CSO Permit eDMR Reports

First Half of 2021

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*007*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04	1061676						
2021-01-05	1119033						
2021-01-06	1147555						
2021-01-07	1065043						
2021-01-08	1061676						
2021-01-09							
2021-01-10							
2021-01-11	1046036						
2021-01-12	1046042						
2021-01-13	1115896						
2021-01-14	2004968.3						
2021-01-15	1137271						
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19	1106089						
2021-01-20	1141895						
2021-01-21	1046036						
2021-01-22	1046042						
2021-01-23	1115896						
2021-01-24							
2021-01-25	1106089						
2021-01-26	1137271						
2021-01-27	1147555						
2021-01-28	1061676						
2021-01-29	1119033						
2021-01-30							
2021-01-31							
Minimum	1046036.0						
Maximum	2004968.3						
Average	1141638.915						
Count	20						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	0.0416					
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.0416					
Maximum	1.0	0.0416					
Average	1	0.0416					
Count	1	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-01-01 To: 2021-01-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01						1	5.8084
2021-01-02							0.4610
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum						1.0	0.461
Maximum						1.0	5.8084
Average						1	3.1347
Count						1	2

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	0.0064					
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.0064					
Maximum	1.0	0.0064					
Average	1	0.0064					
Count	1	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	AF					
2021-01-02		AF					
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0						
Maximum	1.0						
Average	1						
Count	1						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	2.7798					
2021-01-02		0.5499					
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.5499					
Maximum	1.0	2.7798					
Average	1	1.66485					
Count	1	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	18.6155					
2021-01-02		2.7859					
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
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2021-01-16							
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2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	2.7859					
Maximum	1.0	18.6155					
Average	1	10.7007					
Count	1	2					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	0.0267					
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
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2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.0267					
Maximum	1.0	0.0267					
Average	1	0.0267					
Count	1	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-01-01 To: 2021-01-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01						1	12.4434
2021-01-02							0.3997
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15						1	0.0327
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum						1.0	0.0327
Maximum						1.0	12.4434
Average						1	4.29193
Count						2	3

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	0.5978					
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.5978					
Maximum	1.0	0.5978					
Average	1	0.5978					
Count	1	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-01-01 To: 2021-01-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01						1	1.6307
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15						1	0.0410
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26						1	0.0254
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum						1.0	0.0254
Maximum						1.0	1.6307
Average						1	0.5657
Count						3	3

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
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2021-01-16							
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2021-01-20							
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2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01						1	0.7454
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum						1.0	0.7454
Maximum						1.0	0.7454
Average						1	0.7454
Count						1	1

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01	1	0.0464					
2021-01-02		0.0110					
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	1.0	0.011					
Maximum	1.0	0.0464					
Average	1	0.0287					
Count	1	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-01-01	AH	AH					
2021-01-02	AH	AH					
2021-01-03	AH	AH					
2021-01-04	AH	AH					
2021-01-05	AH	AH					
2021-01-06	AH	AH					
2021-01-07	AH	AH					
2021-01-08	AH	AH					
2021-01-09	AH	AH					
2021-01-10	AH	AH					
2021-01-11	AH	AH					
2021-01-12	AH	AH					
2021-01-13	AH	AH					
2021-01-14	AH	AH					
2021-01-15	AH	AH					
2021-01-16	AH	AH					
2021-01-17	AH	AH					
2021-01-18	AH	AH					
2021-01-19	AH	AH					
2021-01-20	AH	AH					
2021-01-21	AH	AH					
2021-01-22	AH	AH					
2021-01-23	AH	AH					
2021-01-24	AH	AH					
2021-01-25	AH	AH					
2021-01-26	AH	AH					
2021-01-27	AH	AH					
2021-01-28	AH	AH					
2021-01-29	AH	AH					
2021-01-30	AH	AH					
2021-01-31	AH	AH					
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-05 09:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1021464*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-02-05 09:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-01-01** **To:** **2021-01-31**

GENERAL REPORT COMMENT:
Sampling required two times per year.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
045	Overflow Volume	74063	2021-01-01	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2021-01-02	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
232	Overflow Occurrence per Year	51709	2021-01-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-01-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-01-15*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-16*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Occurrence per Year*	*51709*	*2021-01-25*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-26*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-27*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-28*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-29*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-30*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-01-31*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-01*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-02*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-03*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-01-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-01-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-01-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-29*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-30*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-01-31*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave* *Cleveland, OH 44115*	**STATION CODE:**	*007*
		MONITORING PERIOD :	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-02-01	1137271						
2021-02-02	1046042						
2021-02-03	1106089						
2021-02-04	1061676						
2021-02-05	1141895						
2021-02-06							
2021-02-07							
2021-02-08	1061676						
2021-02-09	1046036						
2021-02-10	1106089						
2021-02-11	2004968.3						
2021-02-12	1147555						
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16	1065043						
2021-02-17	1115896						
2021-02-18	1141895						
2021-02-19	1119033						
2021-02-20	1061676						
2021-02-21							
2021-02-22	1119033						
2021-02-23	1137271						
2021-02-24	1147555						
2021-02-25	2004968.3						
2021-02-26	1046036						
2021-02-27							
2021-02-28							
Minimum	1046036.0						
Maximum	2004968.3						
Average	1190885.18						
Count	20						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27						1	0.0035
2021-02-28							
Minimum						1.0	0.0035
Maximum						1.0	0.0035
Average						1	0.0035
Count						1	1

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23	1	0.0194					
2021-02-24	1	0.6273					
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum	1.0	0.0194					
Maximum	1.0	0.6273					
Average	1	0.32335					
Count	2	2					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01 2021-02-02 2021-02-03 2021-02-04 2021-02-05 2021-02-06 2021-02-07 2021-02-08 2021-02-09 2021-02-10 2021-02-11 2021-02-12 2021-02-13 2021-02-14 2021-02-15 2021-02-16 2021-02-17 2021-02-18 2021-02-19 2021-02-20 2021-02-21 2021-02-22 2021-02-23 2021-02-24 2021-02-25 2021-02-26 2021-02-27 2021-02-28	1	7.0270					
Minimum	1.0	7.027					
Maximum	1.0	7.027					
Average	1	7.027					
Count	1	1					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23						1	0.9689
2021-02-24						1	0.4102
2021-02-25							
2021-02-26							
2021-02-27						1	0.6953
2021-02-28							
Minimum						1.0	0.4102
Maximum						1.0	0.9689
Average						1	0.69147
Count						3	3

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01 2021-02-02 2021-02-03 2021-02-04 2021-02-05 2021-02-06 2021-02-07 2021-02-08 2021-02-09 2021-02-10 2021-02-11 2021-02-12 2021-02-13 2021-02-14 2021-02-15 2021-02-16 2021-02-17 2021-02-18 2021-02-19 2021-02-20 2021-02-21 2021-02-22 2021-02-23 2021-02-24 2021-02-25 2021-02-26 2021-02-27 2021-02-28	1	0.0005					
Minimum	1.0	5.0E-4					
Maximum	1.0	5.0E-4					
Average	1	0.0005					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23						1	0.0681
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27						1	0.0760
2021-02-28							
Minimum						1.0	0.0681
Maximum						1.0	0.076
Average						1	0.07205
Count						2	2

