Santa Ana Watershed Project Authority

Inland Empire Brine Line
Overflow Emergency Response Plan (OERP)

January 2018

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Section 1
Introduction

1.1 Background and Purpose

In May 2006, the SWRCB adopted Order No. 2006-0003, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDR). Order No. 2006-0003 was superseded by Order No. 2008-0002-EXEC on February 2008. Monitoring and Reporting Requirements were updated on September 9, 2013 through Order No. 2013-0058-EXEC. All federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length and that collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California are required to comply with the terms of this Order. The principal requirement of the WDR is for each system owner to develop and implement a system-specific Sewer System Management Plan (SSMP). One element of the SSMP requirements is an Overflow Emergency Response Plan (OERP).

This OERP is intended to provide the Santa Ana Watershed Project Authority (SAWPA) and its member agencies with emergency response procedures should an overflow occur in the Inland Empire Brine Line (Brine Line), the portion of the Santa Ana Regional Interceptor (SARI) which is owned by SAWPA. This is a living document, intended to be updated annually or more frequently if there is a need based on regulatory changes or modifications within the Brine Line system.

This document supersedes the Inland Empire Brine Line Emergency Response Plan (ERP) (SAWPA 2015) for San Bernardino and Riverside Counties, which was created to provide emergency response procedures should a general emergency and/or failure occur in the Brine Line. While this OERP is intended to be a standalone document focused on emergency response protocol for sewer overflow events.

The OERP is also intended to meet the requirements of the National Incident Management System (NIMS). The NIMS provides a nationwide approach to incident management, integrating best management practices. Six major components comprise the approach including Command and Management, Preparedness, Resource Management, Communications and Information Management, Supporting Technologies, and Ongoing Management and Maintenance.

1.2 Project Scope

The scope of this project included the following major tasks:

- Collect sources of information currently available from SAWPA.
- Conduct workshops and meetings with SAWPA staff to develop OERP.
- Prepare an OERP that meets SSMP and NIMS requirements.

1.3 Plan Objective

The following sections will provide the emergency responder with specific information and tools that may be used to:

- Meet the requirements of the WDR, including emergency response, notification, and staff training;
- Understand key Brine Line sanitary sewer overflow (SSO) mechanisms;
- Understand the consequences associated with a Brine Line SSO;
- Identify, assess, and mitigate a Brine Line SSO emergency;
- Meet overflow reporting and record keeping requirements; and
- Consider requirements of NIMS.

1.4 Overflow Emergency Response Plan Organization

This report consists of six sections and appendices. Each section is briefly described below:

Section 1 – Provides the background and purpose of the project, project scope, plan objective, and the organization of the report.

Section 2 – Provides a description of the project area and sanitary sewer system, describes system hydraulics, identifies potential SSO mechanisms, and identifies regulatory elements required by the WDR.

Section 3 – Provides information on overflow emergency response procedures, including communication procedures, impact mitigation and containment procedures, emergency operations, and resources.

Section 4 – Provides SSO reporting procedures.

Section 5 – Provides requirements for record keeping and certification.

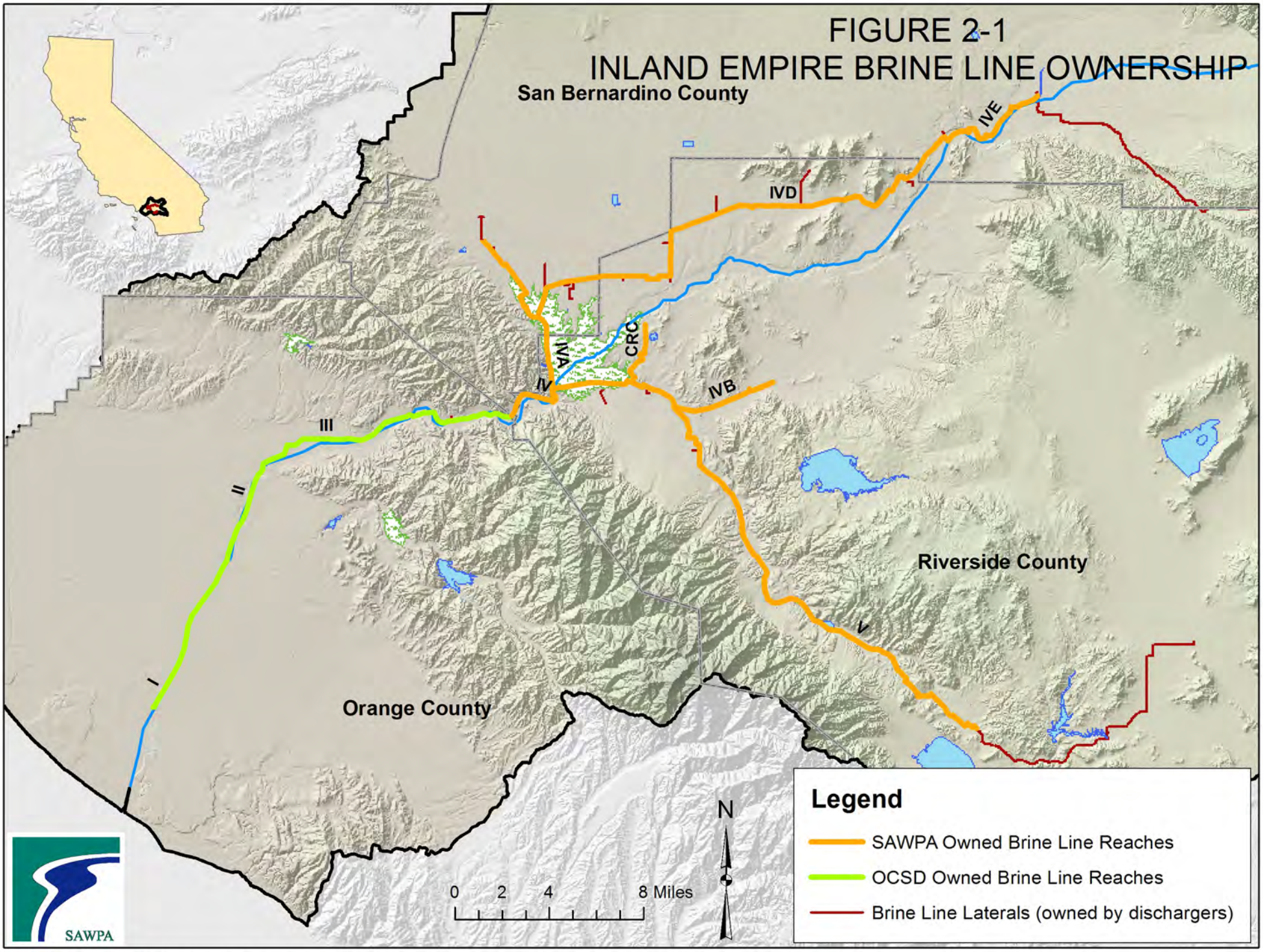
Section 6 – Provides information on training and follow-up plans.

Section 2
System Description and Regulatory Environment

2.1 Project Area and System Description

SAWPA owns either capacity rights in, or owns outright approximately 93 miles of 16" to 84" pipeline referred to as the Brine Line, running through San Bernardino, Riverside, and Orange Counties as provided in Figure 2-1. The Brine Line system includes those reaches that are upstream of the Orange County Sanitation District service area: Reaches IV, IV-A, IV-B, IV-D, IV-E, and V. The total length of these upstream reaches is approximately 72 miles. The Brine Line is operated primarily by SAWPA with support provided by both Western Municipal Water District (WMWD) and the Inland Empire Utilities Agency (IEUA). Eastern Municipal Water District operates the Pressure Sustaining Station, as shown in Figure 2-2. Laterals to the Brine Line are operated by the owning Agency. Reaches IV, IV-A, IV-B, IV-D, and IV-E include approximately 49 miles of gravity pipeline ranging from 16 to 48-inches. Pipeline materials include polyvinyl chloride (PVC) pipe, reinforced concrete pipe (RCP) with PVC lining, ductile iron (DI) pipe, vitrified clay pipe (VCP), high density polyethylene pipe (HDPE), PVC lined reinforced concrete pressure pipe (RCPP), concrete encased steel pipe, and cement mortar lined and coated (CMLC) steel pipe. Reach V is a low-pressure force main approximately 23 miles long, and is constructed of PVC and HDPE pipeline ranging in diameter from 24 to 30-inches. The system also has a number of inverted siphons, some long, which may contribute to SSO risk.

The member agencies of SAWPA are San Bernardino Valley Municipal Water District (Valley District), Eastern Municipal Water District (EMWD), the Orange County Water District (OCWD), IEUA, and WMWD. In addition, SAWPA works closely with other agencies, such as the Orange County Sanitation District (OCSD), Jurupa Community Services District (JCSD), Yucaipa Valley Water District (YVWD), and the City of Corona Department of Water and Power (DWP). Because most users of the Brine Line are permitted primarily by member agencies, the emergency protocol of the appropriate member agency should be used to supplement the emergency procedures established in this OERP. Member agency emergency protocols include IEUA's Sanitary Sewer Overflow Unified Response Guidance Plan, WMWD's Emergency Response and Recovery Plan, and EMWD's Standard Operating Procedure for brine Leaks. Should a SSO occur along the portion of the Lower SARI owned and operated by OCSD (Orange County border, at Green River Golf Course, to SAVI Ranch, at Weir Canyon Road), emergency protocols from OCSD's SARI Emergency Response Plan (ERP) (CDM, 2004) should be used.



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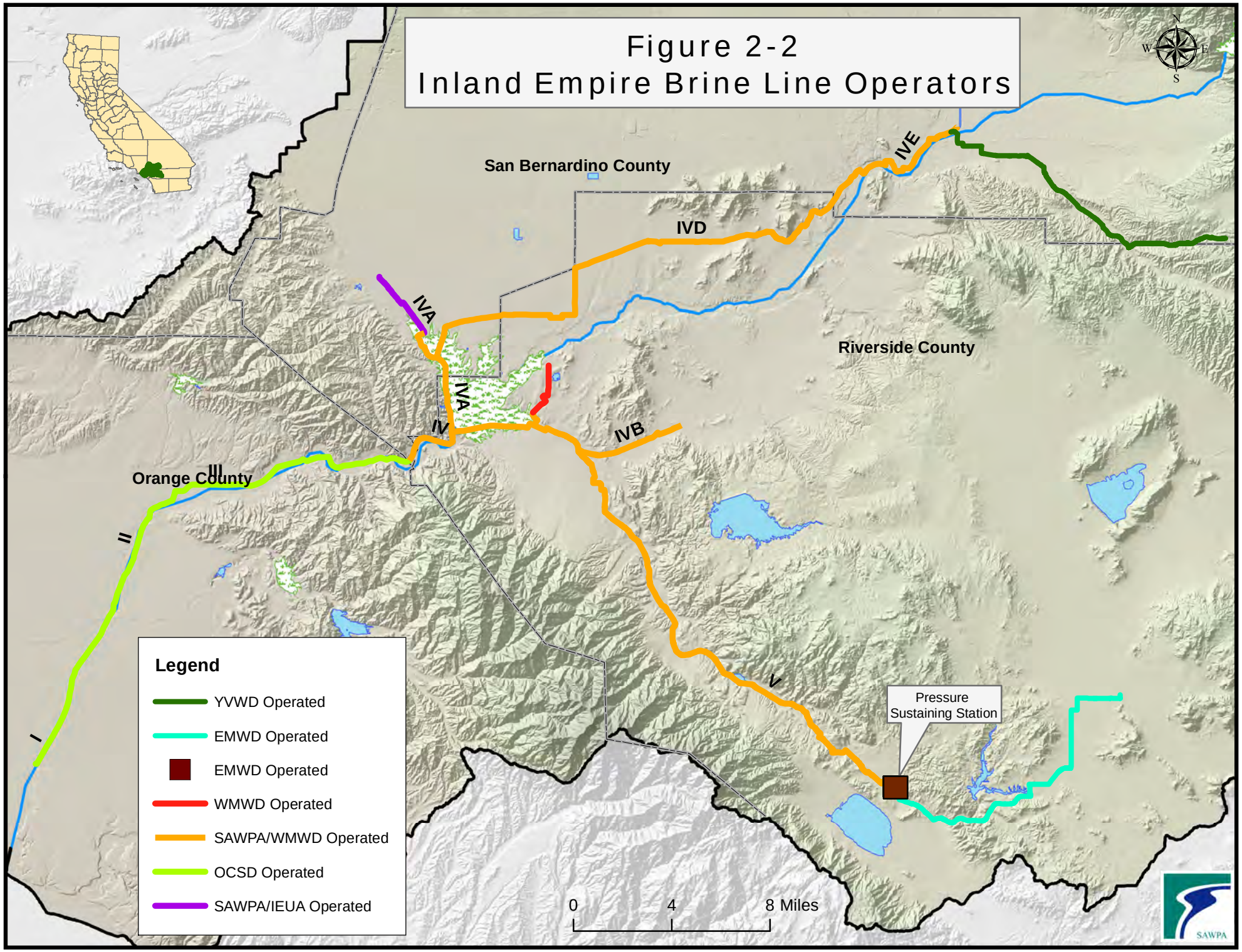

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Dischargers to the Brine Line reaches consist of desalters, industrial dischargers, failsafe connections, domestic dischargers, and indirect dischargers. Of these, the six desalters constitute the majority of the effluent volume in the Brine Line. Since the Brine Line effluent is primarily brine, a SSO has the potential for unique impacts. This unique nature of the Brine Line effluent also requires unique SSO emergency response procedures for SAWPA and member agencies.

2.2 System Hydraulics

Due to the influence of the desalting and industrial facilities, the Brine Line does not experience the typical diurnal flow pattern of a domestic wastewater system. The Brine Line generally operates in either a high or low flow mode. The high flow period occurs when the desalting facilities are discharging at peak production (typically during the summer and/or periods of warm weather), and the low flow occurs when they are discharging at low production or are off-line (typically during the winter and/or periods of cool weather). The volume of flow contributed by non-desalter dischargers does not appear to have a significant effect on the system flow pattern. Figure 2-3 shows the Brine Line flow pattern as observed at the Riverside/Orange County line.

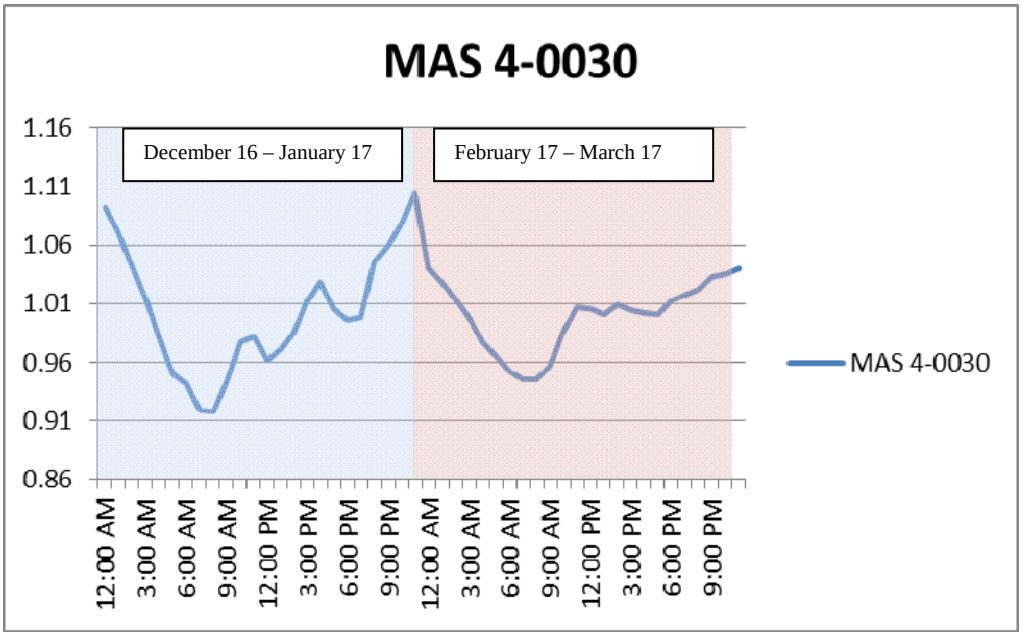


Figure 2-3. Brine Line Flow Pattern as observed at the MAS 4-0030 Portable Flow Meter

Table 2-1 summarizes the average discharges to each Brine Line reach, recorded during the month of September 2017, including domestic, commercial, industrial, desalter and municipal discharges. Complete discharger data for average and cumulative flows for this time period is available in Appendix A.

Table 2-1
Average Flows to Brine Line Reaches, September 2017

Reach	Flow (MGD)
IV[1]	10.89
IV-A (upper, IEUA area)	0.35
IV-A (lower) [2]	6.43
IV-B[3]	4.07
IV-D[4]	6.24
IV-E	0.76
V	1.71

[1]Includes flows from all Reaches

[2]Includes flows from Reaches IV-D, IV-E, and IV-A (upper)

[3]Includes flows from Reach V

[4]Includes flows from Reach IV-E

SAWPA evaluated the capacity of the Brine Line in the January 2006 Brine Line Hydraulic Model and Capacity Assessment (Kennedy/Jenks Consultants) [Updated by SAWPA in 2012].

OCSD has implemented a high flow emergency procedure based on expected rain and available capacity in their facilities (Ocean Outfall, Plant #1, and Plant #2). Appendix Q provides guidance to SAWPA regarding the response to OCSD high flow emergencies.

2.3 Potential Sanitary Sewer Overflow Mechanisms

An SSO is the release of wastewater from a sanitary sewer system. SSOs include discharges of wastewater, either to public or private property outside of the sanitary sewer system. SSOs are caused by blockages, vandalism, contractor error or unusual flow conditions in the sanitary sewer system, whether or not the release reaches the waters of the United States. Backups of privately owned laterals are not considered SSOs unless sewage flows onto public property, such as streets or storm drains, and then only if it is caused by the public sanitary sewer system.

SSOs are also violations of the Federal Clean Water Act (CWA) if they contact waters of the United States, and therefore may be subject to federal enforcement actions.

SSOs can impair the beneficial uses of surface waters, including aquatic life, drinking water supply, body contact and non-contact recreation, and aesthetics. Groundwater beneficial uses, such as drinking water and agricultural supply, can also be affected.

SSOs are considered a nuisance if they meet the following requirements:

- Injurious to health, indecent or offensive to the senses, or obstructing the free use of property so as to interfere with the comfortable enjoyment of life or property;

- Affect an entire community, neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal;

The primary Brine Line SSO mechanism may be damage caused by contractors and equipment. Other mechanisms that cause SSOs include: root, grease and debris blockages; sewer line flood damage; seismic damage; maintenance access structure failure; vandalism; pump station failure or wastewater treatment plant mechanical failure; a power outage; excessive stormwater or groundwater inflow and infiltration; insufficient capacity; increased loading conditions; and, operator error. Age of the system, construction materials, adequate and appropriate facilities, operations and maintenance, source control measures, geology, design, and population growth are all factors that can affect the likelihood of an SSO occurrence.

2.3.1 Seismic Considerations

Many known and unknown, potentially active faults are located within the general area of the Brine Line. These faults have the capability to produce significant ground accelerations which may result in a break and/or failure, and may cause an SSO from the Brine Line. In particular, Reach V runs approximately parallel to the Elsinore fault zone, which runs in a northwest/southeast orientation just south of the City of Corona. This pipeline segment may be high risk for failure due to an earthquake event. The Brine Line also crosses the Yorba Linda fault line in Orange County. Table 2-2 provides information on locations where known faults cross the Brine Line. Figure 2-4 shows the location of these locations.

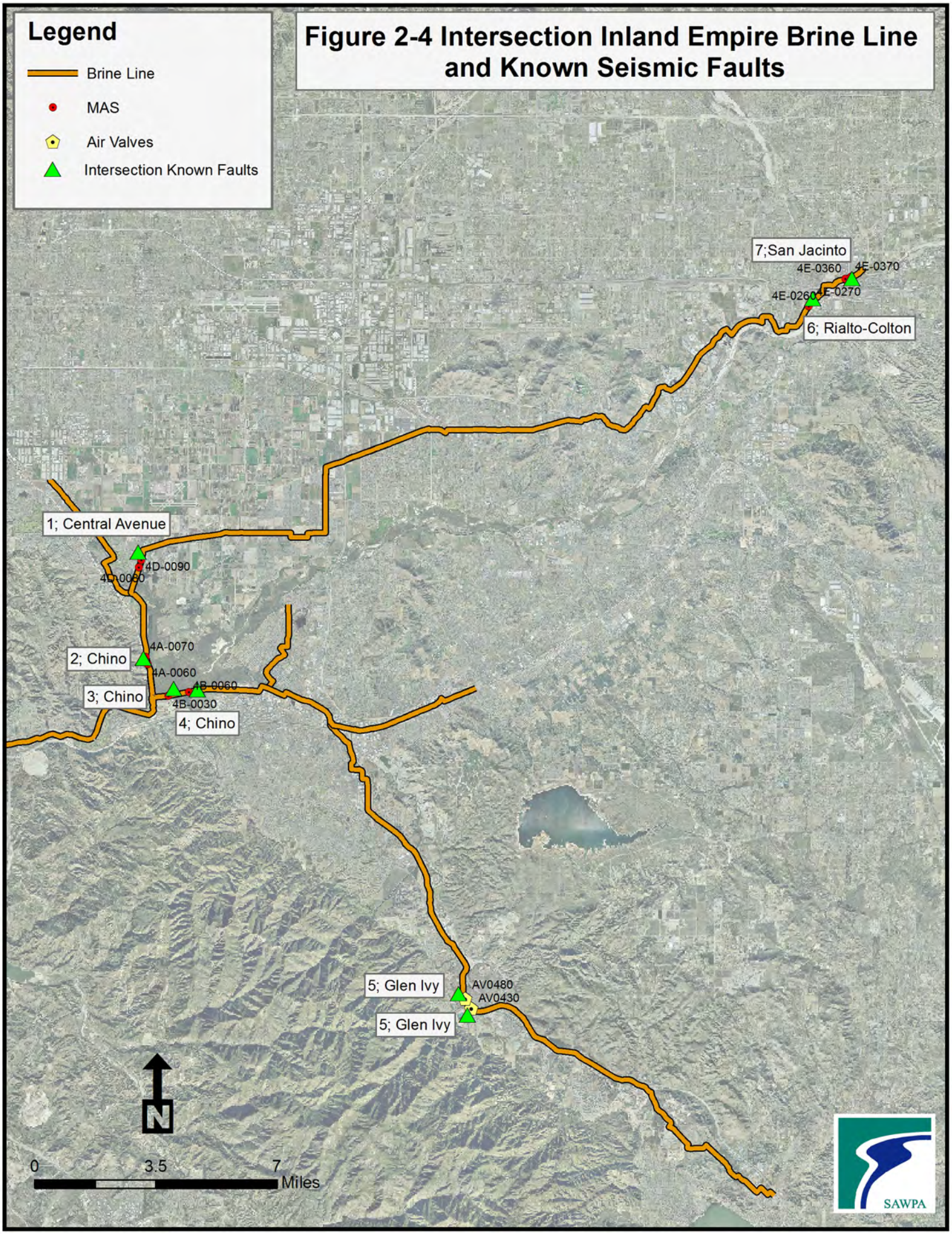
While there is no certainty whether a seismic event will occur along known faults, the information presented in Table 2-2 provides a guide of locations where the Brine Line should be monitored in case of major seismic events. As a general rule, the Brine Line should be monitored when a minimum 3.0 earthquake epicenter is located within 1 mile of the Brine Line. For information regarding earthquakes in the Brine Line areas, including magnitude, please see http://earthquake.usgs.gov.

Table 2-2 Major Earthquake Faults in Relationship to the Brine Line

ID	Fault	Location	
		From MAS	To MAS
1	Central Avenue	4D-0090	4D-0080
2	Chino	4A-0070	4A-0060
3	Chino	4B-0060	4B-0030
4	Chino	4B-0060	4B-0030
5	Glen Ivy	AV 430	AV 480
5	Glen Ivy	AV 430	AV 480
6	Rialto-Colton	4E-0270	4E-0260
7	San Jacinto	4E-0370	4E-0360

2.3.2 Increased Loading Conditions from Prado Reservoir and Dam

A portion of the Brine Line is located in the floodplain of the Prado Dam. The U.S. Army Corps of Engineers (USACE) is currently constructing a project to raise Prado Dam. Once completed, the potential increased surface water elevation in Prado Reservoir during a flood event will create additional burden on Reaches IV-A and IV-B. Should there be a failure in portions of Reaches IV-A and IV-B that lie beneath Prado Reservoir, it is likely that high flood water flows could potentially cause an SSO event at unsealed maintenance access structures downstream of Prado Dam. As part of the Prado Dam project, two knife gate valves have been installed on Reaches IV-A and IV-B just downstream of Prado Dam to mitigate this impact issue. If a break is confirmed in portions of Reaches IV-A and IV-B that lie beneath Prado Reservoir, these gates would be closed to prevent further potential spillage in the Lower SARI Reaches.



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2.4 Sanitary Sewer Management Plan Required Elements

The WDR states that "an SSMP must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions."

This OERP is intended to identify the required measures to protect public health and the environment. This OERP meets the intent of the WDR by including the following items:

- Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- A program that ensures an appropriate response to all overflows;
- Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. County health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the State Water Resources Control Board's (SWRCB) WDR Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this OERP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or National Pollutant Discharge Elimination System (NPDES) permit requirements. The SSMP identifies the officials who will receive immediate notification;
- Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

2.5 Project Planning Activities

Prior to undertaking any field activities which could increase the risk of an SSO (such as excavation near or around the Brine Line, potholing, etc.) a site visit is recommended to identify existing storm drains, location of potential containment areas, and drainage patterns (if possible). A site-specific sketch should be prepared indicating the work area and any other features identified as part of the site visit. Appendix N has a sample sketch.

Section 3
Emergency Response Plan

3.1 Overview of Overflow Emergency Response Plan

The Brine Line OERP is intended to identify what constitutes a Brine Line SSO and to define emergency procedures for responding to an overflow event. The OERP must include an organization chart with specific contact information, notification and communication plans, impact mitigation and containment procedures, emergency operations, and vendor, supplier, and response contractor lists, as described in the following sections.

3.2 Santa Ana Watershed Project Authority Overflow Emergency Response Plan Organization

Figure 3-1 provides key Brine Line ERP contacts within the SAWPA organization as well as its five member agencies. Key contact names and telephone numbers are provided for SAWPA and each member agency. The NIMS Incident Command System organizes response in terms of a command element and subsequent section elements such as operations and finance. Within each section element is a designated section chief responsible for organizing and assuring the execution of the appropriate response within each section element's area of expertise. All SAWPA staff responding to an overflow emergency should have completed both FEMA IS-100.B (and IS-100.PWb for Public Works) Introduction to Incident Command System and FEMA IS-700.A National Incident Management System (NIMS) An Introduction courses.

3.2.1 System Responsibility

In some instances, SAWPA contracts operation of the Brine Line system to EMWD, IEUA, and WMWD. Figure 2-2 shows the limits of responsibility of the operation of the Brine Line system. During emergency situations, the agency assigned for responsibility will take the lead in response to any SSOs. EMWD responsibility is limited to the Pressure Sustaining Station. IEUA is responsible for operation and response to any emergencies upstream of Brine Line Maintenance Access Structure 4A-0390. SAWPA, with assistance from WMWD, is responsible for the remainder of the system. This assignment of responsibility does not preclude, however, any of the agencies in providing any assistance during SSOs in any portion of the Brine Line system.

3.3 Notification and Response Procedures

Figure 3-2 contains a flow chart showing the communications protocols that should be followed in the event of an SSO. Internal communications will occur when SAWPA or one of its member agencies receives a report that an SSO has occurred.

Once an SSO report is received, SAWPA is to notify internal agencies such as Valley District, IEUA, WMWD, and EMWD. If the SSO is confirmed by field verification

(usually through the use of a TDS/Conductivity meter), external agencies, including the Office of Environmental Safety, the Regional Water Quality Control Board (RWQCB), the Riverside County Department of Public Health, and the San Bernardino County Department of Public Health should be contacted. Note that internal notification responsibilities within Figure 3-2 may shift amongst SAWPA and its member agencies as communication will vary based upon which agency receives the initial report.

During a Brine Line SSO, SAWPA may also temporarily suspend industrial and desalter discharges to reduce the total flow in the Brine Line. This practice would assist in minimizing the size and number of required bypass pumping operations. Appendix B contains current contact names and telephone numbers for all industrial and desalter permit holders as of winter 2017, organized by Member Agency and Brine Line reach. SAWPA continually updates this database electronically. Should the Brine Line SSO warrant such action, Member Agencies will be responsible for using this database to contact individual permit holders within their service areas to inform them of the temporary discharge suspension. SAWPA has developed an emergency telephone tree (Appendix J) to expedite contact with all dischargers in case a system-wide shutdown is required.

The direct user discharge permit contains a requirement that the permittee shall provide SAWPA with a list containing the names and phone numbers of contacts who can be reached 24 hours a day in the event of an emergency with a Brine Line discharge. The contact list must be updated biannually (February and August.) A list of contacts for the Brine Line dischargers is provided in Appendix B.

Figure 3-3 provides the SSO Response Procedure and defines the necessary actions and procedures once a spill occurs. Response and notification procedures vary depending upon the ownership of the infrastructure and from where the SSO originates. When spills are reported, a response crew must be dispatched to verify and contain the spill. Once the spill has been contained, responsible parties are notified of the occurrence and an incident report or online field report must be prepared. Documentation of the SSO and the contaminated area should include photographs, measurements, and sampling, if appropriate. Mitigation may include bypass pumping, repairs, clean up and disinfection, and post-event monitoring. If the event originates from the SAWPA owned portion of the Brine Line, the Regional Board must be notified and draft and final online reports must be filed.

SAWPA's pollution insurance requires notification of an SSO if a claim will be submitted. A notice must be sent via fax or via e-mail. The 24 Hour Emergency Response Hotline should be contacted as well. All contact information can be found in Figure 3-2.

In addition, SAWPA is part of both the Emergency Response Network of the Inland Empire (ERNIE) and CalWARN; both are regional emergency response networks. Both ERNIE and CalWARN provide resources from member agencies to assist during emergencies.

