

CITY OF LASALLE

WASTEWATER PLANT RECOVERY PLAN

SEPT. 16, 2008

Summary of situation:

On Monday, Sept. 15, 2008, city staff worked to sandbag around the city's wastewater plant in an effort to protect the plant site from rising water from the Illinois River. At that time, the NOAA forecast was for a crest of 32.6 above flood stage. This was later changed to 33 feet by the afternoon. Staff at that time moved to take out all electronic office equipment and files and otherwise secure the facility. The decision was made to shut off power to all equipment and buildings except for the following:

- Final effluent pumps
- RAS building
- Headworks building

Around 6 p.m. water from the river breached the sandbags and entered the plant site. By 7 p.m. the site was covered. At approximately 6:30 p.m. on Tues., Sept. 16, 2008, the river crested leaving the wastewater site inundated with approximately 10 feet of flood waters. Staff met earlier in the afternoon to begin planning a recovery effort.

Plans are based on reports from NOAA, instructions from AmerenIP that indicate possibility of electrocution should someone enter the area prior to a drop of two feet of water due to their substation condition, other existing conditions including the continuing activation of the CSOs, and an assumption that the final pumps will continue to operate and that the hydraulic pumps dewatering the basin west of the plant are still functional. The water is projected to recede to below the plant roadway level by Thursday. At that point, the final pumps will only be dewatering the site in addition to pumping the city's wastewater stream. Staff anticipates that the site can be entered by Mon., Sept. 22, 2008, to begin recovery.

The focus of recovery is based on the following goals:

- Power down the plant
- Continue to operate the final effluent pumps
- Clean and disinfect the site
- Check the hydraulic pumps to ensure they are operational
- Pump out the basements in all the buildings
- Pull motors that can be salvaged and take them to motor shop
- Replace equipment that cannot be salvaged
- Clean and disinfect all the buildings
- Check the entire electrical system, address any issues, and bring it safely back online
- Check the entire control system and address any issues

Point of contact:

Pam Broviak, City Engineer/Director of Public Works, p.broviak@lasalle-il.gov, 815-223-7041, 815-993-8485 (cell)
City of LaSalle, 745 Second St., LaSalle, Ill. 61301

Below is the city's recovery plan.

PRE-RECOVERY EFFORTS:

While waiting for the water to recede, the staff will continue to monitor **final pump operation**. They will also work to **assemble the items listed** on the acquisition list and **call service companies and suppliers** to obtain necessary information and secure future services and delivery of items. Specific action items are as listed below:

- City staff is to **call JB Contracting Friday morning** to confirm the date that their services will be needed.
- Supt. Of Public Works will **contact Metropolitan Pumps** to arrange for their services with respect to checking the control system.
- City staff will **contact a generator company** – suggested contacts are:
Sunbelt: 815-730-8000 (office) and 815-693-0319 (cell phone – Mark)
- City staff will purchase cleaning supplies needed (ie. Bleach, protective gear, brushes, brooms, sprayers, soap) and work lights (explosion proof)
- City staff will check out and mobilize the water department's trash pump, along with existing city equipment such as shovels, fire hose, portable generator, and barricades

RECOVERY:

As staff enters the site, keep in mind that until the plant is powered down, we **anticipate** the following electrical conditions, but proceed as if anything could be live:

LIVE ELECTRICAL SERVICE

- RAS Building
- Headworks Building (includes bar screen)
- Final Effluent Pumps
- Blower Building
- Hydraulic Pump Building

DEAD ELECTRICAL SERVICE

- Anaerobic Digester Building
- Office (POC) Building
- Clarifiers – Primary and Secondary
- Chlorine
- Sump Pump Near Drying Beds

Day 1 & 2**CLEAN THE SITE**

City staff will clear and clean the site using vehicles and equipment. First proceed with the city's combination backhoe/loader to remove and clear any debris along existing roadways. Stay clear of the roadway near the levee lying against the canal. Place barricades midway along the road from the entrance to the levee to prevent any vehicle traffic from entering this area – we anticipate keeping this area clear of vehicles until we are sure the water level has lowered and the levee is stable.

