

**SJFCD Flood Contingency Options
Zone 9 High Water Event and Central Stockton Options**

High Water Event
The flood fight strategy will be to implement Flood Control District flood safety plan and prepare to implement potential contingency options.

Actions

- Implement Flood Control District Zone 9 Flood Safety Plan.
- Establish communications with Public Works Mutual Aid Coordinator at San Joaquin Operational Area EOC and provide patrol status and results as requested.
- Participate in Metropolitan Flood Fight Unified Command at 2101 E. Earhart Avenue, Stockton.
- Prevent entry of Duck Creek waters into Mormon Slough.
- Review plans with utility providers for protecting storm drain pumps and demounting motors and to isolate California Water and SMUD water systems as necessary and maintain water pressure at critical pump stations.
- Review plan with SJFCD to implement ring dike plan to protect SEWD Treatment Plant.
- Identify equipment needed to implement flood contingency options for Flood Control Zone 9.

Levee Breach on right bank (North/East) of Diverting Canal or north bank of Mormon Slough east of Diverting Canal to Jack Tone Road
Sheet flow will pond on Northeast side of Diverting Canal to depths of 2-3 feet and drain toward junction of Calaveras River and Diverting Canal and build back toward south threatening Stockton East Water District treatment plant. General flood fight strategy is to maintain maximum capacity of flood waters into Diverting Canal/Calaveras River consistent with safety of City of Stockton while protecting the SEWD facility.

Actions

- Flood fight right bank of Diverting Canal and left bank of Calaveras River to prevent flood waters entering those waterways in an uncontrolled manner.
- Maintain existing storm water pumping stations and supplement with additional pumping capacity as additional water can be removed without endangering City of Stockton.
- SEWD implements ring dike plan and makes Relief Cut if appropriate at RR embankment located to north of plant to protect SEWD facility.

Levee breach on left bank (southwest) of Diverting Canal or left bank (south) of Mormon Slough west of mouth of South Potter Creek Channel A
Waters will flow toward/along old Mormon Slough through residential areas east of Highway 99 and continue west generally along old Mormon Slough crossing north and south depending on obstructions. Waters will also travel north and south of Union Pacific RR running east-west through Stockton from Aurora Street crossing two distinct bodies of water. Water north of RR will exit to shipping channel via Mormon Slough through downtown. If emergency berm plan is implemented, waters south of Union Pacific RR tracks will pond against Interstate 5 and build southwest toward Walker Slough. General flood fight strategy will be to 1) monitor extension of flood waters to north and south to identify localized opportunities to protect property or critical infrastructure, 2) facilitate flow of waters into Deep Water Channel and/or Walker Slough, and 3) assist, if possible and requested, to implement Interstate 5 emergency berm plans.

Actions

- Maintain levee patrols on Diverting Canal and Mormon Slough to identify additional problems and monitor water levels and flow through breach.
- Initiate roving patrols to identify opportunities to protect property and critical infrastructure as waters build toward north and south of old Mormon Slough and Union Pacific RR embankment.
- Take action if possible to facilitate flow through old Mormon Slough to channel.
- Coordinate with water utilities to monitor municipal water system and isolate as necessary to maintain integrity and protect critical pump stations to maintain water pressure.
- Coordinate with other utilities to protect their critical infrastructure.

Failure of either bank of Calaveras River west of Diverting Canal and east of Interstate 5
General flood fight strategy will be to 1) monitor extension of flood waters to identify localized opportunities to protect property or critical infrastructure, 2) facilitate flow of waters into Deep Water Channel or west side sloughs, and 3) assist, if possible and requested, other reclamation districts or utility providers to implement their emergency plans.

Actions

- City of Stockton demounts SMUD storm water pumping station motors if possible.
- City of Stockton places restrictions in storm water lines leading under Interstate 5 to storm water pumping stations on west side of Interstate 5 to prevent damage.
- Protect California Water Pumping Stations #59, #60, and #61 to maintain water pressure.
- Place emergency pumping stations per dewatering plan to assist with dewatering areas.