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
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2021-02-14							
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2021-02-20							
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2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
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2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-03-05 08:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-02-01	AH	AH					
2021-02-02	AH	AH					
2021-02-03	AH	AH					
2021-02-04	AH	AH					
2021-02-05	AH	AH					
2021-02-06	AH	AH					
2021-02-07	AH	AH					
2021-02-08	AH	AH					
2021-02-09	AH	AH					
2021-02-10	AH	AH					
2021-02-11	AH	AH					
2021-02-12	AH	AH					
2021-02-13	AH	AH					
2021-02-14	AH	AH					
2021-02-15	AH	AH					
2021-02-16	AH	AH					
2021-02-17	AH	AH					
2021-02-18	AH	AH					
2021-02-19	AH	AH					
2021-02-20	AH	AH					
2021-02-21	AH	AH					
2021-02-22	AH	AH					
2021-02-23	AH	AH					
2021-02-24	AH	AH					
2021-02-25	AH	AH					
2021-02-26	AH	AH					
2021-02-27	AH	AH					
2021-02-28	AH	AH					
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-02-01 To: 2021-02-28
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
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2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	***I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.***	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1028945*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-05 08:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-02-01** **To:** **2021-02-28**

GENERAL REPORT COMMENT:
Sampling required two times per year.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
232	Overflow Occurrence per Year	51709	2021-02-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-02-15	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-02-16*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-25*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Occurrence per Year*	*51709*	*2021-02-26*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-27*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-02-28*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-01*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-02*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-03*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-02-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-02-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-02-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-02-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*007*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-03-01	1046036						
2021-03-02	1061676						
2021-03-03	1046042						
2021-03-04	1106089						
2021-03-05	1147555						
2021-03-06							
2021-03-07							
2021-03-08	1106089						
2021-03-09	1141895						
2021-03-10	1061676						
2021-03-11	1137271						
2021-03-12							
2021-03-13	1065043						
2021-03-14							
2021-03-15	1046042						
2021-03-16	2004968.3						
2021-03-17	2004968.3						
2021-03-18	1119033						
2021-03-19	1065043						
2021-03-20							
2021-03-21							
2021-03-22	2004968.3						
2021-03-23	1115896						
2021-03-24	1137271						
2021-03-25	1119033						
2021-03-26	1141895						
2021-03-27							
2021-03-28							
2021-03-29	1046036						
2021-03-30	1106089						
2021-03-31	1137271						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1215995.03913						
Count	23						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18	211	0.665	6.62	0.394	0.736	1	3.3542
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26						1	0.7068
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum	211.0	0.665	6.62	0.394	0.736	1.0	0.7068
Maximum	211.0	0.665	6.62	0.394	0.736	1.0	3.3542
Average	211	0.665	6.62	0.394	0.736	1	2.0305
Count	1	1	1	1	1	2	2

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-03-01 2021-03-02 2021-03-03 2021-03-04 2021-03-05 2021-03-06 2021-03-07 2021-03-08 2021-03-09 2021-03-10 2021-03-11 2021-03-12 2021-03-13 2021-03-14 2021-03-15 2021-03-16 2021-03-17 2021-03-18 2021-03-19 2021-03-20 2021-03-21 2021-03-22 2021-03-23 2021-03-24 2021-03-25 2021-03-26 2021-03-27 2021-03-28 2021-03-29 2021-03-30 2021-03-31	26.2						
Minimum	26.2						
Maximum	26.2						
Average	26.2						
Count	1						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
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2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18	1	2.3134					
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26	1	0.5180					
2021-03-27							
2021-03-28	1	0.2448					
2021-03-29							
2021-03-30							
2021-03-31							
Minimum	1.0	0.2448					
Maximum	1.0	2.3134					
Average	1	1.0254					
Count	3	3					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18	1	7.9491					
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26	1	2.1863					
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum	1.0	2.1863					
Maximum	1.0	7.9491					
Average	1	5.0677					
Count	2	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18	588	3.81	19.7	0.49	2.9	1	3.8797
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26						1	0.3984
2021-03-27							
2021-03-28						1	0.5261
2021-03-29							
2021-03-30							
2021-03-31							
Minimum	588.0	3.81	19.7	0.49	2.9	1.0	0.3984
Maximum	588.0	3.81	19.7	0.49	2.9	1.0	3.8797
Average	588	3.81	19.7	0.49	2.9	1	1.6014
Count	1	1	1	1	1	3	3

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-03-01 2021-03-02 2021-03-03 2021-03-04 2021-03-05 2021-03-06 2021-03-07 2021-03-08 2021-03-09 2021-03-10 2021-03-11 2021-03-12 2021-03-13 2021-03-14 2021-03-15 2021-03-16 2021-03-17 2021-03-18 2021-03-19 2021-03-20 2021-03-21 2021-03-22 2021-03-23 2021-03-24 2021-03-25 2021-03-26 2021-03-27 2021-03-28 2021-03-29 2021-03-30 2021-03-31	112						
Minimum	112.0						
Maximum	112.0						
Average	112						
Count	1						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01 2021-03-02 2021-03-03 2021-03-04 2021-03-05 2021-03-06 2021-03-07 2021-03-08 2021-03-09 2021-03-10 2021-03-11 2021-03-12 2021-03-13 2021-03-14 2021-03-15 2021-03-16 2021-03-17 2021-03-18 2021-03-19 2021-03-20 2021-03-21 2021-03-22 2021-03-23 2021-03-24 2021-03-25 2021-03-26 2021-03-27 2021-03-28 2021-03-29 2021-03-30 2021-03-31	1	0.0114					
Minimum	1.0	0.0114					
Maximum	1.0	0.0114					
Average	1	0.0114					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04- 09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18						1	0.4323
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26						1	0.0113
2021-03-27							
2021-03-28						1	0.1285
2021-03-29							
2021-03-30							
2021-03-31							
Minimum						1.0	0.0113
Maximum						1.0	0.4323
Average						1	0.1907
Count						3	3

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26						1	0.0117
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum						1.0	0.0117
Maximum						1.0	0.0117
Average						1	0.0117
Count						1	1

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-04-09 11:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-03-01	AH	AH					
2021-03-02	AH	AH					
2021-03-03	AH	AH					
2021-03-04	AH	AH					
2021-03-05	AH	AH					
2021-03-06	AH	AH					
2021-03-07	AH	AH					
2021-03-08	AH	AH					
2021-03-09	AH	AH					
2021-03-10	AH	AH					
2021-03-11	AH	AH					
2021-03-12	AH	AH					
2021-03-13	AH	AH					
2021-03-14	AH	AH					
2021-03-15	AH	AH					
2021-03-16	AH	AH					
2021-03-17	AH	AH					
2021-03-18	AH	AH					
2021-03-19	AH	AH					
2021-03-20	AH	AH					
2021-03-21	AH	AH					
2021-03-22	AH	AH					
2021-03-23	AH	AH					
2021-03-24	AH	AH					
2021-03-25	AH	AH					
2021-03-26	AH	AH					
2021-03-27	AH	AH					
2021-03-28	AH	AH					
2021-03-29	AH	AH					
2021-03-30	AH	AH					
2021-03-31	AH	AH					
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	**CBOD 5 day**						
PARAMETER CODE	**80082**						
UNITS	**mg/l**						
FREQUENCY	**When Disch.**						
SAMPLING TYPE	**Grab**						
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	**Signature of Responsible Official or Authorized Representative**	**Submission Date/Time**
Kevin Zebrowski			**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1038385*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-09 11:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-03-01** **To:** **2021-03-31**