Figure 3-1

SAWPA Overflow Emergency Response Plan
Command & Management Organization Chart

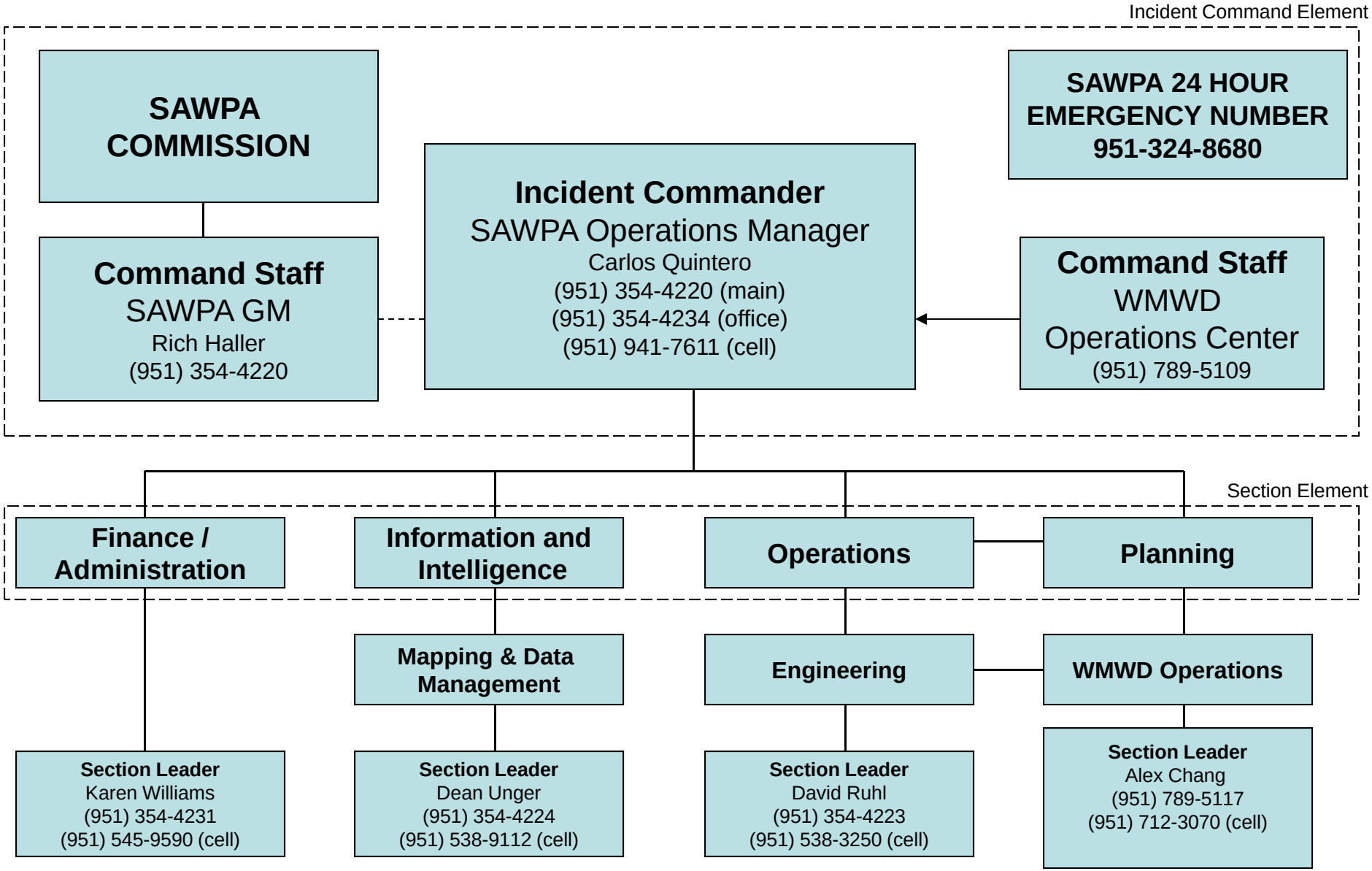
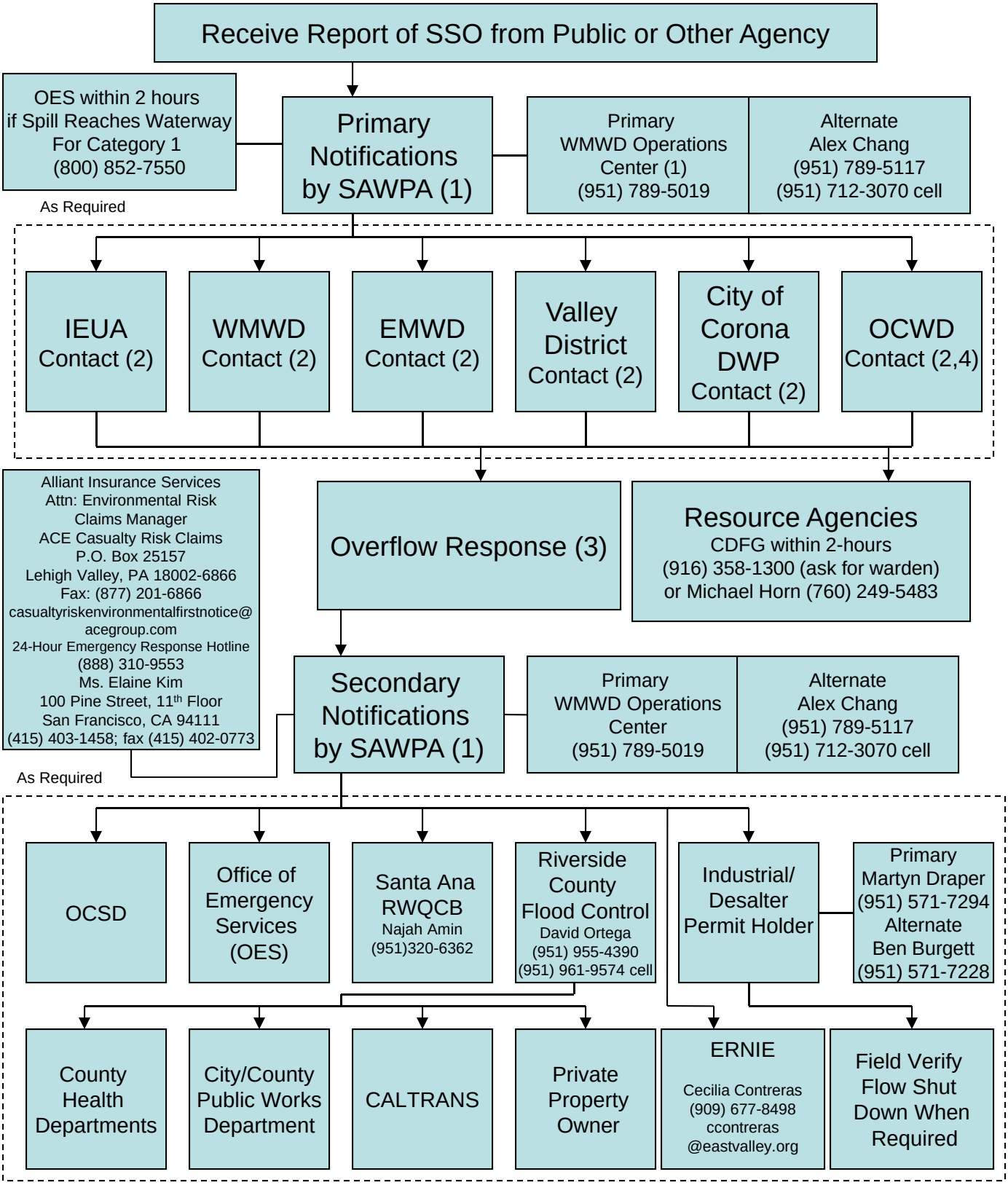


Figure 3-2

SAWPA OERP Communications Protocol



(1) Initial communication will vary based upon who receives initial report. Off-hours initial communication will be routed through the WMWD Operations Center.
(2) Notify appropriate agency depending upon location of problem. Reference Appendix B for contact information.
(3) See Figure 3-3.
(4) Report any spill or discharge to the Santa Ana River or its tributaries to OCWD FHQ Manager (714)378-3328 ofc (714)904-9092 cell.
(5) OCWD Dir of Water Quality (714)378-3281 ofc (714)337-3908 cell and the OCWD Operations Center (714)378-3240.

3.4 Impact Mitigation and Containment Procedures

When an SSO occurs, all feasible steps must be taken to prevent impacts including controlling or limiting the volume of untreated or partially treated wastewater discharged, terminating the discharge, and recovering and properly disposing of as much of the SSO volume as is possible, including any wash down water that is used.

In the event of a failure in a segment of the Brine Line, upstream permitted dischargers to the Brine Line will be required to stop flow while the pipeline is repaired. The direct user discharge permit requires the permittee to develop and annually (January) submit to SAWPA a contingency plan to either cease discharging to the Brine Line in the event of an emergency, or reroute discharge to a local Publicly-Owned Treatment Works (POTW) or other approved alternative. A list of all contingency plans is provided in Appendix I.

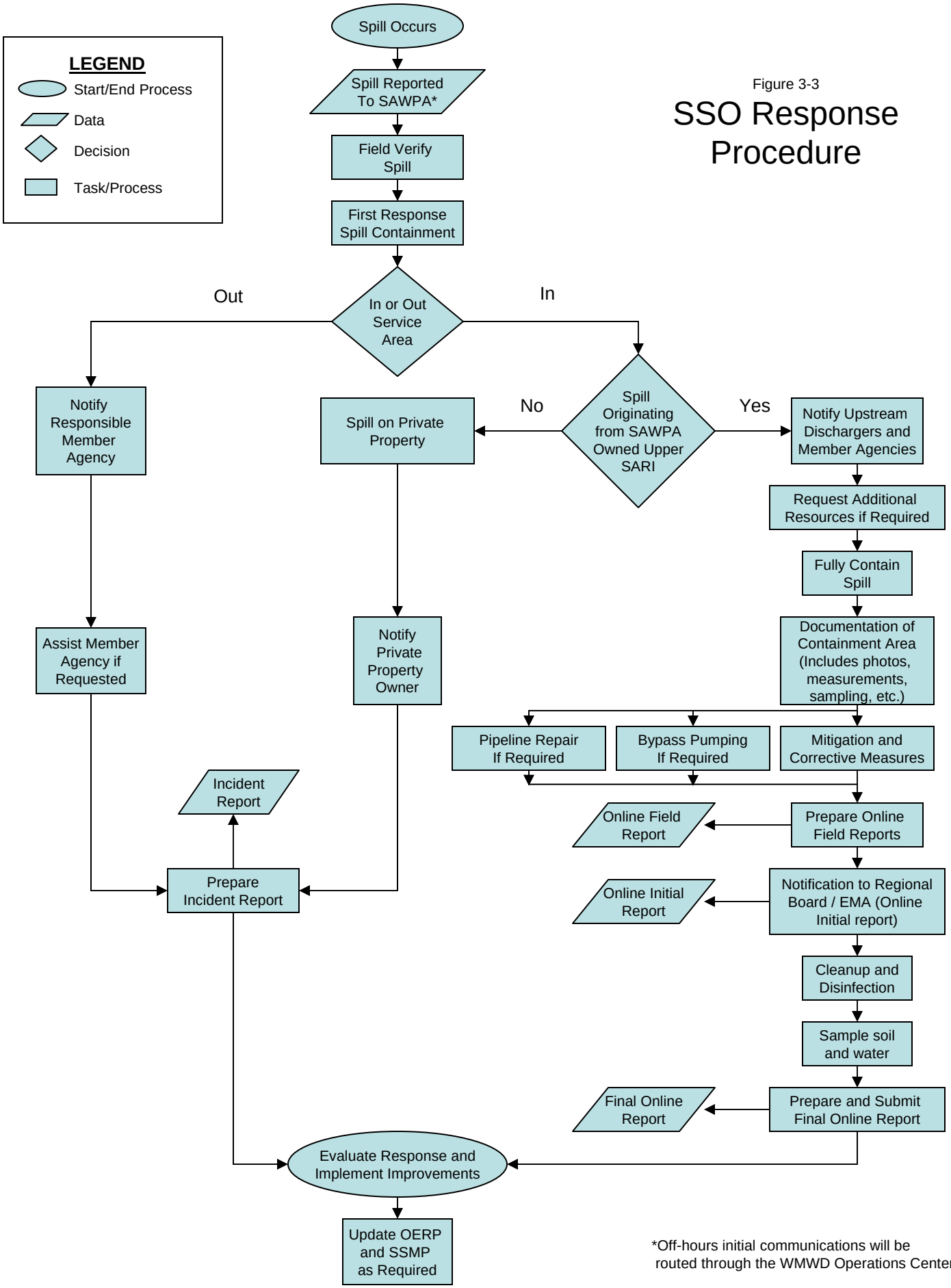
Desalters are required by their discharge permit to cease discharge to the Brine Line if deemed necessary in an emergency situation by SAWPA. During the winter of 2005, the RWQCB clarified that high total dissolved solids (TDS) discharge cannot be diverted to a local POTW as part of the bypass pumping scenario if the diversion will result in exceeding wastewater treatment plant (WWTP) permit limits. SAWPA recognizes that periods of extended desalter shutoff will be difficult during summer months due to the high demand for potable water. Repairs will be initiated as soon as possible and the duration kept as short as possible. However, a large failure could keep the Brine Line out of service for a significant amount of time.

Bypass pumping would be required for the remaining flow from domestic areas that cannot be shut off. SAWPA would be able to store flow within the Brine Line for a limited period while bypass pumping is set-up and desalter and power plant flow is shutdown. No portion of the Brine Line will be plugged if this will create an overflow anywhere upstream of the system.

Should an SSO occur in which untreated or partially treated wastewater enters the storm drain system, all feasible steps must be taken to prevent wastewater from discharging to flood control channels and waters of the United States, by blocking the storm drainage system and removing the wastewater from the storm drains.

Figure 3-3

SSO Response Procedure



*Off-hours initial communications will be routed through the WMWD Operations Center.

Mitigation and containment activities may include:

- Interception and rerouting of untreated or partially treated wastewater flows around the failure that produced the SSO;
- Vacuum truck recovery of SSO and wash down water;
- Cleanup of debris at the overflow site;
- System modifications to prevent future SSOs in the same location;
- Sufficient sampling to determine the nature and impact of the discharge; and
- Public notification to minimize public exposure to the SSO.
- Closure of Brine Line mainline valves to reduce SSO volume.

3.4.1 Response Crew Responsibilities

A response crew, which may include SAWPA, IEUA, EMWD, OCSD, WMWD, Valley District, City of Corona DWP staff, ERNIE and CalWARN members, as well as contractors, should be dispatched to the overflow site to conduct mitigation and containment activities. The first personnel who arrive have the responsibility of protecting public health and safety to the maximum extent possible. If it is determined that the overflow is not SAWPA's responsibility, however there is imminent danger to public health, public or private property, or the quality of waters of the United States, then emergency action should be taken by SAWPA's crew until responsibility is transferred to the appropriate jurisdiction.

The response crew should take the following actions upon arrival at an overflow location:

- Determine the cause of the overflow;
- Take immediate action to stop the overflow. If an overflow on private property threatens public health, extraordinary measures may be taken to protect public health;
- Identify and request any needed assistance or resources to determine the overflow cause and prevent further discharge;
- Estimate volume of the SSO to the nearest 100 gallons;
- Determine if private property is affected; and

- Request additional personnel, materials, supplies, or equipment that will expedite and minimize the impact of the overflow.
- See response checklist contained at the beginning of this document for a detailed listing of response tasks.

3.4.2 Cleanup

Sewer overflow sites must be thoroughly cleaned after an overflow event such that no identifiable residue remains, such as sewage solids, rags, and other debris. Solids and debris must be collected for proper disposal.

In order to properly clean up an SSO and mitigate potential effects, several actions may be taken, including but not limited to:

- Application of absorbent material;
- Excavation and disposal of affected soil and used absorbent;
- Flushing of the overflow site with clean (generally potable) water;
- Application, containment and recovery of any chlorinated wash-down water; and
- Return of all wash-down water to the Brine Line.

Disinfection may be required in instances where a ponded area of sewage cannot be pumped dry or sewage has mixed with additional standing water. Disinfectants may include bleach or high-test hypochlorite (HTH). A dosing of 10 to 12 ounces of HTH per 100 square feet of pond surface is generally appropriate for relatively shallow ponds. Deeper ponds may require higher dosages, which must be determined by SAWPA staff, the local health department, or the local water quality authority. Chlorine products are not acceptable for use in a body of water containing fish or other aquatic life, unless the local wildlife management authority has specifically instructed otherwise.

In cases where complete recovery of sewage is not practical and severe oxygen depletion is expected in existing surface waters, the use of portable aerators may be required.

SAWPA has an on-call emergency response provider responsible for removal of brine, containment, and remediation.

Locations for discharge of recovered brine can be found in Appendix K.

3.4.3 Public Notification

In the event of a sewer overflow, SAWPA must determine the need to post notices of polluted surface water bodies or ground surfaces in order to protect public health. If necessary, public notices should be provided in alternative languages. Notices may only warn of potential public health risks due to sewage contamination, but do not

necessarily prohibit the use of the affected land or water for recreation, unless otherwise stated. The postings must be displayed for five days.

Public notification may include signs, hangers on the front doors of potentially affected residences and businesses, or pre-scripted news releases to the printed or electronic news media for immediate publication or airing on local radio and/or television stations as appropriate.

3.4.4 Traffic and Crowd Control

Traffic and crowd control measures vary based on the size and potential impact of the overflow event. When appropriate, local police, fire department, and City contacts should be notified to aide in addressing traffic and crowd control issues. As a general rule California Manual on Uniform Traffic Control Devices (MUTCD) guidelines (latest edition) should be followed. These contacts are available for each Brine Line reach in Appendix G.

- Small Spill (Less than 1,000 gallons)
  - Setup traffic cones to direct traffic from spill area
  - Use staff personnel to control traffic and pedestrians
- Medium Spill (Greater than or equal to 1,000 gallons and less than 10,000 gallons)
  - Contact Member Agencies as needed
  - Perform lane closures as needed
  - Close any affected entrances or exits from all public and private facilities
  - Place proper signage for any lane closures including contaminated area signs
  - Inform local law enforcement and/or fire department of lane/road closures and traffic control
  - Use caution tape and barricades to protect pedestrians from contaminated areas
- Large Spill (Greater than or equal to 10,000 gallons)
  - Contact Member Agencies as needed
  - Inform local jurisdiction (City officials, police and/or sheriff's department) of any need for road closures and traffic control
  - Inform local fire department of lane and road closures
  - Delegate the responsibilities to Member Agency team members to inform the public of hazards
  - Use signage to inform public of potential hazards to public health and safety

- Block public access to hazards using barricades, cones and caution tape

3.4.5 Monitoring

Standard Operating Procedures (SOPs) should be used for the testing of receiving waters to assess the qualitative and quantitative extent (pollutant load) of the discharge and to determine the effectiveness of the containment and cleanup to assess when the discharge of pollutants no longer poses a health or water quality concern. An ongoing monitoring program should be in place to include water quality testing for pollutants of concern for each Brine Line reach. A list of analysis required is provided in Appendix H. Any additional sampling requirements shall be identified in the sampling plan prepared for each SSO.

Analyses should be performed by approved methods at the lowest detection limit that may be achieved based on the water sample and potential matrix interferences. This may require some samples near the point of release to be analyzed by wastewater methods that have higher detection limits and are capable of processing "dirty" matrices. Further downstream of the release point, the water samples may be analyzed by drinking water methods evaluated at very low detection limits. Samples should be representative of the affected area and should be collected at or near the point of discharge from the Brine Line and locations downstream. The frequency of monitoring should ensure capture of appropriate flow and water quality conditions, and should continue until ambient (pre-spill) conditions are restored in the river and downstream recharge basins, if they were impacted by the SSO event.

A general description of the monitoring procedures for SSO impacted receiving waters includes the following activities:

- Conduct water quality sampling within 48 hours after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters. The water quality results are required to be uploaded into CIWQS.

- A sampling plan should be prepared, identifying at a minimum, the location where the samples will be taken (including soil samples), the list of parameters for testing, the frequency of testing, the person responsible for sample collection, the laboratory where the samples will be taken. Each sample locations should have a unique identification code.

- Sample receiving waters upstream of the SSO discharge point using drinking water analysis methods to provide a snapshot of ambient (pre-spill) conditions;

- Sample receiving waters immediately downstream of the SSO discharge point using wastewater analysis methods;

- Continue sampling downstream of the SSO discharge point at periodic locations using wastewater and/or drinking water analysis methods to verify the extent of the SSO plume within the receiving waters (frequency and distance between sampling locations will vary with the size of the SSO); and

- Continue sampling receiving waters using wastewater and/or drinking water analysis methods at periodic time intervals until ambient (pre-spill) conditions have been restored (intervals for sampling locations will vary with the size of the SSO and the extent of the cleanup efforts).

3.5 Emergency Operations

3.5.1 Bypass Pumping

Manhole-to-manhole (also known as Maintenance Access Structures or MAS) bypass pumping is the anticipated method of emergency response for routing Brine Line flows around failed segments of the Brine Line. If the MAS within the subject reaches are accessible in the event of a failure, these bypass pumping systems would be capable of routing effluent through an alternate conduit from MAS upstream of the failure to MAS downstream of the failure, thereby isolating the problematic section of the Brine Line.

The practice of temporarily suspending industrial and desalter permits to reduce the total flow in the Brine Line will minimize the size and number of required bypass pumping operations. A requirement has been added to the discharger permits to prepare a contingency plan in the event of a catastrophic failure of the Brine Line requiring immediate shut down of flows into the Brine Line. All contingency plans from dischargers are provided as an appendix to this Emergency Response Plan.

Three key bypass pumping configurations have been identified for Brine Line Reaches IV-A, IV-B, IV-D, IV-E, and V. The configurations would serve to reduce overall flow should a break occur in the downstream segments of the Brine Line near Prado Dam, and may also reduce the overall flow rates reaching the Lower SARI by routing flows into nearby WWTPs. Appendix C contains Figures 1-5 through 1-11 from the Brine Line ERP, which show the identified configurations. Appendix C Figure 1-5 shows a configuration that routes domestic flow from Reach IV-B, including the California Rehabilitation Center (CRC) Lateral, into the City of Corona WWTP No. 1. Note that as of March 2015, the CRC flows have been diverted to the Western Riverside County Regional Wastewater Authority treatment facility. However, the lateral is maintained as an emergency connection. In Appendix C Figure 1-6, domestic flows from Reach IV-B, including the CRC Lateral, are routed to the West Riverside County Regional Wastewater Authority (WRCRWA) sewage lift station. Appendix C Figures 1-7 shows the alternative to divert flows from Reaches IV-B and V to the WRCRWA lift station. Figures 1-8 through 1-11 show three alternatives and area details for diverting domestic flow from Reaches IV-A and IV-D/E to the IEUA Regional Plant 5 (RP-5) Wastewater Treatment Facility. Figure 1-12 provides a schematic for establishing a bypass system on the section of Reach 5 between Tom Barnes and Maitri Road. A summary of each of the proposed alignments is included in Table 3-1.

Based on availability at the time of the SSO occurrence, as well as the general magnitude of the required bypass pumping system, emergency contractors may be able to utilize small-diameter (6-inch) flexible PVC piping on the suction and discharge sides of the bypass pumping operation to save the setup time associated with laying rigid steel pipe or fusing HDPE pipe. This flexible piping is typically rated up to 50 psi, and when

assembled, is nearly watertight. Using a manifold, for example, up to twelve 6-inch lines may be connected in parallel to a single 16-inch pump to achieve greater flow rates. A full bypass pumping system utilizing this type of piping may be assembled within one or two days. Should flow rates or specific configurations require greater pipe diameters or piping distances, conventional steel piping may be supplied to the site for assembly. Depending on the complexity of the bypass pumping scenario, this process may take up to one or two weeks.

Under wet weather conditions and/or conditions removed from a source of electricity (e.g. generators), diesel pumps may be supplied over electric pumps. Certain diesel pumps, while providing an additional measure of safety over electric pumps in wet weather conditions, can also function quietly when sound-attenuation devices are used. Under lower head conditions, one 16-inch, 500-hp diesel pump may provide up to 10,000 gpm of pumping capacity. Under greater required suction heads and/or pumping distances, multiple pumps maybe used in series (i.e., booster pumps) to maintain the same flow rate. Standby/redundant pumps should be furnished to prevent system downtime.

Diesel pumps and diesel generators (to power electric pumps) will require refueling if operated for extended periods. Depending on the capabilities of the specific emergency response contractor(s), supplementary skid-mounted fuel tanks may be able to be delivered to the bypass pumping site (according to bypass pumping contractors, up to 750 gallons/tank) to allow continuous operation of the pumps for extended periods without refueling. Depending on applicable regulations, secondary containment structures (for example, polyurethane-coated fabric containment berms) may be required for these tanks. As an alternate source, tanker trucks may be able to be contracted to provide scheduled deliveries of fuel to the jobsite.

Several items must be considered when planning for bypass pumping operations including:

- Peak and average flow rates that will require pumping after flow minimization efforts have occurred;
- Pump site access at both the suction and discharge points;
- Pipeline alignment, including traffic control and crossings of either roadways or driveways;
- Availability of equipment;
- Time required to install equipment; and
- Coordination with local jurisdictions.
- Availability of power or need for diesel engine driven pumps and fuel storage.

To the maximum extent possible, pre-event coordination with local jurisdictions should occur through the use of Mutual Aid Agreements and coordination with Caltrans and potentially affected Cities.

Table 3-1
Summary of Potential Bypass Pumping Alignments (Inland Empire Brine Line)[1]

Applicable Events and Conditions[1]	Bypass Location (suction)	Purpose and Description	Suction MH		Static Suction Head[2] (ft)	Discharge Elevation		Static Discharge Head[3] (ft)	Approx. Bypass Length (ft)	Brine Line Reach Capacity[4] (MGD, gpm)	Estimated Flows[5] (MGD, gpm)		Estimated Horsepower (hp)		Est. Flows Less Upstream Desalters[6] (MGD, gpm)		Est. Horsepower Less Upstream Desalters (hp)[6]	
			Rim	Flow Line		Rim	Flow Line				Average	High[8]	Average	High	Average	High[8]	Average	High
All Conditions	Reach IV-A MH 4A-0400 Sta. 267+00 (Fig. 1-8)	Diverts Reach IV-A flow to PS @ RP-2, pumps to RP-5	552.0	532.0	20.0	552 (RP-2 PS)		0	100	18, 12499 (Reach IV-A)	.8, 208	1.0, 662	5	7.5				
All Conditions	Reach IV-D MH 4D-0120 Sta. 76+40 (Fig. 1-9)	Diverts Reach IV-D/IV-E flows to IV-A and on to RP-5	558.0	531.4	26.6	545.0 (MH 18 Sta. 257+04)	528.0 (MH 18, Sta. 257+04)	-14.0	4632	20, 13888 (Reach IV-D)	1.77, 1226	2.12, 1472	10	15				
All Conditions	Reach IV-D MH 4D-0240 Sta 80+30 (Fig 1-10, 1-11)	Diverts Reach IV-D/IV-E to Kimball interceptor	591.0	573.4	17.6	619.0		28.0	3750	20, 13888 (Reach IV-D)	1.77, 1226	2.12, 1472	10	15				
Seismic or Low Flood Stage only	Reach IV-B MH 12 Sta. 136+62 (Figure 1-5)	Diverts Reach IV-B/V flow to Corona WWTP No. 1	527.0	512.6	14.4	536 (Corona WWTP)		9.0	2710	26, 18054 (Reach IV-B)	1.3, 902	1.5, 1042	10	15				
All Conditions[10]	Reach IV-B MH 22 Sta. 190+06 (Figure 1-6)	Diverts CRC Lateral flow to WRCRWA Lift Sta./WWTP	549.0	537.2	11.8	563 (Lift Sta.)		14.0	3700	1.5, 1041 (CRC Lat.)	1.3, 902	1.5, 1042	10	15				
All Conditions	Reach IV-B MH 31 Sta. 230+75 (Figure 1-7)	Diverts Reach IV-B/V flow to WRCRWA Lift Sta../WWTP	563.0	554.3	9.7	563 (Lift Sta.)		0	65	26, 18054 (Reach IV-B)	0.5, 347	1, 694	5.0	7.5				
All Conditions	Reach 5 Between Tom Barnes and Maitri Rd. (Fig 1-12)	Diverts Reach 5 Flows	Varies	Varies	Varies	Varies		Varies	4500	10, 7000	3, 2000	4, 2800	N/A	N/A				

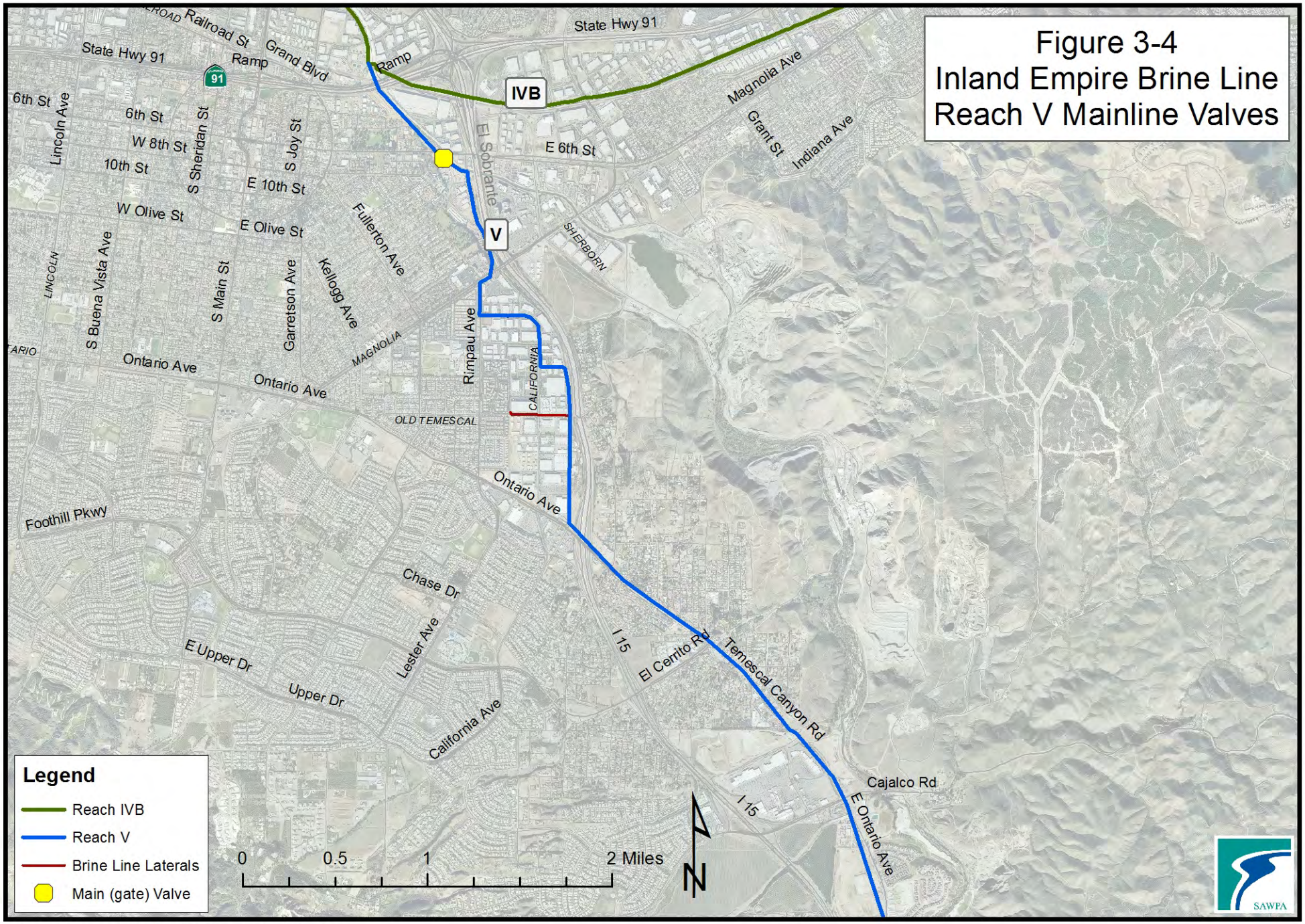
1. See Figures 1-5 through 1-8 in Appendix C for proposed bypass piping alignments.
2. "Worst-case" static suction head measured from manhole flow line to rim. Actual suction head will likely be much less as flow backs up in Brine Line following plugging of line.
3. Static discharge head calculated as Rim Elev. Of Discharge minus Rim Elev. Of Suction. Does not include dynamic losses. Total Dynamic Head (TDH) requirement must be calculated on a case-by-case basis by Emergency Response Contractor.
4. Estimated maximum pipeline capacities.
5. Flow data current as of August 2009 for Reaches IV-A, IV-B/V, IV-D/E, and CRC Lateral. These values do not include desalter of power plant flows due to RWQCB restrictions.
6. N/A
7. Flows assume no upstream bypass operations (e.g. from MH #22 or MH #31) are in place. Flow, therefore, is calculated as IV-B/V including DFA, CRC Lateral Flow, and Corona Energy Partners.
8. "High" flows calculated using peak day factors for Brine Line Reaches. Peak day factors were obtained from the November 30, 2006, Memorandum from Kennedy/Jenks Consultants.
9. Flow does not include DFA, CRC Lateral or Corona Energy Partners contributions as these dischargers are downstream of this bypass pumping point.
10. The CRC has diverted flows to the WRCRWA plant, the CRC lateral is available for emergency discharges.