SJFCD Levee Patrol Plan

Patrol Group Supervisor
Channel Maintenance Superintendent

Patrol Group Staging Area
Channel Maintenance Building, 1810 E. Hazleton Ave, Stockton

Organization
District staff assigned as emergency levee workers will receive 2-hour Emergency Levee Worker Safety, Procedures, and Incident Management Class. A two-person patrol with County vehicles will be organized and equipped for each designated patrol sector (See SJFCD patrol SOP). All patrols will use cell phones for primary communications with Patrol Group Supervisor and County local government radio as secondary communications system.

Patrol Plan
Daily patrols and 24-hour patrols will be initiated in accordance with Flood ALERT II Activation and Warning Protocol (see EOP Section 2.2.3). Pre-established standard 1-hour patrol sectors shown on map. Patrols will cover both banks of assigned sector making a one-hour loop. Patrol Group Supervisor may shorten or lengthen patrol sectors as needed. Patrols will pick up equipment, receive pre-shift briefing and post-shift debriefing at Patrol Group Staging Area.

Lath and Marking Protocol
Per DWR Levee Threat Monitoring Guidelines

Red flagged - boil/seepage site
Blue flagged - rock slippage
White flagged - slope/levee distress

Supply Delivery Points and Staging Areas - Central Stockton

Pre-Planned Delivery Points to meet incoming resources

DP #1 - School of Pharmacy Parking Lot, Pacific Avenue and Brookside Road
DP #2 - District Pre-event stockpile near East Main Street bridge over Diverting Canal

Supply Staging Areas

SSA #5 - Pre-event stockpile location near East Main Street bridge over Diverting Canal
SSA #10 - School of Pharmacy Parking Lot, Pacific Avenue and Brookside Road
SSA #11 - Department of Public Works yard, 1810 E. Hazleton Avenue

Evacuation Plan

Responsible Agencies:
The City of Stockton, the San Joaquin County Sheriff's Department, and the Linden, French Camp, Waterloo-Morada, Farmington, and Montezuma Fire Districts are responsible for alert and warning and evacuation within Flood Control Zone 9.

Public Safety Agencies Evacuation Plans:
Public Safety Agency Urban Evacuation Maps covering urban areas of Flood Control Zone 9 are available at www.sjmap.org/evacmaps/private (password required).

Evacuation Maps for General Public:
Evacuation maps for general public are available at www.sjmap.org/evacmaps. Full size maps can be accessed for printing at businesses and institutions and brochures (8.5x11) with map and safety information suitable for printing on standard home printers.

Dewatering Plan

Flooding in Zone 9 will generally lead to sheet flow moving from east to west toward the Delta pool. Water will travel along existing waterways or old waterways such as Old Mormon Slough. East-West running linear structures such as elevated roads or railroad embankments will also channel flood waters toward entry points to the Delta pool and north-south turning structures or obstructions in old waterways, will pool water and cause it to extend to the north and south.

General Dewatering Strategy will be to facilitate movement of flood waters back into active channels or into sloughs on the west side of Stockton by making relief cuts, removing obstructions, and other similar actions. These actions will be supplemented with restoration of pre-event storm water drainage systems so that pooled flood water can be removed once flow ceases. Emergency pumping stations will be placed where needed to facilitate the movement of this pooled flood water into the normal drainage system.

Zone 9 Relief Cut
The San Joaquin County Flood Control and Water Conservation District has one pre-planned relief cut identified to facilitate dewatering. That relief cut is located at Jack Tone Road and Mormon Slough. See East Side Map for more details.

Interstate 5 Emergency Berm Contingencies
Reclamation districts on the west side of Stockton have contingency options for blocking Interstate 5 underpasses and making associated relief cuts to protect property and lives on the west side of that elevated roadway. Implementation of such actions, if agreed upon by the Metropolitan Unified Flood Fight Command, would be the responsibility of those districts. SJFCD would assist if requested within its capabilities.

