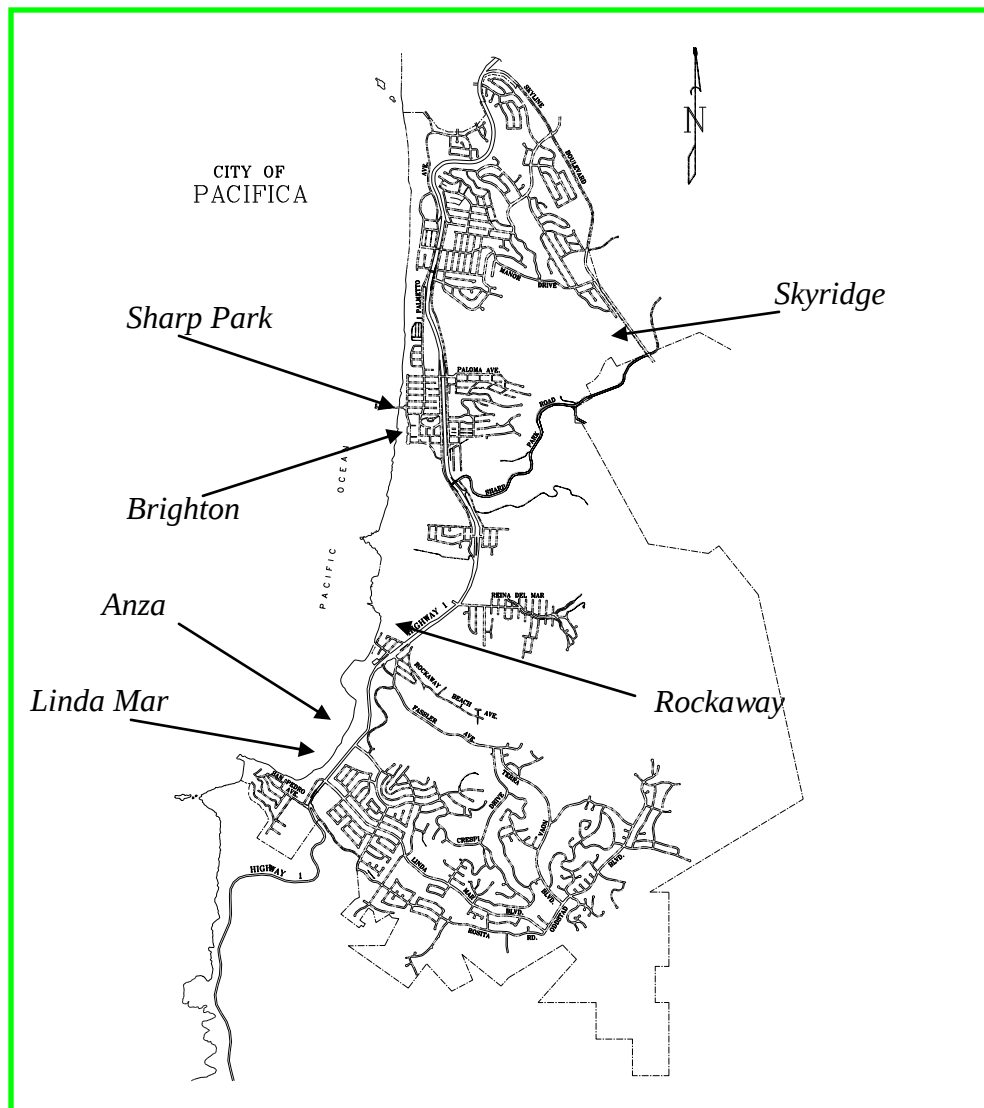


City of Pacifica Pump Station Emergency Procedures Plan

Purpose

The purpose of this Pump Station Emergency Procedures Plan is to ensure that the City of Pacifica personnel follow established guidelines in operating and maintaining the stations during emergency conditions. When major storms or station failures occur the operators of the pump stations often have little time to develop solutions or repair equipment before there is a significant overflow and bypass of raw sewage into the environment. These procedures were developed to outline and codify some of the basic responses by operators in emergency situations.

The Pump Stations of Pacifica



Only Trained Personnel Should Attempt Repairs to Mechanical and Electrical Equipment

High Flow (storm) Situations

- The collection system personnel must watch the weather reports (use the NOAA website) in the preceding days and prepare accordingly for any oncoming storms
 - Each available collection system employee must be alerted to the possibility of emergency overtime work
- When larger than normal storms are forecasted a work schedule shall be developed outlining a crew of operators that shall work as when storm first hits and a crew of operators that shall be on standby available to come in for relief
- Check fuel tanks for standby generators and order fuel if necessary

Linda Mar Pump Station (Sewage)