3.5.2 Pump and Haul Initial Response

As described in Section 2.1, the unique nature of the Brine Line flows requires unique SSO emergency response procedures for SAWPA and member agencies. Liquid and debris recovered by vacuum truck from a Brine Line SSO cannot be discharged for disposal into any of the surrounding domestic sanitary sewer systems. Since most of the effluent in the Brine Line is desalter brine, any effluent escaping the Brine Line must be discharged back into the Brine Line itself. To facilitate this process, SAWPA installed discharge tees and valves on Reach V. The location of these Reach V discharge valves has been provided on Figure 3-4, Figure 3-5, and Figure 3-6. Figure 3-7 identifies the recently installed (2016) valves as part of the Reach 5 Rehabilitation Project. Isolations valves between Tom Barnes and Weirick are located approximately every 4,500 ft. Once the project is completed, isolations valves will be installed between Tom Barnes and Maitri Road. Figure 3-8 shows a typical set-up for the recently installed isolation valves. Figure 3-9 shows the mainline isolation valves on Reach 4. Using specialized blow offs and couplings, response crews can discharge recovered waste into the Reach V tees and valves. Air Vac AV1020 (near the intersection of El Sobrante and 6th Street, in the City of Corona) has been modified to allow discharge back into the system through a 4-inch valve. Additionally, recovered brine can be discharged back in to the system at the juncture of Reach V and Reach IV-B (MAS 4B-490) and on Reach 4B Upper at Radio Road (MAS 4B-0590) directly into gravity MAS (see Appendix K for a disposal location map).

Typical pump and haul initial response activities for a Brine Line SSO would include:

- Response crews and vacuum truck equipment arrive at the SSO site;
- Implement first response mitigation and containment activities;
- Vacuum truck recovery of SSO and wash down water;
- Haul recovered SSO liquid, debris and wash down water to Reach V discharge tees or valves;
- Address traffic control and access to discharge point (Reach V tees or valves) along the Brine Line;
- Connect vacuum truck to discharge tees using specialized blow offs and couplings; and,
- Discharge recovered Brine Line SSO liquid, debris and wash down water into Reach V or Reach 4B Upper of the Brine Line.



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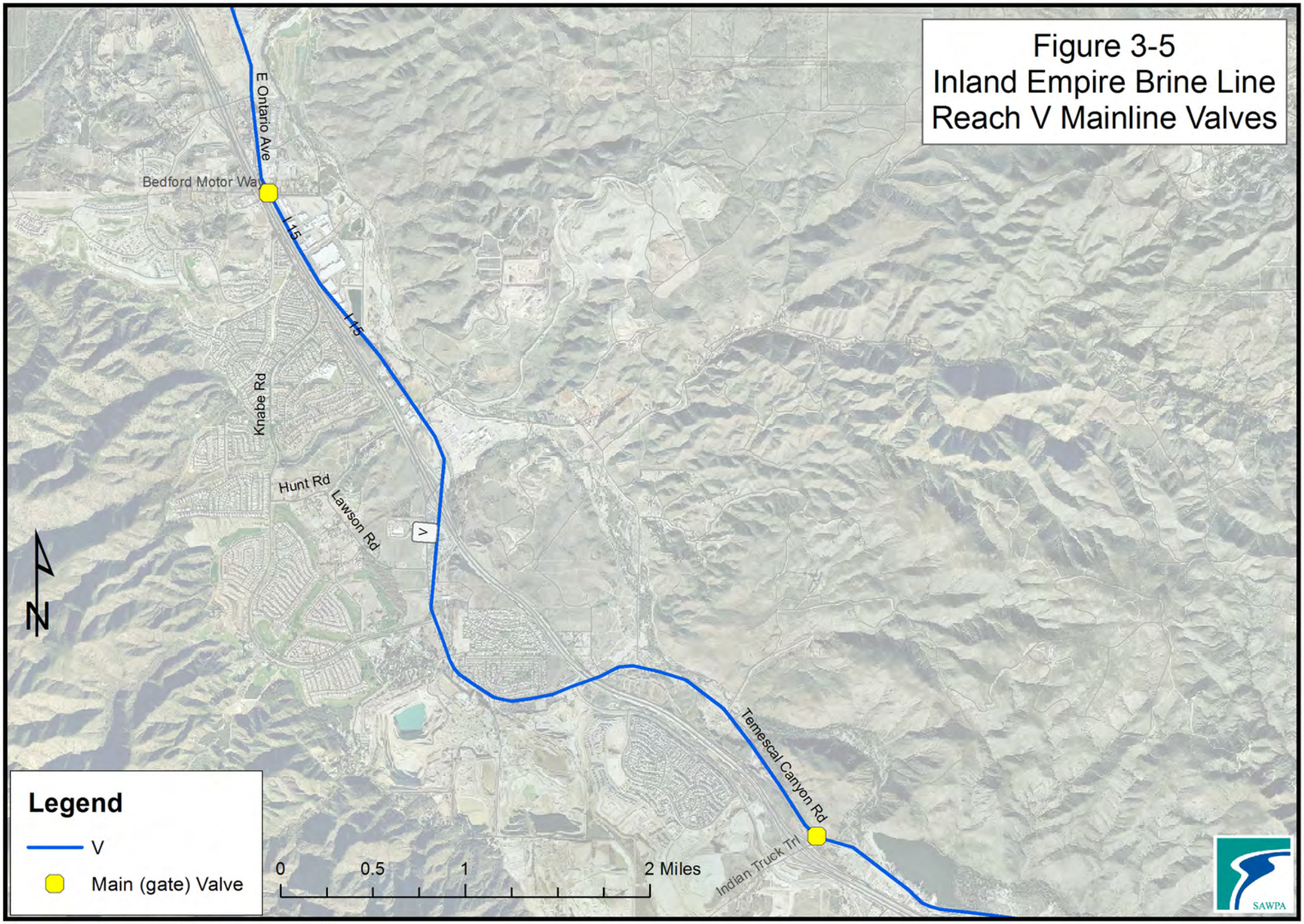

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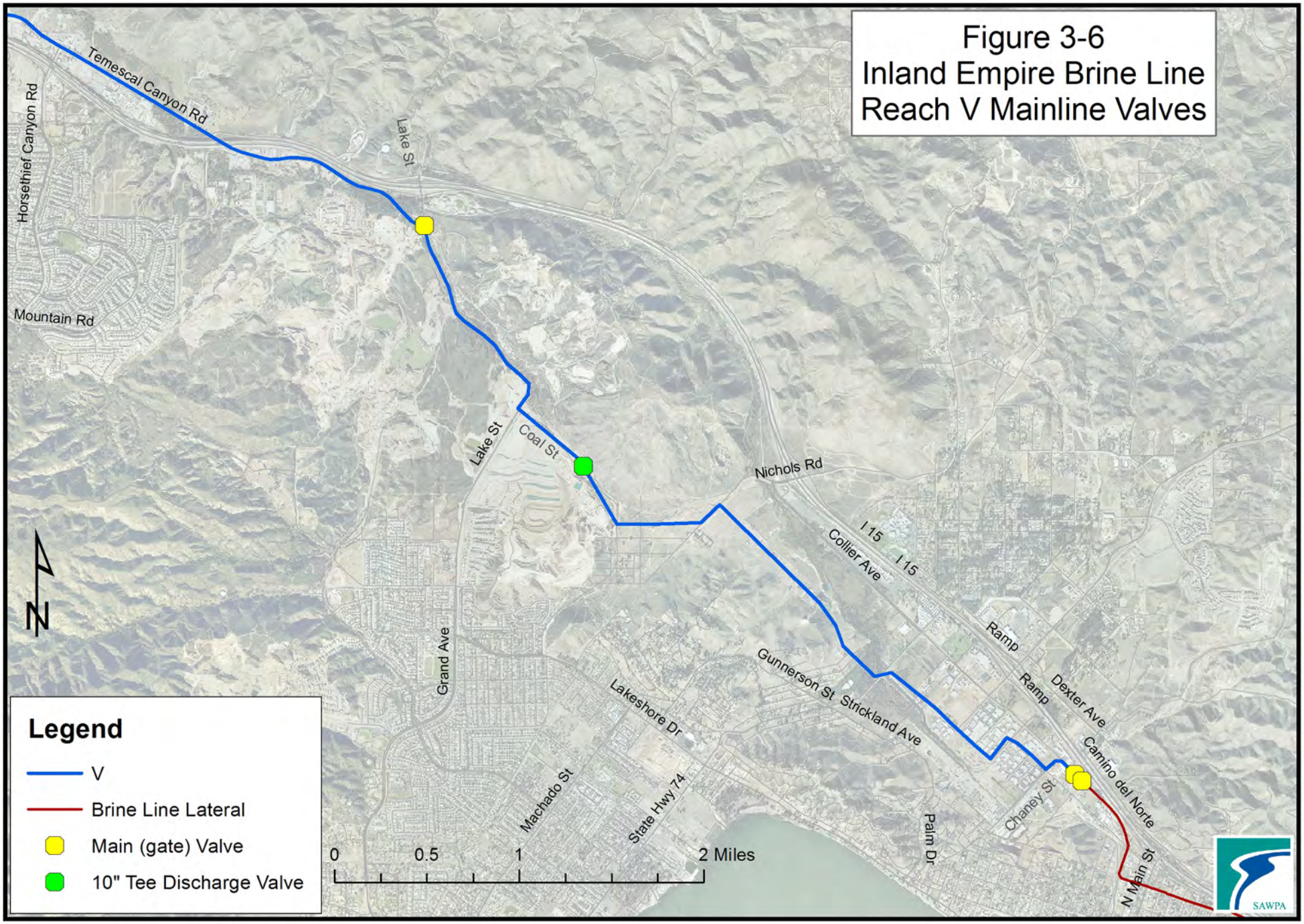

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Figure 3-7 Reach V Bypass Structures
Brine Line
Reach 5 Bypass Structures
Marilyn
Grant
Jolora
Rosita
Arcadia
Liberty
La Gloria
Gloria
MAS V-580-B; Station
Washington
Verona
Temescal Canyon Rd
Cajalco
Cajalco Rd
Grand Oaks
Corona Elsinore
E Ontario Ave
Bedford Canyon
Eagle Glen
I-15
Mesa
Glen
Gambier
Greg Alan
Popely Pass
Weirick
Moser
Zac Henson
Nob Hill
Tulip
MAS V-530-B; Station 546+50
Weirick Rd
Ramp I-15
I-15
Knabe
Unnamed Street
Badger
Foster
Dial
Del Haven
I-15 Knabe Rd
Bedford Motor
Leroy
Temescal Canyon
MAS V-500-B; Station 501+50
Stellar
2,000
1,000
0
2,000 Feet
SAWPA

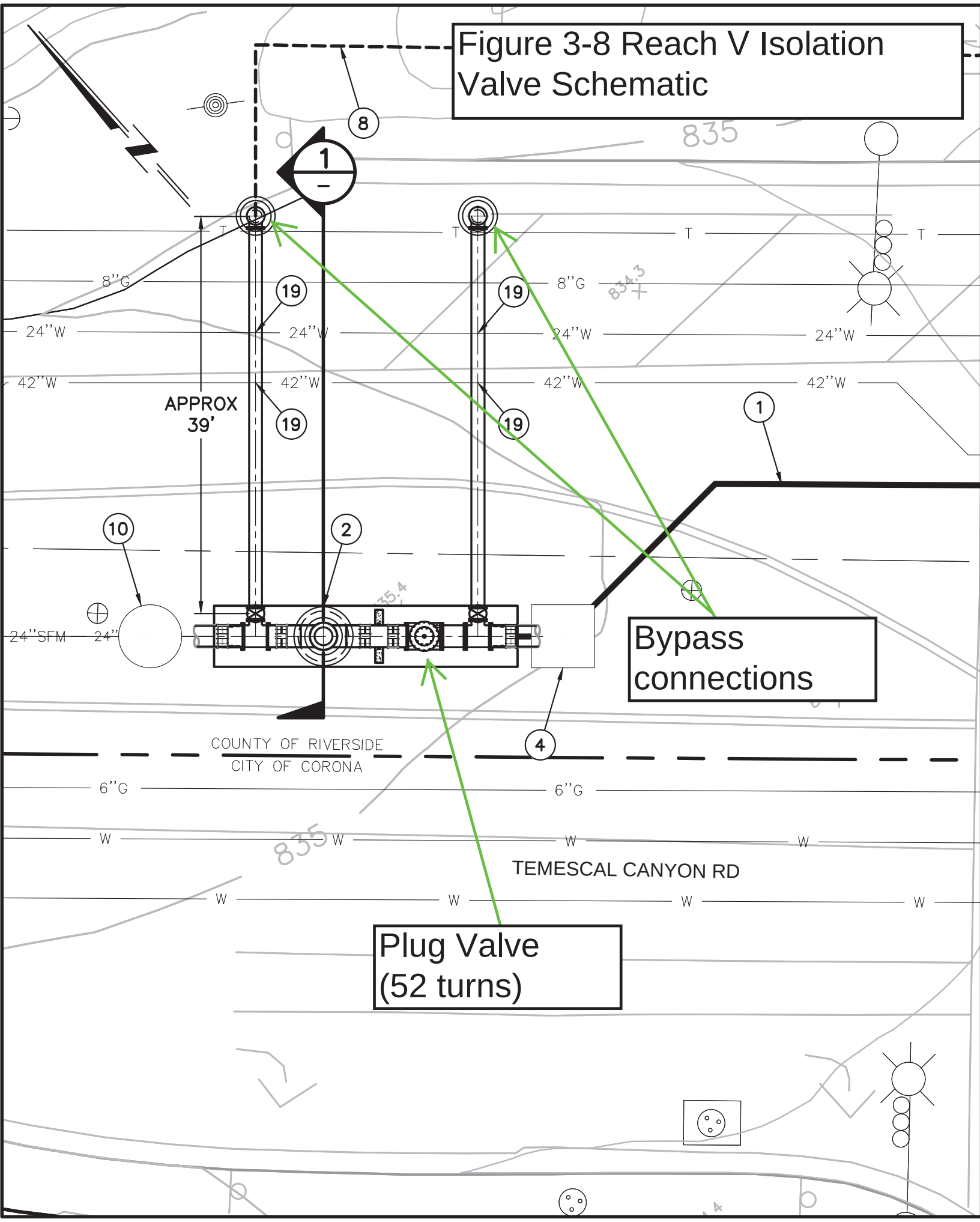
Figure 3-8 Reach V Isolation Valve Schematic
Bypass connections
Plug Valve (52 turns)
APPROX 39'
COUNTY OF RIVERSIDE
CITY OF CORONA
TEMESCAL CANYON RD
835
8
1
19
10
2
4
8"G
24"W
42"W
24"SFM
6"G
W
T

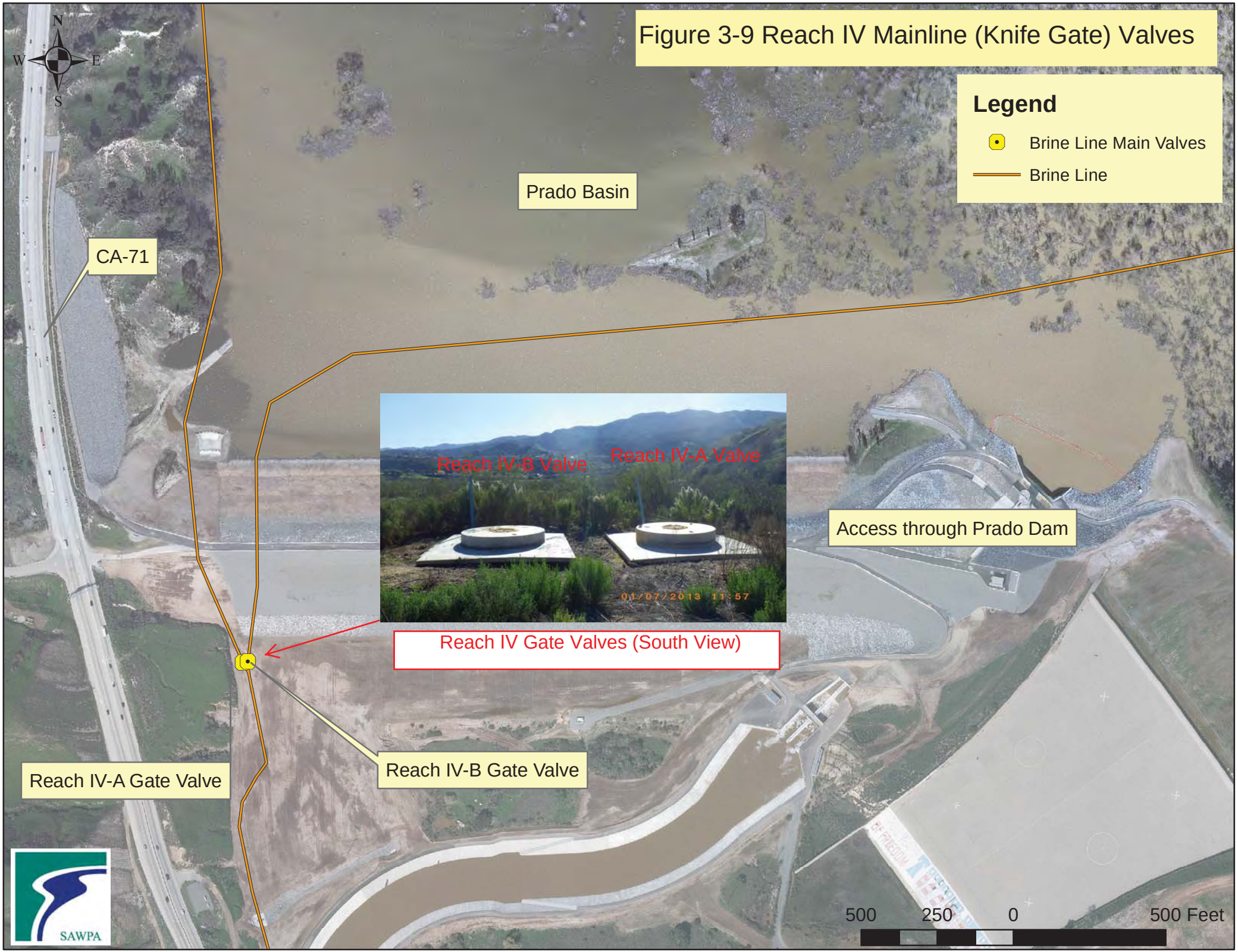
Figure 3-9 Reach IV Mainline (Knife Gate) Valves
N
W
E
S
Legend
Brine Line Main Valves
Brine Line
Prado Basin
CA-71
Reach IV-B Valve
Reach IV-A Valve
01/07/2013 11:57
Reach IV Gate Valves (South View)
Access through Prado Dam
Reach IV-B Gate Valve
Reach IV-A Gate Valve
SAWPA
500
250
0
500 Feet

3.5.3 Additional Emergency Measures for Flow Reduction

Under scenarios of multiple, complex, or difficult-to-access SSO causing failures, significant time may pass before permanent repairs may be fully executed. During this time, additional temporary bypass pumping systems would need to be implemented by SAWPA, as would other contingency plans to minimize Brine Line pipeline flows and further damage and SSOs. These additional plans may include limitations on upstream desalter use, the identification and implementation of alternate treatment facilities, a limitation on new discharge permits or increased discharge flows for an existing permit, and/or a temporary halt to the construction of new connection laterals to the Brine Line.

In response to a SSO on the Lower SARI, SAWPA and its member agencies may require Brine Line dischargers to temporarily cease or lower discharges until the spill has been mitigated within Orange County. These activities would be coordinated with OCSD who owns and operates the Lower SARI.

3.5.4 Indirect Discharges

There are currently four truck collection stations operating on the Brine Line. These are operated by IEUA, EMWD, WMWD, and Valley District (City of San Bernardino is the contract operator). In the event of a catastrophic failure of the Brine Line, the collection stations upstream of the failure would be immediately directed to cease operations. Alternative locations (such as at OCSD Regional Plant No. 1 in Fountain Valley) will be identified and trucks redirected. After installation of bypass pumping, SAWPA will evaluate the ability to restart operations at the truck collection stations.

3.6 Vendors, Suppliers, and Response Contractors

Whenever possible, SAWPA and member agency resources will be utilized to respond to an overflow emergency. However there may be times when resources are insufficient and external vendors, suppliers, and response contractors may be used. To the extent possible, SAWPA should consider vendors, suppliers, and response contractors that have been fully trained in SSO response procedures and protocol.

During smaller or less critical SSO causing emergencies, SAWPA may request member agencies to function as the general emergency response contractor and provide the required on-site labor and equipment. During larger or more complex emergency situations and/or in the event of reduced pump and pipe inventories at contractor yards, multiple bypass pumping (and other) contractors may need to coordinate their efforts and share equipment and supplies. Appendix D, from the Brine Line ERP, provides a list of local vendors, suppliers, and response contractors that may be called upon during an SSO emergency in the Brine Line.

It is anticipated that a bypass pumping contractor will be able to mobilize to the site with the necessary pumps and associated piping as soon as possible following a confirmed failure that is causing an SSO. In this scenario, the contractor would function as the general emergency response contractor with oversight from SAWPA or one of its member agencies.

The vendors and suppliers identified in Appendix D have been organized to fit the NIMS resource typing system, which uses definitions of category, kind, components, metrics, and type to organize resources that may be called upon in the event of an emergency. Table 3-2 provides the breakdown of Brine Line vendors, suppliers, and response contractors in the NIMS format.

Table 3-2
NIMS Resource: SAWPA SSO Response/Repair Team

Category:	Public Works and Engineering: Emergency repair of water and wastewater treatment facilities	**Kind:**	Team - SSO Response
Component	**Metrics**	**Type**	
External Support Team	Bypass Pump Contractors		
External Support Team	Pipe Subcontractors		
External Support Team	Miscellaneous Subcontractors	Waste Disposal; Chlorination and Disinfection; Cleaning and Chemical Cleaning; Blasting; Railroad Construction; Pest & Termite Control; Environmental Mitigation / Abatement Contractors	
Rental Equipment	Temporary Facility Rental	Pipeline; Hot Taps and Stopples; Piping / Mechanical; Fire Protection Systems; Plumbing; Pipe and Equipment Cleaning; Fiberglass Installation; Pipe Lining Systems	
Rental Equipment	Construction Equipment Rental		
Materials	Piping Material Suppliers		

Section 4
Sanitary Sewer Overflow Reporting

4.1 Overview of Online Reporting Procedures

To effectively analyze the prevalence of SSOs across the state of California, as well as the potential impacts from them to public health and beneficial uses, the SWRCB has mandated a monitoring and reporting program described in the SWRCB Order No. 2013-0058-EXEC (see Appendix E). This program focuses on uniform SSO reporting, in a timely manner, and aims to produce a centralized statewide electronic database to allow the State Water Board and RWQCB to conduct these analyses.

The online spill reporting system is hosted, controlled and maintained by the State Water Board at "http://ciwqs.waterboards.ca.gov". This online database is part of a secure site that is accessed by unique usernames and passwords which are obtained by registering for an SSO Database account through the California Integrated Water Quality System (CIWQS). In addition to enrolling for an account, a "Collection System Questionnaire" must be completed and updated at least once every 12 months.

This section will describe the categorization of SSOs and the varying timeframes and reporting requirements for each category. Also detailed are the online reporting forms and reporting to additional regulatory agencies.

4.2 Sanitary Sewer Overflow Categories

The MRP breaks down SSOs into four categories, described in Table 4-1.

Any SSO reaching surface waters of the State of any SSO greater than 1,000 gallons must be reported to the California Office of Emergency Services pursuant to California Water Code section 13271.

Table 4-1
SSO Categories

Category	Description
1	Discharges of untreated or partially treated wastewater of <u>any volume</u> resulting from SAWPA's Brine Line failure or flow condition that: a. Reach surface water and/or reach a drainage channel tributary to a surface water; or b. Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basins (e.g. infiltration pit, percolation pond).
2	Discharges of untreated or partially treated wastewater of <u>1,000 gallons or greater</u> resulting from SAWPA's Brine Line failure or flow condition that <u>do not</u> reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
3	All other discharges of sewage resulting from a failure in the Brine Line sewer system.
Private Lateral Sewage Discharge (PLSD)	Discharges or untreated or partially treated wastewater resulting from blockages or other problems <u>within a privately owned sewer lateral</u> connected to the SAWPA's Brine Line system or from other private sewer assets. PLSDs that SAWPA becomes aware of may be <u>voluntarily</u> reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

4.3 Sanitary Sewer Overflow Reporting Timeframes

Reporting timeframes for each category or occurrence of SSO are summarized in Table 4-2.

Table 4-2
Reporting Timeframes for SSO Categories

SSO Category / Occurrence	Reporting Requirements
Category 1	Initial Report: ≤ 3 business days after SSO is known, however the Santa Ana Regional Board requires immediate notification of a spill event when safe to do so Final Certified Report: ≤ 15 days after SSO response concludes SSO Technical Report: Submit within 45 days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters.
Category 2	Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date.
Category 3	Submit certified report within 30 calendar days of the end of the month in which the SSO occurred.
Private Lateral	SSO occurrence reported at utility's discretion.
None	30 days after end of calendar month.

Category 1 SSOs must be reported as soon as:

- SAWPA has knowledge of the discharge;
- Reporting is possible; and
- Reporting can be provided without substantially impeding cleanup or other emergency measures.

Initial reporting of a Category 1 SSO must be conducted through the Online SSO System as soon as possible but no later than three business days after SAWPA has become aware of the SSO. A final certified report must be completed through the Online SSO System within 15 calendar days of the conclusion of SSO response and remediation. Additional information may be added to the certified report, in the form of an attachment, at any time.

These reporting requirements do not preclude other emergency notification requirements and timeframes mandated by other regulatory agencies (local County Health Officers, local Director of Environmental Health, Regional Water Boards, or the California Emergency Management Agency/Office of Emergency Services) or State law.

Category 2 SSOs must be reported within 3 business days of becoming aware of the SSO. A final certified report must be completed through the online SSO System within 15 calendar days of the conclusion of SSO response and remediation.

Category 3 SSOs must be reported within 30 days after the end of the calendar month in which the SSO occurs.

Private Lateral Sewage Discharges may be reported to the Online SSO Database based upon SAWPA's discretion. If a Private Lateral Sewage Discharge is entered into the database, SAWPA must identify the sewage discharge as occurring and caused by a private lateral, and a responsible party (other than SAWPA), if known, should be identified.

If there are no SSOs during the calendar month, SAWPA must provide, within 30 days after the end of each calendar month, a statement through the Online SSO Database certifying that there were no SSOs for the designated month.

If the SSO Online Database becomes unavailable, all required information must be faxed to the Regional Water Board office in accordance with the mandated time schedules. All required information must be entered into the Online SSO Database as soon as practical once it becomes available.