Emergency Pumping Stations
Once breaches are repaired or flow in active channels falls sufficiently, SJFCD will work with the County of San Joaquin, City of Stockton, and other public agencies to identify areas of significant pooled flood waters that would require emergency pumping to remove. Responsibility for installation of emergency pumping stations would depend on location of pooled water. Pre-event drainage systems would be restored by the owning agency.

Special Consideration - Interstate 5 Emergency Berms
Flood contingency option maintained by reclamation districts on west side of Interstate 5 to place emergency berms and make relief cuts to prevent movement of flood water west of Interstate 5. For details of these plans, see flood safety plans of west side reclamation districts.

RECLAMATION DISTRICT NO. 1608 LINCOLN VILLAGE WEST
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 2119 WRIGHT ELMWOOD TRACT
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 2074 SARGENT BARNHART TRACT
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 1614 SMITH TRACT
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 403 ROUGH & READY ISLAND
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 828 WEBER TRACT
(SEE SEPARATE FLOOD CONTINGENCY MAP)

RECLAMATION DISTRICT NO. 404 BOGGS TRACT
(SEE SEPARATE FLOOD CONTINGENCY MAP)

Special Consideration - City of Stockton
Utility systems map layers to illustrate following discussion available in GIS file

California Water Pumping Stations
California Water maintains water supply system for large areas along north bank of Calaveras River. In event of a breach of north bank levee of Calaveras River it would be critical to maintain pressure in water lines to prevent contamination. California Water has identified several pumps as indicated on map as critical to maintaining water pressure in that area. Placement of emergency berms and backup power at those sites would need to take place as soon as a plausible threat of flooding is identified.

Stockton Municipal Utility Department Storm Water Pumping Stations
Storm water pumping stations shown on north bank of Calaveras River are located below 100-year flood elevations and would be flooded in the event of a breach on north bank of the Calaveras River. Actions would need to be taken to demount pump motors upon identification of a plausible threat of flooding to facilitate repair and restoration of stations to assist with dewatering area.

Brookside Storm Water Pumping Station
In the event of a failure of the north bank levee of the Calaveras River east of Interstate 5 the Brookside Storm Water Pumping Station located just west of Interstate 5 would be critical for subsequent dewatering efforts. Plan to construct storm water lines leading under Interstate 5 to this station in order to prevent damage to station and its pumps. This station also is critical to maintaining flow in sanitary lines to treatment plant. Pumps need to be protected to ensure that operation continues.

East Bay Municipal Utility District Aqueduct
Major aqueduct carrying drinking water for East Bay Municipal Utility District from Partee Reservoir runs along river just to north as shown on map. Several blow off valves and other access to line are located at intervals along this line.

Special Consideration - Interstate 5 Emergency Berms
Flood contingency option maintained by reclamation districts on west side of Interstate 5 to place emergency berms and make relief cuts to prevent movement of flood water west of Interstate 5. For details of these plans, see flood safety plans of west side reclamation districts.

Communications Plan

Communications Equipment
County issued cellular telephones and the San Joaquin County Local Government Radio Network. Additional handheld radios available through San Joaquin OES caches and the DWR -funded Delta cache.