- High Flow (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Assign at least one employee to operate this pump station until high flow situation has subsided
 - The operator must have been through the Wastewater Division's pump station operation training
 - Attempt to run the EDP only, with the electricians as backup
 - If the EDP is unable to keep up with flow, begin to start and run the electric pumps
 - Attempt to add one electric pump at a time to match incoming flow
 - Continually monitor the temperatures of the motors, engine, and pumps
 - Continually monitor the fluid levels of the EDP
 - Regularly check the barscreen for correct operation and debris buildup
 - Switch to manual barscreen if incoming debris is overwhelming the automatic barscreen
 - Regularly check the manhole on Linda Mar Blvd for any spillage from a surcharged system
- Power Failure

- Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
- If possible run the EDP only with the electrics as backup
- Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
- Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure
- Pump Station Bypass Procedures
 - Activate Rain-for-Rent Emergency Bypass Plan A for dry or wet weather



Linda Mar Pump Station (Drainage)

- High Flow (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Run the appropriate electric pumps to match the incoming flow
 - If the electric pumps are unable to match the incoming flow start and operate the Hydro-flo pump
 - Most or all of the electric pumps may be shut down when running the Hydro-flo pump
 - Continually monitor the fluid levels and temperatures of each engine, motor, and pump
 - Pay particular attention to the oil level of the electric pumps as they are exhausted rapidly during constant pump operation
 - Regularly check the flapper gates

- Regularly check the wetwell level and the barscreen
 - Pay attention to the high level mark in the wetwell which indicates storm water backing up on Anza Drive
- Power Failure
 - Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
 - If possible run the Hydro-flo only with the electrics as backup
 - Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
 - Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure

Anza Pump Station

- High Flows (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Run the appropriate pumps to match the incoming flow
 - Monitor the temperature and fluid levels of each engine
 - Regularly check the flapper gates
 - Regularly check the wetwell level and the barscreen
- Power Failure
 - Manually run the required engine driven pumps because the level control will be lost
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure

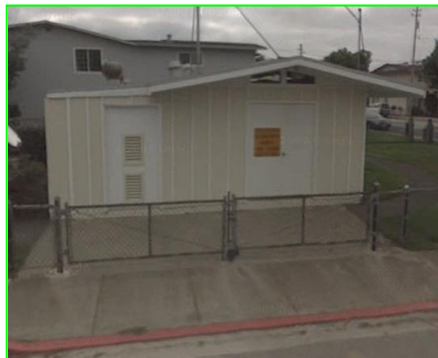


Rockaway Pump Station

- High Flows (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Run the appropriate number of pumps to match the incoming flow

- Continually monitor the temperatures of the motors and pumps
- Regularly check the barscreen for correct operation and debris buildup
 - Switch to manual barscreen if incoming debris is overwhelming the automatic barscreen
- Regularly check the manhole outside the station for any spillage from a surcharged system
- Power Failure
 - Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
 - Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
 - Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure
- Pump Station Bypass Procedures
 - Activate Rain-for-Rent Emergency Bypass Plan A for dry or wet weather

Brighton Pump Station



- High Flows (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Run the appropriate number of pumps to match the incoming flow
 - Continually monitor the temperatures of the motors and pumps
- Regularly check the comminutor for correct operation and debris buildup
 - Switch to manual barscreen if incoming debris is overwhelming the comminutor
- Regularly check the manhole outside the station for any spillage from a surcharged system

- Power Failure
 - Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
 - Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
 - Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure
 - In a catastrophic failure where each pump is unable to perform, a portable pump (such as a six inch self-priming pump) should be rented and connected to a valve assembly just outside the west side of the station
- Pump Station Bypass Procedures
 - Activate Rain-for-Rent Emergency Bypass Plan A or B



Sharp Park Pump Station

- High Flows (storm) Situation
 - Place the level control (micro-mac) to the wet-weather settings
 - Assign at least one employee to operate this pump station until high flow situation has subsided
 - The operator must have been through the Wastewater Division's pump station operation training
 - Run the appropriate number of pumps to match the incoming flow
 - Continually monitor the temperatures of the motors and pumps
 - Regularly check the barscreen for correct operation and debris buildup

- Switch to manual barscreen if incoming debris is overwhelming the automatic barscreen
 - Regularly check the manhole outside the station for any spillage from a surcharged system
- Power Failure
 - Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
 - Check the level of the generator fuel tank which is located outside the station
 - Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
 - Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure
- Pump Station Bypass Procedures
 - Activate Rain-for-Rent Emergency Bypass Plan A

Skyridge Pump Station

- High Flows (storm) Situation
 - The sanitary sewer system is young in this area and the flows should not measurably fluctuate during storm events
- Power Failure
 - Make sure the generator is operating with an adequate power output
 - Run generator on hand until PG&E power returns
 - Check the level of the fuel tank for the generator
 - Check circuit breakers for the equipment to see if any shut downs occurred following loss or surge of power
 - Monitor electric meter for return of PG&E power
- Pump Failure
 - Shut down and isolate affected pump
 - Determine cause of failure
- Pump Station Bypass Procedures
 - Activate Rain-for-Rent Emergency Bypass Plan A or B