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
232	Overflow Occurrence per Year	51709	2021-03-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-15	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-03-16	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-03-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-25*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-26*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Occurrence per Year*	*51709*	*2021-03-27*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-28*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-29*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-30*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-03-31*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-01*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-02*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-03*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-03-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-03-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-03-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-29*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-30*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-03-31*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave* *Cleveland, OH 44115*	**STATION CODE:**	*007*
		MONITORING PERIOD :	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-04-01	1046036						
2021-04-02	1061676						
2021-04-03							
2021-04-04							
2021-04-05	2004968.3						
2021-04-06	1106089						
2021-04-07	1141895						
2021-04-08	1147555						
2021-04-09	1137271						
2021-04-10							
2021-04-11							
2021-04-12	1119033						
2021-04-13	1061676						
2021-04-14	1046036						
2021-04-15	1115896						
2021-04-16	1141895						
2021-04-17							
2021-04-18							
2021-04-19	1106089						
2021-04-20	2004968.3						
2021-04-21	1119033						
2021-04-22	1061676						
2021-04-23	1137271						
2021-04-24							
2021-04-25							
2021-04-26	1147555						
2021-04-27	1137271						
2021-04-28	1106089						
2021-04-29	1119033						
2021-04-30	1046036						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1187047.61818						
Count	22						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01 2021-04-02 2021-04-03 2021-04-04 2021-04-05 2021-04-06 2021-04-07 2021-04-08 2021-04-09 2021-04-10 2021-04-11 2021-04-12 2021-04-13 2021-04-14 2021-04-15 2021-04-16 2021-04-17 2021-04-18 2021-04-19 2021-04-20 2021-04-21 2021-04-22 2021-04-23 2021-04-24 2021-04-25 2021-04-26 2021-04-27 2021-04-28 2021-04-29 2021-04-30	1 1	0.0222 0.0968					
Minimum	1.0	0.0222					
Maximum	1.0	0.0968					
Average	1	0.0595					
Count	2	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							1
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	51.4	0.145	1.27	0.298	0.179	16070	1
2021-04-30							
Minimum	51.4	0.145	1.27	0.298	0.179	16070.0	1.0
Maximum	51.4	0.145	1.27	0.298	0.179	16070.0	1.0
Average	51.4	0.145	1.27	0.298	0.179	16070	1
Count	1	1	1	1	1	1	2

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10	1.3103						
2021-04-11	1.2824						
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	16.3790	12.6					
2021-04-30							
Minimum	1.2824	12.6					
Maximum	16.379	12.6					
Average	6.3239	12.6					
Count	3	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-04-01 To: 2021-04-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	AF					
2021-04-30							
Minimum	1.0						
Maximum	1.0						
Average	1						
Count	1						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09	1	0.0005					
2021-04-10	1	0.3871					
2021-04-11		0.2378					
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	3.7385					
2021-04-30							
Minimum	1.0	5.0E-4					
Maximum	1.0	3.7385					
Average	1	1.09098					
Count	3	4					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10	1	2.4035					
2021-04-11		1.3730					
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	32.5829					
2021-04-30							
Minimum	1.0	1.373					
Maximum	1.0	32.5829					
Average	1	12.1198					
Count	2	3					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	0.1201					
2021-04-30							
Minimum	1.0	0.1201					
Maximum	1.0	0.1201					
Average	1	0.1201					
Count	1	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							1
2021-04-10							1
2021-04-11							
2021-04-12							1
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	538	1.38	7.48	0.262	1.520	410000	1
2021-04-30							1
Minimum	538.0	1.38	7.48	0.262	1.52	410000.0	1.0
Maximum	538.0	1.38	7.48	0.262	1.52	410000.0	1.0
Average	538	1.38	7.48	0.262	1.52	410000	1
Count	1	1	1	1	1	1	5

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09	0.0602						
2021-04-10	3.2230						
2021-04-11	2.4166						
2021-04-12	0.5520						
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	17.3423	57.8					
2021-04-30	0.2371						
Minimum	0.0602	57.8					
Maximum	17.3423	57.8					
Average	3.97187	57.8					
Count	6	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10	1	0.2101					
2021-04-11		0.0339					
2021-04-12	1	0.0047					
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	0.7920					
2021-04-30							
Minimum	1.0	0.0047					
Maximum	1.0	0.792					
Average	1	0.26018					
Count	3	4					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							1
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							1
2021-04-10							1
2021-04-11							
2021-04-12							1
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							1
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	179	0.948	5.70	0.194	0.880	198630	1
2021-04-30							1
Minimum	179.0	0.948	5.7	0.194	0.88	198630.0	1.0
Maximum	179.0	0.948	5.7	0.194	0.88	198630.0	1.0
Average	179	0.948	5.7	0.194	0.88	198630	1
Count	1	1	1	1	1	1	7

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01	0.0010						
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09	0.0672						
2021-04-10	0.5547						
2021-04-11	0.2867						
2021-04-12	0.0342						
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21	0.0414						
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	2.1867	40.3					
2021-04-30	0.0182						
Minimum	0.001	40.3					
Maximum	2.1867	40.3					
Average	0.39876	40.3					
Count	8	1					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							1
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	130	1.06	4.01	0.152	1.160	155310	1
2021-04-30							
Minimum	130.0	1.06	4.01	0.152	1.16	155310.0	1.0
Maximum	130.0	1.06	4.01	0.152	1.16	155310.0	1.0
Average	130	1.06	4.01	0.152	1.16	155310	1
Count	1	1	1	1	1	1	2

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10	0.4810						
2021-04-11	0.2424						
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	0.9308	38.0					
2021-04-30							
Minimum	0.2424	38.0					
Maximum	0.9308	38.0					
Average	0.5514	38					
Count	3	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	1	0.4978					
2021-04-30							
Minimum	1.0	0.4978					
Maximum	1.0	0.4978					
Average	1	0.4978					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-04-01	AH	AH					
2021-04-02	AH	AH					
2021-04-03	AH	AH					
2021-04-04	AH	AH					
2021-04-05	AH	AH					
2021-04-06	AH	AH					
2021-04-07	AH	AH					
2021-04-08	AH	AH					
2021-04-09	AH	AH					
2021-04-10	AH	AH					
2021-04-11	AH	AH					
2021-04-12	AH	AH					
2021-04-13	AH	AH					
2021-04-14	AH	AH					
2021-04-15	AH	AH					
2021-04-16	AH	AH					
2021-04-17	AH	AH					
2021-04-18	AH	AH					
2021-04-19	AH	AH					
2021-04-20	AH	AH					
2021-04-21	AH	AH					
2021-04-22	AH	AH					
2021-04-23	AH	AH					
2021-04-24	AH	AH					
2021-04-25	AH	AH					
2021-04-26	AH	AH					
2021-04-27	AH	AH					
2021-04-28	AH	AH					
2021-04-29	AH	AH					
2021-04-30	AH	AH					
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-05-12 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047519*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-12 10:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-04-01** **To:** **2021-04-30**

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
045	Overflow Volume	74063	2021-04-29	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
232	Overflow Occurrence per Year	51709	2021-04-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-04-15	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-04-16*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-25*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Occurrence per Year*	*51709*	*2021-04-26*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-27*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-28*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-29*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-04-30*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-01*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-02*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-03*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-04-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-04-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-04-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-29*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-04-30*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*007*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-05-01							
2021-05-02							
2021-05-03	1046036						
2021-05-04	1061676						
2021-05-05	1106089						
2021-05-06	1147555						
2021-05-07	1137271						
2021-05-08							
2021-05-09							
2021-05-10	1141895						
2021-05-11	1119033						
2021-05-12	2004968.3						
2021-05-13	1065043						
2021-05-14	1115896						
2021-05-15							
2021-05-16							
2021-05-17	1137271						
2021-05-18	1061676						
2021-05-19	2004968.3						
2021-05-20	1065043						
2021-05-21	1119033						
2021-05-22							
2021-05-23							
2021-05-24	1119033						
2021-05-25	1046036						
2021-05-26	1106089						
2021-05-27	1141895						
2021-05-28	1137271						
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	1046036.0						
Maximum	2004968.3						
Average	1194188.88						
Count	20						

