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**June 14, 2019 -Addendum to the Quality Assurance Project Plan (QAPP) for the Biological and Water Quality Study of Cuyahoga Tributaries and Ship Channel**

*Section 1: Additional Sampling in 2019.*

The following addition is to the existing Quality Assurance Project Plan (QAPP) for the Biological and Water Quality Study of Cuyahoga Tributaries and Ship Channel. The purpose of the sampling outlined in this addendum is to collect data to clarify causes and sources of impairment, collect data not obtainable in 2017 & 2018, and document sample location changes throughout the study.

Below, the sampling type and count for 2019 are summarized in Table 1. In Table 2, sample location and type of sampling is detailed.

**Table 1. Sampling Type and Count**

Sample Type	Count
Fish (F)	11
Macro (Mq)	4
Chemistry (C)	1
Sonde	28

*Table 2. Cuyahoga 2019 Sampling*

Stream	Location	DA (mi2)	STORET	Sample Type
Cuyahoga R.	adj. golf course	402	F01W64	Sonde, F1
Woodward Creek	Akron-Peninsula Rd.	2.9	F01G26	Sonde, F1, Mq, C
Dickerson Run	Akron-Peninsula Rd.	2.5	F01G27	Sonde F1, Mq
Robinson Run	Akron-Peninsula Rd.	1.4	F01G27	Sonde, F1
Sagamore Creek	Near mouth	6.2	F01G38	Sonde F1
Stanford Run	At Hines Hill Rd.	1.9	F01G34	Sonde
Riding Run	Near mouth	1.3	303964	Sonde, F1, Mq
Tinkers Ck	Hudson-Aurora Rd	19	F01S32	Sonde, F1
Cuyahoga R.	Dst. Lake Rockwell at Ravenna Rd.	208	F01P29	Sonde
Cuyahoga R.	Standing Rock Cemetery	292	F01W70	Sonde
Cuyahoga R.	Fuller Park	293	F01S17	Sonde
Cuyahoga R.	upst. Fish Creek WWTP	307	300518	Sonde
Cuyahoga R.	Dst. Fish Creek WWTP	323	300574	Sonde
Cuyahoga R.	upst. dam removal	326	300516	Sonde
Cuyahoga R.	Waterworks Park	331	200037	Sonde
Cuyahoga R.	upst. Little Cuyahoga River	331	502150	Sonde
Cuyahoga R.	upst. Akron WWTP	433	200042	Sonde
Cuyahoga R.	Bolanz Rd.	480	502010	Sonde
Cuyahoga R.	Bath Rd.	443	F01S15	Sonde
Sagamore Creek	Upst. Sagamore Rd.	3.3	F01G37	Sonde

Tinkers Ck	Seasons Rd	4.2	F99Q10	Sonde
Tinkers Ck	Near Twinsburg in restoration	48	200081	Sonde
Tinkers Ck	E. Idlewood Dr.	53.5	F01S29	Sonde
Tinkers Ck	Richmond Rd.	69	502090	Sonde
Tinkers Ck	St. Rt. 18	84	502220	Sonde
Tinkers Ck	DST Tinkers Ck gorge	91	F01S25	Sonde
Tinkers Ck	At mouth	96	F01S24	Sonde
Beaver Meadow Run	At Old Cochran Rd.	6.1	F01P44	Sonde
Wood Ck.	Near mouth	3.2	F01S36	Mq
Trib. to Furnace Run (1.2)	Everett Rd.	1.9	303970	F1
Spring Creek	Near Blue Hen Falls	1.3	303997	F1
Indian Creek	Near mouth	6.5	F01W15	F1
Pond Brook	Restoration area	10.9	F01W28	F1

### Section 2: Changes to Sampling Locations

In Table 3, changes made to sampling location in 2017 & 2018 are documented with a brief explanation.

Table 3. List of sampling station changes and rationale.

Location Description	Station Code	RM	DA	Lat	Long	Rationale
Cuyahoga R. @Cleveland @ Scranton Flats	200005	2.74	806	41.4881	-81.6933	Duplicate stations identified in database. Station 303380 data was transferred to station 200005 and station 303380 was deleted.
Cuyahoga R. @ Scranton Rd Habitat Restoration	303830	2.7	806	41.48798	-81.6937	
Spring Creek SE of Boston, Adj. Boston Mills Rd.	200061	1.3	0.6	41.2556	-81.5786	Station was changed to increase drainage area for a representative sample.
Spring Creek @ Buckeye Trail Upst. Blue Hen Falls	303997	0.9	1.3	41.25834	-81.5734	
L. Cuyahoga R. at Akron @Cheney Rd.	F01S85	8.85	28	41.06268	-81.4346	Station was added for coverage, due to incorrect location information at an upstream station in database.
Tare Creek @ Burton-Windsor Rd.	F01G04	2.5	4.5	41.4955	-81.0702	Stream conditions and site access approval resulted in station F01A55 to be moved to F01G04.
Tare Creek N of Middlefield @ St. Rt. 608	F01A55	1.59	6.1	41.4858	-81.0825	

Review: Beth Date: 7/23/17 Mari Piekutowski MP Date: 7/24/19 Audrey Rush AR Date: 7-22-19  
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