4.4 Mandatory Information to be Included in Sanitary Sewer Overflow Reporting

The following information must be provided for all categories of SSOs that are reported:

- Location of SSO with Global Positioning System (GPS) coordinates;
- Applicable Regional Water Board, i.e. identify the region in which the SSO occurred;
- County where SSO occurred;
- Whether or not the SSO entered a drainage channel and/or surface water;
- Whether or not the SSO was discharged to a storm drain pipe that was not fully captured and returned to the sanitary sewer system;
- Estimated SSO volume in gallons;
- SSO source (maintenance access structure, cleanout, etc.);
- SSO cause (mainline blockage, roots, etc.);
- Time of SSO notification or discovery;
- Estimated operator arrival time;
- SSO destination;
- Estimated SSO end time; and
- SSO Certification. Upon SSO Certification, the SSO Database will issue a Final SSO ID Number.

For Private Lateral Sewage Discharges these items are required if applicable and known. Private Lateral Sewage Discharge reporting must also include identification of the discharge as a private lateral sewage discharge and responsible party contact information, if known.

All items must be reported within three days of SAWPA becoming aware of a Category 1 overflow occurrence, except for the SSO destination, which is to be included in the final certified report. In addition to the above list, the final certified report for Category 1 SSOs must include:

- Estimated SSO volume that reached surface water, drainage channel, or was not recovered from storm drain;
- Estimated SSO amount recovered;
- Response and corrective action taken;
- If samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA must be selected;
- Parameters that samples were analyzed for (if applicable);
- Identification of whether or not health warnings were posted;
- Beaches impacted (if applicable)/ If no beach was impacted, NA must be selected;
- Whether or not there is an ongoing investigation;
- Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps;

- OES control number (if applicable);
- Date OES was called (if applicable);
- Time OES was called (if applicable);
- Identification of whether or not County Health Officers were called;
- Date County Health Officer was called (if applicable); and
- Time County Health Officer was called (if applicable).

4.4.1 SSO Volume

In order to complete the online reporting forms, it is necessary to calculate the volume of sewage that has been discharged outside of the sanitary sewer system. There are several methods for calculating the number of gallons discharged during a sanitary sewer overflow event and the appropriate method is dependant upon the circumstances surrounding the specific SSO.

If the sewage has discharged to a rectangular ponded area, the volume of the discharge may be calculated as:

$$Volume = Length(ft) * Width(ft) * Depth(ft) * 7.48 \frac{gallons}{ft^3}$$

If the ponded area is circular, a factor of 0.785 is multiplied by the above result to account for the proportional difference between a rectangle and circle having the same side and diameter length.

If an overflow has discharged to the storm drain system, the volume must be calculated by using an estimate of the sewage that was flowing in the sanitary sewer system, based on the number of service connections multiplied by the duration of the overflow. In a traditional sanitary sewer system, a rough estimate of 200 gallons is contributed per household lateral every 24 hours. However, because the Brine Line is primarily a desalter discharge conveyance line, the flow in the line must be determined by an estimated contribution from each discharger over the time period of the SSO event.
If the SSO is still occurring when the response crew arrives it may be possible to estimate the volume of sewage that has been released, based on the flow multiplied by the duration of the overflow, using the orifice equation to determine flow:

$$Q = CA\sqrt{2gh}$$

where,
Q = flow of fluid from a hole, ft^3/s
C = coefficient of discharge
A = area of the hole, ft
g = gravity (32.2 ft/s^2)
h = height of the fluid above the cover, ft
$C = C_v * C_c$, typically between 0.608 and 0.639
C_v = coefficient of velocity, ranging from 0.954 for ¾" orifice to 0.991 for 2½" orifice
C_c = coefficient of velocity, ranging from 0.67 for ¾" orifice to 0.614 for 2½" orifice

4.5 Standard Online Reporting Forms

Sample forms to be filled out in the field in preparation of entering required information in the Online SSO System can be found in Appendix F. Prior to filling out the forms in the Online SSO System, a supervisor should verify that the information collected on the field forms is accurate and complete.

The first form in Appendix F enables the user to determine the spill type. Once the spill type is determined, Category 1 and Category 2 SSOs have separate reporting forms that must be completed. As well, there is a "No Spill Certification" to file for months in which no SSOs occur. A "Spill Related Parties" form is also available for filing if this additional information is relevant to the SSO event.

4.6 Reporting to other Regulatory Agencies

California State law may require additional reporting of SSOs to other regulatory agencies. The Online SSO System does not replace other Regional Water Board reporting requirements for SSOs.

SAWPA must report SSOs to OES in accordance with California Water Code Section 13271. OES can be contacted at 800-852-7550.

SAWPA should report the SSOs to the Santa Ana Regional Water Quality Control Board. Mr. Najah Amin can be contacted at 951-320-6362.

SSOs must also be reported to County Health officials in accordance with California Health and Safety Code Section 5410 et seq. Riverside County Department of Public Health: 951-358-5000, San Bernardino Department of Public Health: 800-782-4264, and Orange County Environmental Health (Control 1): 714-628-7008 or 714-433-6000.

Riverside County Flood Control and Water Conservation District is to be notified within two hours of an SSO if any brine is discharged to any of their facilities (see Figure 3-2).

The Online SSO System will automatically generate an email notification with customized information about an SSO upon initial reporting of the SSO and final certification for all Category 1 SSOs. Emails will be sent to the appropriate County Health Officer and/or Environmental Health Department if the county desires this information, and the Santa Ana Regional Water Quality Control Board.

The California Department of Fish and Game (DFG) should be notified if the SSO reaches any stream and/or wetland according to DFG Code Section 1602. A biologist should be contacted immediately if there is any doubt if the SSO reached a stream and/or wetland.

DFG Code Section 1602 states: You do <u>not</u> need to notify DFG or obtain a Lake or Streambed Alteration Agreement before beginning the following emergency work:

1. Immediate emergency work necessary to protect life or property;

2. Immediate emergency repairs to public service facilities necessary to maintain service as a result of a disaster in an area in which the Governor has proclaimed a state of emergency; and
3. Emergency projects undertaken, carried out, or approved by a state or local governmental agency to maintain, repair, or restore an existing highway, within the existing right of-way of the highway, that has been damaged as a result of fire, flood, storm, earthquake, land subsidence, gradual earth movement, or landslide, within one year of the damage.

Although notification is not required before beginning the emergency work, you must notify DFG in writing within 14 days after beginning the work.

SAWPA requires immediate (within 2 hours of receiving notification of SSO) DFG notification if a Brine Line spill ever reaches streams and or wetlands. Contact: Michael Horn, Lt. Specialist, DFG; (mhorn@ospr.dfg.ca.gov), (760) 249-5483 or alternatively call DFG Dispatch at (916) 358-1300 and ask to speak to a warden. [Office of Spill Prevention and Response – Inland, 1700 K Street, Suite 250, Sacramento, CA 95811].

Reference Brine Line and Fish and Wildlife Service (FWS) critical habitat map in Appendix L. Contact FWS if brine SSO impacts or appears to impact any FWS critical habitat. SAWPA will rely on the biologist opinion regarding biological and/or environmental impacts.

Section 5
Record Keeping and Certification

5.1 Record Keeping

Existing SAWPA procedures for records filing and retention shall be followed unless otherwise mandated by the WDR. This consists of the requirements detailed in SAWPA Resolution 2012-10, Policy for Retention and Destruction of Agency Records.

The WDR mandates that individual SSO records shall be maintained by SAWPA for a minimum of five years from the date of the SSO. This period may be extended when requested by a Regional Water Board Executive Officer. All records must be made available for review upon State or Regional Water Board staff's request.

The records of SSOs that must be retained include, but are not limited to:

- Record of Certified report, as submitted to the online SSO database;
- All original recordings for continuous monitoring instrumentation;
- Service call records and complaint logs of calls received by SAWPA;
- SSO calls;
- SSO records;
- Steps that have been and will be taken to prevent the SSO from recurring and a schedule to implement those steps;
- Work orders, work completed, and any other maintenance records from the previous 5 years which are associated with responses and investigations of system problems related to SSOs;
- A list and description of complaints from customers or others from the previous 5 years; and
- Documentation of performance and implementation measures for the previous 5 years.

If water quality samples are required by an environmental or health regulatory agency or State law, or if voluntary monitoring is conducted by SAWPA or its agent(s), as a result of any SSO, records of monitoring information shall include:

- The date, exact place, and time of sampling or measurements;
- The individual(s) who performed the sampling or measurements;

- The date(s) analyses were performed;
- The individual(s) who performed the analyses;
- The analytical technique or method used; and
- The results of such analyses.

All monitoring instruments and devices that are used to fulfill the prescribed monitoring and reporting program must be properly maintained and calibrated as necessary to ensure their continued accuracy.

5.2 Certification

All final reports must be certified by an authorized person as required by Provision J of the WDR, which states that all applications, reports, or information shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative of that person. An individual is considered a duly authorized representative if the authorization is made in writing by the designated principal executive officer or ranking elected official and the authorization specifies an individual or a position having responsibility for the overall operation of the regulated facility or activity. Registration of authorized individuals, who may certify reports, will be in accordance with the CIWQS protocol for reporting.

For the purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.

Section 6
Training and Follow-up Plans

6.1 Training

SAWPA and member agency staff, contractors, vendors, and suppliers should be aware of and properly trained to implement the provisions and procedures of the OERP. Staff must fully understand the response protocol for SSO events and should be notified of any changes to the OERP, particularly annual updates that may be made to the report. If major response protocols are revised, staff should be retrained to assure full understanding of SSO emergency response protocol. Lack of training can lead to a slower and less effective response during an emergency event.

The State Water Board has signed a memorandum of agreement (MOA) with the California Water Environment Association (CWEA) to develop a training course in response to the requirements of the WDR (https://www.cwea.org/pdf/news/sso-wdr-moa.pdf). The course is intended to educate participants about the terms of the WDR and use of the online SSO database, as well as development of an SSMP. Training is conducted using a team format where participants will work through case studies and enter data into a database simulation via laptops. Current SAWPA response staff completed the training in November 2006; however follow-up training or training for new employees may be required in the future.

In addition, field training should occur to prepare response crews for conditions that will be encountered during an overflow emergency event. Field training activities should include a mock clean up and other exercises of procedures that the response crews may need to perform.

6.2 Follow-up Plans

Specific field conditions and emergency response personnel and/or procedures may change over time. As such, this OERP must be treated as a living document and be updated on an annual basis. At a minimum, phone numbers and forms must be updated, and a review of the procedures must be conducted. Plan performance should also be checked on an annual basis. SAWPA will be responsible for relaying these annual updates to the Member Agencies and OCSD.

Lessons learned should be conducted after any SSO incident. The OERP should be updated based on any findings identified during the aftermath of an SSO.

References

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Inland Empire Utilities Agency "Sanitary Sewer Overflow Unified Response Guidance Plan" July 2003

Kennedy/Jenks Consultants "Santa Ana Regional Interceptor Hydraulic Model and Capacity Assessment" January 16, 2006

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State Water Resources Control Board "Order No. 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" May 2, 2006

State Water Resources Control Board "Sanitary Sewer Overflow Program" Accessed: September 2006. Western Municipal Water District "Emergency Response and Recovery Plan" January 2005

Glossary of Terms/Acronyms

CIWQS – California Integrated Water Quality System

CMLC – Cement Mortar Lined and Coated

CRC – California Rehabilitation Center

CWA – Federal Clean Water Act

CWEA – California Water Environment Association

DHS – Department of Health Services

DWP – Department of Water and Power

EMA – California Emergency Management Agency

EMWD – Eastern Municipal Water District

ERP – Emergency Response Plan

GPS – Global Positioning System

HDPE – High Density Polyethylene Pipe

HTH – High-Test Hypochlorite

ID – CIWQS User Identification

IEUA – Inland Empire Utilities Agency

MOA – Memorandum of Agreement

MRP – Monitoring and Reporting Program

NIMS – National Incident Management System

NPDES – National Pollutant Discharge Elimination System

OCSD – Orange County Sanitation District

OCWD – Orange County Water District

OERP – Overflow Emergency Response Plan

OES – Office of Emergency Services

POTW – Publicly-Owned Treatment Works

PVC – Polyvinyl Chloride

RCP – Reinforced Concrete Pipe

RCPP – Reinforced Concrete Pressure Pipe

RP-2 – IEUA Regional Plant 2

RP-5 – IEUA Regional Plant 5

RWQCB – Regional Water Quality Control Board

SARI – Santa Ana Regional Interceptor (Orange County portion)

SAWPA – Santa Ana Watershed Project Authority

SOP – Standard Operating Procedure

SSMP – Sewer System Management Plan

SSO – Sanitary Sewer Overflow

SWRCB – State Water Resources Control Board

TDS – Total Dissolved Solids

Upper SARI – Upper Santa Ana Regional Interceptor or Inland Empire Brine Line

USACE – U.S. Army Corps of Engineers

USEPA – United States Environmental Protection Agency

Valley District – San Bernardino Valley Municipal Water District

VCP – Vitrified Clay Pipe

WDR – Statewide General Waste Discharge Requirements for Sanitary Sewer Systems

WMWD – Western Municipal Water District

WRCRWA – Western Riverside County Regional Wastewater Authority

WWTP – Wastewater Treatment Plant

<u>Appendix A</u>

Brine Line Discharges (September 2017)

Appendix A - Average Flows

September 2017

SiteNo	SiteName	MONTHLY AVG MG*	DAILY AVG MG
1	County Line Master Meter	348.4960	10.8905
5	IEUA	11.0162	0.3443
20	Corona Energy Part.	1.4931	0.0467
22	Arlington Desalter	24.4200	0.7631
23	JCSD-Wineville	1.5565	0.0486
24	JCSD-Hamner	1.1658	0.0364
25	Green River Golf	0.1324	0.0041
26	CIW/Womens Prison	8.6700	0.2709
28	JCSD-Etiwanda	29.7344	0.9292
29	Rubidoux CSD	0.4600	0.0144
32	Temescal Desalter	49.2900	1.5403
34	Chino Desalter	58.6880	1.8340
35	Mountainview Power Plant	13.6207	0.4256
41	Menifee Desalter	17.1659	0.5364
50	Dart Container	0.6948	0.0217
53	Agua Mansa Power Plant	0.1595	0.0050
63	DFA Distilled Water Plant	0.8534	0.0267
64	Wellington Foods	0.3781	0.0118
65	Giuliano and Sons	0.0682	0.0021
67	Fruitarom USA Inc.	0.1337	0.0042
98	Chino Desalter II West	2.4440	0.0764
99	Perris Desalter	31.5652	0.9864
100	Chino Desalter II East	48.3655	1.5114
101	Stringfellow	3.5205	0.1100
220	Chino Development Corporation	15.4704	0.4835
901	Waster Hauler - IEUA	0.1566	0.0049
902	Waster Hauler - EMWD	2.1504	0.0672
903	Waste Hauler - SBVMWD	0.7278	0.0227
904	Waste Hauler - WMWD	0.1495	0.0047
905	Inland Empire Energy Center	3.0770	0.0962
1000	WRCRWA	0.0538	0.0017
1009	Yucaipa Valley Water District	9.7527	0.3048

*September 2017 Flows - 32 days

Appendix B
Permitted Industrial and Desalter Emergency Contact List

EMERGENCY CONTACT LIST - APPENDIX B

BRINE LINE USER	CONTACT NAME	TITLE	PHONE #s			EMAIL
			OFFICE	HOME/EVE	CELL	
Reach IV						
CITY OF CORONA GREEN RIVER CONNECTION WTP NO.1 CONNECTION AND TEMESCAL DESALTER	-	WATER RECLAMATION OFFICE	(951) 736-2238	-	-	-
	-	OPERATOR ON DUTY	-	-	(951) 830-2396	-
	-	MAINTENANCE STANDBY	-	-	(951) 830-2391	-
	FRANK GARZA JR.	CHIEF WATER RECLAMATION OPERATOR	(951) 279-3665	-	(951) 830-2388	frank.garza@ci.corona.ca.us
	TOM MOODY	ASSISTANT GENERAL MANAGER	(951) 279-3660	-	(951) 830-2319	tom.moody@ci.corona.ca.us
	JONATHAN DALY	GENERAL MANAGER	(951) 736-2477	-	(951) 830-1454	jonathan.daly@ci.corona.ca.us
	ADOGA KIHARANGWA	REGULATORY COMPLIANCE SUPERVISOR	(951) 817-5836	-	(951) 316-8216	adoga.kiharangwa@ci.corona.ca.us
	JUSTIN AMON	CHIEF WATER OPERATOR	(951) 736-2481	-	(951) 953-1338	justin.amon@ci.corona.ca.us
GREEN RIVER GOLF CLUB	JOHN RANGEL	OUTSIDE SERVICES MANAGER	(951) 737-7393 x113	-	(909) 229-2862	jrangel@playgreenriver.com
	TOM FROST	GENERAL MANAGER	(951) 737-7393 x100	-	(562) 881-0483	tfrost@playgreenriver.com
Reach IV-A						
CALIFORNIA INSTITUTION FOR MEN	JULIE CAVENDER	CORRECTIONAL BUSINESS MANAGER II	(909) 606-7202	-	(909) 927-7851	julie.cavender@cdcr.ca.gov
	ISAAC MORALES	CHIEF ENGINEEER I	(909) 606-7132		(714) 228-1241	isaac.morales@cdcr.ca.gov
	JOHN MARTIN	CORRECTIONAL PLANT SUPERVISOR A	(909) 606-7132	-	(909) 927-7852	john.martin@cdcr.ca.gov
	LINDA MARTIN	CORRECTIONAL PLANT MANAGER II	(909) 606-7132	-	-	linda.martin2@cdcr.ca.gov
	LARRY DIMOCK	CHIEF PLANT OPERATOR	(909) 606-7207	-	(909) 917-8426	lawrence.dimock@cdcr.ca.gov
	-	WATER TREATMENT PLANT	(909) 917-8426	-	(909) 606-7207	-
MISSION LINEN SUPPLY	VIET PHAM	CHIEF ENGINEER	-	-	(559) 260-8682	vpham@missionlinen.com
	-	24-HOUR PLANT ACCESS	(909) 364-8727	-	-	-
	DON BUNCH	-	-	-	(909) 772-0001	dbunch@missionlinen.com
	BEN STRASSHOFER	GENERAL MANAGER	-	-	(909) 772-1870	bstrasshofer@missionlinen.com
OLS ENERGY	-	SHIFT SUPERVISOR	(909) 597-0338	-	-	-
	STEVEN BEAN	PLANT MANAGER	(909) 597-0338	-	(909) 631-3118	sbean@olsenergy.com
RP5-SOLIDS HANDLING FACILITY/INLAND BIOENERGY	ALFREDO FERRIN	OPERATIONS SUPERVISOR	(909)393-6511	-	(909) 600-6708	aferrin@burrtec.com
	CHRIS ALANIS	OPERATIONS SUPERVISOR	-	-	(909) 561-6254	calanis @burrtec.com
REPET	THOMAS YEN	CHIEF EXECUTIVE OFFICER	(909) 594-5333	-	(909) 217-2005	thomas.yen@repetinc.com
	GEORGE DADIANI	R&D/WASTEWATER MANAGER	(909) 594-5333	-	(626) 602-6696	george.dadiani@repetinc.com
	JOE AZUCENA	HUMAN RESOURCES / SAFETY	(909) 594-5333 x130	-	-	joe.azucena@repetinc.com
Reach IV-B						
ARLINGTON DESALTER	RAY MARSHALL	SENIOR OPERATIONS TECH	(951) 353-9645	(951) 231-4306	(951) 201-2103	rmarshall@wmwd.com
	SCOTT MCANALLY	OPERATIONS TECH	(951) 353-9645	(951) 654-3053	(951) 201-2103	smcanally@wmwd.com
	ALBERT MAGALLON	OPERATIONS SUPERVISOR	(951) 789-5119	(951) 662-5709	(951) 662-5709	amagallon@wmwd.com
	-	24-HOUR EMERGENCY #	(951) 789-5109	-	-	-
CALIFORNIA REHABILITATION CENTER	ERNEST MARTINEZ	CORRECTIONAL PLANT SUPERVISOR	(951) 737-2683 x4400	-	-	-
	HECTOR LOPEZ	CORRECTIONAL BUSINESS MANAGER	(951) 237-2982	-	(951) 712-3183	-
	SINGH RAI	CHIEF ENGINEER	(951) 737-2683 x4408	-	(951) 928-5552	-
	MICHAEL SULLIVAN	WATER AND SEWAGE SUPERVISOR	(951) 737-2683 x4485	-	-	-
	DENNIS ELLISON	FIRE CHIEF	(951) 737-2683 x2915	-	(951) 538-9411	-
	-	WATCH COMMANDER	(951) 273-2929	-	-	-
CORONA REGIONAL MEDICAL CENTER	PAUL FICE	DIRECTOR OF PLANT OPERATIONS	(951) 736-6264	-	(951) 270-4723 (pgr)	-
	RICK SOTOLONGO		(951) 737-4343	-	(951) 270-4727 (pgr)	-
DART CONTAINER	DON GOODLUCK	PLANT MANAGER	(951) 735-8115	(909) 460-0454	(909) 714-1320	-
	-	ON-DUTY PRODUCTION SHIFT SUPERVISOR	(951) 735-8116	-	-	-
	BOB WILLMAN	EMERGENCY COORDINATOR	(951) 735-8115	(909) 337-2233	(951) 833-0015	bob_willman@dart.biz
	LEE MARKLEY	REGIONAL EH&S MANAGER	(951) 735-8115 x5016	-	(951) 532-2282	lee_markley@dart.biz
DECRA ROOFING	DAVID ELDRIDGE	TECHNICAL & QUALITY MANAGER	(951) 272-8180 x210	-	(951) 532-4618	deldredge@decra.com
	JOSEPH ROSS	FIRST SHIFT SUPERVISOR	(951) 281-0561	-	(951) 496-0954	-
	JESSE MARINELARENA	MAINTANENCE MANAGER	-	-	(951) 515-0959	-
	SHEREE KINZEL	EHS MANAGER	(951) 272-8180 x230	-	(951) 833-5004	-
FRUTAROM	KIRK MARTINEZ	QUALITY MANAGER	(951) 734-6620	-	(951) 764-7232	-
	DENISE KARANZIAS	PLANT MANAGER	(951) 734-6620	-	(951) 367-5567	-
	GENARO RAMIREZ	PRODUCTION SUPERVISOR	(951) 734-6620	-	(951) 346-6529	-
	JAY HARRIS	R&D MANAGER	(951) 734-6620	-	(951) 314-6112	-
	JUAN SANJUAN	MAINTANENCE SUPERVISOR	(951) 734-6620	-	(951) 346-6877	-
GIULIANO & SONS BRINERS	CURTIS BELK	-	(909) 877-1819	-	(951) 295-1576	cbelk@verizon.net
	OMAR MONTERO	-	(909) 877-1819	-	(951) 858-0542	-
	COREY GIULIANO	-	(714) 895-9661	-	(714) 615-9099	-

EMERGENCY CONTACT LIST - APPENDIX B

BRINE LINE USER	CONTACT NAME	TITLE	PHONE #s			EMAIL
			OFFICE	HOME/EVE	CELL	
Reach IV-B (cont'd)						
HIDDEN VILLA RANCH	FLOYD HOLBROOK	DIRECTOR OF OPERATIONS	(714) 272-9310	-	-	fholbrook@hiddenvilla.com
	CHRISTINA BUENO	COMPLIANCE MANAGER	(714) 420-7728	-	-	cbueno@hiddenvilla.com
	YADIRA JIMENEZ	QUALITY ASSURANCE SUPERVISOR	(909) 282-4047	-	-	yjimemez@hiddenvilla.com
	DAVID MAGANA	DISTRIBUTION MANAGER	(951) 858-6312	-	-	dmagana@hiddenvilla.com
LA SIERRA UNIVERSITY	PAUL MORRISSEY	DIRECTOR	(951) 785-2115	-	(951) 236-7095	-
	ZOREH AFSHAR	ASSOCIATE DIRECTOR	(951) 785-2114	-	(949) 433-9526	-
PRUDENTIAL OVERALL SUPPLY	LEE TERRY	ENVIRONMENTAL AND SAFETY DIRECTOR	(949) 250-4850 x262	-	-	-
	DAVE HARDER	MAINTENANCE SUPERVISOR	(951) 687-0440	-	-	-
	JON LOCKE	GENERAL MANAGER	(951) 687-0440	-	-	-
	GLENWOODS	PLANT SUPERINTENDANT	(951) 687-0440	-	-	-
QUALIFIED MOBILE	JOHN BERRYMAN	PRESIDENT	(951) 549-8383	-	(714) 356-8009	johnberryman@mygmi.com
	GIL BASTIEN	CFO	(951) 549-8383	-	(951) 515-0277	gilbastien@mygmi.com
SIERRA ALUMINUM	NARO KUCH	ENVIRONMENTAL MANAGER	(951) 934-4014	(951) 245-4547		nkuch@sierraaluminum.com
	SHAYNE SEEVER	V.P. OF ADMINISTRATION	(951) 934-4030	(909) 463-4066	(909) 730-9862	-
WRCRWA	TONY POLLAK	OPERATIONS SUPERVISOR, CHIEF PLANT OPERATOR	(951) 789-5114	-	(951) 757-6929	tpollak@wmwd.com
	MICHAEL SNOW	SENIOR OPERATOR	(951) 789-5189	-	(530) 355-1666	msnow@wmwd.com
	-	24-HOUR EMERGENCY #	(951) 789-5109	-	-	-
Reach IV-D						
CALIFORNIA INSTITUTION FOR WOMEN	WAYNE POFF	CORRECTIONAL PLANT MANAGER I	(909) 606-4944	-	(909) 810-1332	wayne.poff@cdcr.ca.gov
	TARIQ AWAN	CHIEF ENGINEER I	(909) 597-1771 x7334	-	(949) 293-8764	tariq.awan@cdcr.ca.gov
	-	WATCH COMMANDER	(909) 597-1771 x4913	-	(909) 606-4913	-
CHINO DEVELOPMENT CORP.	JASON MILLER	VP PLANNED COMMUNITIES	(909) 946-7521	-	(909) 223-2098	-
	AARON GALAUDET	OFFSITE CONSTRUCTION MANAGER	-	-	(951) 746-9438	-
	PAT LOY	VP REGIONAL PROJECT MANAGER	(909) 946-7513	-	(909) 229-3005	-
CHINO I DESALTER	IAN TILLERY	CHIEF PLANT OPERATOR	(909) 993-1778	(909) 815-5637	(909) 732-3005	itillery@ieua.org
	SCOTT OAKDEN	DEPUTY MANAGER OF OPERATIONS	(909) 993-1922	(909) 247-8110	(909) 247-8110	cletulle@ieua.org
	TODD MINTEN	CDA OPERATIONS MANAGER	(909) 218-3731	(951) 830-1421	(951) 830-1421	tminten@chinodesalter.org
	CURTIS PAXTON	CDA GENERAL MANAGER / CEO	(909) 218-3729	(661) 361-8400	(661) 361-8400	cpaxton@chinodesalter.org
CHINO II DESALTER	BEN ARMEL	WATER TREATMENT SUPERVISOR	(951) 685-7434 x164	(909) 730-6879	(909) 730-6879	barmel@jcsd.us
	STEVE IBACH	PLANT OPERATOR	(951) 538-0522	(909) 709-7991	(909) 709-7991	-
	TODD MINTEN	CDA OPERATIONS MANAGER	(909) 218-3731	(951) 830-1421	(951) 830-1421	tminten@chinodesalter.org
	CURTIS PAXTON	CDA GENERAL MANAGER / CEO	(909) 218-3729	(661) 361-8400	(661) 361-8400	cpaxton@chinodesalter.org
JCSD	DAN DUCASSE	SEWER OPERATIONS MANAGER	(951) 685-7434 x107	-	(951) 660-6973	dducasse@jcsd.us
	MOUSTAFA ALY	WATER OPERATIONS and FACILITIES MANAGER	(951) 685-7434 x164	-	(951) 830-1421	maly@jcsd.us
	MARCE BILLINGS	SOURCE CONTROL SUPERVISOR	(951) 685-7434 x173	-	(760) 265-3670	mbillings@jcsd.us
	-	SEWER DUTY OPERATOR	-	-	(951) 830-3533	-
	-	WATER DUTY OPERATOR	-	-	(951) 830-1423	-
RCSD ANITA B. SMITH DESALTER	LEE BUGBEE	SYSTEMS OPERATOR II	-	-	(951) 203-9932	lbugbee@rcsd.org
	EDDIE MARTINEZ	SYSTEMS OPERATOR I	-	-	(951) 323-8355	-
	STEVEN APPEL	ASSISTANT GM/ DISTRICT ENGINEER	(951) 684-7580	-	(951) 202-2722	steve@rcsd.org
	DAN BALLOW	UTILITY SYSTEMS MANAGER	-	-	(951) 323-5577	-
STRINGFELLOW PRETREATMENT FACILITY	ZIGGY KOSTECKI	HAZARDOUS SUBSTANCES ENGINEER - DTSC	(951) 360-6942	(951) 684-7959	(909) 917-1235	zkosteck@dtsc.ca.gov
	BHABESH CHAKRABARTI	VEOLIA	(951) 681-3831	-	(213) 503-8610	bhabesh.chakrabarti@veolia.com
	TEJ PAHWA	CHIEF - DTSC	(916) 255-6548	(916) 872-8687	(916) 947-7226	tpahwa@dtsc.ca.gov
Reach IV-E						
AGUA MANSA POWER PLANT	WAYNE FERAGEN	PLANT MANAGER	(909) 825-1679	(951) 734-2447	(909) 841-6880	wferagen@noresco.com
	DAVID JIRON	LEAD OPERATOR	(909) 825-1679	(909) 883-2377	(909) 841-6933	djiron@noresco.com
	ERICK TUCKER	OPERATOR 1	(909) 825-1679	(909) 790-9868	(909) 841-6927	-
	BILL GREER	OPERATOR 2	(909) 825-1679	(951) 837-3523	(909) 841-6925	-
	CONTROL ROOM	-	(909) 430-0928	-	-	-
MOUNTAINVIEW POWER COMPANY LLC.	JULIA LAKES	SAFETY & ENVIRONMENTAL SPECIALIST	(909) 478-1721	-	(626) 222-4746	julia.lakes@sce.com
	BRUCE MACKENZIE	TECHNICAL SPECIALIST/SCIENTIST	(909) 478-1704	-	(949) 690-2621	bruce.mackenzie@sce.com
	CONTROL ROOM	OPERATOR	(909) 478-1738	-	-	-
		SHIFT SUPERVISOR	(909) 478-1739	-	-	-
SBMWD	KEVIN STEWART	DIRECTOR	(909) 453-6213	-	(909) 454-5651	kevin.stewart@sbmwd.org
	ANDY COADY	ENVIRONMENTAL CONTROL OFFICER	(909) 453-6251	-	(909) 379-2597	andy.coady@sbmwd.org
	-	AFTER HOURS EMERGENCY #	(909) 453-6220	-	-	-
REACH V						
WELLINGTON FOODS	ANTHONY HARNACK JR	PRESIDENT	(951) 547-7000 x252	-	(714) 504-1371	tonyh2@wellingtonfoods.com
	CARLOS VERDU-SILVA	MAINTENANCE SUPERVISOR	(951) 547-7000 x114			carlosv@wellingtonfoods.com
	JIM MULVANEY	CFO	(951) 547-7000 x257	-	(949) 278-9767	jimm@wellingtonfoods.com
	JIMMY SERENANA	PRODUCTION MANAGER	(951) 547-7000 x138	-	(323) 365-1386	jimmyserenana@wellingtonfoods.com

