LEVEE CROWN ELEVATION INFORMATION RECLAMATION DISTRICT NO. 38

BASIS OF ELEVATIONS
THE LEVEE CROWN ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEVEE CROWN ELEVATIONS

- NORTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 0+00 TO 47+75) ELEVATIONS VARIES FROM 16.9' TO 23.8'
- SOUTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 47+75 to 215+00) ELEVATIONS VARIES FROM 14.5' TO 21.7'
- SOUTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 215+00 TO 345+00) - ELEVATIONS VARIES FROM 12.6' TO 17.4'
- SOUTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 345+00 TO 485+00) - ELEVATIONS VARIES FROM 11.3' TO 14.7'
- SOUTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 485+00 TO 610+00) - ELEVATIONS VARIES FROM 11.6' TO 15.3'
- SOUTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 610+00 TO 860+00) - ELEVATIONS VARIES FROM 11.1' TO 16.3'
- NORTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 860+00 TO 1160+00) - ELEVATIONS VARIES FROM 11.1' TO 14.1'
- NORTH FORK MOKELUMNE RIVER LEVEE SECTION (STATION 1160+00 TO 1337+47, 0+00) - ELEVATIONS VARIES FROM 13.8' TO 17.9'

FLOOD FIGHT HISTORY RECLAMATION DISTRICT NO. 38

BRIEF HISTORY:

BEFORE STATEN ISLAND WAS RECLAIMED BY THE KERN LAND COMPANY IN 1868, SOIL SURVEY DATA SHOWED IT CONSISTED OF LARGE AREAS OF PERMANENT MARSH AND SEVERAL SLOUGHS LINED WITH RIPARIAN SCRUB. THE FIRST FARMS ON STATEN WERE TENANT FARMS. IN 1939, M&T INC. PURCHASED THE ISLAND, TAKING OVER ALL FARMING OPERATIONS. IN 2003, THE NATURE CONSERVANCY PURCHASED STATEN AND CONTINUED THE "WILDLIFE-FRIENDLY FARMING" OPERATIONS THAT M&T STARTED IN THE LATE 1970'S. THROUGH THE YEARS, THESE PRACTICES HAVE PROVEN THAT THE SAME ACRE-FOOT OF WATER CAN BE USED TO CREATE BOTH HIGHLY PRODUCTIVE AGRICULTURE AND A HIGHLY PRODUCTIVE WILDLIFE HABITAT.

PRIOR TO RECLAMATION, THE ISLAND MOST LIKELY FLOODED DURING HIGH WATER EVENTS THAT OVERWHELMED DRAINAGE SYSTEMS AND CRUDE LEVEES. WITH THE DEVELOPMENT OF THE CLAM SHELL DREDGE IN THE LATE 1800'S, THE DELTA'S LEVEES WERE CONSTRUCTED CLOSE TO THE SIZE THEY ARE TODAY. AS A RESULT, STATEN ISLAND HAS NOT HAD A FLOOD INCIDENT SINCE 1906. THE CLOSEST STATEN CAME TO A FLOOD EMERGENCY WAS ON JUNE 19, 2007 WHEN A BOIL APPEARED ON THE LANDSIDE TOE OF THE LEVEE ALONG THE SOUTH FORK OF THE MOKELUMNE RIVER. A DAY LATER, ONE OF THE PIECES OF EQUIPMENT ROLLED OVER A NEARBY SECTION OF LEVEE AND REVEALED A 20' BY 10' BY 7' DEEP HOLE UNDERNEATH THE SERVICE ROAD. THIS CREATED A QUASI-STABLE CONDITION CAUSING THE LEVEE TO SLUMP AND CRACK, AND PRODUCED A BOIL ON THE LANDSIDE OF THE LEVEE. THE DISTRICT USED SANDBAGS, RIP RAP, OFF-ISLAND FILL, AND SHEET PILES TO REPAIR THE BOIL AND HOLE. THE DISTRICT BELIEVES THAT A BEAVER WAS THE CULPRIT IN THIS INSTANCE.