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	1	0.0290					
Minimum	1.0	0.029					
Maximum	1.0	0.029					
Average	1	0.029					
Count	1	1					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-05-01 To: 2021-05-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							1
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							1
2021-05-09							1
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							1
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							4

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03	0.0856						
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	0.8592						
2021-05-09	8.2032						
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28	2.7737						
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	0.0856						
Maximum	8.2032						
Average	2.98043						
Count	4						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	1	0.0036					
Minimum	1.0	0.0036					
Maximum	1.0	0.0036					
Average	1	0.0036					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	1 1	AF 0.0092					
Minimum	1.0	0.0092					
Maximum	1.0	0.0092					
Average	1	0.0092					
Count	2	1					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	1	0.6200					
2021-05-09	1	3.6424					
2021-05-10		0.0010					
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28	1	2.6614					
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	1.0	0.001					
Maximum	1.0	3.6424					
Average	1	1.7312					
Count	3	4					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	1	3.8357					
2021-05-09	1	32.0536					
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28	1	16.0156					
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	1.0	3.8357					
Maximum	1.0	32.0536					
Average	1	17.30163					
Count	3	3					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	1	AD					
Minimum	1.0						
Maximum	1.0						
Average	1						
Count	1						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							1
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							1
2021-05-08							1
2021-05-09							1
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							1
2021-05-27							
2021-05-28						435000	1
2021-05-29							
2021-05-30							
2021-05-31							
Minimum						435000.0	1.0
Maximum						435000.0	1.0
Average						435000	1
Count						1	6

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03	0.5242						
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07	0.1746						
2021-05-08	4.6810						
2021-05-09	15.0482						
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26	0.1958						
2021-05-27							
2021-05-28	12.4267						
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	0.1746						
Maximum	15.0482						
Average	5.50842						
Count	6						

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	1	0.1624					
2021-05-09	1	0.3718					
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26	1	0.1124					
2021-05-27							
2021-05-28	1	0.4271					
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	1.0	0.1124					
Maximum	1.0	0.4271					
Average	1	0.26842					
Count	4	4					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-05-01 To: 2021-05-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							1
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							1
2021-05-08							1
2021-05-09							1
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							1
2021-05-27							
2021-05-28							1
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							6

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03	0.1078						
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07	0.0417						
2021-05-08	0.7250						
2021-05-09	1.6617						
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26	0.1213						
2021-05-27							
2021-05-28	2.1279						
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	0.0417						
Maximum	2.1279						
Average	0.79757						
Count	6						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							1
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							1
2021-05-27							
2021-05-28							1
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							3

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	0.8383						
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26	0.0155						
2021-05-27							
2021-05-28	1.1773						
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	0.0155						
Maximum	1.1773						
Average	0.67703						
Count	3						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	1	0.3669					
Minimum	1.0	0.3669					
Maximum	1.0	0.3669					
Average	1	0.3669					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-05-01	AH	AH					
2021-05-02	AH	AH					
2021-05-03	AH	AH					
2021-05-04	AH	AH					
2021-05-05	AH	AH					
2021-05-06	AH	AH					
2021-05-07	AH	AH					
2021-05-08	AH	AH					
2021-05-09	AH	AH					
2021-05-10	AH	AH					
2021-05-11	AH	AH					
2021-05-12	AH	AH					
2021-05-13	AH	AH					
2021-05-14	AH	AH					
2021-05-15	AH	AH					
2021-05-16	AH	AH					
2021-05-17	AH	AH					
2021-05-18	AH	AH					
2021-05-19	AH	AH					
2021-05-20	AH	AH					
2021-05-21	AH	AH					
2021-05-22	AH	AH					
2021-05-23	AH	AH					
2021-05-24	AH	AH					
2021-05-25	AH	AH					
2021-05-26	AH	AH					
2021-05-27	AH	AH					
2021-05-28	AH	AH					
2021-05-29	AH	AH					
2021-05-30	AH	AH					
2021-05-31	AH	AH					
Minimum							
Maximum							
Average							
Count							

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Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-15 17:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056510*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-06-15 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-05-01** **To:** **2021-05-31**

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
045	Overflow Volume	74063	2021-05-09	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
072	Overflow Volume	74063	2021-05-28	Million Gallons	During a storm event, the site lost power which caused the monitoring equipment to stop functioning. The overflow occurrence was confirmed, but the overflow volume cannot be calculated. The monitoring equipment returned to normal functioning once power to the site was restored.
232	Overflow Occurrence per Year	51709	2021-05-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-05-15*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-16*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-05-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	Overflow Occurrence per Year	51709	2021-05-25	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-26	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-27	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-28	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-29	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-30	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-05-31	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2021-05-01	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2021-05-02	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2021-05-03	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Volume*	*74063*	*2021-05-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-05-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-05-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-29*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-30*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-05-31*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave* *Cleveland, OH 44115*	**STATION CODE:**	*007*
		MONITORING PERIOD :	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2021-06-01	1137271						
2021-06-02	2004968.3						
2021-06-03	1046036						
2021-06-04	1046042						
2021-06-05							
2021-06-06							
2021-06-07	1061676						
2021-06-08	1119033						
2021-06-09	1106089						
2021-06-10	1147555						
2021-06-11							
2021-06-12	1061676						
2021-06-13							
2021-06-14	1141895						
2021-06-15	2004968.3						
2021-06-16	1046036						
2021-06-17	1106089						
2021-06-18	1046042						
2021-06-19							
2021-06-20							
2021-06-21	1106089						
2021-06-22	1119033						
2021-06-23	1141895						
2021-06-24	1061676						
2021-06-25	1147555						
2021-06-26							
2021-06-27							
2021-06-28	2004968.3						
2021-06-29	1065043						
2021-06-30	1115896						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1219887.81364						
Count	22						

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*025*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01 2021-06-02 2021-06-03 2021-06-04 2021-06-05 2021-06-06 2021-06-07 2021-06-08 2021-06-09 2021-06-10 2021-06-11 2021-06-12 2021-06-13 2021-06-14 2021-06-15 2021-06-16 2021-06-17 2021-06-18 2021-06-19 2021-06-20 2021-06-21 2021-06-22 2021-06-23 2021-06-24 2021-06-25 2021-06-26 2021-06-27 2021-06-28 2021-06-29 2021-06-30	1	0.2039					
Minimum	1.0	0.2039					
Maximum	1.0	0.2039					
Average	1	0.2039					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*035*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	1	0.3385					
2021-06-21	1	0.1140					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	1.0	0.114					
Maximum	1.0	0.3385					
Average	1	0.22625					
Count	2	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*038*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-06-01 To: 2021-06-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							
2021-06-03							1
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							1
2021-06-10							1
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							1
2021-06-21						77010	1
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							1
Minimum						77010.0	1.0
Maximum						77010.0	1.0
Average						77010	1
Count						1	6