The city's skidsteer will be used to clear sidewalks and paths lying within the plant site. City staff will move in behind with fire hoses and bleach to further clean and disinfect roadways and sidewalks throughout the site. At this point, the final effluent pumps will be removing any water placed upon the site.

Day 2 & 3:**HOOK FINAL PUMPS TO A GENERATOR****CONTINUE CLEANING****CHECK OUT ELECTRICAL SYSTEM****CHECK OUT CONTROL SYSTEM****BEGIN PUMPING OUT BASEMENTS**

City staff will oversee installation of a temporary generator to run the final pumps as recovery efforts continue. City will also oversee efforts by an outside contractor hired to check and repair the plant's electrical and control systems. The plant's electrical system will not be placed back online until after this contractor and city staff has determined that the system is safe and operational.

Staff will continue cleaning as well as begin pumping out basements of buildings. This will be done in the following order beginning on day 2 or 3 and continuing throughout the next few days:

Days 3 and out**CONTINUE PUMPING OUT BUILDING BASEMENTS****CONTINUE PULLING MOTORS AND EQUIPMENT****TAKE MOTORS/EQUIPMENT TO REPAIR SHOPS****ARRANGE FOR MOTOR/EQUIPMENT REPLACEMENT AND INSTALLATION****CONTINUE GENERAL CLEANING – EVENTUALLY MOVE TO CLEANING GARAGE**

Following is a list of buildings on the site with specific equipment details. Staff will use these pages to document the handling of specific items of equipment and note any comments or concerns related to the recovery.

HEADWORKS

Motors/equipment to be salvaged	Supplier	Hp, frame, rpm	Date removed	Repair shop and date delivered	Date picked up	Date installed
Grit Pump						
Water Seal Unit						
Screen motor – only if damaged						
Sampler						

Motors/equipment to be replaced	Supplier	Hp, frame, rpm	Date removed	Date ordered	Date picked up	Date installed
Sump pump						
Samplers						

Comments:

RAS BUILDING

Motors/equipment to be salvaged	Supplier	Hp, frame, rpm	Date removed	Repair shop and date delivered	Date picked up	Date installed
Chlorine Pumps (2)						

Motors/equipment to be replaced	Supplier	Hp, frame, rpm	Date removed	Date ordered	Date picked up	Date installed
Sump Pump						

Comments:

BLOWER/CHLORINE BLDG (no basement)

Motors/equipment to be salvaged	Supplier	Hp, frame, rpm	Date removed	Repair shop and date delivered	Date picked up	Date installed
Blowers				MMI		

Motors/equipment to be replaced	Supplier	Hp, frame, rpm	Date removed	Date ordered	Date picked up	Date installed
Chlorinators (2)						
Blower Motors						

Comments:

OFFICE BUILDING (POC)

Motors/equipment to be salvaged	Supplier	Hp, frame, rpm	Date removed	Repair shop and date delivered	Date picked up	Date installed
Compressor (service tech)						
Blowers (2)						

Motors/equipment to be replaced	Supplier	Hp, frame, rpm	Date removed	Date ordered	Date picked up	Date installed
Boiler						
Lab equipment						
Digester pump						
Boiler						
Water heater						
Sump pump						

Comments:

ANAEROBIC DIGESTER BLDG						
Motors/equipment to be salvaged	Supplier	Hp, frame, rpm	Date removed	Repair shop and date delivered	Date picked up	Date installed
Sump pump						
Recirculating pump						
Moyno pump						
Boiler (service tech)						
Motors/equipment to be replaced	Supplier	Hp, frame, rpm	Date removed	Date ordered	Date picked up	Date installed
Outside compressor						

Comments: