**Section 375.204 Phase III – Detailed Water Quality Evaluation**

Areas to be addressed in a detailed water quality survey shall include, consistent with 35 Ill. Adm. Code 306.361(d):

a) water column chemistry –

1) upstream/downstream and overflow sampling;

2) wet weather/dry weather sampling;

3) diurnal sampling for dissolved oxygen (D.O.);

4) parameters generally will include BOD5, suspended solids, volatile suspended solids, ammonia. Other parameters may become important depending on the nature of the overflow; and

5) other parameters as deemed appropriate relative to 35 Ill. Adm. Code 375.302(a)(8).

b) sediment analysis –

1) sediment oxygen demand;

2) percent volatile matter;

3) particle size distribution; and

4) other parameters as deemed appropriate relative to 35 Ill. Adm. Code 375.302(a)(8).

c) biological survey –

1) benthic macroinvertebrates;

2) fishes; and

3) plant productivity assessment (algal blooms).

d) hydraulic and hydrologic factors including storm hydrographs for receiving stream and overflow.