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*040*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02							
2021-06-03	0.6711						
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09	0.9675						
2021-06-10	0.4182						
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	2.8000						
2021-06-21	1.8982						
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30	0.1281						
Minimum	0.1281						
Maximum	2.8						
Average	1.14718						
Count	6						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*044*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01 2021-06-02 2021-06-03 2021-06-04 2021-06-05 2021-06-06 2021-06-07 2021-06-08 2021-06-09 2021-06-10 2021-06-11 2021-06-12 2021-06-13 2021-06-14 2021-06-15 2021-06-16 2021-06-17 2021-06-18 2021-06-19 2021-06-20 2021-06-21 2021-06-22 2021-06-23 2021-06-24 2021-06-25 2021-06-26 2021-06-27 2021-06-28 2021-06-29 2021-06-30	1	0.0064					
Minimum	1.0	0.0064					
Maximum	1.0	0.0064					
Average	1	0.0064					
Count	1	1					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*045*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	1	0.1636					
2021-06-21	1	0.2782					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	1.0	0.1636					
Maximum	1.0	0.2782					
Average	1	0.2209					
Count	2	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*056*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	1	0.5273					
2021-06-21	1	0.0826					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25	1	0.5537					
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	1.0	0.0826					
Maximum	1.0	0.5537					
Average	1	0.38787					
Count	3	3					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*058*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-06-01 To: 2021-06-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09	1	1.6679					
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	1	7.4941					
2021-06-21	1	3.4938					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25	1	4.3170					
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	1.0	1.6679					
Maximum	1.0	7.4941					
Average	1	4.2432					
Count	4	4					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*059*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	1	1.0563					
2021-06-21	1	0.0075					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	1.0	0.0075					
Maximum	1.0	1.0563					
Average	1	0.5319					
Count	2	2					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*069*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*072*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01 2021-06-02 2021-06-03 2021-06-04 2021-06-05 2021-06-06 2021-06-07 2021-06-08 2021-06-09 2021-06-10 2021-06-11 2021-06-12 2021-06-13 2021-06-14 2021-06-15 2021-06-16 2021-06-17 2021-06-18 2021-06-19 2021-06-20 2021-06-21 2021-06-22 2021-06-23 2021-06-24 2021-06-25 2021-06-26 2021-06-27 2021-06-28 2021-06-29 2021-06-30	1	0.3153					
Minimum	1.0	0.3153					
Maximum	1.0	0.3153					
Average	1	0.3153					
Count	1	1					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-06-01 To: 2021-06-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							1
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							1
2021-06-08							1
2021-06-09							1
2021-06-10							1
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							1
2021-06-19							
2021-06-20							1
2021-06-21							1
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							1
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							1
Minimum							1.0
Maximum							1.0
Average							1
Count							10

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*080*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02	0.1909						
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07	1.2077						
2021-06-08	0.0151						
2021-06-09	0.0110						
2021-06-10	1.1400						
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18	0.6519						
2021-06-19							
2021-06-20	2.2459						
2021-06-21	2.5861						
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25	3.0555						
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30	0.6040						
Minimum	0.011						
Maximum	3.0555						
Average	1.17081						
Count	10						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*088*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08	1	0.0915					
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18	1	0.0007					
2021-06-19							
2021-06-20	1	0.2468					
2021-06-21	1	0.6020					
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25	1	0.0858					
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30	1	0.0030					
Minimum	1.0	7.0E-4					
Maximum	1.0	0.602					
Average	1	0.17163					
Count	6	6					

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							1
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							1
2021-06-08							
2021-06-09							
2021-06-10							1
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							1
2021-06-19							1
2021-06-20							1
2021-06-21							1
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							1
2021-06-26							
2021-06-27							1
2021-06-28							1
2021-06-29							
2021-06-30							1
Minimum							1.0
Maximum							1.0
Average							1
Count							11

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*200*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02	0.0803						
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07	0.0422						
2021-06-08							
2021-06-09							
2021-06-10	0.1880						
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18	0.0732						
2021-06-19	0.0046						
2021-06-20	2.4157						
2021-06-21	0.5583						
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25	0.3922						
2021-06-26							
2021-06-27	0.0049						
2021-06-28	0.0116						
2021-06-29							
2021-06-30	0.1458						
Minimum	0.0046						
Maximum	2.4157						
Average	0.35607						
Count	11						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-06-01 To: 2021-06-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							1
2021-06-21							1
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							1
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							1.0
Maximum							1.0
Average							1
Count							3

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*202*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-06-01 To: 2021-06-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20	4.4302						
2021-06-21	0.6134						
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27	0.0122						
2021-06-28							
2021-06-29							
2021-06-30							
Minimum	0.0122						
Maximum	4.4302						
Average	1.68527						
Count	3						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*206*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*211*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							1
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							1.0
Maximum							1.0
Average							1
Count							1

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*218*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01 2021-06-02 2021-06-03 2021-06-04 2021-06-05 2021-06-06 2021-06-07 2021-06-08 2021-06-09 2021-06-10 2021-06-11 2021-06-12 2021-06-13 2021-06-14 2021-06-15 2021-06-16 2021-06-17 2021-06-18 2021-06-19 2021-06-20 2021-06-21 2021-06-22 2021-06-23 2021-06-24 2021-06-25 2021-06-26 2021-06-27 2021-06-28 2021-06-29 2021-06-30	0.0122						
Minimum	0.0122						
Maximum	0.0122						
Average	0.0122						
Count	1						

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*232*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2021-06-01	AH	AH					
2021-06-02	AH	AH					
2021-06-03	AH	AH					
2021-06-04	AH	AH					
2021-06-05	AH	AH					
2021-06-06	AH	AH					
2021-06-07	AH	AH					
2021-06-08	AH	AH					
2021-06-09	AH	AH					
2021-06-10	AH	AH					
2021-06-11	AH	AH					
2021-06-12	AH	AH					
2021-06-13	AH	AH					
2021-06-14	AH	AH					
2021-06-15	AH	AH					
2021-06-16	AH	AH					
2021-06-17	AH	AH					
2021-06-18	AH	AH					
2021-06-19	AH	AH					
2021-06-20	AH	AH					
2021-06-21	AH	AH					
2021-06-22	AH	AH					
2021-06-23	AH	AH					
2021-06-24	AH	AH					
2021-06-25	AH	AH					
2021-06-26	AH	AH					
2021-06-27	AH	AH					
2021-06-28	AH	AH					
2021-06-29	AH	AH					
2021-06-30	AH	AH					
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*239*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	***NEORSD***
DISTRICT:	***NEDO***	**ANALYST:**	***NEORSD***
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Volume	CBOD 5 day					
PARAMETER CODE	74063	80082					
UNITS	Million Gallons	mg/l					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	24hr Total	Grab					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*242*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			Certification Version Date 2021-07-08 14:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1062053*	**STATUS:**	*Original*
FACILITY:	*Northeast Ohio Regional SD*	**PERMIT NUMBER:**	*3PA00002*HD*
LOCATION:	*3826 Euclid Ave*	**STATION CODE:**	*258*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD*
DISTRICT:	*NEDO*	**ANALYST:**	*NEORSD*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-08 14:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *Northeast Ohio Regional SD*
LOCATION: *3826 Euclid Ave*
Cleveland, OH 44115

PERMIT NUMBER: *3PA00002*HD*
MONITORING PERIOD : **2021-06-01** **To:** **2021-06-30**

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
232	Overflow Occurrence per Year	51709	2021-06-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-15	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2021-06-16	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	*Overflow Occurrence per Year*	*51709*	*2021-06-17*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-18*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-19*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-20*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-21*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-22*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-23*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-24*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-25*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-26*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Occurrence per Year*	*51709*	*2021-06-27*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-28*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-29*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Occurrence per Year*	*51709*	*2021-06-30*	*No./Year*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-01*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-02*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-03*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-04*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-05*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-06*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-06-07*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-08*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-09*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-10*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-11*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-12*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-13*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-14*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-15*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-16*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-06-17*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-18*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-19*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-20*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-21*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-22*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-23*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-24*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-25*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-26*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

232	*Overflow Volume*	*74063*	*2021-06-27*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-28*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-29*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*
232	*Overflow Volume*	*74063*	*2021-06-30*	*Million Gallons*	*CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.*

Dry Weather Overflow and Upset Reports

First Half of 2021

Northeast Ohio Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Brian Stapleton

******REVISED COPY******

Date: 1/6/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

[X] **Initial Advisory**

[X] **Five-Day Status Report**

Structure: MSPSUA010 MARY ST. PS FORCE MAIN AIR RELEASE VAULT - MARQUARDT & W. 5TH ST.

