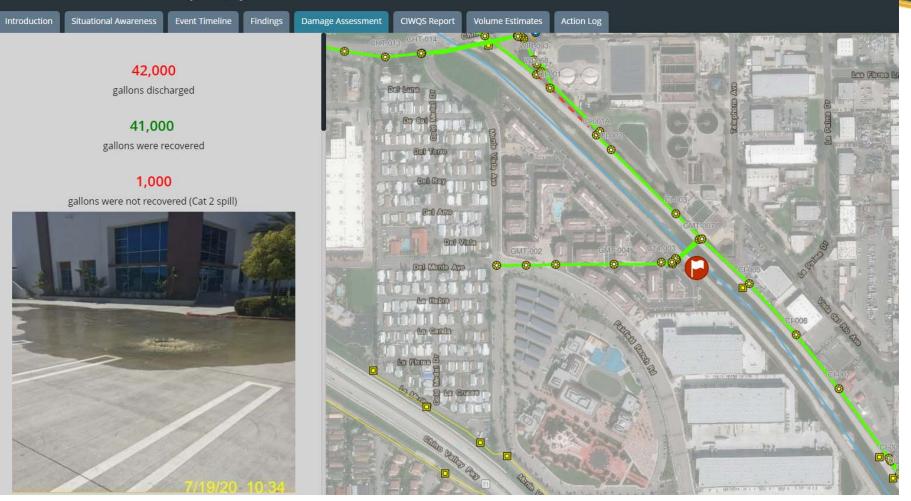
You are logged in as: Idiaz :: Administrator :: Log out



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SSO Mapping

Fairfield Ranch Road SSO Report July 19, 2020



Challenges: Proposed Advanced Clean Fleet Regulation

- Vehicle Unit Purchases
 - Replacement of CCTV Van before 2024
 - -New Vactor Truck purchase before 2024









Challenges: SB 1157 Reduction GPCD

Possible Effects on Wastewater Collection

- -Low Flow Effects
 - Increased solids concentration
 - Blockages in pipes and lift stations
 - Increased hydrogen sulfide production
 - Increased generation of orders, corrosion

-Responses

- Increased labor
- Increased chemical & energy usage
- Additional equipment needs
- · Increased repair and replacements

SB1157	2025	2029	2030
Before	55 GPCD	52.5 GPCD	50 GPCD
After	55 GPCD	47 GPCD	42 GPCD

Collections Hard At Work!



