City of Burlington

September 10, 2010

Paul Brandt
Iowa Department of Natural Resources Field Office #6
Environmental Protection Division
1023 W. Madison
Washington, IA 52353-1623

Re: Potential for Bypass during Construction Project
Phase II of WWTF Backup Power Improvements
Construction Permit #2010-0189S
NPDES Permit No. 2909001

Phase I of the WWTF Backup Power Improvements project was supplying power to the Wastewater Treatment Facility from the South Burlington substation located south of Burlington at a cost of $82,857.41. Phase I was completed in March 2010. Phase II, the replacement of the MANUAL transfer switch at MCC #2 with an AUTO transfer switch, is about to begin.

As explained on the phone there are two (2) distinct parts of this phase of the project during which a potential for bypassing of untreated or partially treated wastewater exists: interruption of all power to MCC #2, and the reduction to only one power feed to MCC #2 while work is performed on the other.

The interruption of all power to MCC #2 is to enable the incorporation of a new breaker. All indications are that bypassing during the necessary downtime can be kept to a minimum if not prevented utilizing storage capacity of the sewers upstream of the City's three (3) major lift stations (Silver, South and Market) and operating two (2) 6" trailer-mounted trash pumps to manage flow entering the plant from the Mississippi Interceptor, the inverted siphon coming to the plant from the south, along the riverfront. Potential bypass points: 012, 013 and 023.

The reduction to only one (1) power feed to MCC #2 while the work is performed on the second feed means if power is lost from the one (1) active feed there will be no emergency feed to go to; all pumps and blowers would be OFF until power is restored to MCC #2 via the feed on which work is being performed or power is restored to the intact feed. Bypassing would occur at 023; volume bypassed will have received preliminary treatment only.

The contractor anticipates having the entire project completed within five (5) working days.

Currently the contractor is waiting for the arrival of the new breaker. If the breaker arrives today the project may start as early as next Monday, 9/13. I will let your office know when work begins.

Regards,

Donald C. Fitting
WWTF Superintendent
(319)753-8157

Cc: Doug Worden, City Manager
Ron Knoke, Public Works Director
Chirs Clements, Street Department
Jim Sievers, DNR FO #6
Rick Long, Maintenance Supervisor