INTENTIONAL SEASONAL FLOODING

STATEN ISLAND FIELDS ARE INTENTIONALLY FLOODED IN THE WINTER UP TO 2.5 FEET, WITH THE MAJORITY OF THE AREA ONLY ONE FOOT DEEP. ANY DEEPER AND THE AREA WOULD BECOME UNSUITABLE FOR HABITAT. MINOR FLOODING BEGINS IN EARLY SEPTEMBER AFTER THE WHEAT FIELDS ARE HARVESTED FOR THE EARLY ARRIVAL OF CRANES. MORE FIELDS ARE FLOODED AS OTHER CROPS ARE HARVESTED FROM AUGUST TO NOVEMBER. APPROXIMATELY 2,200 ACRES ARE FLOODED SEASONALLY. TEMPORARY IN-FIELD LEVEES ARE REQUIRED TO CONTROL THE FLOODED AREAS. THIS FLOODING SUPPORTS MIGRATING POPULATIONS OF CRANES, SHOREBIRDS, WATERFOWL (IE. NORTHERN PINTAILS AND GREATER WHITE-FRONTED GEESE), AND OTHER WATER BIRDS. IT IS ESTIMATED THAT THE ISLAND SUPPORTS 15 PERCENT OF THE REGION'S THREATENED GREATER SANDHILL CRANE POPULATION.

FLOODING AND CROP IRRIGATION IS EASILY HANDLED WITH GRAVITY FLOW SINCE THE ISLAND MOSTLY SITS BELOW THE NEIGHBORING CHANNELS.

COMMUNICATIONS PLAN RECLAMATION DISTRICT NO. 38

COMMUNICATIONS EQUIPMENT:

EQUIPMENT NECESSARY FOR LEVEE UNITS ARE STORED AT THE RD 38 HEADQUARTERS (SUPPLY DELIVERY POINT). PERSONAL CELL PHONES OR TWO WAY RADIOS AND ALL OTHER NECESSARY EQUIPMENT TO CONDUCT LEVEE PATROLS WILL BE SUPPLIED TO THE PATROL UNITS.

DISTRICT INTERNAL COMMUNICATIONS:

THE DISTRICT INTERNAL COMMUNICATIONS WILL BE PREFORMED BY MEANS OF PERSONAL CELL PHONES OR TWO WAY RADIOS. THE DISTRICT MAINTAINS AN EMERGENCY CALL LIST FOR ITS PERSONNEL. ADDITIONAL THE TRUSTEES AND ENGINEER CAN CONTACTED BY EMAIL. COMMUNICATION WITH CELLULAR PHONES IS THE DISTRICT BEST ASSURANCE COMMUNICATIONS NEEDS WILL BE MET:

1) WITH DISTRICT BOARD MEMBERS AND TRUSTEES, DISTRICT COUNSEL AND DISTRICT ENGINEER.
2) WITH AND BETWEEN LEVEE PATROLS.
3) WITH DISTRICT PERSONNEL, CONTRACTORS, AND VOLUNTEERS CONDUCTING FLOOD FIGHT ACTIVITIES.

COMMUNICATIONS WITH OTHER JURISDICTIONS:

CELLULAR PHONES, OFFICE LAND LINE PHONES, AND EMAILS WILL BE USED TO COMMUNICATE WITH OUTSIDE JURISDICTIONS. COMMUNICATION WITH CELLULAR PHONES IS THE DISTRICTS BEST ASSURANCE. COMMUNICATION STANDARDS WILL BY MET.

PRE-PLANNED DELIVERY POINTS, UNIFIED FLOOD FIGHT COMMAND POST, AND LEVEE ACCESS ROUTES RECLAMATION DISTRICT NO. 38

THE FOLLOWING LOCATION WILL BE USED TO DELIVER FLOOD FIGHTING MATERIALS TO DISTRICT OFFICIALS IF REQUESTED. EXACT DELIVERY POINT WILL BE IDENTIFIED AT TIME OF RESOURCE REQUEST. DISTRICT OFFICIALS WILL MEET RESOURCES AT THE DESIGNATED DELIVERY POINT TO TAKE DELIVERY OR GUIDE VEHICLES CARRYING RESOURCES TO FINAL UNLOADING POINT.

RD 38 - STATEN ISLAND - DISTRICT'S COMMAND FACILITIES & SUPPLY AND DELIVERY POINT
THE DISTRICT'S COMMAND CENTER OF OPERATION TO MEET AND MAKE DECISIONS DURING AN EMERGENCY IS LOCATED AT THE DISTRICTS HEADQUARTERS OFF OF NORTH STATEN ISLAND ROAD, AS SHOWN ON THE MAP AS THE SUPPLY AND DELIVERY POINT (DP).

NORTH AREA COMMAND POST - VAN EXEL DAIRY
THE UNIFIED NORTH AREA COMMAND POST IS TO MEET AND MAKE DECISIONS DURING AN EMERGENCY IS LOCATED AT VAN EXEL DAIRY, 50 METERS WEST OF THE INTERSTATE 5 AND WOODBRIDGE ROAD INTERSECTION (NOT SHOWN ON THIS MAP).

EVACUATION PLAN RECLAMATION DISTRICT NO. 38

1. IN THE EVENT THE DISTRICT HAS PRIOR NOTICE OR OTHERWISE BELIEVES A LEVEE FAILURE APPEARS IMMINENT OR HAS OCCURRED, DISTRICT PERSONNEL WILL IMMEDIATELY NOTIFY THE FOLLOWING AGENCIES;
   - SAN JOAQUIN COUNTY SHERIFFS OFFICE
   - SAN JOAQUIN OPERATIONAL AREA EMERGENCY OPERATIONS CENTER
   - DEPARTMENT OF WATER RESOURCES DIVISION OF FLOOD MANAGEMENT
   - CALIFORNIA HIGHWAY PATROL
   - CALIFORNIA EMERGENCY MANAGEMENT AGENCY - STATE WARNING CENTER
2. THE SAN JOAQUIN COUNTY SHERIFF'S DEPARTMENT IS THE RESPONSIBLE AGENCY FOR PUBLIC ALERTS, WARNINGS, AND EVACUATIONS WITHIN THE DISTRICT. THE SHERIFF'S DEPARTMENT IS RESPONSIBLE FOR DETERMINING WHEN PUBLIC EVACUATIONS ARE NECESSARY AND REQUIRED
3. IF, HOWEVER, THE DISTRICT DOES NOT HAVE PRIOR NOTICE OF A POSSIBLE LEVEE FAILURE (E.G. EARTHQUAKE OR OTHER UNPREDICTABLE ACT OF GOD OR DISASTER) AND ISLAND RESIDENTS ARE INFORMED OR BELIEVE THAT SOME ACT HAS TAKEN PLACE THAT COULD JEOPARDIZE THE INTEGRITY OF THE DISTRICT'S LEVEES, THEN ISLAND RESIDENTS ARE ADVISED TO MOVE TO THE LEVEE CROWN AND EVACUATE AS SOON AS POSSIBLE. DURING SUCH AN UNPREDICTABLE EVENT THAT A RESIDENT HAS ACTUAL KNOWLEDGE OF AN ACTUAL LEVEE BREACH, THAT RESIDENT SHOULD CALL THESE NUMBERS IN THE FOLLOWING ORDER:
   - EMERGENCY - 911
   - DISTRICT PRESIDENT - DAWIT ZELEKE - 530-518-7244
4. EVACUATION ROUTES WILL BE LIMITED TO PASSABLE PERIMETER LEVEE ROADWAYS AND LEVEE FARMERS HAUL ROADS UNLESS EVACUEES ARE TOLD OTHERWISE BY THE SHERIFF. THE ISLAND WILL BE EVACUATED WITH TRAFFIC ROUTED ALONG THE PERIMETER LEVEE ROADS ALONG TRAPPER SLOUGH OR ALONG WHISKEY SLOUGH HEADING SOUTH TO HIGHWAY 4. DISTRICT PERSONNEL WILL ENSURE THAT ALL GATES ON THE LEVEE CROWN ARE UNLOCKED AND WILL REMAIN OPEN DURING EMERGENCY FLOOD EVENTS. IN THE EVENT YOU ENCOUNTER A LOCKED GATE DURING YOUR EVACUATION, PLEASE CALL THE DISTRICT PRESIDENT - DAWIT ZELEKE AT 530-518-7244. UNLESS DIRECTED DIFFERENTLY BY THE SHERIFF, REMAIN ON THE LEVEE CROWN AT THE LOCKED GATE UNTIL SOMEONE COMES TO UNLOCK IT. PLEASE REMAIN OFF OF THE INTERIOR ISLAND ROADS AS THEY ARE BELOW SEA LEVEL AND WOULD MOST LIKELY BE FLOODED OR IN IMMINENT DANGER OF FLOODING.
5. ALL MOBILE OR FARMING EQUIPMENT SHALL BE MOVED TO HIGH GROUND LOCATED AT WIDE AREAS ALONG THE LEVEE CROWN, SIDE OF LEVEE, OR BASE. AVOID BLOCKING EVACUATION ROUTES OR EMERGENCY VEHICLE ACCESS ROUTES AND ALLOWED FOR THROUGH TRAFFIC ON THE LEVEE CROWNS.