Date Found: 1/5/2021 **TIME FOUND:** 12:59 PM **CSO:** CSO-086

Receiving Water: CUYAHOGA RIVER

Estimated Discharge (Gallons): 325,000

Cause: Broken force main air release valve

Proposed Remedial Action: Stop pumps, isolate the primary force main at pump station, utilize the back-up force main, and place pump station back in operation using the back-up force main. Dewater the air release vault and isolate the valve from the primary force main. Switch back to the primary force main and repair the air release valve.

Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: No flows were observed discharging from the CSO Permit Point to the local waterway. Flow traveled from the air release vault across a parking lot with most of the flow discharging to a nearby combined wastewater manhole returning back to Mary St. Pump Station. Some of the flow discharged to a nearby field. The flows in the parking lot were vacuumed by crews and the parking lot was cleaned; however, a portion of the flow was absorbed in the field. Estimated discharge volume is conservative based on available information. Fianlly, NEORSD discussed this issue with Ohio EPA via phone call today.

Date Corrected: 1/5/2021 **Time Corrected:** 1:40 PM

Duration of Discharge (Hrs): 0.70

Corrective Action: Stopped pumps, isolated the primary force main at pump station, utilized the back-up force main, and placed pump station back in operation using the back-up force main. Dewatered the air release vault and isolated the valve from the primary force main. Switched back to the primary force main and crews are currently repairing the air release valve.

Work Order #: 2100407-01

Northeast Ohio Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Brian Stapleton

Date: 1/6/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

[X] **Initial Advisory**

[X] **Five-Day Status Report**

Structure: MSPSUA010 MARY ST. PS FORCE MAIN AIR RELEASE VAULT - MARQUARDT & W. 5TH ST.

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Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: No flows were observed discharging from the CSO Permit Point to the local waterway. Flow traveled from the air release vault across a parking lot with most of the flow discharging to a nearby combined wastewater manhole returning back to Mary St. Pump Station. Some of the flow discharged to a nearby field. The flows in the parking lot were vacuumed by crews and the parking lot was cleaned; however, a portion of the flow was absorbed in the field. Estimated discharge volume is conservative based on available information.

Date Corrected: 1/5/2021 **Time Corrected:** 1:40 PM

Duration of Discharge (Hrs): 0.70

Corrective Action: Stopped pumps, isolated the primary force main at pump station, utilized the back-up force main, and placed pump station back in operation using the back-up force main. Dewatered the air release vault and isolated the valve from the primary force main. Switched back to the primary force main and crews are currently repairing the air release valve.

Work Order #: 2100407-01

Northeast Ohio
Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: David Glisic

Date: 3/11/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

[X] **Initial Advisory**

[X] **Five-Day Status Report**

Structure: BC-109 Henninger Road and West 23rd Street

Date Found: 3/10/2020 **TIME FOUND:** 5:30 PM **CSO:** 050

Receiving Water: BIG CREEK

Estimated Discharge (Gallons): 42,000

Cause: Downstream blockage

Proposed Remedial Action: Jet rod and vacuum

Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: A call was received on 3/10/2021 at 3:50PM regarding a potential dry weather overflow at CSO-050. SSMO maintenance crews were dispacthed to the site and confirmed that an active overflow was in progress at 5:30PM. Crews traced the flow upstream to District Regulator BC-109 which was blocked with sticks and attached rags. Crews used the Jet rod and vacuum to dislodge and remove the debris causing the blockage.

Date Corrected: 3/10/2020 **Time Corrected:** 10:30 PM

Duration of Discharge (Hrs): 5.00

Corrective Action: Jet rodded and vacuumed

Work Order #: 2105255-01

Northeast Ohio
Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Brian Stapleton

Date: 4/12/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

☐ **Initial Advisory**

☒ **Five-Day Status Report**

Structure: WR-55 DIVISION AVENUE PUMP STATION

Date Found: 4/12/2021 **TIME FOUND:** 5:00 AM **CSO:** CSO-075

Receiving Water: CUYAHOGA RIVER

Estimated Discharge (Gallons): 767,436 gallons

Cause: Level control malfunction after becoming blocked with debris, causing pumps to fault.

Proposed Remedial Action: Reset and restarted pumps and VFD controllers.

Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: N/A

Date Corrected: 4/12/2021 **Time Corrected:** 6:35 AM

Duration of Discharge (Hrs): 29.33 hours

Corrective Action: Added additional alarm point at Division and all other pump stations to reduce response time in future events.

Work Order #: 2107866-01

Northeast Ohio
Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Brian Stapleton

Date: 4/12/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

[X] **Initial Advisory**

[ ] **Five-Day Status Report**

Structure: WR-55 DIVISION AVENUE PUMP STATION

Date Found: 4/12/2021 **TIME FOUND:** 5:00 AM **CSO:** CSO-075

Receiving Water: CUYAHOGA RIVER

Estimated Discharge (Gallons): PENDING

Cause: Level Control Malfunction. Presently investigating root cause.

Proposed Remedial Action: Reset and restarted pumps and VFD controllers.

Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: N/A

Date Corrected: 4/12/2021 **Time Corrected:** 6:35 AM

Duration of Discharge (Hrs): PENDING

Corrective Action: Investigating additional corrective actions.

Work Order #: 2107866-01

Northeast Ohio
Regional Sewer District

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 5/13/2021

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

[X] **Initial Advisory**

[X] **Five-Day Status Report**

Structure: WR-02 West 3rd at Service Court

Date Found: 5/12/2021 **TIME FOUND:** 2:30PM **CSO:** 089

Receiving Water: CUYAHOGA RIVER

Estimated Discharge (Gallons): 115

Cause: Downstream blockage

Proposed Remedial Action: Jet rod and vacuum

Jurisdiction: NEORSD

Contact Person: Kevin Zebrowski

Additional Information: SSMO crews discovered regulator WR-02 overflowing during a routine preventative maintenance route inspection. It was determined that the outgoing DWO was blocked with grit and fine debris.

Date Corrected: 5/12/2021 **Time Corrected:** 4:25 PM

Duration of Discharge (Hrs): 1.91 HRS

Corrective Action: Jet rodded and vacuumed

Work Order #: 2110479-01

Easterly WWTP eDMR Reports

First Half of 2021

Outfall 002: Wet Weather Overflow/Bypass to Lake Erie

Outfall 003: Settled Bypass Spillway Off Primary Tanks

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1023525*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-01-01	155	1	20.01	23.0	4.52		
2021-01-02	133	0	3.54	17.7	2.1		
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
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2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	133.0	0.0	3.54	17.7	2.1		
Maximum	155.0	1.0	20.01	23.0	4.52		
Average	144	0.5	11.775	20.35	3.31		
Count	2	2	2	2	2		

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-02-10 14:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1023525*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*003*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-01-01	1	7.95	44.0	30.32	23.5		
2021-01-02	0	7.98	102	22.08	13.2		
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
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2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	0.0	7.95	44.0	22.08	13.2		
Maximum	1.0	7.98	102.0	30.32	23.5		
Average	0.5	7.965	73	26.2	18.35		
Count	2	2	2	2	2		

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			**Certification Version Date** **2021-02-10 14:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: ***NEORSD Easterly WWTP***
LOCATION: ***14021 Lakeshore Blvd***
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-01-01** **To:** **2021-01-31**