EMERGENCY CONTACT LIST - APPENDIX B

BRINE LINE USER	CONTACT NAME	TITLE	PHONE #s			EMAIL
			OFFICE	HOME/EVE	CELL	
AGENCIES						
EMWD	PHIL LANCASTER	WATER OPERATIONS MANAGER	(951) 928-3777 x7303	-	(951) 300-3675	lancastp@emwd.org
	DENNIS MARTZ	SOURCE CONTROL MANAGER	(951) 928-3777 x6204	-		martzd@emwd.org
	ALFRED JAVIER	ENVIRONMENTAL SERVICES MANAGER	(951) 928-3777 x6327	-	-	javiera@emwd.org
	IOC	AFTER HOURS EMERGENCY #	(951) 928-3777 x6265	-	-	-
IEUA	CRAIG PROCTOR	PRETREATMENT AND SOURCE CONTROL SUPERVISOR	(909) 993-1645	-	(909) 573-5709	cproctor@ieua.org
	-	MAIN PHONE LINE	(909) 993-1600	-	-	-
	-	24-HR COLLECTIONS SYSTEM OPERATIONS	(951) 675-1131	-	-	-
JCSD	DAN DUCASSE	SEWER OPERATIONS MANAGER	(951) 685-7434 x107	-	(951) 660-6973	dducasse@jcsd.us
	JIM PAYFER	SEWER SYSTEMS SUPERVISOR	(951) 685-7434 x174	-	(951) 675-8692	jpayfer@jcsd.us
	MARCE BILLINGS	SOURCE CONTROL SUPERVISOR	(951) 685-7434 x173	-	(760) 265-3670	mbillings@jcsd.us
	-	SEWER DUTY OPERATOR	-	-	(951) 830-3533	-
	-	WATER DUTY OPERATOR	-	-	(951) 830-1423	-
OCSD	-	OPERATIONS CONTROL CENTER	(714) 593-7025	-	-	-
SAWPA	-	AFTER HOURS #	(951) 324-8680	-	-	-
	CARLOS QUINTERO	OPERATIONS MANAGER	(951) 354-4234	-	(951) 941-7611	cquintero@sawpa.org
	DAVID RUHL	ENGINEERING MANAGER	(951) 354-4223	-	(951) 538-3250	druhl@sawpa.org
	MATT STEWART	SENIOR BRINE LINE PIPELINE OPERATOR	(951) 354-4220	-	(951) 202-0715	mstewart@sawpa.org
	SCOTT MEBUST	BRINE LINE PIPELINE OPERATOR II	(951) 354-4220	-	(909) 772-3489	smebust@sawpa.org
	BRIAN COLLIER	BRINE LINE PIPELINE OPERATOR II	(951) 354-4220	-	(951) 215-9611	bcollier@sawpa.org
	BENJAMIN WILSON	BRINE LINE PIPELINE OPERATOR II	(951) 354-4220	-	(951) 840-0206	bwilson@sawpa.org
Valley District	-	24-HOUR EMERGENCY #	(909) 387-9246	-	-	-
	TOM HOLCOMBE	OPERATIONS MANAGER	(909) 266-4011	-	(909) 266-4011	tomh@sbvmwd.com
	BOB TINCHER	DEPUTY GENERAL MANAGER - RESOURCES	(909) 226-2812	-	(909) 226-2812	bobt@sbvmwd.com
WMWD	ALEX CHANG	OPERATIONS SUPERVISOR	(951) 789-5117	(951) 723-8482	(951) 712-3070	achang@wmwd.com
	FRED OCHOA	SENIOR OPERATIONS TECH	(951) 789-5145		(951) 326-5839	fochoa@wmwd.com
	FRED KIPFER	SOURCE CONTROL SPECIALIST II	(951) 571-7295	(909) 349-1729	(909) 549-5939	fkipfer@wmwd.com
	-	WASTEWATER COLLECTIONS	(951) 789-5145	-	(951) 830-8206	-
	-	24-HOUR EMERGENCY #	(951) 789-5109	-	-	-
YVWD	JOHN WROBEL	REGULATORY & ENVIRONMENTAL CONTROL MANAGER	(909) 797-5117	-	(909) 208-6347	-
	EC STANDBY	ENVIRONMENTAL CONTROL STANDBY	(909) 797-5117	-	(909) 322-3936	-
	WW STANDBY	TREATMENT PLANT STANDBY	(909) 795-2491	-	(909) 322-3938	-

Appendix C
Bypass Pumping Information

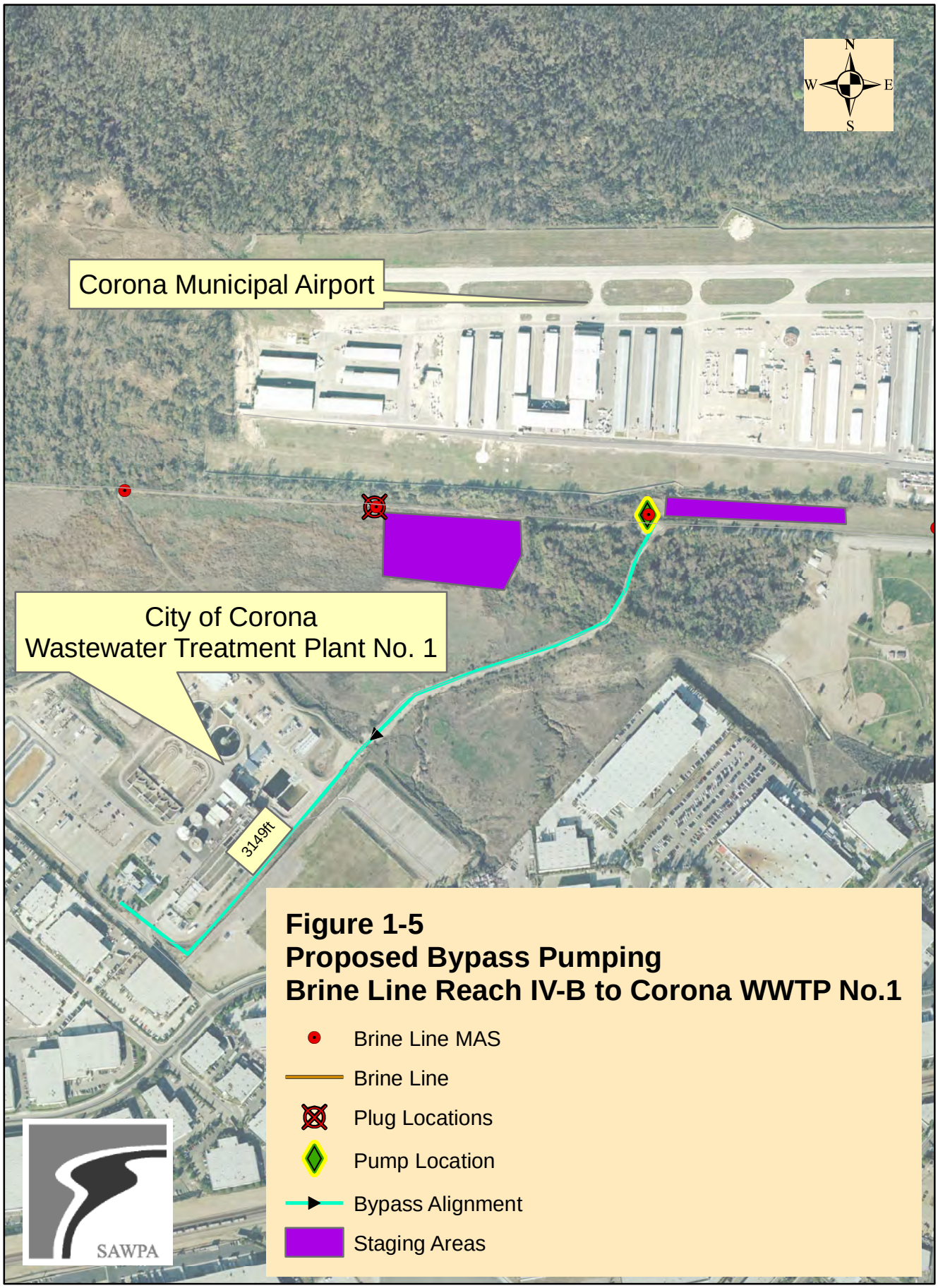


Figure 1-5
Proposed Bypass Pumping
Brine Line Reach IV-B to Corona WWTP No.1

Figure 1-6
Proposed Bypass Pumping
Brine Line Reach IV-B (CRC) to WRCRWA Lift Station
Riverside Street
Brine Line
Brine Line MAS
Plug Locations
Pump Location
Bypass Alignment
Staging Areas
N
W
E
S
Queensdale
Marina
Kevin
Candy
Auburndale
Fallbrook
Bramble
Blossom
Willowcreek
Pinecone
Shade Tree
Limelite
Harrington
Forester
Lincoln
2961ft
Rincon
Alcoa
Smith
Davril
Railroad
Grant
Maloy
WRCRWA
Lift Station
SAWPA

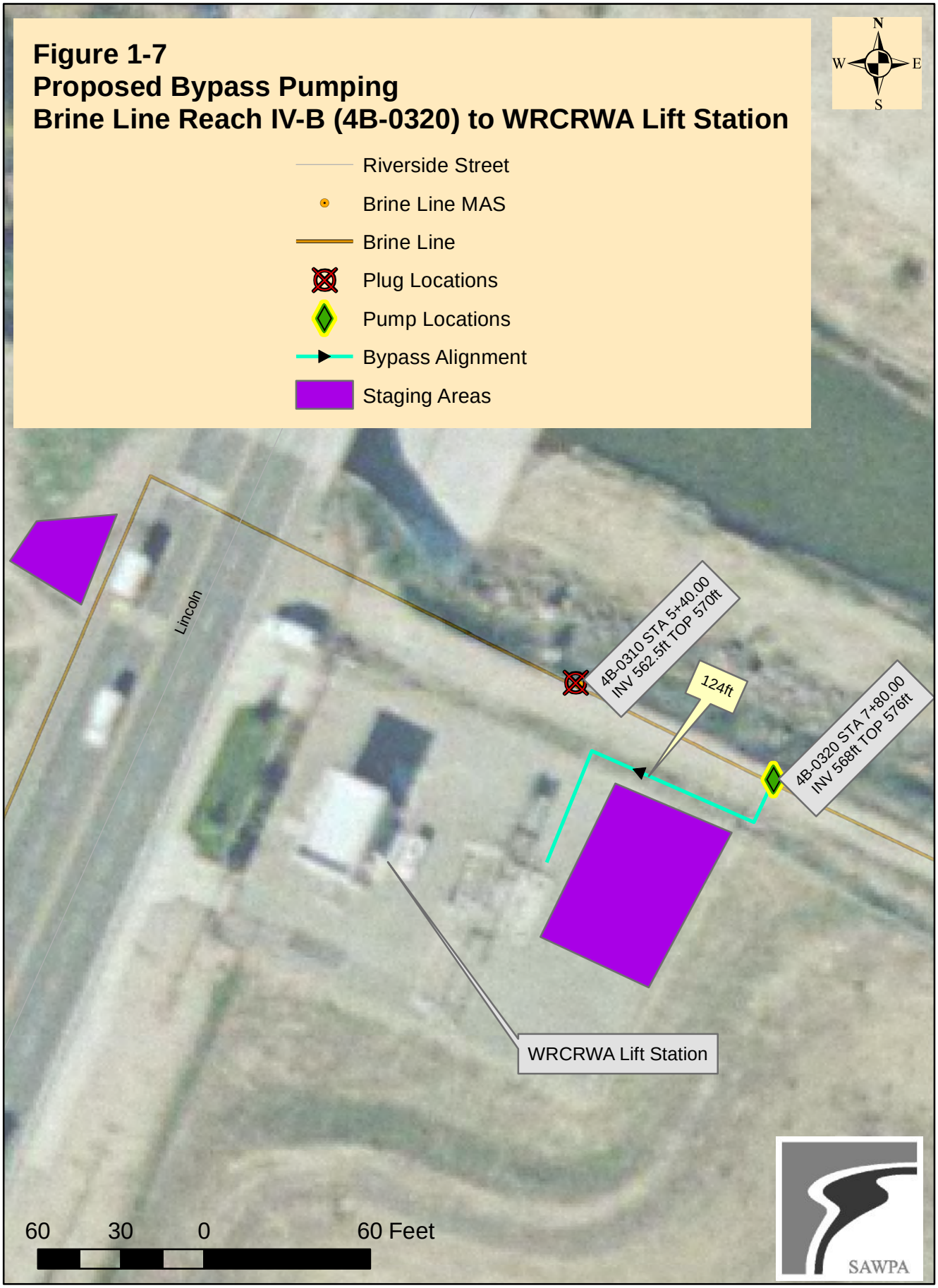


Figure 1-7
Proposed Bypass Pumping
Brine Line Reach IV-B (4B-0320) to WRCRWA Lift Station
Riverside Street
Brine Line MAS
Brine Line
Plug Locations
Pump Locations
Bypass Alignment
Staging Areas
N
W
E
S
Lincoln
4B-0310 STA 5+40.00
INV 562.5ft TOP 570ft
124ft
4B-0320 STA 7+80.00
INV 568ft TOP 576ft
WRCRWA Lift Station
60
30
0
60 Feet
SAWPA

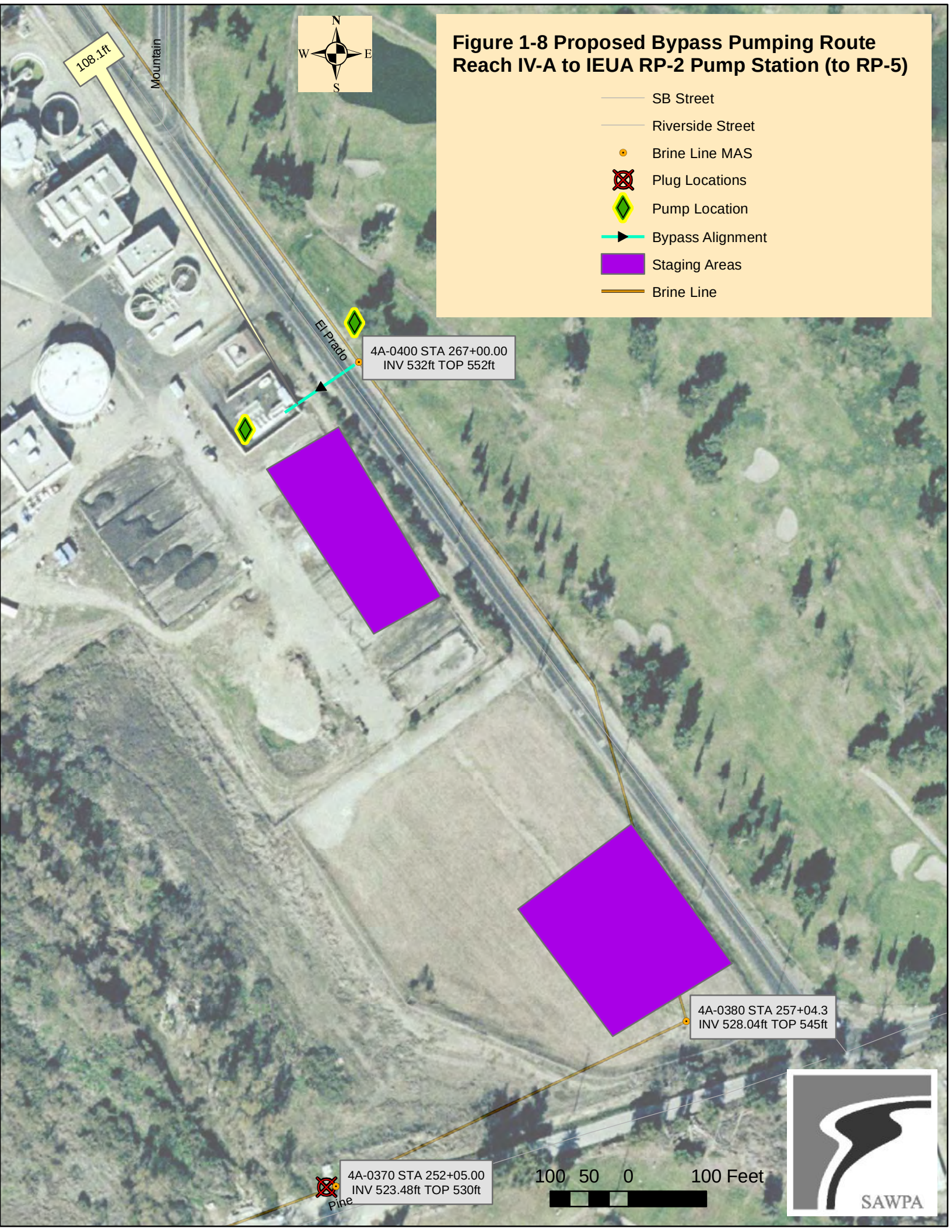


Figure 1-8 Proposed Bypass Pumping Route
Reach IV-A to IEUA RP-2 Pump Station (to RP-5)
SB Street
Riverside Street
Brine Line MAS
Plug Locations
Pump Location
Bypass Alignment
Staging Areas
Brine Line
N
W
E
S
108.1ft
Mountain
El Prado
4A-0400 STA 267+00.00
INV 532ft TOP 552ft
4A-0380 STA 257+04.3
INV 528.04ft TOP 545ft
4A-0370 STA 252+05.00
INV 523.48ft TOP 530ft
Pine
100 50 0 100 Feet
SAWPA

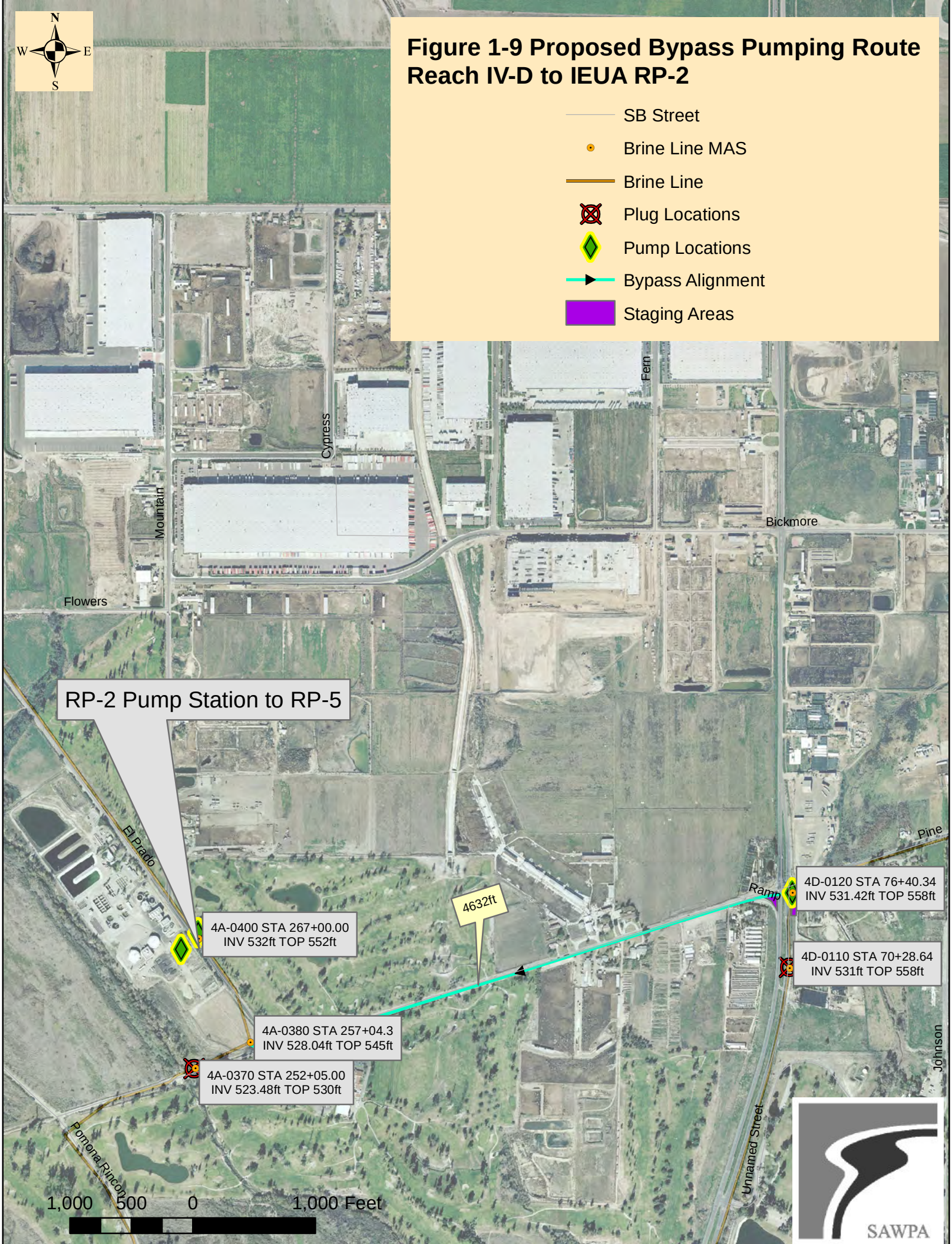


Figure 1-9 Proposed Bypass Pumping Route
Reach IV-D to IEUA RP-2
SB Street
Brine Line MAS
Brine Line
Plug Locations
Pump Locations
Bypass Alignment
Staging Areas
N
W
E
S
Cypress
Fern
Mountain
Bickmore
Flowers
RP-2 Pump Station to RP-5
El Prado
Pine
Ramp
4632ft
4D-0120 STA 76+40.34
INV 531.42ft TOP 558ft
4D-0110 STA 70+28.64
INV 531ft TOP 558ft
4A-0400 STA 267+00.00
INV 532ft TOP 552ft
4A-0380 STA 257+04.3
INV 528.04ft TOP 545ft
4A-0370 STA 252+05.00
INV 523.48ft TOP 530ft
Johnson
Pomona Rincon
Unnamed Street
1,000 500 0 1,000 Feet
SAWPA

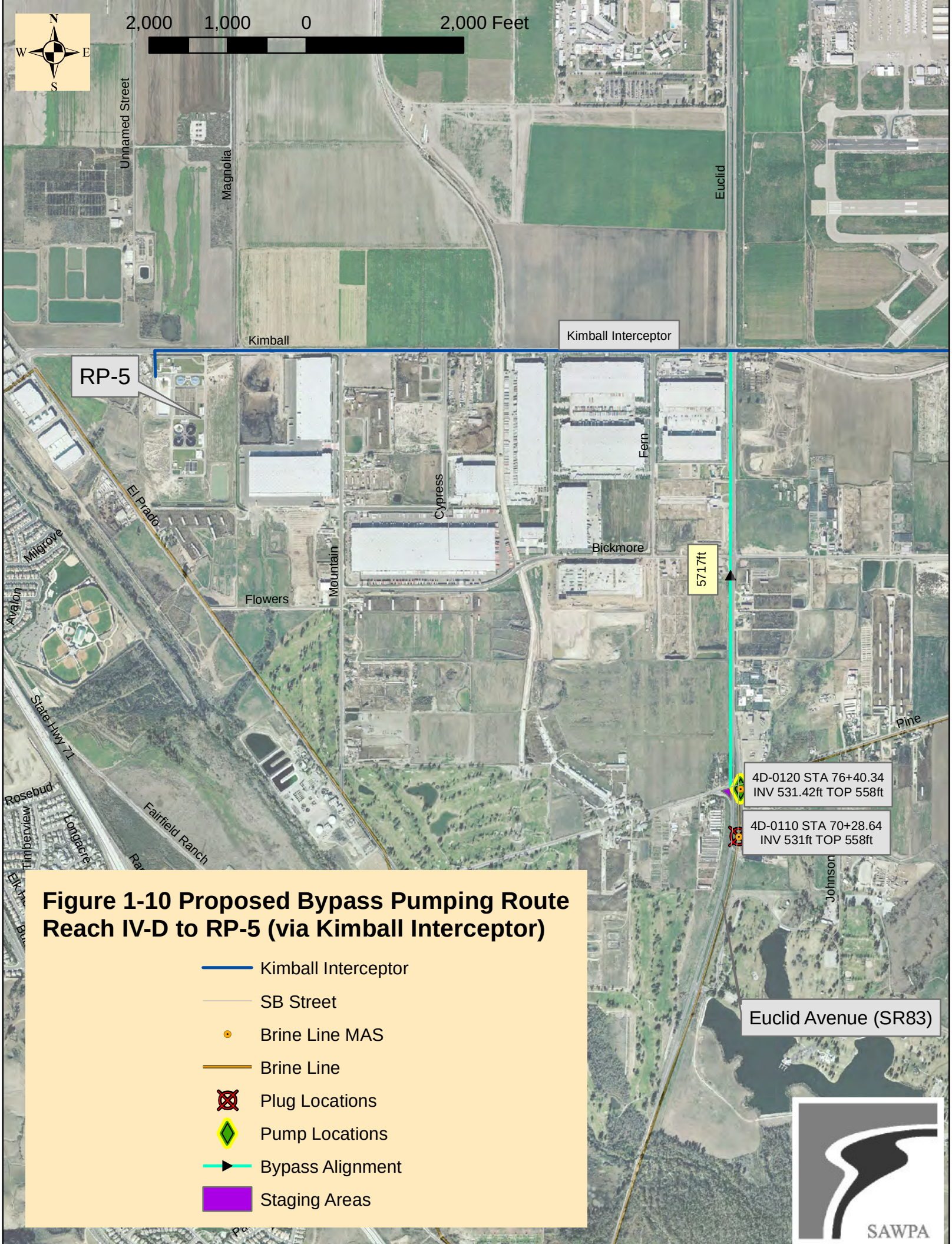
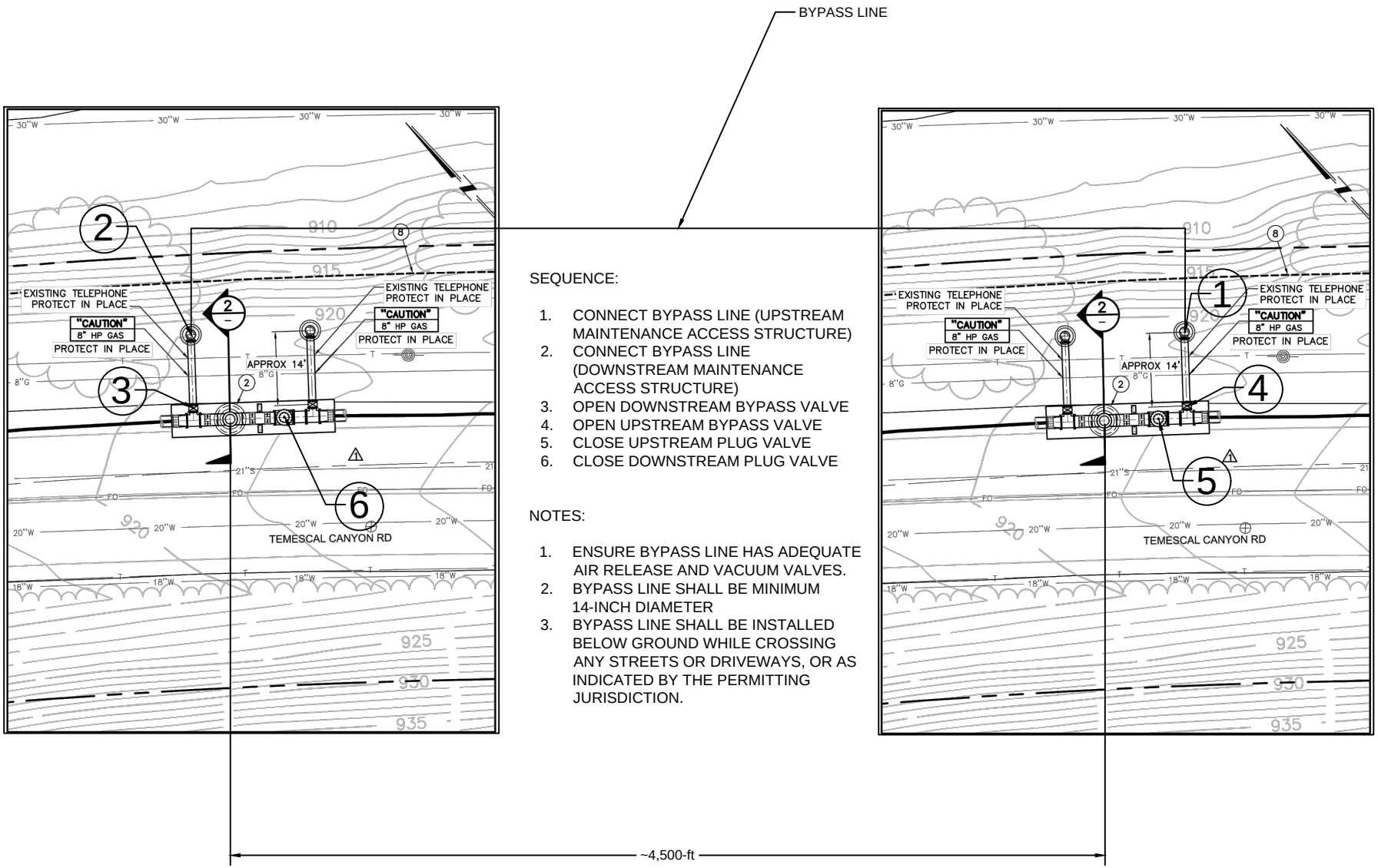


Figure 1-10 Proposed Bypass Pumping Route Reach IV-D to RP-5 (via Kimball Interceptor)

Figure 1-11 Proposed Bypass Pumping Route Reach IV-D to RP-5 (via Kimball Interceptor) [DETAIL]

FIGURE 1-12 REACH 5 - BYPASS SEQUENCE



SEQUENCE:

1. CONNECT BYPASS LINE (UPSTREAM MAINTENANCE ACCESS STRUCTURE)
2. CONNECT BYPASS LINE (DOWNSTREAM MAINTENANCE ACCESS STRUCTURE)
3. OPEN DOWNSTREAM BYPASS VALVE
4. OPEN UPSTREAM BYPASS VALVE
5. CLOSE UPSTREAM PLUG VALVE
6. CLOSE DOWNSTREAM PLUG VALVE

NOTES:

1. ENSURE BYPASS LINE HAS ADEQUATE AIR RELEASE AND VACUUM VALVES.
2. BYPASS LINE SHALL BE MINIMUM 14-INCH DIAMETER
3. BYPASS LINE SHALL BE INSTALLED BELOW GROUND WHILE CROSSING ANY STREETS OR DRIVEWAYS, OR AS INDICATED BY THE PERMITTING JURISDICTION.