SURVEY AND ELEVATION INFORMATION RECLAMATION DISTRICT NO. 38

DATUM USED, BENCHMARK, COORDINATES, CONVERSION, 100 YEAR FLOOD STAGE

ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THEY ARE REFERENCED OFF OF NUMEROUS BENCH MARKS IN THE VICINITY. THE CLOSEST BENCHMARK IS NEAR WEST WALNUT GROVE RD.

FOR STATEN ISLAND:
THE 100-YEAR FLOOD STAGE VARIES FROM ELEVATION 17' TO 10', AS SHOWN ON THE MAP.
THE MEAN HIGH WATER LEVEL VARIES FROM ELEVATION 13' TO 6'.
THE MEAN LOW WATER ELEVATION VARIES FROM ELEVATION 9.5' TO 2.5'.

THE LEVEE CROWN AND CONTOUR ELEVATIONS SHOWN ON THE MAP WERE OBTAINED FROM DISTRICT ENGINEER SURVEYS, USGS TOPO MAPS AND DWR PROVIDED LIDAR DATA.

THE 100-YEAR FLOOD ELEVATIONS ARE PER FEMA FLOOD INSURANCE RATE MAP - 2009, COMMUNITY # 060299 (NAVD88)

LEGEND

- 100 - YEAR FLOOD ELEVATION PER FEMA FLOOD INSURANCE RATE MAP - 2009 COMMUNITY # 060299
- LOGISTICS BASE/ HEADQUARTERS
- COMMAND POST
- SUPPLY DELIVERY POINT
- SUPPLY STAGING AREA
- TEMPORARY LEVEE/ EMERGENCY BERM
- SEEPAGE AREA
- HISTORIC LEVEE BREACH
- LEVEE BREACH
- RELIEF CUT
- EROSION AREA
- LEVEE ACCESS (AS DIRECTED BY ENGINEER)
- TRUCK TURN AROUND AND PASSING AREA
- OVERHEAD TRANSMISSION LINES
- UNDERGROUND PIPELINES
- GROUND LEVEL PIPELINES
- DRYLAND LEVEE/EMBANKMENT
- DRYLAND LEVEE/EMBANKMENT (LOW OR CRITICAL SECTION)
- LEVEE
- LEVEE MILE / RIVER MILE STATION
- LEVEE CROWN SPOT ELEVATION - NAVD88AND (DCC ENGINEERING CO., INC.)
- MUNICIPAL SANITARY PUMP STATION
- MUNICIPAL STORM PUMP STATION
- DISTRICT DRAINAGE PUMP STATION
- SITE FOR EMERGENCY PUMP STATION
- WATER WELL
- MUNICIPAL FACILITIES SANITARY SEWER LINES
- STORM DRAIN LINES
- WATER LINES
- STRUCTURES
- DISTRICT BOUNDARY
- USGS CONTOURS
- EXISTING STREETS (PAVED)
- PRIVATE ROADS (USE ONLY AS DIRECTED BY DISTRICT ENGINEER)
- GATE ON LEVEE CROWN

STRUCTURE USE TABLE RECLAMATION DISTRICT NO. 38

- AG BUILDING(S)
- RESIDENTIAL & AG BUILDING(S)

FLOODWATER DEWATERING PLAN RECLAMATION DISTRICT NO. 38

FLOOD DEWATERING PLAN

IN THE EVENT OF MINOR FLOODING, THE DISTRICTS PUMPING PLANT WILL BE USED TO PROVIDE DRAINAGE. IN THE EVENT OF COMPLETE INUNDATION OF THE TRACT, ADDITIONAL PUMPING CAPACITY WILL BE REQUIRED. EXTRA PUMPS AND GENERATORS WILL BE BROUGHT IN AND TYPICALLY BE PLACED AT THE DISTRICTS PUMP STATION FOR ADDED PUMPING CAPACITY. THE DISTRICT ENGINEER SHALL SPECIFY THE AMOUNT AND SIZES OF THE ADDITIONAL PUMPS AND SPECIFY THERE PROPOSED PUMPING LOCATIONS.

THE EXISTING PUMPING CAPACITY OF THE DISTRICTS PUMPS ARE APPROXIMATELY:

- PUMP STATION # 1, 4 PUMPS TOTAL = 44,550 GPM = 8.2 ACRE-FT/HR

PATROL PLAN RECLAMATION DISTRICT NO. 38

RD38 RESPONSIBLE OFFICIALS: DAWIT ZELEKE - PRESIDENT

GILBERT LABRIE - DISTRICT ENGINEER (DCC ENGINEERING)

DISTRICT PRESIDENT IS RESPONSIBLE FOR INITIALIZING AND ORGANIZING PATROLS. EACH LEVEE PATROL UNIT WILL PATROL FOR 12-HOUR SHIFTS AND PATROLS SHALL BE CONDUCTED ON THE LEVEE CROWN FOR THE ENTIRE PERIMETER OF THE DISTRICT (APPROXIMATELY 13 MILES. EACH PATROL UNIT SHALL HAVE TWO PERSONS, WITH AT LEAST ONE OF THE PERSONS EXPERIENCED IN FLOOD FIGHTING TECHNIQUES.

DURING SIGNIFICANT FLOOD THREATS, THE LEVEE WILL BE BROKEN DOWN INTO SEGMENTS SUCH THAT THE ENTIRE LEVEE CAN BE MONITORED DURING THE HIGH TIDE. MEETING PLACES WILL BE AT THE DELIVERY POINT LOCATIONS.

THE DISTRICT WILL MONITOR THE CALIFORNIA DATA EXCHANGE CENTER (CDEC) GAUGES BY USING THE FOLLOWING STATION GAGES AND INFORMATION SOURCE IN ITS OVERALL MONITORING EFFORT; M=MONITOR STAGE (PATROLS WILL BE ACTIVATED), F=FLOOD STAGE AND D=DANGER STAGE. THE FOLLOWING STATIONS ARE ON THE NAVD88 DATUM.