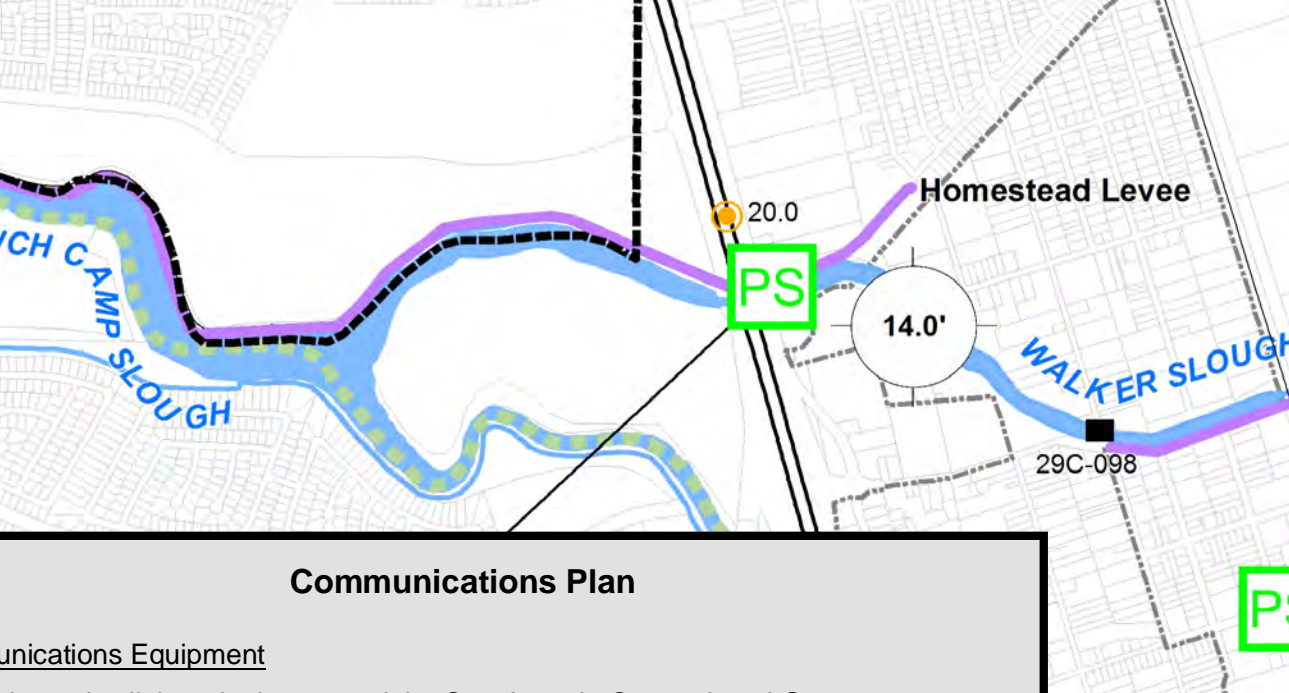
Internet Communication
Cell phones will be the primary means of communications with the Board of Supervisors, District staff, and outside agencies.

The SJC Local Government Radio System will be the secondary means of communications between District staff conducting levee patrol or other emergency operations in the field.

Cell phones will be the means of communications with private vendors or contractors acquired by District to assist with emergency operations.

Communications with outside Jurisdictions
Primary means of communications with outside jurisdictions will be personal cellular telephones. Secondary means of communications will be 1) participation in Metropolitan Unified Flood Fight Command and 2) through San Joaquin Operational Area.

Survey Information
Elevations shown are based on the North American Vertical Datum of 1988 (NAVD 88) as referenced by published benchmarks. Units shown are based on the U.S. Survey Foot.



CALIFORNIA WATER SERVICE CO. - STOCKTON PUMPING STATIONS ON NORTH BANK OF CALAVERAS

	STA. 59	STA. 60	STA. 61			
1 MAXIMUM CAPACITY	1700GPM	1800GPM	1450GPM			
ELEVATION OF PUMPS	17FT.	15FT.	16FT.			
AVAILABLE BACK UP POWER	N/A	N/A	N/A			
ABILITY TO INCREASE INTAKES	N/A	N/A	N/A			
PLANS AND PROCEDURES FOR LEVEE CONTROL	N/A	N/A <tr <td>2 LOCATION OF PRE-PLANNED DELIVERY POINTS</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	2 LOCATION OF PRE-PLANNED DELIVERY POINTS	N/A	N/A	N/A
3 LOCATION OF SPECIAL POINTS ALONG LEVEE	N/A	N/A	N/A			
4 HISTORICAL INFORMATION ON AREA OF SPECIAL LOW POINTS ALONG LEVEE	N/A	N/A	N/A			
5 FACILITIES, SUB-STATION AND DRINKING WATER	YES	YES	YES			
MOTOR HORSEPOWER	150	150	150			
MOTOR VOLTAGE	440 AC	440 AC	440 AC			
MOTOR AMPERAGE	160A	160A	160A			
POUSE PHASE	3	3	3			
ELEVATION DATUM	SITE FLOOR	SITE FLOOR	SITE FLOOR			
PUMP SET	14" ABOVE FLOOR	14" ABOVE FLOOR	14" ABOVE FLOOR			
MOTOR HORSEPOWER	YES	YES	YES			
ELECTRICAL CONTROL EQUIPMENT HANGER	3" ABOVE FLOOR	3" ABOVE FLOOR	3" ABOVE FLOOR			
EMERGENCY POWER CAN BE HARD WIRED INTO EXISTING MOTOR CONTROL AND NOT PREWIRED	YES	YES	YES			
P.G.&E. TRANSFORMER SET	GROUND TYPE SAME	POLE HANGER	POLE HANGER			