GENERAL REPORT COMMENT:
Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-05*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1033088*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-17 13:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1033088*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*003*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-17 13:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: ***NEORSD Easterly WWTP***
LOCATION: ***14021 Lakeshore Blvd***
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-02-01** **To:** **2021-02-28**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
601	*CBOD 5 day*	*80082*	*2021-02-04*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-02-16*	*mg/l*	*BLANKS FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1040109*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-03-01 2021-03-02 2021-03-03 2021-03-04 2021-03-05 2021-03-06 2021-03-07 2021-03-08 2021-03-09 2021-03-10 2021-03-11 2021-03-12 2021-03-13 2021-03-14 2021-03-15 2021-03-16 2021-03-17 2021-03-18 2021-03-19 2021-03-20 2021-03-21 2021-03-22 2021-03-23 2021-03-24 2021-03-25 2021-03-26 2021-03-27 2021-03-28 2021-03-29 2021-03-30 2021-03-31	61.0	1	4.29	23.9	3.26		
Minimum	61.0	1.0	4.29	23.9	3.26		
Maximum	61.0	1.0	4.29	23.9	3.26		
Average	61	1	4.29	23.9	3.26		
Count	1	1	1	1	1		

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			**Certification Version Date** **2021-04-14 14:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1040109*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*003*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-03-01 2021-03-02 2021-03-03 2021-03-04 2021-03-05 2021-03-06 2021-03-07 2021-03-08 2021-03-09 2021-03-10 2021-03-11 2021-03-12 2021-03-13 2021-03-14 2021-03-15 2021-03-16 2021-03-17 2021-03-18 2021-03-19 2021-03-20 2021-03-21 2021-03-22 2021-03-23 2021-03-24 2021-03-25 2021-03-26 2021-03-27 2021-03-28 2021-03-29 2021-03-30 2021-03-31	1	5.82	106	10.49	52.4		
Minimum	1.0	5.82	106.0	10.49	52.4		
Maximum	1.0	5.82	106.0	10.49	52.4		
Average	1	5.82	106	10.49	52.4		
Count	1	1	1	1	1		

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			**Certification Version Date** **2021-04-14 14:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Easterly WWTP*
LOCATION: *14021 Lakeshore Blvd*
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-03-01** **To:** **2021-03-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-31*	*mg/l*	*BLANK FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-02*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-23*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-30*	*mg/l*	*BLANKS FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047961*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	286.0	1	48.28	158.0	7.82		
2021-04-30							
Minimum	286.0	1.0	48.28	158.0	7.82		
Maximum	286.0	1.0	48.28	158.0	7.82		
Average	286	1	48.28	158	7.82		
Count	1	1	1	1	1		

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-13 13:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1047961*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*003*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-13 13:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: ***NEORSD Easterly WWTP***
LOCATION: ***14021 Lakeshore Blvd***
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-04-01** **To:** **2021-04-30**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-04-08*	*mg/l*	*STANDARD FAILED*
001	*CBOD 5 day*	*80082*	*2021-04-18*	*mg/l*	*SEED FAILED*
601	*CBOD 5 day*	*80082*	*2021-04-08*	*mg/l*	*STANDARD FAILED*
601	*CBOD 5 day*	*80082*	*2021-04-12*	*mg/l*	*BLANKS FAILED*
601	*CBOD 5 day*	*80082*	*2021-04-18*	*mg/l*	*SEED FAILED*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056466*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	E. coli	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge	
PARAMETER CODE	00530	31648	74062	74063	80082	82517	
UNITS	mg/l	#/100 ml	No./Month	Million Gallons	mg/l	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Total	24hr Total	Grab	24hr Total	
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08	133	548000	1	0.19	43.2	0.83	
2021-05-09	44.7	AH	1	42.53	40.0	8.18	
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28	161	336000	1.0	23.28	32.1	6.97	
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	44.7	336000.0	1.0	0.19	32.1	0.83	
Maximum	161.0	548000.0	1.0	42.53	43.2	8.18	
Average	112.9	442000	1	22	38.43333	5.32667	
Count	3	2	3	3	3	3	

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			**Certification Version Date** **2021-06-15 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1056466*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*003*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	E. coli	Bypass Volume	CBOD 5 day	
PARAMETER CODE	00051	00052	00530	31648	51428	80082	
UNITS	No./Day	Hrs/Day	mg/l	#/100 ml	MGAL	mg/l	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	24hr Total	24hr Total	Grab	Grab	24hr Total	Grab	
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			**Certification Version Date** **2021-06-15 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Easterly WWTP*
LOCATION: *14021 Lakeshore Blvd*
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-05-01** **To:** **2021-05-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*BLANKS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-05-11*	*mg/l*	*BLANKS FAILED QC CRITERIA*
002	*E. coli*	*31648*	*2021-05-09*	*#/100 ml*	*RECEIVED PAST HOLD TIME*
601	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-05-11*	*mg/l*	*BLANKS FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064305*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	E. coli	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge	
PARAMETER CODE	00530	31648	74062	74063	80082	82517	
UNITS	mg/l	#/100 ml	No./Month	Million Gallons	mg/l	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Total	24hr Total	Grab	24hr Total	
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-14 11:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064305*	**STATUS:**	*Original*
FACILITY:	*NEORSD Easterly WWTP*	**PERMIT NUMBER:**	*3PF00001*MD*
LOCATION:	*14021 Lakeshore Blvd* *Cleveland, OH 44115*	**STATION CODE:**	*003*
		MONITORING PERIOD :	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	E. coli	Bypass Volume	CBOD 5 day	
PARAMETER CODE	00051	00052	00530	31648	51428	80082	
UNITS	No./Day	Hrs/Day	mg/l	#/100 ml	MGAL	mg/l	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	24hr Total	24hr Total	Grab	Grab	24hr Total	Grab	
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-14 11:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: ***NEORSD Easterly WWTP***
LOCATION: ***14021 Lakeshore Blvd***
Cleveland, OH 44115

PERMIT NUMBER: *3PF00001*MD*
MONITORING PERIOD : **2021-06-01** **To:** **2021-06-30**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*E. coli*	*31648*	*2021-06-08*	*#/100 ml*	*CHLORINE DETECTED IN SAMPLE*
001	*CBOD 5 day*	*80082*	*2021-06-21*	*mg/l*	*BLANKS AND SEED DID NOT MEET QC CRITERIA*

Division of Surface Water
Non-compliance Notification for
Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office:	sedo24hournpdes@epa.state.oh.us
Southwest District Office:	swdo24hournpdes@epa.state.oh.us
Northwest District Office:	nwdo24hournpdes@epa.state.oh.us
Northeast District Office:	nedo24hournpdes@epa.state.oh.us
Central District Office:	cdo24hournpdes@epa.state.oh.us
Central Office:	co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	01-01-2021 (1603 – 0000)
Date and time discharge discovered:	01-01-2021 (1603)
Description of discharge	
Approximate amount of discharge:	30.32 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Thomas Wenger, Wasel Sahib Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through March 2021. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892

Division of Surface Water
Non-compliance Notification for
Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

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Southwest District Office:	swdo24hournpdes@epa.state.oh.us
Northwest District Office:	nwdo24hournpdes@epa.state.oh.us
Northeast District Office:	nedo24hournpdes@epa.state.oh.us
Central District Office:	cdo24hournpdes@epa.state.oh.us
Central Office:	co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	01-02-2021 (0000 – 0759)
Date and time discharge discovered:	01-02-2021 (0000)
Description of discharge	
Approximate amount of discharge:	22.08 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Alvin Howard, Wasel Sahib Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through March 2021. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892