- MOKELUMNE RIVER AT BENSONS FERRY NEAR THORNTON (BEN) (M=12.0, F=17.0)
- SACRAMENTO RIVER AT RIO VISTA BRIDGE (RVB) (M=7.4, F=11.9, D=12.9)
- SAN JOAQUIN RIVER AT MOSSDALE BRIDGE (MSD) (M=19.5, F=28.5, D=29.5)
- DELTA POOL: BACON ISLAND AT OLD RIVER (BAC) (M=6, F=8, D=9)

IDENTIFYING AND MARKING PROBLEM SITES WILL BE IN ACCORDANCE WITH THE DWR'S LEVEE TREAT MONITORING GUIDELINES. REPORTING WILL BE IN ACCORDANCE WITH THE DWR'S ENGINEER'S LEVEE THREAT ASSESSMENT DOCUMENT AND THE STATE OF CALIFORNIA'S OFFICE OF EMERGENCY SERVICES AFTER ACTION REPORT.

LATH PROTOCOL:

- RED - BIOL/SEEPAGE
- BLUE - ROCK SLIP/AGE
- WHITE - SLOPE/LEVEE DISTRESS

SPECIAL CONSIDERATIONS RECLAMATION DISTRICT NO. 38

DEAD HORSE ISLAND BRIDGE

THE DEAD HORSE ISLAND BRIDGE SHALL BE REMOVED IN AN EMERGENCY FLOOD TO ALLOW TRAVEL OF BARGES TO ACCESS THE NORTHERN TIP OF STATEN ISLAND FOR REPAIRS.

FLOOD PATTERN

THE SOUTHERN END OF THE ISLAND IS AT THE LOWEST ELEVATION, APPROXIMATELY 15 FEET BELOW SEA LEVEL. ANY FLOODING THAT WOULD OCCUR ON THE ISLAND WOULD RUN TO THE SOUTHERN END OF THE ISLAND AND FILL UP FROM THERE TO A DEPTH OF AN ESTIMATED 10 FEET.

DISTRICT PUMP VULNERABILITY INFRASTRUCTURE WARNING

PUMPING STATION #1 IS BELOW THE 100-YEAR FLOOD ELEVATION. A CRITICAL EVACUATION STEP IS TO PROTECT THE PUMP MOTORS IN THE EVENT OF LEVEE FAILURE. DISTRICT SHOULD CONTACT RAIN FOR RENT AT (209) 466-5602 OR DELTA PUMP AT (209) 466-9625 FOR ASSISTANCE.

MOBILE AND FARMING EQUIPMENT

DURING A FLOOD EVENT, ALL MOBILE OR FARMING EQUIPMENT SHALL BE MOVED TO HIGH GROUND LOCATED AT WIDE AREAS ALONG THE BASE OR SIDE OF THE LEVEE. EQUIPMENT WILL NOT BE ALLOWED TO PARK ON THE LEVEE CROWN SO AS TO AVOID BLOCKING EVACUATION ROUTES OR EMERGENCY VEHICLE ASSESS ROUTES.

LODI GAS STORAGE, LLC - GAS LINE INFRASTRUCTURE WARNING

A LODI GAS UNDERGROUND TRANSMISSION LINE (LINE 196) CROSSES THE ISLAND. THE LINE IS APPROXIMATELY 7,500 FEET LONG WHERE IT CROSSES. IF FLOODING IS IMMINENT OR OCCURS, CALL THE 24 HOUR EMERGENCY NUMBER AT 1-800-331-4115.

PG&E - GAS LINE INFRASTRUCTURE WARNING

A PG&E GAS LINE UNDERGROUND GAS LINES TRAVERSE ABOUT 18,600 FEET IN THE NORTHERN PART OF THE ISLAND. IF FLOODING IS IMMINENT OR OCCURS, CALL PG&E THE 24 HOUR EMERGENCY NUMBER AT 1-800-743-5000.

NATURAL GAS WELL WARNING

STATEN ISLAND HAS THREE NATURAL GAS WELLS. LOCATIONS ARE SHOWN THE THE MAP.

NORTH FORK MOKELUMNE RIVER

SEVERAL AREAS ALONG THE NORTH FORK OF THE MOKELUMNE HAVE PL84-99 LEVEE GEOMETRY DEFICIENCIES AND A COUPLE OF POTENTIALLY UNSTABLE WATERSIDE SLOPES THAT DO NOT MEET THE LEVEE STANDARD BECAUSE OF THE TOE UNDERCUTTING DUE TO RIVER CURRENTS AT BENDS. THE PRIMARY REACH WITH CROWN AND SLOPE GEOMETRY DEFICIENCIES IS BETWEEN STATIONS 960+00 TO 1337+00. AN EMERGENCY WATER-SIDE SLIP REPAIR FROM STATIONS 835+00 TO 836+00 WAS PERFORMED IN MARCH 2011. THIS OCCURRENCE LED TO THE AUTHORIZATION OF A HYDROGRAPHIC SURVEY OF THE ENTIRE NORTH FORK OF THE MOKELUMNE REACH AND THE DISCOVERY OF THE FOLLOWING WATER-SIDE SLOPE EROSION SIGHTS. THEY OCCUR AT THREE AREAS ALONG THE BANK FROM STATIONS 990+00 TO 1059+00 AND COULD POTENTIALLY THREATEN THE CRITICAL LEVEE SECTION.

IN MOST AREAS, CROWN DEFICIENCIES, WATERSIDE REVETMENT EROSION, AND SUBSIDENCE ARE NOT SEVERE, BUT MUST EVENTUALLY BE ADDRESSED. IN JANUARY 2011, SOME CRITICAL, LONG-TIME SEEPAGE AREAS WERE ADDRESSED BETWEEN STATIONS 954+00 TO 962+00 AND 985+00 TO 997+00. THIS INVOLVED THE CONSTRUCTION OF A MAJOR ROCK BLANKET AND DRAINAGE SYSTEM TO MANAGE THE PROBLEM AND IMPROVE STABILITY OF THE LEVEE SECTION. DUE TO THE SCOPE OF THIS PROJECT, THE AREA CONTINUES TO BE MONITORED TO ASSESS THE PERFORMANCE OF THE REPAIR AND INSPECT ANY UNUSUAL MOVEMENT.

SOUTH FORK-MOKELUMNE RIVER

THE LEVEE ALONG THE SOUTH FORK OF THE MOKELUMNE MOSTLY MEETS PL84-99 LEVEE GEOMETRY STANDARDS. THERE ARE A FEW AREAS WHERE CROWN ELEVATIONS AND SLOPE GEOMETRY ARE SLIGHTLY BELOW PL84-99 STANDARDS. THE MOST DEFICIENT AREAS OCCUR ON THE NORTHERN END OF THE ISLAND FROM STATIONS 100+00 TO 300+00, APPROXIMATELY.

TACTICAL PLANS - (PRELIMNARY ENGINEERING DESIGNS) RECLAMATION DISTRICT NO. 38

P.E.D.S HAVE NOT BEEN PREPARED FOR RECLAMATION DISTRICT NO. 38

FOR TACTICAL INFORMATION/ACTION REFER TO THE FLOOD CONTINGENCY OPTIONS TEXT BOX.

FLOOD CONTINGENCY OPTIONS RECLAMATION DISTRICT NO. 38

GENERAL FLOOD FIGHT STRATEGY:

THE GENERAL FLOOD FIGHT STRATEGY WILL BE TO INSPECT AND MAINTAIN PRIMARY DISTRICT LEVEES.

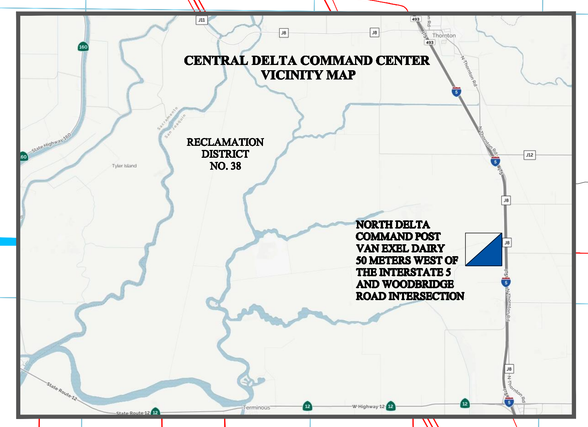
ACTIONS TO CONSIDER

- ESTABLISH LEVEE PATROL IN ACCORDANCE WITH PROCEDURES SHOWN ON THIS PLAN AND THE DISTRICT'S EOP.
- MONITOR THE RIVER STAGES AND ELEVATIONS. DETERMINE THE SITUATION AND ACTIVATE THE APPROPRIATED FLOOD CONTINGENCY AND SPECIAL FLOOD CONSIDERATION OPTIONS.
- AS NEEDED, PARTICIPATE IN NORTH DELTA FLOOD FIGHT UNIFIED COMMAND WITH COMMAND POST AT VAN EXEL DAIRY, 20002 THORNTON ROAD, LODI, CA 95242, PHONE# 209.368.4322.

FAILURE OF PRIMARY LEVEE ON RD 38 (STATEN ISLAND):

THE GENERAL FLOOD FIGHT STRATEGY WILL BE TO REPAIR LEVEE BREAKS. THE SOUTHERN END OF THE ISLAND IS AT THE LOWEST ELEVATION, APPROXIMATELY 15 FEET BELOW SEA LEVEL. ANY FLOODING THAT WOULD OCCUR ON THE ISLAND WOULD RUN TO THE SOUTHERN END OF THE ISLAND AND FILL UP FROM THERE TO A DEPTH OF AN ESTIMATED 10 FEET. POSITION ADDITIONAL PUMPING CAPACITY TO DEWATER THE DISTRICT AT THE SOUTHERN PUMP STATION. ALL REPAIRS WILL BE IN ACCORDANCE WITH THE DEPARTMENT OF WATER RESOURCES RURAL LEVEE REPAIR GUIDELINES, DATED MARCH 14, 2014.

- REPAIR BREAK BY MEANS OF PLACING ROCKS ON EACH SIDE OF THE BREACH, TO PREVENT FURTHER EROSION ALONG THE SIDES, AND PLACE BY ROCKS WITHIN THE SCOUR HOLE. THE ROCKS WEIGHTS MUST BE SUFFICIENT TO WITHSTAND THE FORCE OF THE FLOOD WATER CURRENTS PASSING THROUGH THE BREACH WITHOUT BEING PUSHED THROUGH THE BREACH. PLACE SUITABLE FILL MATERIAL. ALL WORK WILL BE PERFORMED UNDER THE GUIDANCE OF THE DISTRICT ENGINEER.
- POSITION ADDITIONAL PUMPING CAPACITY TO DEWATER THE DISTRICT.



DCC ENGINEERING CO., INC.
P.O. BOX 929, WALNUT GROVE, CA 95690
Tel (916) 776-2277 Fax (916) 776-2282

PLANNING
PERMITTING
ARCHITECTURE
CIVIL ENGINEERING
PROJECT MANAGEMENT

STATEN ISLAND – RECLAMATION DISTRICT NO. 38
ANNEX A – FLOOD CONTINGENCY MAP
SAN JOAQUIN COUNTY

REV.	DATE

HORIZONTAL AND VERTICAL GRAPHIC SCALE: 1" = 1,500'
375 0 375 750 1,500 3,000

PROJECT NO:	38-30
DRAWN BY:	SJB
DESIGN BY:	SJB
CHECK BY:	DG
SCALE:	AS SHOWN
DATE:	2016-03
CAD FILE:	STATENISLAND.DWG

SHEET NO. 1 OF 1 SHEETS