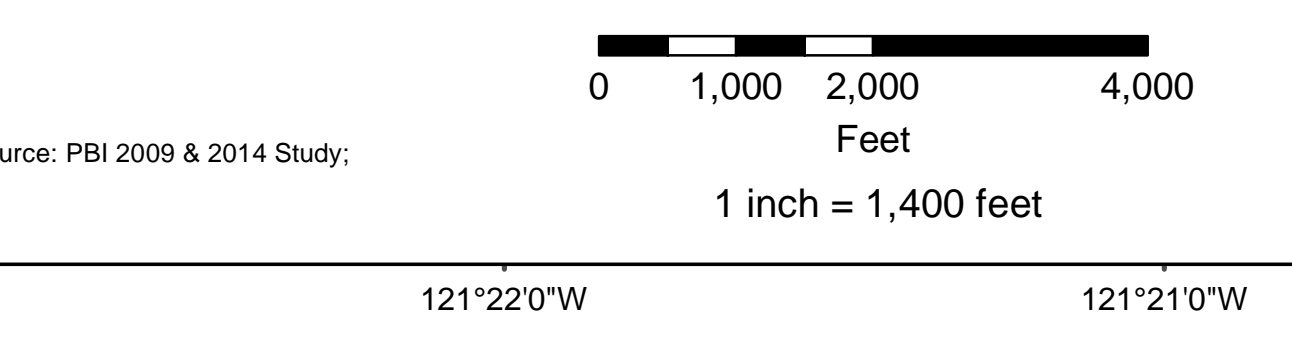
STA. 59 - 501 EAST ROBINHOOD DRIVE, STOCKTON, CA 95207
STA. 60 - 430 WOODSTOCK DRIVE, STOCKTON, CA 95207
STA. 61 - 410 EAST SWAIN ROAD, STOCKTON, CA 95207

- Legend**
- 100 Year Flood Elevation
 - Logistics Base
 - Supply Delivery Point (DP)
 - Supply Staging Area (SSA)
 - Seepage Area
 - Historic Levee Breach
 - Relief Cut
 - Erosion Area
 - Levee Access
 - Emergency Berm
 - Dryland Levee
 - Dryland Levee Critical Section
 - Levee
 - Levee Crown Elevation
 - Spot Elevation
 - Levee Mile-River Mile Station
 - Pump Station - Municipal Storm
 - Pump Station - Site for Emergency
 - Pump Station - Municipal Sanitary
 - Structures
 - Water Well
 - Sanitary Sewer Lines
 - Water Lines
 - Overhead Transmission Line
 - Underground Lines
 - Command Post
 - District Boundary
 - Waterways/Channels
 - Bridge
 - Zone 9

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Map Source: KSN, Inc.
Map Date: 03-29-2016
Vertical Datum: NAVD 88
100% Flood Elevation Source: PBI 2009 & 2014 Study; FEMA's 2009 FIRM



Central Stockton Map contains details common to all maps

San Joaquin County - Flood Control Zone 9
Central Stockton Quadrant Flood Contingency Map

FIGURE A1