



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
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**August 14, 2018 - Addendum to the
 Quality Assurance Project Plan for Lake Erie Nearshore Monitoring**

Section 1: Drinking water hypoxic zone sampling.

The following information is in addition to the existing Nearshore Monitoring QAPP. The additional sampling outlined in this addendum is intended to assess drinking water impacts of hypoxic waters, specifically documenting manganese concentrations in hypolimnetic (below thermocline) waters. Additionally, these data will support NOAA's understanding of drinking water impacts of nearshore upwelling events and hypoxia in the Lake Erie's central basin.

All additional water quality samples collected based on this addendum will be shipped and submitted to Ohio EPA's Division of Environmental Services (DES) for analysis.

In addition to the routine water quality samples, an additional set of samples will be collected at the Fairport transect stations when the Central Basin hypoxia/anoxia transects are run through mid-August. Each additional water sample will be collected using a horizontally oriented Van Dorn sample bottle with the bottom lowered to a depth near the bottom of the water column but above the sediment-water interface. The sample will be placed in a labeled 1 L LDPE container and preserved with 5 ml of nitric acid (HNO₃). Sample containers will be cooled to ≤ 6° C cooler and will be shipped to DES and analyzed within holding time (6 months). Samples will be analyzed for manganese using method USEPA 200.7.

The following table outlines the additional phytoplankton samples included in this addendum:

District office	Sites	Event	Sample total
NEDO	Transect Sites- Fairport 1, 2, 3, 4, 5, and Lake Guardian Station E-36	Any in August or September, especially during hypoxia/anoxia events at nearshore sites	5-10

Section 2: Changes to the June 13, 2018 Addendum to the QAPP for LE Nearshore monitoring

After continued communication with NOAA, it has been decided that the additional phytoplankton sampling outlined in the June 13 QAPP addendum is no longer needed. NOAA may communicate with DSW if unexpected Central Basin conditions occur that a near-surface phytoplankton sample would be beneficial. In that case DSW CO staff will communicate the sampling locations to field staff and sampling will occur if possible. The sampling protocol outlined in the June 13 QAPP addendum will be utilized.

Reviewer Initials and Date: Amy Klei AK 8/14/18 Brian Hall BH 8/14/18 Jeff Reynolds JR 8/14/18
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