Appendix D
Contractors and Suppliers

Bypass Pumping Contractors		
Company	**Contact**	**Equipment**
Foothill Engineering & Dewatering Corona	Wyndell Bradford 951/737-5391	• Steel and PVC bypass piping • Variety of diesel and electric pumps • Most pipe in stock is 12” dia. • Largest pipe dia. Is 16”
Godwin Pumps of America, Inc. Corona (951) 681-3636	James Rufing 562/572-4738 (cell) 951/278-3636	• Various bypass equipment and materials • Bower-type couplings (large joint deflection capabilities) • Fused HDPE bypass piping
Rain for Rent Riverside	Jeffrey Sowards 951/653-2171	▪ Various bypass equipment and materials ▪ Aluminum piping w/Victaulic couplings ▪ Numerous equipment yards nationwide to draw from

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Ababa Bolt Inc.	Lou 619/440-1781 619/440-5394 Fax	1466 Pioneer Way, Suite #1 El Cajon, CA 92020-1678
	Kevin Chappell Branch Manager 760/546-1781	880 Rancheros Drive San Marcos, CA 92069-2688
Advanced Sealing & Supply Co., Inc.	661/393-1177 Bakersfield, CA 93301	
Advance Products & Systems, Inc.	Allison C. 337/233-6116	P.O. Box 60399 Lafayette, LA 70596-0399
Aldrich Supply Co.	951-371-3018	1275-A Railroad Street, Ste. A Corona, CA 92882
	Bill Corey - Sales Representative 562/653-9644 562/653-9544 Fax	10929 South Street, #105B Cerritos, CA 90703-5350
American Ductile Iron Pipe	Jerry Burns 205/325/7774 205/325-1972 Fax	P.O. Box 2727 Birmingham, AL 35202
	Patrick Hamilton - District Mgr Rosemary Smud - NW, CA Joe Barik – AZ	18377Stanislaus Street Fountain Valley, CA 92708
Ameron Concrete & Steel Pipe Division	Ken Primavera 209/836-5050 x269 209/832-2115 Fax	10100 West Linne Road Tracy, CA 95376
Apco Valve & Primer Corporation (WBE)	Keith Hall – National Sales Manager Robert Mauriello - President 800-478-7458 949/361-3414 Fax	1100 Via Callejon San Clemente, CA 92673-6230

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Automatic Switch Co.	714/937-0811-Phone 714/937-1390-Fax	333 City Blvd. West, Ste. 2140 Orange, CA 92868
Baker Company	207/324-8773 Phone 207-324-3869 Fax	P.O. Box Drawer E 161 Gatehouse Road Sanford, Maine
Bakersfield Pipe & Supply	Dwight Byron - CEO 661/589-9141 661/589-3739 Fax	2903 Patton Way P.O. Box 639 Bakersfield, CA 93302
Berg-Nelson Co.	Craig Nelson 562/432-3491	1633 West 17th Street Long Beach, CA 90813
J.R. Bermingham Co., Inc.	Eddie Bonner 714/632-9370 714/632-7862 Fax	3164 E. La Palma Anaheim, CA 92806
Blair-Martin Co., Inc.	Mac Mcgee 562/595-8773 562/490-2773 Fax	1500 E. Barnett Signall Hill, CA 90755
Bonanza Nut & Bolt, Inc.	510/471-2130	4786 Sutler Gate Avenue Pleasonton, CA 94566
Brico Industries Inc.	479/646-1730 479/646-1747 Fax	4601 S. 16th Fort Smith, AZ 72901
California Piping Materials	Ron Majerick - President 949/582-2777 949/582-3954 Fax	26941 Cabot Road, Suite 137 Laguna Hills, CA 92653
Cal-State Seal (Expansion Joint Tech Division)	Bill Cloo - Customer Tech Support 800/696-6165 714/554-9080 714/554-9761 Fax	13891 Nautilus Drive Garden Grove, CA 92843
Caltrol	760-757-2200	3330 Carlsbad Blvd., #303 Carlsbad, CA 92008
Capital Westward Systems & Controls Corp	702/566-1334 702/556-8655 Fax	P.O. Box 92710 Henderson, NV 89009
Charlie's Construction Supply (WBE)	Charlie Sheldon 619/748-7037 619/679-9640 Fax	14325 Midland Road Poway, CA 92064
Chemtrol - A Division of Nibco,Inc.	812/256-8500	105 Quality Ct Charlestown, IN 47111
Clow Valve Co.	800/829-2569	902 South 2nd Street Oskaloosa, LA 52577
Clow Water Systems Company	740/622-6651	2266 South Sixth Street P.O. Box 6001 Coshocton, OH 43812-6001
Cm Distributors, Inc. (WBE)	Mary Ann "Bo" Czerwinski Trudy Ann Mangrum 760/745-1497 760/745-4177 Fax	118 South Hale Escondido, CA 92029

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Coast Turf & Utility Supply	714/978-6200	2220 E. Orangewood Avenue Anaheim, CA 92806
Columbia Specialty Company, Inc.	Tino Mohammad 562/634-6425 562/408-2914 Fax	5875 Obispo Ave Long Beach, CA 90805
Conley Corporation	Mark Raley - Inside Sales Mgr 918/299-5051	2795 East 91st Street Tulsa, OK 74137
Consumers Pipe & Supply Co. (WBE)	Ray Gonzales – Sales Manager 909/728-4828 909/728-4829 Fax	13424 Arrow Blvd Fontana, CA 92335
Consolidated Pipe & Supply	Miles Benton 205/323-7261 205/251-7838 Fax	1205 Hill Top Parkway Birmingham, AL 35204
Crane Valves	707/748-7166	3948 Teal Ct Benicia, CA 94570
Crump & Company	Stephen Crump 626/794-1685 626/577-4488 Fax	P787 West Woodbury Road #5 Altadena, CA 91001
Davis Waterworks, Inc.	Chris Anderson 702/494-1000	2829 Losee Road North Las Vegas, NV 89030
Richard S. Dawson Co.	Jerry Reynolds 626/797-9710 626/798-4659 Fax	1681 W. Second Street Pomona, CA 91766 Mailing: P.O. Box 6011 Pomona, CA 91769
Dezurik	Roger George - Municipal Sales Manager 320/259-2000 320/259-2227 Fax	250 Riverside Avenue North Sartell, MN 56377-1743
J.B. Donnell Co., Inc.	J. Stewart Henderson - President 949/489-9659 714/586-3372 Fax	24002 Via Fabricante, Unit 309 Mission Viejo, CA 92691
Downey Valve Co.	714/572-1599	3940 Prospect Avenue Yorba Linda, CA 92886
Duhig & Company, Inc.	Albert Marquez - President 760/560-0090 760/560-0098 Fax	2383 La Mirada Drive Vista, CA 92886
	David Aguilar- Sales Engineer Ray Espinoza - Manager 323/263-7161 323/263-3891 Fax	5071 Telegraph Road Los Angeles, CA 90022
Elmco Duddy	626/333-9942	15070 Proctor Avenue City of Industry, CA 91746
Samuel, son & Co.	800/631-9765	6415 East Corvette Street Los Angeles, CA 90040-1702
Ferguson Inc.	951/676-9339	43244 Rancho Way Temecula, CA 92590

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
	818/786-9720	7651 Woodman Avenue Panorama City, CA 91402
	619/515-0300	3280 Market Street San Diego, CA 92102
JD Fields & Company, Inc.	Hank Blanco - Sales 714/257-2005 714/257-2015 Fax	255 W. Central Avenue, Suite 204 Brea, CA 92821
Flexible Metal Hose Co.	Larry Coleman - Nat'l Sales Mgr 770/493-1100 770/493-1410 Fax	2467 Mountain Industrial Blvd Tucker, GA 30085
Flexonics, Inc.	Jim Darling - District Sales Mgr 415/898-3305 415/898-3354 Fax	5 Nogales Court Novato, CA 94947
Flo-Controls, Inc.	303/762-8215	2331 West Hampton Avenue Englewood, CO 80110
Flomax	Peter Leone 909/477-6800 909/477-6802 Fax	9057 Arrow Route, Suite 140 Rancho Cucamonga, CA 91730
	925/449-5900 925/449-4712 Fax	5785 Preston Ave Livermore, CA 94551
Fm Stainless Fasteners	Bill Stahl 800/749-1115 706/636-1882 Fax	1524 Ray Mountain Rd Ellijay, Georgia 30540
G.F.I. Stainless	Gorden Fluker - President Steven Fletcher - Inside 800/221-2652 209/571-1684 209/571-2445 Fax	2084 Lapham Drive Building A Modesto, CA 95354
	951-340-4444 951-340-4450 Fax	502 North Sheridan Street Corona, CA 92880
Lewis-Goetz	661-832-2959	3451 Unicorn Rd #100 Bakersfield, CA 93308
Groeniger & Company	Gene Biglione 800/503-9000 559/442-3333	2812 South Orange Avenue Fresno, CA 93725-1922
Hajoca Corporation	559-255-6816 559/255-6495Fax	5540 E. Lamona Suite 101 Fresno, CA 93727
Harrington Industrial Plastics, Inc.	John Kerr – Outside Sales Vrain Ramos - Inside Sales 858-505-4661 858-565-4679 Fax	8835 Complex Drive San Diego, CA 92123
	Ryan Scimo - Outside Sales Ryan Diaz - Inside Sales 562/941-1969 562/946-8604 Fax	10440 Ontiveros Place Unit # 2 Santa Fe Springs, CA 90670

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
	Daniel Estrada - Outside Sales Sean Salinas - office Manager 951/784-0256 951-784-5024 Fax	4111 Latham St. Riverside, CA 92501
HD Supply	(951) 657-6580 (951)657-7938 Fax	3155 Indian Avenue Perris, CA 92571
Hennesy Mechanical Sales	Pat- Sales 602/996-3444 602/966-9408	201 South 26th Street Phoenix, AZ 85034
Hitachi Maxco. Ltd	T. Walker - Envir Prod, Dept Prod Mgr 800/241-8209 770/424-9350 770/424-9145 Fax	1630 Cobb International Blvd Kennesaw, GA 30152
Hoke Controls	Mike Foster - Sales 909/923-3770 909/925-2550 Fax	2070 South Lynx Place Ontario, CA 91761
Rinker Materials	George Kerr - Plant Manager 707/255-3035 707/255-3079 Fax	385 Tower Road P.O. Box 3508 Napa, CA 94558
	602/278-3526	1011 South 43rd Avenue Phoenix, AZ 85009
Hydro-Scape Products, Inc.	John Moore - Golf Sales 858/560-6611 858/571-6514 Fax	5805 Kearny Mesa Villa Road San Diego, CA 92123
	951/734-3330 951/272-8572 Fax	360 E. Harrison St. Corona CA 92879
Industrial Gasket & Supply Company, Inc.	Rick White - Marketing Mgr 310/530-1771 310/530-9572 Fax	23018 South Normandie Avenue Torrance, CA 90502
Industrial Specialties Ltd. (MBE)	Scott Johnson - Owner 510-527-9591 510-527-9592 Fax	5635-C San Diego Street El Cerrito, CA 94530
Industrial Threaded Products, Inc.	909/466-9445 909/945-2696 Fax	12027 Arrow Route Rancho Cucamonga, CA 91739
	Ronald Futrell – President 562/802-4626 562/802-4641 Fax	515 N. Puente Street Brea, CA 92821
	800/566-8831 800/646-4249 Fax	2676 S. Maple Ave Suite A Fresno, CA 93725
Ferguson Industrial	Tedd Nicholson Mike Powell Kelli Strawhun 619/515-0300 619/239-4727 Fax	3280 Market Street San Diego, CA 92102
ITT Industries Pure-Flow	805/520-7200 805/520-7205 Fax	110 W. Cochran Street, Ste. B Simi Valley, CA 93065

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
J.D. Sales Co.	310/214-5155 310/214-5151 Fax	3547 Voyager Street, Ste. 103 Torrance, Ca 90503
	619/795-0370 619/795-0380 Fax	P.O. Box 880787 San Diego, CA 92168
J.U.R.	Jerry Usrey 909-338-2111 909-338-8428 Fax	P.O. Box 4556 Blue Jay, CA 92317
Keenan Supply Division of Hajoca	Debbie Cowan – Sales Rep 909/613-1363 909/613-1173 Fax	1341 Philadelphia St. Pomona, CA 91766
	Ed Hewitt 805/656-2000 805/656-1889 Fax	1853 Palma Drive Ventura, CA 93003
	Wes Roof – Sales Rep 909/885-4455 909/381-4539 Fax	777 West Mill Street San Bernardino, CA 92410
Kelly Pipe	800-305-3559	11680 Bloomfield Avenue Santa Fe Springs, CA 90670
	Steve Toliver - Sales Rep 602/256-2990	1617 South 40th Ave. Phoenix, AZ 85009
The Kupferle Foundry Company	Ed Clark - Sales Rep 800/231-3990 314/231-8738 314/231-2820 Fax	2511 North 9th St. St. Louis, MO 63102
Liberty Equipment & Supply Co.	Mary Roscoe 619/558-0770 619/558-0721 Fax	8597 Spectrum Lane P.O. Box 262279 San Diego, CA 92121
Lord & Sons	800/233-5673 408/293-1012 Fax	430 East Trimble Rd. San Jose, CA 95131
	800/677-5673 562/529-2445 Fax	9052 Rosecrans Ave. Bellflower, CA 90706
HD Supply Waterworks	760/744-5600	1550 West Linda Vista Drive San Marcos, CA 92078
	John Settle - Facility Mgr 951/657-6580	3155 Indian Ave. Perris, CA 92571
MRC Global	805/643-6158 805/643-4697 Fax	3382 N. Ventura Ave. Ventura, CA 93001
	Bakersfield Office 661/393-3033 661/393-1862 Fax	3000 Pegasus Drive Bakersfield, CA 93308
Milliken Valve Co., Inc.	610/861-8803 610/861-8094 Fax	190 Brodhead Road, Ste. 100 Bethlehem, PA 18017

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Milwaukee Valve Company, Inc.	Cristine Vogt 262/432-2702 262/432-2703 Fax	16550 West Stratton Drive New Berlin, WI 53151
Saint Goban	216/245-0529	1199 South Chillicothe Road Aurora, OH 44202
Mueller Steam Specialty	910/865-8241 910/865-8245 Fax	1491 NC Hwy 20 W St. Pauls, NC 28384
Nelson Dunn, Inc.	Ronnie Finley - Sales Rep 800/635-3866 714/523-9192 Fax	17707 Valley View Ave. Cerritos, CA 90703
Nibco, Inc.	Pamela Erb - Area Sales Mgr 800/234-0227	P.O. Box 1579 Carlsbad, CA 92018
Nichols-Given Associates, Inc.	Kevin Noll 303/773-1401 303/773-1434 Fax	7108 South Alton Parkway, Bldg K Englewood, CO 80112
Northwest Pipe Company	Buddy Sumpter Regional Sales Mgr 503/285-1400 (x 2346) 503/285-1400 503/240-6616 Fax	12005 N. Burgard Portland, OR 97203
	760/246-3191 760/246-2292 Fax	12351 Rancho Rd. Adelanto, CA 92301
Frank A. Olsen Company	Dennis Winslow 925/961-8888 (x 109) 925/961-8890 Fax	286 Rickenbacker Circle Livermore, CA 94551
P&F Distributors (HDPE work)	Rafael Virgen 909-799-7800 951-538-8763 (cell)	1304 E. San Bernardino Avenue San Bernardino, CA 92408
Pacific Clay Products, Inc.	Jeremy Reeves 951/674-2131 951/674-6383	14741 Lake St Lake Elsinore, CA 92530
Pacific Coast Bolt Corp	Bob Cole 800/652-6587 562/944-9549 562/944-9360 Fax	12748 East Florence Avenue Santa Fe Springs, CA 90670-4540
Pacific Corrugated Pipe Co.	Rick Wentworth - Operations Manager 800/338-5858 909/829-4235 909/829-8035 Fax	13680 Slover Avenue Fontana, CA 92335
Pacific Irrigation Supply, Inc.	760/480-0060	900 West Washington Avenue Escondido, CA 92025

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Pacific Mechanical Supply	Tarn Victor - Sales Mgr Tyler - Inside Sales 562/921-0575 562/921-9489	13705 Milroy Place Santa Fe Springs, CA 90670
	661/588-3575 661/588-3579 Fax	2721 Fruitvale Ave. Bakersfield, CA 93308
Pacific Petroleum Equipment	Scott Huff - Operations Mgr 619/688-5848	5465 Gaines Street #102 San Diego, CA 92110
Pacific Pipeline Supply	Robert Mowry 760/471-Pipe 760/471-4650 Fax	235 S Pacific Street San Marcos, CA 92068
Pacific States Cast Iron Pipe Company	Chuck Calder 951/371-1440 951/371-1446 Fax	1375 Magnolia Avenue Corona, CA 91719
Pan American Pipe & Alloy, Inc.	Brett Hunt Jack 915/595-1600 915/595-0207 Fax	840-A Kastrin Street El Paso, TX 79907
Parker Supply Co.	Mike Ingman 323-268-3581	7131 Telegraph Road Montebello, CA 90640
Pell Mell Supply, Inc.	Bob Cole 619/238-1633 619/233-6809 Fax	1305 Wilson Avenue National City, CA 91950
Perma-Pipe, Inc.	Jeff Moore 847/966-2235 847/470-1204 Fax	7720 North Lehigh Avenue Niles, IL 60648
Henry Pratt Company	Kelly Brians - District Sales Mgr. 714/832-1090 714/832-1091 Fax	14081 Yorba Street, Suite 109 Tustin, CA 92780
	Dave Burrell 559/261-2703 559/261-2711 Fax	7083 North Cedar Avenue, Ste. 304 Fresno, CA 93720
(Factory)	Ed Schutz 630/844-4000 630/844-4124 Fax	401 South Highland Avenue Aurora, IL 60506-5563
Puget Sound Pipe & Supply Co.	714/739-7100 714/739-7007 Fax	7665 Granada Drive Buena Park, CA 90621
Rain For Rent	800/742-7246	
R & D Fasteners, Inc.	Jeff Curtis 909/481-0799 909/481-0149 Fax	9444 9th Street Rancho Cucamonga, CA 91730
Raychem Corporation	800/542-8936 650/361-3333	300 Constitution Dr., Menlo Park, CA 94025-1164
Reliable Pipe Supply Co., Inc.	Gary Meese 619/233-0118 619/544-0162 Fax	1430 National Avenue P.O. Box 522 San Diego, CA 92112

Piping Material Suppliers		
Company	**Contact/Phone Number**	**Address**
R.M.B. Engineering & Sales	George Allen 714/539-0474 714/539-6224 Fax	12215 Brookhurst Street, Ste. 200 Garden Grove, Ca 92840
Ryan Herco Products Corporation	Aaron Luce - Technical Sales 800/693-1141 858/693-0662 Fax	9586 Distribution Ave., #D San Diego, CA 92121
	800/848-1141 818/973-2600 Fax	2613 W. Woodland Dr. Anaheim, CA 92801
Smith Pipe & Steel	Ray Satton 602/257-9494 602/253-8770 Fax	735 North 19th Avenue Phoenix, AZ 85009
State Pipe & Supply Co.	Don Garriga - Sales Rep 800/733-6410 909/877-9999 909/562-0145 Fax	183 S. Cedar Ave. Rialto, CA 92376
Sunrise Equipment	Wayne Hamilton 714/963-9134 714/968-8994 Fax	9351 Grand Drive P.O. Box 5733 Huntington Beach, CA 92646-5733
T & T Valve & Instruments, Inc.	Frank D. Leon 925/484-4898 925/484-4727 Fax	1181 Quarry Lane #150 Pleasanton, CA 94566
Todd Pipe & Supply	Joe Widmark - General Manager 619/275-2497	1004 Cudahy Place San Diego, CA 92110
Tripac	Bill Foster - President 951-280-4488	475 Klug Circle, Corona, CA 92880
Tyler Pipe	Marla Shives - Regional Manager 951/372-2732 951/738-1183	1001 N. Compton Ave. Corona, CA 91719
Unaflex Incorporated	Sondra Morrill - Mktg Assistant 800/327-1286	PO Box 5088 Fort Lauderdale, FL 33310
United States Pipe & Foundry Co.	Jim Grumbine 805/241-5040	3032 Shadow Hill Circle Thousand Oaks, CA 91360

Pipe Material Suppliers		
Company	**Contact/Phone Number**	**Address**
Valin Corporation	714/953-1635 714/953-2126	1701 E. Edinger Ave., Blg J Santa Ana, CA 92705
Smardan Supply Co.	626-453-0020 626-448-3758 Fax	1708 N Tyler Ave So El Monte, CA 91733
Van Leeuwen Pipe And Tube	281/582-3150 281/582-3151	10235 W Little York Road, Ste. 250 Houston, TX 77040
Victaulic Company of America	Joe Stepanski - Sales Rep Shawn Forester - Water & WW Sales 610/559-3300 610/923-3095 Fax	26682 B Almond Ave. Redlands, CA 92374
Guy L. Warden & Sons	Ted Myers 562/926-6682 562/926-1757 Fax	16626 Parkside Ave. Cerritos, CA 90703-3355
White Cap Construction Supply	(951) 682-2226	4133 Fairgrounds Riverside , CA 92501
George Yardley Co.	John Hayes 714/241-7700 714/957-2504 Fax 619/235-0410	3401 W Lake Center Drive Santa Ana, CA 92704

Temporary Facilities Rentals		
Company Name	**Contact/Phone Number**	**Address**
American Rent-A-Fence	Don Winkle - Lease Agent 562/941-3478 562/941-0757 Fax	12330 Greenstone Ave Santa Fe Springs, CA 90670
American Rigging & Supply	Bruce Yoder 619/233-5625 619/233-4887 Fax	2380 Main Street San Diego, CA 92113
Mobile Mini, Inc.	858/602-5105 800/456-1751	12345 Crosthwaite Circle Poway, CA 92064
Modular Building Concepts	Tracy Burgos - Sales Executive 858/679-1185 858/679-6804 Fax	12580 Stotler Court Poway, CA 92064
National Construction Rentals	800/352-5675	1550 E. Chestnut Ave. Santa Ana, CA 92701
Rightway	Chris Grisafe - Rental Rep 800/222-2708 951/674-8608 951/674-2918	653 West Minthorn Lake Elsinore, CA 92330
Spanky's Portable Services	Brandy Jarvis Jolene McClure 760/731-5252 760/731-7252 Fax	475 Corporate Dr Escondido, CA 92029
Sprung Instant Structures, Inc.	Joe Yobaccio - Asst Reg. Sales 800/528-9899 951/461-8240 951/461-8250 Fax	29970 Technology Drive, Ste. #112 Murrieta, CA 92563
Traffic Control Service, Inc.	800-795-4945 562-424-0266Fax	2712 E. La Cadena, Riverside, CA 92507

Miscellaneous Subcontractors		
Company Name	**Address**	**Contact/Phone**
Waste Disposal		
HazMat Trans Inc.	P.O. Box 5129 San Bernardino, CA 92412	Mike Hammer, General Manager (909) 889-5607 (office) (909) 884-8966 (fax) (909) 225-0586 (cell)
Phoenix Environmental, Inc.	1101 California Avenue, Suite 100 Corona, CA 92877	951/273-3441
Chlorination & Disinfection		
Matt Chlor	4107 North Arden Drive El Monte, CA 91731	626/443-5034 626/443-2226 Fax
Water Systems Support, Inc.	P.O. Box 27870 San Diego, CA 92128	800/818-1020 800/818-1115 Fax

Cleaning & Chemical Cleaning		
Cal-Chem Cleaning Co., Inc.	2102 Merced Street South El Monte, CA 91733	Ken Balmer - President Larry Fairman 800/444-6786 800/492-7555 626/442-4404

Railroad Construction		
J.A. Placek Construction Co.	12771 East Imperial Highway Santa Fe Springs, CA 90670	Jim Placek - President 562/944-7985 562/941-4231 Fax
Pest & Termite Control		
Contractors Termite Control, Inc.	3340 Riverside Drive, #3 Chino, CA 91710	Robert Lopez, Jr. - VP 909/464-0677 909/464-0686
Environmental Mitigation/Abatement Contractors		
Envirocon Inc.	5940 Lakeshore Dr. Cypress, CA 90630	Chris Prensa 800/499-9919 714/827-6200
Phoenix Environmental, Inc.	1101 California Avenue, Suite 202 Corona, CA 92881	Les Livingston, PM 1101 California Ave, Ste 202 877/257-6948 / Phone 805/525-3371 / Fax 951/870-1608 / Mobile

Piping Subcontractors		
Company Name	**Address**	**Contact/Phone Number**
Pipeline		
Arb, Inc.	26000 Commercentre Drive Lake Forest, CA 92630	949/598-9242
Colich & Sons, Inc.	547 W. 140th Street Gardena, CA 90248	Russ Padia 323/770-2920
Albert W. Davies, Inc.	8737 Helma Avenue Rancho Cucamonga, CA 91730	Steve 909/989-3714
Doty Bros.	11232 East Firestone Blvd Norwalk, CA 90650	Henry Barber 562/864-6566 562/864-6052 Fax
Hood Corporation	3166 Horseless Carriage Drive Norco, CA 92860 PO Box 5716	Bruce Svatos 951/520-4282 951/520-4385 Fax
Don Hubbard Contracting, Inc.	1015 Linda Vista Drive San Marcos, CA 92078	Don Hubbard Jack Rugar 619/753-1137 760/736-3241
Jamison Engineering Contractors	17197 Newhope St, Suite J Fountain Valley, CA 92708	Don Jamison (714) 434-9196 (Phone) (714) 434-3762 (Fax) (714) 620-5048 (Cell) Mike O'Reilly (714) 620-4214 (cell)
W.M. Lyles Company	1200 N. Plaza Drive Visalia, CA 93291	Richard Watson 559/651-1450 559/651-0609
	2810 Unicorn Rd. Bakersfield, CA 93380	661/387-1600 661/387-1620
Southwest Pump & Drilling, Inc.	53-381 Highway 111 Coachella, CA 92236	760/398-3977 760/398-2287 Fax

Piping Subcontractors		
Company Name	**Address**	**Contact/Phone Number**
Trautwein Construction	19792 El Rivino Rd Riverside, CA 92509	Mike Lowen 951/369-8901 909/208-2069 trautweininc@gmail.com
Mountain Cascade Inc.	555 Exchange Court P.O. Box 5050 Livermore, CA 94551-5050	Roger Williams, Vice President Randy Buckman 925/373-8370 925/373-0179 Fax
L.H. Woods & Sons Inc Relief	2115 La Mirada Dr. Vista, CA 92081	Jim Woods 760/599-5500 760/599-5510
Hot Taps & Stopples		
Koppl Company	1228 West Date Street Montebello, CA 90640	Frank 323/888-2211
T.D. Williamson, Inc.	11200 Dana Cir Cypress, CA 90630	Kevin Halliburton 310/631-1931
Piping/Mechanical		
Central Pipe Mechanical, Inc. (WBE)	385 Commercial P.O. Box 3682 El Centro, CA 92244	Nancy Nale - President 760/353-0562 Fax 760/353-8344
Harris Mechanical (Union)	909 Montreal Circle St. Paul, MN 52102	Rawley Brodeen 651/602-6500 651/602-6699 Fax
Irwin Industries	1580 West Carson Street Long Beach, CA 90810-1455	Ted Crawford 310/233-3007 310/233-3000 Office
Mountain Mechanical Contracting	903 S. School Fayetteville, AR 72702	479/521-4886 479/521-9022 Fax
A. O. Reed & Co. (Union)	PO Box 85228 San Diego, CA 92186	Michael Jones, VP 858/565-4131 858/292-6958 Fax
University Mechanical & Engineering Contractors (Union)	1168 Fesler Street El Cajon, CA 92020	Steve Shirley 619/956-2500 619/956-2300 Fax
	1200 North Sickles Drive Tempe, AZ 85281	Pete Novak 480/921-0903 480/921-1413 Fax
Fire Protection Systems		
Bradshaw Engineering Corp.	8645 Argent Street Santee, CA 92071	Bob Bradshaw 619/448-4300 619/448-0535 Fax
Simplex Grinnell Fire Protection Systems	3568 Ruffin Rd. San Diego, CA 92123	Pete Halloran - Sales Rep 858/633-9100 858/633-9101 Fax
Southwest Fire Protection Co.	215 East El Sur Street Monrovia, CA 91016	Bob Kenz 626/359-0034 626/359-6117 Fax
Pipe & Equipment Cleaning		
Delta Tech Service, Inc.	397 West Channel Road Benicia, CA 94510	Curt Johnson - Industrial Cleaning Les Davis - Operations Sup. 707/745-2080 707/745-6730 Fax

Piping Subcontractors		
Company Name	**Address**	**Contact/Phone Number**
Pipe Lining Systems		
Linabond, Inc.	12960 Bradley Avenue Sylmar, CA 91342	Jack Bayliss, President 808/120-2313 818/362-7373 818/362-5757 Fax

Construction Equipment Rentals		
Company Name	**Address**	**Contact/Phone Number**
Acme Safety & Supply Co. (MBE - Caltrans)	1616 West Ave National city, CA 91950	Richard Anderson 619/299-5100 619/542-0763 Fax
Adler Tank Rentals	11450 Mission Blvd. Mira Loma, CA 91752	800/421-7471
Aggreko Inc.	10646 Almond Ave. Fontana, CA 92335	877/788-1240 909/603-6021 Fax 888/496-6178
American Rigging & Supply	2380 Main St. San Diego, CA 92113	619-233-5625
Anthony Crane Rental (See Maxim Crane Works)	6232 Fairmount Avenue San Diego, CA 92120	Tom Coleman – Crane Sales 760/489-1300
Baker Tanks	5500 Rawlings Avenue South Gate, CA 90280	Dale Nordin – Sales Rep 800/Baker12 562/904-3680 562/904-1583 Fax
Bigge Crane & Rigging Co.	10700 Bigge Avenue San Leandro, CA 94577	Stephen Kenney - VP Proj Dev 510-638-8100
Bragg Crane Service, Inc.	13188 Dahlia Street Fontana, CA 92335	Dyke Leonard 909-350-3738
	6242 Paramount Blvd Long Beach, CA 90805	Ralph Love, Jr. 562/984-2400
Brewer Crane & Rigging, Llc	12570 Highway 67 Lakeside, CA 92040	Brent Brewer – President 619/390-8252 619/390-8294 Fax
Cabrillo Crane & Rigging Corp.	14754 Ceres Ave. Fontana, CA 92335	866/950-9862 310/834-3439 Fax
Clairemont Equipment	4726 Convoy Street San Diego, CA 92111	Mark Turner 858/278-8338 858/279-4845 Fax
United Rentals	1960 West Mission Road Escondido, CA 92025	760/796-7600
Maxim Crane Works	1101 East Spring Street Long Beach, CA 90807	562/989-5709

Construction Equipment Rentals		
Company Name	**Address**	**Contact/Phone Number**
ECCO Equipment Corporation	1417 North Susan Street Santa Ana, CA 92703	Ross Dufrene 800/851-1696 714/554-4851
El Camino Rental	5701 El Camino Real Carlsbad, CA 92008	Nick Fogel - Rental Developer 760/438-7368
Essex Crane Rental Corp	15060 Ceres Ave. Fontana, CA 92335	909/823-9055 909/823-9056 Fax
G & C Equipment Corporation (MBE)	1875 West Redondo Beach Blvd, Suite 102 Gardena, CA 90247	John Brawdy – Project Manager 310/515-6715 310/515-5046 Fax
J.D. Concrete Screed	181 East Industry Avenue La Habra, CA 90631	Daler (Owner) 800/553-7300 714/447-3048 714/447-0438 Fax
Maxim Crane Works	4545 West Van Buren Phoenix, AZ 85043	Al Bove - Senior Vice President 602/242-4681 602/276-5056 Fax
	1101 E. Spring Street Long Beach, CA 90806	562/989-5709 562/595-7665 Fax
Nixon-Egli Equipment Co.	2044 South Vineyard Ave. Ontario, CA 91761	John Skaff 909/930-1822 909/923-2356 Fax
T&T Truck & Crane Service	1375 North Olive Street #A Ventura, CA 93001 P.O. Box 1748 Ventura, CA 93002	Shawn Paul - Sales 805/648-3348 800/655-3348
RDO Rental Co.	Temecula, CA 92590	951/296-6491
Rightway	653 West Minthorn Lake Elsinore, CA 92330	Chris Grisafe - Rental Rep 800/222-2708 951/674-8608 951/674-2918 Fax
San Diego Equipment Rentals, Inc.	7585 Mission Gorge Road P.O. Box 20248 San Diego, CA 92120	619-265-0690
Savala Equipment Rentals	16402 Construction Cl. Irvine, CA 92714	Erin Savala - Equipment Mgr 949/552-1859 949/552-8597
	26340 Lester Circle Corona, CA 92883	800/672-8252 951/471-3064 Fax
Specialty Crane & Rigging	1 South Fairview Avenue Goleta, CA 93117	Steve Souza 805/967-4567 805/683-2844
	1555 East Betteravia Rd. Santa Maria, CA 93454	Greg Peters 805/922-8544 805/928-4110
Traffic Control Service, Inc	1155 West La Cadena Street Riverside, CA 92501	951/683-7575 951/683-2306 Fax

Construction Equipment Rentals		
Company Name	**Address**	**Contact/Phone Number**
Quik-Shor	13217 Laureldale Ave. Downey, CA 90242	800/493-7827 562/633-0224 562/633-0581 Fax
Insituform	1400 E. Orangethorpe Ave. Fullerton, CA 92831	714-278-1900
United Rentals	16190 Valley Boulevard Fontana, CA 92335 525 Maple Street Corona CA 92880	(909) 829-4881 (951) 735-9310
Up & Down Scaffold Inc.	5216 Naranja Street San Diego, CA 92114	Larry Luly 619/266-0542 (x 13) 619/266-0295

Asphalt/Paving Contractors		
Company Name	**Address**	**Contact/Phone Number**
All American Asphalt	P.O. Box 2229 Corona, CA 92878-2229	951/736-7600 951/739-4671
All American Service and Supplies	1776 All American Way P.O. Box 2229 Corona, CA 92878-2229	Nick Yocham 951/736-1324 951/736-7672 Fax
Hardy and Harper	1312 East Warner Ave. Santa Ana, CA 92705	714/444-1851
John R. Byerly, Inc.	2257 South Lilac Avenue Bloomington, CA 92316-2907	John Byerly 909/877-5210 Fax 909/877-1324
Rose Paving	10200 Matern Place Santa Fe Springs, CA 90670	909/620-4300 909/620-4400 Fax
Roquet Paving	2699 maryknoll Drive Colton, CA 92324	909/347-5737 909/783-2706

Appendix E

Waste Discharge Requirements Monitoring and Reporting Program for Sanitary Sewer Systems

STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

The State of California, Water Resources Control Board (hereafter State Water Board) finds:

1. The State Water Board is authorized to prescribe statewide general Waste Discharge Requirements (WDRs) for categories of discharges that involve the same or similar operations and the same or similar types of waste pursuant to Water Code section 13263(i).

2. Water Code section 13193 *et seq.* requires the Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) to gather Sanitary Sewer Overflow (SSO) information and make this information available to the public, including but not limited to, SSO cause, estimated volume, location, date, time, duration, whether or not the SSO reached or may have reached waters of the state, response and corrective action taken, and an enrollee's contact information for each SSO event. An enrollee is defined as the public entity having legal authority over the operation and maintenance of, or capital improvements to, a sanitary sewer system greater than one mile in length.

3. Water Code section 13271, *et seq.* requires notification to the California Office of Emergency Services (Cal OES), formerly the California Emergency Management Agency, for certain unauthorized discharges, including SSOs.

4. On May 2, 2006, the State Water Board adopted Order 2006-0003-DWQ, "Statewide Waste Discharge Requirements for Sanitary Sewer Systems"[1] (hereafter SSS WDRs) to comply with Water Code section 13193 and to establish the framework for the statewide SSO Reduction Program.

5. Subsection G.2 of the SSS WDRs and the Monitoring and Reporting Program (MRP) provide that the Executive Director may modify the terms of the MRP at any time.

6. On February 20, 2008, the State Water Board Executive Director adopted a revised MRP for the SSS WDRs to rectify early notification deficiencies and ensure that first responders are notified in a timely manner of SSOs discharged into waters of the state.

7. When notified of an SSO that reaches a drainage channel or surface water of the state, Cal OES, pursuant to Water Code section 13271(a)(3), forwards the SSO notification information[2] to local government agencies and first responders including local public health officials and the applicable Regional Water Board. Receipt of notifications for a single SSO event from both the SSO reporter

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[1] Available for download at:
http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2006/wqo/wqo2006_0003.pdf

[2] Cal OES Hazardous Materials Spill Reports available Online at:
http://w3.calema.ca.gov/operational/malhaz.nsf/$defaultview and http://w3.calema.ca.gov/operational/malhaz.nsf

and Cal OES is duplicative. To address this, the SSO notification requirements added by the February 20, 2008 MRP revision are being removed in this MRP revision.

8. In the February 28, 2008 Memorandum of Agreement between the State Water Board and the California Water and Environment Association (CWEA), the State Water Board committed to re-designing the CIWQS[3] Online SSO Database to allow "event" based SSO reporting versus the original "location" based reporting. Revisions to this MRP and accompanying changes to the CIWQS Online SSO Database will implement this change by allowing for multiple SSO appearance points to be associated with each SSO event caused by a single asset failure.

9. Based on stakeholder input and Water Board staff experience implementing the SSO Reduction Program, SSO categories have been revised in this MRP. In the prior version of the MRP, SSOs have been categorized as Category 1 or Category 2. This MRP implements changes to SSO categories by adding a Category 3 SSO type. This change will improve data management to further assist Water Board staff with evaluation of high threat and low threat SSOs by placing them in unique categories (i.e., Category 1 and Category 3, respectively). This change will also assist enrollees in identifying SSOs that require Cal OES notification.

10. Based on over six years of implementation of the SSS WDRs, the State Water Board concludes that the February 20, 2008 MRP must be updated to better advance the SSO Reduction Program[4] objectives, assess compliance, and enforce the requirements of the SSS WDRs.

IT IS HEREBY ORDERED THAT:

Pursuant to the authority delegated by Water Code section 13267(f), Resolution 2002-0104, and Order 2006-0003-DWQ, the MRP for the SSS WDRs (Order 2006-0003-DWQ) is hereby amended as shown in Attachment A and shall be effective on 07/26/2013.

7/30/13
Date

Thomas Howard
Thomas Howard
Executive Director

[3] California Integrated Water Quality System (CIWQS) publicly available at http://www.waterboards.ca.gov/ciwqs/publicreports.shtml

[4] Statewide Sanitary Sewer Overflow Reduction Program information is available at: http://www.waterboards.ca.gov/water_issues/programs/sso/

ATTACHMENT A

STATE WATER RESOURCES CONTROL BOARD
ORDER NO. WQ 2013-0058-EXEC

AMENDING MONITORING AND REPORTING PROGRAM
FOR
STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR
SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order 2006-0003-DWQ, "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems" (SSS WDRs). This MRP shall be effective from September 9, 2013 until it is rescinded. The Executive Director may make revisions to this MRP at any time. These revisions may include a reduction or increase in the monitoring and reporting requirements. All site specific records and data developed pursuant to the SSS WDRs and this MRP shall be complete, accurate, and justified by evidence maintained by the enrollee. Failure to comply with this MRP may subject an enrollee to civil liabilities of up to $5,000 a day per violation pursuant to Water Code section 13350; up to $1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. The State Water Resources Control Board (State Water Board) reserves the right to take any further enforcement action authorized by law.

A. SUMMARY OF MRP REQUIREMENTS

Table 1 – Spill Categories and Definitions

CATEGORIES	DEFINITIONS [see Section A on page 5 of Order 2006-0003-DWQ, for Sanitary Sewer Overflow (SSO) definition]
CATEGORY 1	Discharges of untreated or partially treated wastewater of **any volume** resulting from an enrollee's sanitary sewer system failure or flow condition that: • Reach surface water and/or reach a drainage channel tributary to a surface water; or • Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
CATEGORY 2	Discharges of untreated or partially treated wastewater of **1,000 gallons or greater** resulting from an enrollee's sanitary sewer system failure or flow condition that **do not** reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.
CATEGORY 3	All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.
PRIVATE LATERAL SEWAGE DISCHARGE (PLSD)	Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be voluntarily reported to the California Integrated Water Quality System (CIWQS) Online SSO Database.

Table 2 – Notification, Reporting, Monitoring, and Record Keeping Requirements

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION (see section B of MRP)	• Within two hours of becoming aware of any Category 1 SSO **greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water**, notify the California Office of Emergency Services (Cal OES) and obtain a notification control number.	Call Cal OES at: **(800) 852-7550**
REPORTING (see section C of MRP)	• Category 1 SSO: Submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. • Category 2 SSO: Submit draft report within 3 business days of becoming aware of the SSO and certify within 15 calendar days of the SSO end date. • Category 3 SSO: Submit certified report within 30 calendar days of the end of month in which SSO the occurred. • SSO Technical Report: Submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. • "No Spill" Certification: Certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. • Collection System Questionnaire: Update and certify every 12 months.	Enter data into the CIWQS Online SSO Database (http://ciwqs.waterboards.ca.gov/), certified by enrollee's Legally Responsible Official(s).
WATER QUALITY MONITORING (see section D of MRP)	• Conduct water quality sampling **within 48 hours** after initial SSO notification for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.	Water quality results are required to be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD KEEPING (see section E of MRP)	• SSO event records. • Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. • Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. • Collection system telemetry records if relied upon to document and/or estimate SSO Volume.	Self-maintained records shall be available during inspections or upon request.

B. NOTIFICATION REQUIREMENTS

Although Regional Water Quality Control Boards (Regional Water Boards) and the State Water Board (collectively, the Water Boards) staff do not have duties as first responders, this MRP is an appropriate mechanism to ensure that the agencies that have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any Category 1 SSO greater than or equal to 1,000 gallons that results in a discharge to a surface water or spilled in a location where it probably will be discharged to surface water, either directly or by way of a drainage channel or MS4, the enrollee shall, as soon as possible, but not later than two (2) hours after (A) the enrollee has knowledge of the discharge, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures, notify the Cal OES and obtain a notification control number.

2. To satisfy notification requirements for each applicable SSO, the enrollee shall provide the information requested by Cal OES before receiving a control number. Spill information requested by Cal OES may include:

   i. Name of person notifying Cal OES and direct return phone number.
   ii. Estimated SSO volume discharged (gallons).
   iii. If ongoing, estimated SSO discharge rate (gallons per minute).
   iv. SSO Incident Description:
      a. Brief narrative.
      b. On-scene point of contact for additional information (name and cell phone number).
      c. Date and time enrollee became aware of the SSO.
      d. Name of sanitary sewer system agency causing the SSO.
      e. SSO cause (if known).
   v. Indication of whether the SSO has been contained.
   vi. Indication of whether surface water is impacted.
   vii. Name of surface water impacted by the SSO, if applicable.
   viii. Indication of whether a drinking water supply is or may be impacted by the SSO.
   ix. Any other known SSO impacts.
   x. SSO incident location (address, city, state, and zip code).

3. Following the initial notification to Cal OES and until such time that an enrollee certifies the SSO report in the CIWQS Online SSO Database, the enrollee shall provide updates to Cal OES regarding substantial changes to the estimated volume of untreated or partially treated sewage discharged and any substantial change(s) to known impact(s).

4. PLSDs: The enrollee is strongly encouraged to notify Cal OES of discharges greater than or equal to 1,000 gallons of untreated or partially treated wastewater that result or may result in a discharge to surface water resulting from failures or flow conditions within a privately owned sewer lateral or from other private sewer asset(s) if the enrollee becomes aware of the PLSD.

C. REPORTING REQUIREMENTS

1. **CIWQS Online SSO Database Account:** All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS. These accounts allow controlled and secure entry into the CIWQS Online SSO Database.

2. **SSO Mandatory Reporting Information:** For reporting purposes, if one SSO event results in multiple appearance points in a sewer system asset, the enrollee shall complete one SSO report in the CIWQS Online SSO Database which includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that caused the SSO, and provide descriptions of the locations of all other discharge points associated with the SSO event.

3. **SSO Categories**

   i. **Category 1** – Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:

      a. Reach surface water and/or reach a drainage channel tributary to a surface water; or

      b. Reach a MS4 and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

   ii. **Category 2** – Discharges of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from an enrollee's sanitary sewer system failure or flow condition that does not reach a surface water, a drainage channel, or the MS4 unless the entire SSO volume discharged to the storm drain system is fully recovered and disposed of properly.

   iii. **Category 3** – All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.

4. **Sanitary Sewer Overflow Reporting to CIWQS - Timeframes**

   i. **Category 1 and Category 2 SSOs** – All SSOs that meet the above criteria for Category 1 or Category 2 SSOs shall be reported to the CIWQS Online SSO Database:

      a. Draft reports for Category 1 and Category 2 SSOs shall be submitted to the CIWQS Online SSO Database within three (3) business days of the enrollee becoming aware of the SSO. Minimum information that shall be reported in a draft Category 1 SSO report shall include all information identified in section 8.i.a. below. Minimum information that shall be reported in a Category 2 SSO draft report shall include all information identified in section 8.i.c below.

      b. A final Category 1 or Category 2 SSO report shall be certified through the CIWQS Online SSO Database within 15 calendar days of the end date of the SSO. Minimum information that shall be certified in the final Category 1 SSO report shall include all information identified in section 8.i.b below. Minimum information that shall be certified in a final Category 2 SSO report shall include all information identified in section 8.i.d below.

ii. **Category 3 SSOs** – All SSOs that meet the above criteria for Category 3 SSOs shall be reported to the CIWQS Online SSO Database and certified within 30 calendar days after the end of the calendar month in which the SSO occurs (e.g., all Category 3 SSOs occurring in the month of February shall be entered into the database and certified by March 30). Minimum information that shall be certified in a final Category 3 SSO report shall include all information identified in section 8.i.e below.

iii. **"No Spill" Certification** – If there are no SSOs during the calendar month, the enrollee shall either 1) certify, within 30 calendar days after the end of each calendar month, a "No Spill" certification statement in the CIWQS Online SSO Database certifying that there were no SSOs for the designated month, or 2) certify, quarterly within 30 calendar days after the end of each quarter, "No Spill" certification statements in the CIWQS Online SSO Database certifying that there were no SSOs for each month in the quarter being reported on. For quarterly reporting, the quarters are Q1 - January/ February/ March, Q2 - April/May/June, Q3 - July/August/September, and Q4 - October/November/December.

If there are no SSOs during a calendar month but the enrollee reported a PLSD, the enrollee shall still certify a "No Spill" certification statement for that month.

iv. **Amended SSO Reports** – The enrollee may update or add additional information to a certified SSO report within 120 calendar days after the SSO end date by amending the report or by adding an attachment to the SSO report in the CIWQS Online SSO Database. SSO reports certified in the CIWQS Online SSO Database prior to the adoption date of this MRP may only be amended up to 120 days after the effective date of this MRP. After 120 days, the enrollee may contact the SSO Program Manager to request to amend an SSO report if the enrollee also submits justification for why the additional information was not available prior to the end of the 120 days.

5. **SSO Technical Report**

The enrollee shall submit an SSO Technical Report in the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

i. **Causes and Circumstances of the SSO:**

a. Complete and detailed explanation of how and when the SSO was discovered.

b. Diagram showing the SSO failure point, appearance point(s), and final destination(s).

c. Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.

d. Detailed description of the cause(s) of the SSO.

e. Copies of original field crew records used to document the SSO.

f. Historical maintenance records for the failure location.

ii. **Enrollee's Response to SSO:**

a. Chronological narrative description of all actions taken by enrollee to terminate the spill.

b. Explanation of how the SSMP Overflow Emergency Response plan was implemented to respond to and mitigate the SSO.

c. Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

iii. **Water Quality Monitoring:**

a. Description of all water quality sampling activities conducted including analytical results and evaluation of the results.

b. Detailed location map illustrating all water quality sampling points.

6. **PLSDs**

Discharges of untreated or partially treated wastewater resulting from blockages or other problems within a privately owned sewer lateral connected to the enrollee's sanitary sewer system or from other private sanitary sewer system assets may be voluntarily reported to the CIWQS Online SSO Database.

i. The enrollee is also encouraged to provide notification to Cal OES per section B above when a PLSD greater than or equal to 1,000 gallons has or may result in a discharge to surface water. For any PLSD greater than or equal to 1,000 gallons regardless of the spill destination, the enrollee is also encouraged to file a spill report as required by Health and Safety Code section 5410 et. seq. and Water Code section 13271, or notify the responsible party that notification and reporting should be completed as specified above and required by State law.

ii. If a PLSD is recorded in the CIWQS Online SSO Database, the enrollee must identify the sewage discharge as occurring and caused by a private sanitary sewer system asset and should identify a responsible party (other than the enrollee), if known. Certification of PLSD reports by enrollees is not required.

7. **CIWQS Online SSO Database Unavailability**

In the event that the CIWQS Online SSO Database is not available, the enrollee must fax or e-mail all required information to the appropriate Regional Water Board office in accordance with the time schedules identified herein. In such event, the enrollee must also enter all required information into the CIWQS Online SSO Database when the database becomes available.

8. **Mandatory Information to be Included in CIWQS Online SSO Reporting**

All enrollees shall obtain a CIWQS Online SSO Database account and receive a "Username" and "Password" by registering through CIWQS which can be reached at CIWQS@waterboards.ca.gov or by calling (866) 792-4977, M-F, 8 A.M. to 5 P.M. These accounts will allow controlled and secure entry into the CIWQS Online SSO Database. Additionally, within thirty (30) days of initial enrollment and prior to recording SSOs into the CIWQS Online SSO Database, all enrollees must complete a Collection System Questionnaire (Questionnaire). The Questionnaire shall be updated at least once every 12 months.

i. **SSO Reports**

At a minimum, the following mandatory information shall be reported prior to finalizing and certifying an SSO report for each category of SSO:

a. **Draft Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 1 SSO report:

1. SSO Contact Information: Name and telephone number of enrollee contact person who can answer specific questions about the SSO being reported.
2. SSO Location Name.
3. Location of the overflow event (SSO) by entering GPS coordinates. If a single overflow event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the SSO appearance point explanation field.
4. Whether or not the SSO reached surface water, a drainage channel, or entered and was discharged from a drainage structure.
5. Whether or not the SSO reached a municipal separate storm drain system.
6. Whether or not the total SSO volume that reached a municipal separate storm drain system was fully recovered.
7. Estimate of the SSO volume, inclusive of all discharge point(s).
8. Estimate of the SSO volume that reached surface water, a drainage channel, or was not recovered from a storm drain.
9. Estimate of the SSO volume recovered (if applicable).
10. Number of SSO appearance point(s).
11. Description and location of SSO appearance point(s). If a single sanitary sewer system failure results in multiple SSO appearance points, each appearance point must be described.
12. SSO start date and time.
13. Date and time the enrollee was notified of, or self-discovered, the SSO.
14. Estimated operator arrival time.
15. For spills greater than or equal to 1,000 gallons, the date and time Cal OES was called.
16. For spills greater than or equal to 1,000 gallons, the Cal OES control number.

b. **Certified Category 1 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 1 SSO report, in addition to all fields in section 8.i.a :

1. Description of SSO destination(s).
2. SSO end date and time.
3. SSO causes (mainline blockage, roots, etc.).
4. SSO failure point (main, lateral, etc.).
5. Whether or not the spill was associated with a storm event.
6. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the overflow; and a schedule of major milestones for those steps.
7. Description of spill response activities.
8. Spill response completion date.
9. Whether or not there is an ongoing investigation, the reasons for the investigation and the expected date of completion.

10. Whether or not a beach closure occurred or may have occurred as a result of the SSO.
11. Whether or not health warnings were posted as a result of the SSO.
12. Name of beach(es) closed and/or impacted. If no beach was impacted, NA shall be selected.
13. Name of surface water(s) impacted.
14. If water quality samples were collected, identify parameters the water quality samples were analyzed for. If no samples were taken, NA shall be selected.
15. If water quality samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA shall be selected.
16. Description of methodology(ies) and type of data relied upon for estimations of the SSO volume discharged and recovered.
17. SSO Certification: Upon SSO Certification, the CIWQS Online SSO Database will issue a final SSO identification (ID) number.

c. **Draft Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a draft Category 2 SSO report:

   1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO.

d. **Certified Category 2 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 2 SSO report:

   1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-9, and 17 in section 8.i.b above for Certified Category 1 SSO.

e. **Certified Category 3 SSOs**: At a minimum, the following mandatory information shall be reported for a certified Category 3 SSO report:

   1. Items 1-14 in section 8.i.a above for Draft Category 1 SSO and Items 1-6, and 17 in section 8.i.b above for Certified Category 1 SSO.

ii. **Reporting SSOs to Other Regulatory Agencies**

These reporting requirements do not preclude an enrollee from reporting SSOs to other regulatory agencies pursuant to state law. In addition, these reporting requirements do not replace other Regional Water Board notification and reporting requirements for SSOs.

iii. **Collection System Questionnaire**

The required Questionnaire (see subsection G of the SSS WDRs) provides the Water Boards with site-specific information related to the enrollee's sanitary sewer system. The enrollee shall complete and certify the Questionnaire at least every 12 months to facilitate program implementation, compliance assessment, and enforcement response.

iv. **SSMP Availability**

The enrollee shall provide the publicly available internet web site address to the CIWQS Online SSO Database where a downloadable copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP is posted. If all of the SSMP documentation listed in this subsection is not publicly available on the Internet, the enrollee shall comply with the following procedure:

a. Submit an **electronic** copy of the enrollee's approved SSMP, critical supporting documents referenced in the SSMP, and proof of local governing board approval of the SSMP to the State Water Board, within 30 days of that approval and within 30 days of any subsequent SSMP re-certifications, to the following mailing address:

State Water Resources Control Board
Division of Water Quality
Attn: SSO Program Manager
1001 I Street, 15th Floor, Sacramento, CA 95814

D. WATER QUALITY MONITORING REQUIREMENTS:

To comply with subsection D.7(v) of the SSS WDRs, the enrollee shall develop and implement an SSO Water Quality Monitoring Program to assess impacts from SSOs to surface waters in which 50,000 gallons or greater are spilled to surface waters. The SSO Water Quality Monitoring Program, shall, at a minimum:

1. Contain protocols for water quality monitoring.
2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.).
3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
5. Within 48 hours of the enrollee becoming aware of the SSO, require water quality sampling for, at a minimum, the following constituents:
   i. Ammonia
   ii. Appropriate Bacterial indicator(s) per the applicable Basin Plan water quality objective or Regional Board direction which may include total and fecal coliform, enterococcus, and e-coli.

E. RECORD KEEPING REQUIREMENTS:

The following records shall be maintained by the enrollee for a minimum of five (5) years and shall be made available for review by the Water Boards during an onsite inspection or through an information request:

1. General Records: The enrollee shall maintain records to document compliance with all provisions of the SSS WDRs and this MRP for each sanitary sewer system owned including any required records generated by an enrollee's sanitary sewer system contractor(s).
2. SSO Records: The enrollee shall maintain records for each SSO event, including but not limited to:
   i. Complaint records documenting how the enrollee responded to all notifications of possible or actual SSOs, both during and after business hours, including complaints that do not

result in SSOs. Each complaint record shall, at a minimum, include the following information:

a. Date, time, and method of notification.

b. Date and time the complainant or informant first noticed the SSO.

c. Narrative description of the complaint, including any information the caller can provide regarding whether or not the complainant or informant reporting the potential SSO knows if the SSO has reached surface waters, drainage channels or storm drains.

d. Follow-up return contact information for complainant or informant for each complaint received, if not reported anonymously.

e. Final resolution of the complaint.

ii. Records documenting steps and/or remedial actions undertaken by enrollee, using all available information, to comply with section D.7 of the SSS WDRs.

iii. Records documenting how all estimate(s) of volume(s) discharged and, if applicable, volume(s) recovered were calculated.

3. Records documenting all changes made to the SSMP since its last certification indicating when a subsection(s) of the SSMP was changed and/or updated and who authorized the change or update. These records shall be attached to the SSMP.

4. Electronic monitoring records relied upon for documenting SSO events and/or estimating the SSO volume discharged, including, but not limited to records from:

i. Supervisory Control and Data Acquisition (SCADA) systems

ii. Alarm system(s)

iii. Flow monitoring device(s) or other instrument(s) used to estimate wastewater levels, flow rates and/or volumes.

F. CERTIFICATION

1. All information required to be reported into the CIWQS Online SSO Database shall be certified by a person designated as described in subsection J of the SSS WDRs. This designated person is also known as a Legally Responsible Official (LRO). An enrollee may have more than one LRO.

2. Any designated person (i.e. an LRO) shall be registered with the State Water Board to certify reports in accordance with the CIWQS protocols for reporting.

3. Data Submitter (DS): Any enrollee employee or contractor may enter draft data into the CIWQS Online SSO Database on behalf of the enrollee if authorized by the LRO and registered with the State Water Board. However, only LROs may certify reports in CIWQS.

4. The enrollee shall maintain continuous coverage by an LRO. Any change of a registered LRO or DS (e.g., retired staff), including deactivation or a change to the LRO's or DS's contact information, shall be submitted by the enrollee to the State Water Board within 30 days of the change by calling (866) 792-4977 or e-mailing help@ciwqs.waterboards.ca.gov.

5. A registered designated person (i.e., an LRO) shall certify all required reports under penalty of perjury laws of the state as stated in the CIWQS Online SSO Database at the time of certification.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of an order amended by the Executive Director of the State Water Resources Control Board.

7/30/13
Date

Jeanine Townsend
Clerk to the Board

Appendix F

Field Forms for Filing Online SSO Reporting

Santa Ana Watershed Project Authority (SAWPA)

REPORTABLE INCIDENT NOTIFICATION SEWER SPILL LOG

NOTE: Any spill over 1,000 gallons must be reported to Cal OES

Date: _____ *Time of Incident:*_____ *Time Incident Secured:* _____

Operator Reporting: _____ *Exact Location of Incident:* _____

Description of Incident and Cause or Suspected Cause: _____

_____

_____

_____

Amount Spilled: _____ *Estimated Overflow Rate GPM:* _____

How Estimated Volume was Calculated: _____

Fate of Material Discharged: _____

Was there any measurable precipitation 72 hours prior to the incident?: Yes__ No__

After Hours Notification

AGENCY	PHONE	TIME	CONTACT/CONTACTED
WMWD OPS Supervisor	951-712-3070		Alex Chang
OPS Superintendent	951-656-0182 951-809-4423		
WMWD Collections On-Call	951-830-8206		
SAWPA Office After Hours Emergency	951-354-4220 951-324-8680		
CA Regional Water Quality Control Board (CRWQCB)	951-320-6362 951-782-4130 951-781-6288 fax		Najah Amin
OCSD Control Center	714-593-7025		
Riverside County Dept of Health After Hours Emergency	951-358-7100 951-782-2977		Kim Saruwatari
California State Parks Department of Fish and Game	951-443-2969		
Riverside County Flood Control & Water Conservation District	951-961-9574		David Ortega
CA Office of Emergency Services (Cal OES) Public Safety	916-657-9494		
Riverside County Hazardous Materials Division	951-358-5055		
San Bernardino County Department of Health Services (DOHS)	909-356-3805		
San Bernardino County Fire Hazardous Materials	909-386-8463		Doug Snyder

Notified Upstream Dischargers to Terminate: Yes__ No__ Who/Time: _____

Response Actions Taken/Cleanup Efforts ***(Note: Lime may be used if in an area where there is minimal contact with people and no chance of the lime entering a stormdrain, river or lake.)*** **:**

_____

_____

Overflow Volume Recovered: _____ **Overflow Volume Released to Environment:** _____

Follow Up Required: Yes__ No__ If yes, describe actions taken: _____

Written Notification Required: Yes__ No__

Appendix G
Police, Fire Department, and City Contacts for Brine Line Reaches

POLICE, SHERIFF, FIRE DEPARTMENT AND CITY/COUNTY CONTACT LIST

	CONTACT	PHONE #
REACH IV-A		
CHINO, CITY OF	POLICE	909-334-3000
	FIRE DEPARTMENT	909-902-5260
	PUBLIC WORKS	909-334-3265
RIVERSIDE, COUNTY OF	SHERIFF	951-776-1099
	FIRE DEPARTMENT	951-685-6382
SAN BERNARDINO, COUNTY OF	SHERIFF	909-387-8313
	FIRE DEPARTMENT	909-387-5974
	PUBLIC WORKS	909-387-7910
REACH IV-B		
CORONA, CITY OF	POLICE	951-736-2330
	FIRE DEPARTMENT	951-736-2220
	PUBLIC WORKS	951-736-2266
NORCO, CITY OF	POLICE (SHERIFF)	951-270-5673
	FIRE DEPARTMENT	951-737-8097 x4716
	PUBLIC WORKS	951-270-5607
RIVERSIDE, CITY OF	POLICE	951-826-5700
	FIRE DEPARTMENT	951-826-5321
	PUBLIC WORKS	951-826-5311
REACH IV-D		
CHINO, CITY OF	POLICE	909-334-3000
	FIRE DEPARTMENT	909-902-5260
	PUBLIC WORKS	909-334-3265
RIALTO, CITY OF	POLICE	909-820-2550
	FIRE DEPARTMENT	909-820-2501
	PUBLIC WORKS	909-820-2602
RIVERSIDE, COUNTY OF	SHERIFF	951-955-2600
	FIRE DEPARTMENT	951-685-6382
SAN BERNARDINO, COUNTY OF	SHERIFF	909-387-8313
	FIRE DEPARTMENT	909-387-5974
REACH IV-E		
COLTON, CITY OF	POLICE	909-370-5000
	FIRE DEPARTMENT	909-370-5100
	PUBLIC WORKS	909-370-5065
RIALTO, CITY OF	POLICE	909-820-2550
	FIRE DEPARTMENT	909-820-2501
	PUBLIC WORKS	909-820-2602
SAN BERNARDINO, CITY OF	POLICE	909-384-5742
	FIRE DEPARTMENT	909-356-3805
	PUBLIC WORKS	909-384-5140
SAN BERNARDINO, COUNTY OF	SHERIFF	909-387-8313
	FIRE DEPARTMENT	909-387-5974
REACH V		
CORONA, CITY OF	POLICE	951-736-2330
	FIRE DEPARTMENT	951-736-2220
	PUBLIC WORKS	951-736-2266
LAKE ELSINORE, CITY OF	POLICE	951-245-3300
	FIRE DEPARTMENT	951-674-3124 x225
RIVERSIDE, COUNTY OF	SHERIFF	951-955-2600
	FIRE DEPARTMENT	951-685-6382

<u>Appendix H</u>
Pollutant Sampling Requirements

After an SSO, samples must be taken and tested for the following parameters:

Pollutant	Method	Holding time	Type of container	Preservation[2]	Minimum volume req.
TDS	Field measured	N/A	N/A	N/A	N/A
pH	Field measured	N/A	N/A	N/A	N/A
VSS	SM 2540 D	7 days	HDPE	None	1 liter
TSS	SM 2540 D	7 days	HDPE	None	1 liter
Oil and Grease	SM 5520 B	28 days	Amber (grab only)	H_2SO_4	500 ml
BOD	SM 5210 B	48 hours	HDPE	None	1 liter
COD	SM 5220 D	28 days	Glass	H_2SO_4	100 ml
Metals	EPA 200.7	180 days	HDPE	HNO_3	100 ml
Total Coliform[1]	SM9221B, 9223	8 hours	Plastic, Glass[3]	$Na_2S_2O_3$	100 ml
Fecal Coliform[1]	SM9221B, 9223	8 hours	Plastic, Glass[3]	$Na_2S_2O_3$	100 ml
Pesticides[1]	EPA 608	7 days	Amber (Teflon lined cap)	None	1 liter

[1]Sampling of these pollutants only for SSOs on Reach 4D, 4A lower, and 4B lower (downstream of South Regional Pump Station ONLY).
[2]All samples must be delivered to the lab at a temperature of 6°C.
[3]Container must be sterilized.

Inland Empire Brine Line
SSO Sampling Plan

Sheet Number: _____ of _____
Date: _____
Sampling by: _____

SSO Location: _____

Constituents - Field Tests

Date ---------->											
Sample location -->											
Parameter	Units										
TDS											
pH											
Temp.											
D.O.											

Sampling locations
Draw sketch as needed, identifying test locations

Remarks: _____

SAWPA Chain of Custody

Facility Name:		Facility Address:		Permit #
Lab:		Sample Collection Information	Composite Sample Collection Time	Flow Information
Address:		Sampler #	Date / Time	Date / Time / Reading / Notes:
		Sample Color/Appearance	From	Set
Phone/Fax:			To	Pickup
Client:		Sample/Flow Notes		Multiplier
Contact				Total Flow
Phone				Split Sample ? Y N with:
Turn Around				
Sample Purpose	Routine/Resample/Special			
Sample Matrix	W / WW / Solid / GW Other:			
Sampler Information				
Name:				
Employer:				
Signature:				

Analysis Required

Analysis	Preservative	Method	Vol/Bottle	Hardness (Report Ca and Mg)	Calcium - Dissolved	ICP Metals: Ca / Mg / Na / K / Fe	Arsenic, Cadmium, Copper, Chromium, Nickel, Silver, Lead, Zinc	Mercury	TTOs	TTOs	Pesticides	PCBs	BOD	DOC	TDS	TSS	VSS	Alkalinity (as $CaCO_3$) Report Hydroxide / Carbonate /	Orthophosphate - Total / Diss.	Cyanide - Total / Amenable	Sulfide - Total	Sulfide - Diss. (field flocculation)	O&G Total/Non-Polar/Polar-FOG	Phosphorous - Total	Phosphorous - Dissolved	Organic Carbon, Particulate	Organic Carbon, Total	Silica	Other:	Other:	Other:	Total Number of Containers	Sample Method
	HNO_3	EPA 200.7	100 mL P																														
	None	EPA 200.7	100 mL P																														
	HNO_3	EPA 200.7/ 200.8	100 mL P																														
	HNO_3	EPA 200.8	100 mL P																														
	HNO_3	EPA 245.1	100 mL P																														
	HCl	EPA 624	4x40 ml VOA																														
	None	EPA 625	1L AG-TLC																														
	None	EPA 608	1L AG-TLC																														
	None	EPA 608	1L AG-TLC																														
	None	SM5210B	300 mL P																														
	H_2SO_4	SM5310C	100 mL G																														
	None	SM2540C	1L P																														
	None	SM2540D	1L P																														
	None	SM2540E	1L P																														
	None	SM2320B	100 mL P																														
	None	SM4500PE	100 mL P																														
	NaOH	SM4500CNE	250 mL P																														
	ZnAc, NaOH	SM4500S2D	100 mL P																														
	NaOH	SM4500S2D	100 mL P																														
	H_2SO_4	EPA1664	1L AG																														
	NaOH	SM 4500P	100 mL P																														
	None	SM 4500P	100 mL P																														
	None	SM 5310B - 2k	150 mL G																														
	H_2SO_4	SM 5310B - 2k	100 mL P																														
	None	EPA 200.7	100 mL P																														

Location/Sample ID	Date	Time	Analysis																														

Field Test Results

pH:

Temp:

Sulfide:

Other: (indicate)

Notes

TSS/VSS analyze within 72 hr

Notes

Relinqueshed By (Name/Sign)	Company	Date	Time	Received By (Name/Sign)	Company

Sample Integrity Upon Receipt	(For Lab Use Only)		Lab Notes
Sample on Ice?	◯ Yes ◯ No ◯ N/A	Temperature (°C)	
Custody Seals?	◯ Yes ◯ No ◯ N/A	Lab No.	

Appendix I
Discharger Contingency Plans

(Appendix I)

Brine Line Dischargers' Contingency Plans

Facility	Contingency Plan
Agua Mansa Power Plant	Shutdown and Lock out and tag out both oil/water separator discharge pumps
Angelica Textile Service	Alternative discharge point
Anita B. Smith Treatment Facility	Cease Brine Line discharge, use on-site storage; use Baker tanks or similar
Arlington Desalter	Shutdown
California Institution for Men	Use onsite storage tank 55,000; then haul brine to alternative disposal site
California Institution for Women	Shut off incoming water sources to facility, bring in portable toilets, pump residual wastewater from discharge sump
C.C. Graber	Alternative discharge point (K Pure Waterworks)
Chemicals Inc.	Use 17,000 gallon on-site storage
Chino I	Shutdown
Chino II	Shutdown
Chino Development Corporation	Shutdown and run temporary force main to IEUA Regional Plant 2 & notify all residences
Corona Regional Medical Center	Divert to Corona WWTP Ponds; curtail water softening and use exchange tanks for the boilers
City of Corona Water Reclamation Facility No. 1	Cease SARI discharge, divert to Corona POTW
Dart Containers	Cease the discharge
Decra Roofing	Alternative discharge point (HazMat Trans)
Del Real Foods	Divert industrial wastewaters to the 27,000 gallon Equalization Tank (located by the DAF unit)
Eastside Water Treatment Plant	Alternative discharge point
EMWD Connections	Shutdown all direct connection. Re-route Waste Haulers to open Station
EMWD Energy Dissipater	Shutdown
EMWD Regional Water Reclamation Facility	Not a Direct Discharger, therefore will not discharge waste water into SARI Line in the event of emergency
Farmdale Creamery	Shutdown
Frutarom	Use 30,000 gallon on-site storage
Giuliano & Sons Briners	Use on-site storage, curtail production
Green River Golf Course	Cease the discharge
IEUA Collection Station	Stop all liquid waste haulers from physically entering the station
Infineon Technologies Americas Corp.	Alternative discharge point (WMWD, IEUA, or OCSD collection stations)
Inland Bioenergy	Cease the discharge
Inland Empire Energy Center	Discontinue discharge within a two-hour time period

Facility	Contingency Plan
JCSD Connections	Cease high TDS dischargers operations; divert to WRCRWA
La Sierra University	Alternative discharge point (HazMat Trans or Southwest Processors)
Loma Linda Medical Center	Alternative discharge point (Lakeland Processing Co. or Liquid Environmental Solutions)
Loma Linda University Power Plant	Alternative discharge point (K Pure Waterworks)
Magnolia Foods	Shutdown and arrange haulers to pump out wastewater
Mission Linen	Shutdown, send garments to alternate plant, utilize on-site storage
Mountainview Power Plant	Use on-site storage tanks
OLS Energy	Onsite storage, shutdown
Patton State Hospital	Alternative discharge point (Southwest Processors)
Prudential Overall Supply	Shutdown
Qualified Mobile Inc.	Stop ion-exchange process; use alternative company for this process
Rayne Water Conditioning	Cease the discharge
Repet, Inc.	Shutdown
San Antonio Regional Hospital	Alternative discharge point
SBMWD Water Reclamation Plant	Use onsite storage and Rapid Infiltration & Extraction (RIX)
ShawCor Pipe Protection	Cease discharge and use alternative discharge point
Sierra Aluminum	Alternative discharge point (HazMat Trans.)
Stringfellow	Cease Brine Line discharge, divert to OCSD collection station
Temescal Desalter	Shutdown
Wakunaga of America Co., Mira Loma Plant No. 1	Shutdown
Wakunaga of America Co., Mira Loma Plant No. 2	Shutdown
Wellington Foods	Capture Wastewater beneath and above ground holding tanks and dispose directly to the City of Corona wastewater line w/ approval
WMWD Collection Station	Stop all liquid waste haulers from physically entering the station
WRCRWA	Ensure that SRPS does not overflow to the Brine Line & mobilize pumps if there was a major power failure

Updated February 2018

Appendix J
SAWPA Emergency Telephone Script and Tree

BRINE LINE EMERGENCY Telephone Script

(SAWPA Internal Use)

Hello, this is _____ from the Santa Ana Watershed Project Authority (SAWPA). This is an emergency notification requiring your immediate attention. You are being notified that there has been a failure of the Inland Empire Brine Line and you are required to immediately cease discharge into the Brine Line until further notice and to implement your Contingency Plan.

Once you have fully shut down, please call SAWPA at (951) 324-8680 to confirm your compliance. An alternate number to call is (951) 354-4220.

For any additional questions, please contact _____. Thank you.

Note: Use attached to log name, title, date, time and response of person spoken to.

Emergency Phone Tree

On-call person calls Carlos (951) 941-7611 and/or David (951) 538-3250

David calls Lucas (951) 415-5572, Michael (951) 840-7335,

and Rich (909) 841-6998

Carlos calls Matt (951) 202-0715, Scott (909) 772-3489 and Brian (951) 215-9611

See Appendix B "Emergency Contact List" for phone numbers and contact person for your assigned Reach(es). Use script above for initial contact. Tracking sheets are attached for your use.

Carlos

1. EMWD
2. Reach IV-B (A-D) and Reach V

Matt

1. WMWD
2. Reach IV-B (E-Z)

Michael

1. SBVMWD
2. YVWD
3. IEUA
4. Reach IV, IV-A and IV-E

Lucas

1. OCSD
2. JCSD
3. Reach IV-D

Brine Line Emergency Tracking Sheet

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

Response: ____

____

____

____

= =

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

Response: ____

____

____

____

= =

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

Response: ____

____

____

____

Brine Line Emergency Tracking Sheet

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

Response: ____

____

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____

= =

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

Response: ____

____

____

____

= =

Spoke To:______________________ Title: ______________________________

Date: _________________________ Time: ______________________________

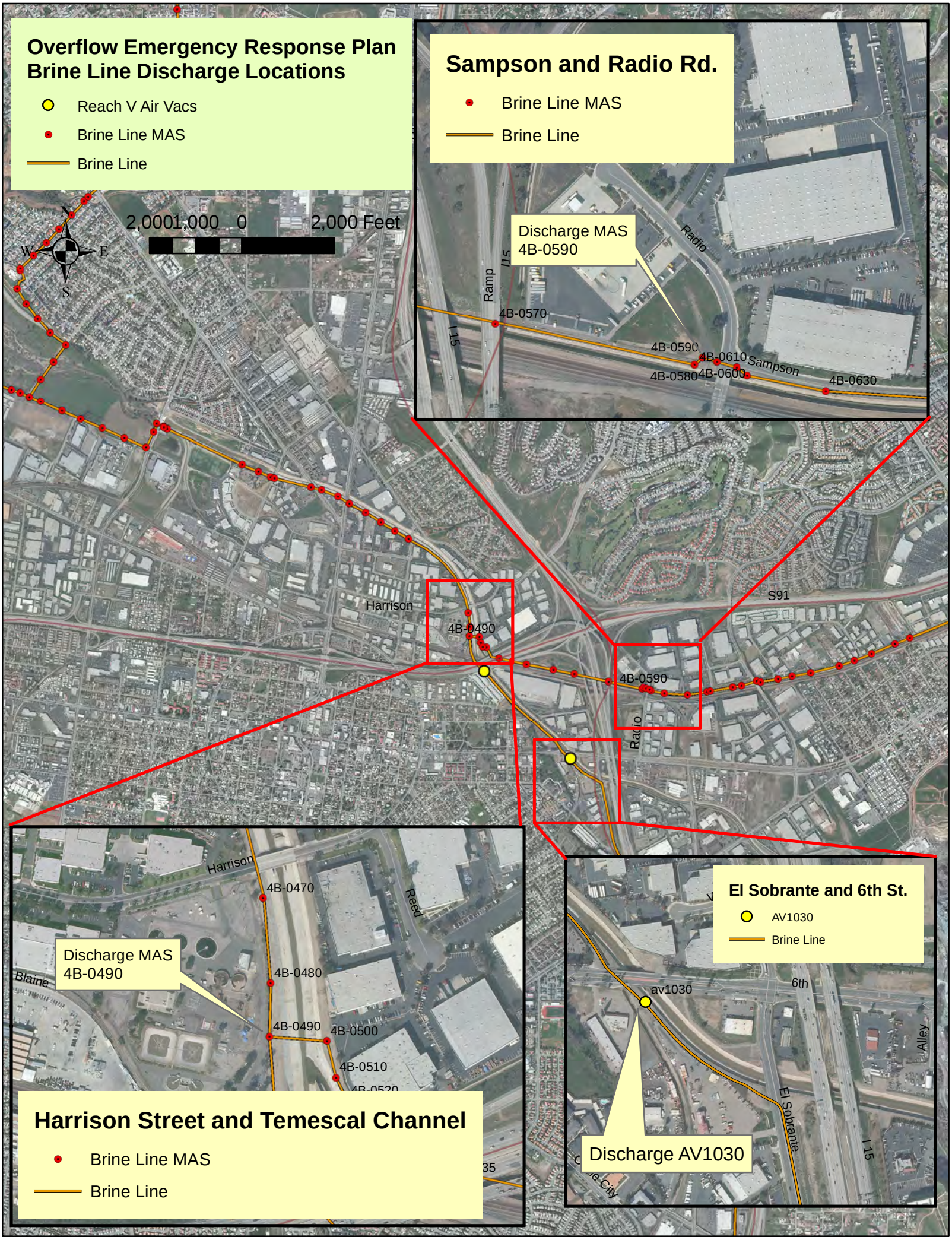
Response: ____

____

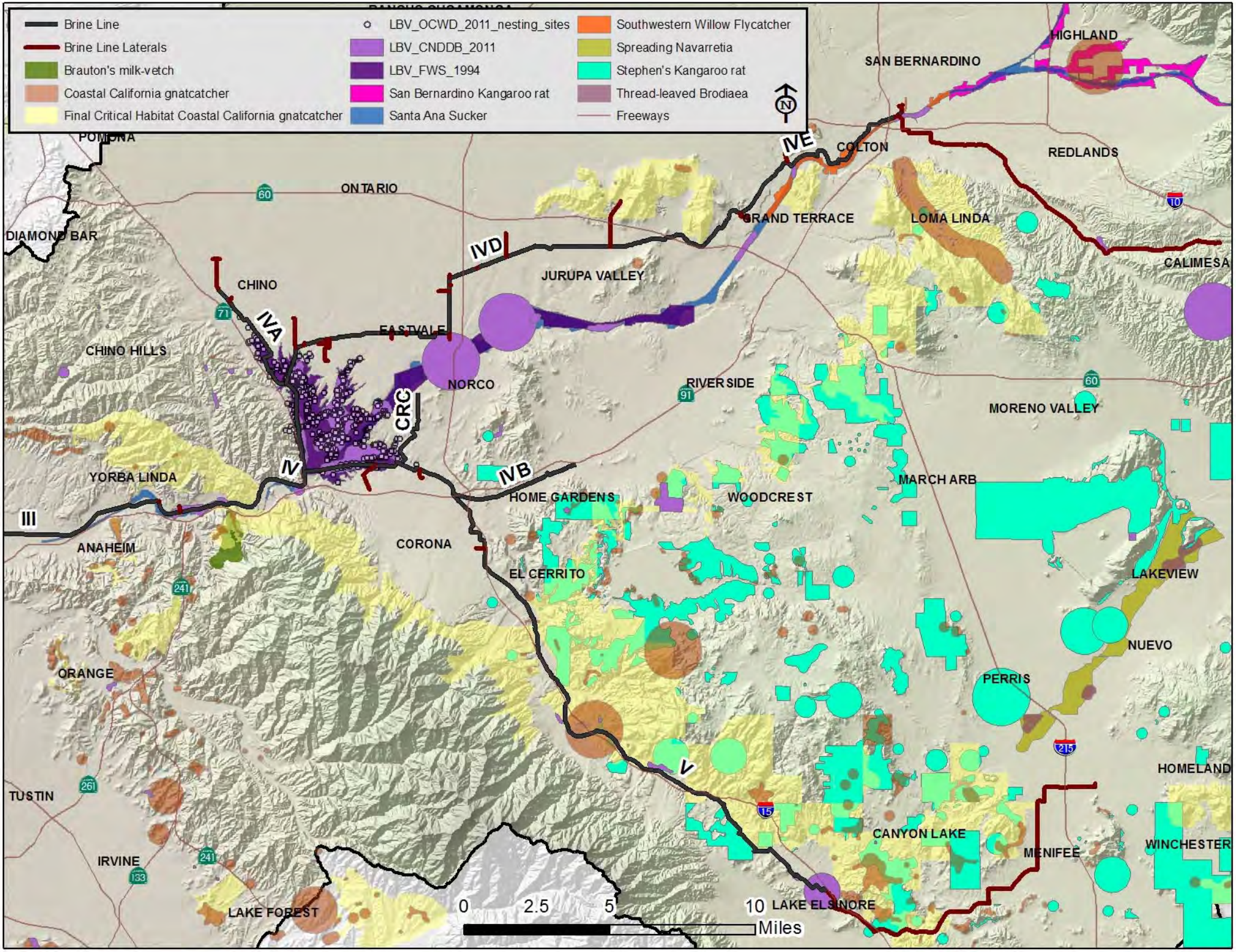
____

____

Appendix K
Locations for Discharge of Recovered Brine


Overflow Emergency Response Plan
Brine Line Discharge Locations
Reach V Air Vacs
Brine Line MAS
Brine Line
N
W
E
S
2,000 1,000 0 2,000 Feet
Sampson and Radio Rd.
Brine Line MAS
Brine Line
Discharge MAS
4B-0590
Radio
Ramp
I 15
4B-0570
4B-0590
4B-0610
Sampson
4B-0580
4B-0600
4B-0630
Harrison
4B-0490
S91
4B-0590
Radio
Harrison
4B-0470
Reed
Discharge MAS
4B-0490
Blaine
4B-0480
4B-0490
4B-0500
4B-0510
Harrison Street and Temescal Channel
Brine Line MAS
Brine Line
El Sobrante and 6th St.
AV1030
Brine Line
av1030
6th
Alley
El Sobrante
I 15
Discharge AV1030

Appendix L
Fish and Wildlife Service Critical Habitat Map


Brine Line
Brine Line Laterals
Brauton's milk-vetch
Coastal California gnatcatcher
Final Critical Habitat Coastal California gnatcatcher
LBV_OCWD_2011_nesting_sites
LBV_CNDDB_2011
LBV_FWS_1994
San Bernardino Kangaroo rat
Santa Ana Sucker
Southwestern Willow Flycatcher
Spreading Navarretia
Stephen's Kangaroo rat
Thread-leaved Brodiaea
Freeways
N
POMONA
ONTARIO
DIAMOND BAR
CHINO
CHINO HILLS
EASTVALE
NORCO
JURUPA VALLEY
GRAND TERRACE
COLTON
SAN BERNARDINO
HIGHLAND
REDLANDS
LOMA LINDA
CALIMESA
RIVERSIDE
MORENO VALLEY
MARCH ARB
WOODCREST
HOME GARDENS
YORBA LINDA
ANAHEIM
CORONA
EL CERRITO
LAKEVIEW
NUEVO
ORANGE
PERRIS
HOMELAND
TUSTIN
CANYON LAKE
MENIFEE
WINCHESTER
IRVINE
LAKE FOREST
LAKE ELSINORE
IVA
IVB
IVC
IVD
IVE
IV
III
V
0
2.5
5
10
Miles

Appendix M
SSO Log

Sanitary Sewer Overflow (SSO) Log		Name:
Location		
Date	/ /	
Page	of	
Time	Activity	Notes

Appendix N
Site Specific SSO Response Plan (Sample)

Catch basins
Stage dump truck with min 10 cu.yd material
2. Berm to prevent brine from entering homes.
Work area
Envoy Ave
Rudell Rd
E Ontario Ave
Block all storm drain catch basins with visqueen and sand bags prior to beginning work.
1. Berm
Temescal Canyon Rd
Minnesota Rd
El Cerrito Rd
© 2012 Google
Google
Imagery Date: Jun 8, 2012
33°50'09.95" N 117°31'22.04" W elev 263 m
Eye alt 550 m

Appendix O
SSO Site Sign-in Sheet

Brine Line SSO Location: _____

Date: _____ Time: _____

For purposes of our records, we would like you to sign in. However, section 54953.3 of the California Government Code states that you, as a member of the public, are not required to do so as a condition of attendance.

***** Please Print *****

NAME	REPRESENTING	EMAIL	PHONE

Appendix P
List of Available Equipment for SSO Response

Equipment available includes:

1. Canopy
2. 2-way Radio
3. Batteries
4. Flashlight
5. Water Bottles
6. Sampling Kit (sample bottles, bottle labels, latex gloves, pH/conductivity meter, pH strips) kept at the Brine Line Operations Center adjacent to the pretreatment sink.
7. Notebooks
8. Pencil/Pens
9. Digital Camera
10. Sunscreen
11. HAM Radio (FCC Call Signs: Carlos Quintero (KM6OSR), Matt Stewart (KM6OSU) [In process]

Appendix Q

SAWPA Response to OCSD High Flow Emergency

APPENDIX Q

SAWPA Response to OCSD High Flow Emergency

1. Code Blue

- A storm expected to have 1 inch or more of rain is forecast to occur within 3 days or the upcoming weekend.

OCSD Response

- Normal shift staffing.
- Establish Storm Watch list and implement portions if necessary.
- Notify Orange County Water District (OCWD) of Code Blue.
- Notify SAWPA of Code Blue.

SAWPA Response

Check Brine Line system for any inflow points. Make sure all sealed Maintenance Access Structures (MAS) are closed. Make sure all unsealed MAS have sealant material on the MAS cover.

Perform storm checks per SAWPA SOP.

Brine Line Dischargers Requirements

None

2. Code Yellow

- Collection System: All duty pumps are running at any pump station.
- Plant No. 1: 50 MGD (with all primary basins available) above normal for the time of day with the expectation that the flow will increase considering the normal diurnal patterns and/or rainfall rate.
- Plant No. 2: 75 MGD (with all primary basins available) above normal for the time of day with the expectation that the flow will increase considering the normal diurnal patterns and/or rainfall rate.
- Outfall: 30 MGD above normal for the time of day with the expectation that the flow will increase considering the normal diurnal patterns and/or rainfall rate.

OCSD Response

- Activate Storm Watch and Standby level.
- Notify OCWD of Code Yellow and request that they maximize their barrier and basin discharge and also discuss the potential to request initiation of a Santa Ana River (SAR) discharge
- Limited Incident Command System (ICS) Organization to maintain operational status and preparation status.
- Notify SAWPA of Code Yellow.

SAWPA Response

Monitor flow levels (remotely) at 4D-0070 and 4-0030.

Notify dischargers via e-mail of Code Yellow status.

Brine Line Dischargers Requirements

Receive notification. No other action required.

3. Code Orange

- Collection System and both Plants No. 1 and No. 2 flows/levels increasing toward maximum. Use of storage possible or probable.

OCSD Response

- Full ICS Organization activated
- Notify OCWD of Code Orange to continue to maximize production in the Normal Recycled Water Production Mode unless requested by OCSD to switch to the SAR Discharge Mode. Keep in mind that this request must be made several hours prior to needing the discharge to SAR so we must sufficient outfall capacity for this time period.
- Notify SAWPA of Code Orange.

SAWPA Response

Visually check Reach 4 MAS to determine any unusual water levels. Limit inspection to accessible MAS in case the road is not accessible due to storm/rain events.

Notify major dischargers that OCSD is in Code Orange, meaning they could ask SAWPA to cease discharge of major contributors to the Brine Line.

Notify dischargers via e-mail of Code Orange status.

Brine Line Dischargers Requirements

Prepare contingency plans for immediate shutdown to Brine Line in case OCSD calls Code Red.

4. Code Red

- The flow has exceeded the capacity of the 120-inch outfall system, and very limited or no storage is available. Containment of wastewater anywhere in the Collection System has been lost.

OCSD Response

- Full ICS Organization Activation
- Notify OCWD of Code Red to continue in the Normal Recycled Water Production Mode unless requested by OCSD to switch to the Santa Ana River Discharge Mode. This cannot be accomplished

now unless Plant No. 1 has reserved some final clarifiers for storage of the plant effluent while OCWD prepares for switching to SAR.
- Notify SAWPA of Code Red.

SAWPA Response

Notify dischargers via e-mail of Code Red status and require major discharges to cease discharge to the Brine Line until OCSD goes to Code Purple.

Brine Line Dischargers Requirements

Implement contingency plan. Stop discharge to the Brine Line immediately.

5. Code Purple

- Collection System: Duty pumps at the pump stations and gravity sewers are below capacity.
- Plant No. 1: Storage is no longer needed and the flow is expected to decrease, draining emergency storage can commence.
- Plant No. 2: Storage is no longer needed and the flow is expected to decrease, draining emergency storage can commence.
- Outfall: Flow has decreased to 375 MGD with the expectation that the decrease will continue.

OCSD Response

- ICS Organization can begin demobilizing with transition to normal shift staffing
- Notify OCWD of Code Purple to return to the normal Recycled Water Production Mode and or transition the Groundwater Replenishment System (GWRS) from Santa Ana River discharge to normal (if OCWD switched over to the SAR Discharge Mode).
- Notify SAWPA of Code Purple.

SAWPA Response

Notify dischargers via e-mail of Code Purple status and resume discharge to the Brine Line.

Brine Line Dischargers Requirements

Discharge to the Brine Line can resume.