Division of Surface Water
Non-compliance Notification for
Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office:	sedo24hournpdes@epa.state.oh.us
Southwest District Office:	swdo24hournpdes@epa.state.oh.us
Northwest District Office:	nwdo24hournpdes@epa.state.oh.us
Northeast District Office:	nedo24hournpdes@epa.state.oh.us
Central District Office:	cdo24hournpdes@epa.state.oh.us
Central Office:	co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	03-18-2021 (1623 – 2212)
Date and time discharge discovered:	03-18-2021 (1623)
Description of discharge	
Approximate amount of discharge:	10.49 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Patrick Shaposka, Mark Gabor Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through April 2021. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892

Southerly WWTC eDMR Reports

First Half of 2021

Outfall 002: Bypass After Primary Settling Tanks

Outfall 093: Fictitious Outfall for Bypass After Primary Settling Tanks

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1029850*	**STATUS:**	*Revision*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-08 11:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1029850*	**STATUS:**	*Revision*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-08 11:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-01-01** **To:** **2021-01-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-04*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-05*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1032743*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-16 15:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1032743*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-03-16 15:03**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-02-01** **To:** **2021-02-28**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
601	*CBOD 5 day*	*80082*	*2021-02-04*	*mg/l*	*BLANKS FAILED QC*
601	*CBOD 5 day*	*80082*	*2021-02-16*	*mg/l*	*BLANKS FAILED QC*
601	*CBOD 5 day*	*80082*	*2021-02-25*	*mg/l*	*D.O. UPTAKE AND RESIDUAL FAILED QC*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1041428*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-19 12:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1041428*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-19 12:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-03-01** **To:** **2021-03-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-31*	*mg/l*	*BLANK FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-02*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-08*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARDS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-23*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-30*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-31*	*mg/l*	*BLANK FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1049839*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-19 15:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1049839*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	Flow Rate	CBOD 5 day	Duration of Discharge
PARAMETER CODE	00400	00530	00610	00665	50050	80082	82517
UNITS	S.U.	mg/l	mg/l	mg/l	MGD	mg/l	Hours
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	24hr Total	Composite	24hr Total
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29	7.1		1.44	0.395	64.05	19.6	10.08
2021-04-30							
Minimum	7.1		1.44	0.395	64.05	19.6	10.08
Maximum	7.1		1.44	0.395	64.05	19.6	10.08
Average			1.44	0.395	64.05	19.6	10.08
Count	1		1	1	1	1	1

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-19 15:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-04-01** **To:** **2021-04-30**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238). Monitoring Point 001, Total Residual Chlorine, 4/20/2021: The critical value reported is the critical va of two samples. Two additional samples were invalidated due to a standard result outside the acceptable range.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-04-08*	*mg/l*	*STANDARD FAILED*
001	*CBOD 5 day*	*80082*	*2021-04-18*	*mg/l*	*SEED FAILED*
001	*Chlorine, Total Residual*	*50060*	*2021-04-20*	*mg/l*	*The critical value reported is the critical value of two samples. Two additional samples were invalidated due to a standard result outside the acceptable range.*
601	*CBOD 5 day*	*80082*	*2021-04-08*	*mg/l*	*STANDARD FAILED*
601	*CBOD 5 day*	*80082*	*2021-04-12*	*mg/l*	*BLANKS FAILED*
601	*CBOD 5 day*	*80082*	*2021-04-18*	*mg/l*	*SEED FAILED*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058041*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	E. coli	Flow Rate	Chlorine, Total Residual
PARAMETER CODE	00400	00530	00610	00665	31648	50050	50060
UNITS	S.U.	mg/l	mg/l	mg/l	#/100 ml	MGD	mg/l
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	Grab	24hr Total	Grab
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan			**Certification Version Date** **2021-06-18 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058041*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	CBOD 5 day	Duration of Discharge					
PARAMETER CODE	80082	82517					
UNITS	mg/l	Hours					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Composite	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-18 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058041*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	E. coli	Flow Rate	Chlorine, Total Residual
PARAMETER CODE	00400	00530	00610	00665	31648	50050	50060
UNITS	S.U.	mg/l	mg/l	mg/l	#/100 ml	MGD	mg/l
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	Grab	24hr Total	Grab
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09	7.0		1.07	0.203	AH	52.44	0.016
2021-05-10	7.1		AH	AH	AH	1.07	AA 0.012
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	7.0		1.07	0.203		1.07	0.0
Maximum	7.1		1.07	0.203		52.44	0.016
Average			1.07	0.203		26.755	0.008
Count	2		1	1		2	2

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-18 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058041*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day	Duration of Discharge					
PARAMETER CODE	80082	82517					
UNITS	mg/l	Hours					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Composite	24hr Total					
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09	13.2	8.65					
2021-05-10	AH	1.83					
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum	13.2	1.83					
Maximum	13.2	8.65					
Average	13.2	5.24					
Count	1	2					

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-18 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-05-01** **To:** **2021-05-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	Chlorine, Total Residual	50060	2021-05-01	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-02	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-03	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-04	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-05	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-06	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-07	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-08	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-09	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-11	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-12	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate. The duplicate procedure for a high total chlorine residual effluent result was not followed due to inadvertent operator error. Additional training has been provided. The maximum daily result is instead reported as an average between the original sample and a second separate sample analyzed as part of the same sampling event.
001	Chlorine, Total Residual	50060	2021-05-15	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-16	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-17	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate

001	Chlorine, Total Residual	50060	2021-05-25	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-26	mg/l	The 24-hour batch duplicate required by the method was not run due to inadvertent operator error. The result for the 0400 sample analysis is instead reported as an average between the sample and field duplicate
001	Chlorine, Total Residual	50060	2021-05-27	mg/l	The total chlorine result 0.093 mg/L obtained from the 10:00am sample has been discarded due to gross particle interference with the DPD colorimetric method. Final Settling Tank hosing of effluent weirs at second stage to remove algal growth was performed by Plant Maintenance from 7:00 am to 3:30 pm on 5/27/21. Further investigation into the cause of the algal growth interference is ongoing.
001	Chlorine, Total Residual	50060	2021-05-30	mg/l	The total chlorine results 0.078 mg/L obtained from the 4:00 pm sample have been discarded due to possible interference with the DPD colorimetric method. Sodium bisulfite residual present at the time of the 4:00 pm analysis was sufficient to neutralize any residual chlorine present in the effluent. Further investigation into the cause of the interference is ongoing.
001	CBOD 5 day	80082	2021-05-11	mg/l	BLANKS FAILED QC CRITERIA
093	Nitrogen, Ammonia (NH3)	00610	2021-05-10	mg/l	INSUFFICIENT SAMPLE VOLUME FOR ANALYSIS
093	Phosphorus, Total (P)	00665	2021-05-10	mg/l	INSUFFICIENT SAMPLE VOLUME FOR ANALYSIS.
093	E. coli	31648	2021-05-09	#/100 ml	RECEIVED PAST HOLD TIME.
093	E. coli	31648	2021-05-10	#/100 ml	RECEIVED PAST HOLD TIME.

093	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*INSUFFICIENT SAMPLE VOLUME FOR ANALYSIS*
601	*Total Suspended Solids*	*00530*	*2021-05-28*	*mg/l*	*Due to lab sample login error of excess sample volume, reported result is not representative of 24 hour flow.*
601	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-05-11*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-05-28*	*mg/l*	*Due to lab sample login error of excess sample volume, reported result is not representative of 24 hour flow.*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064537*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	E. coli	Flow Rate	Chlorine, Total Residual
PARAMETER CODE	00400	00530	00610	00665	31648	50050	50060
UNITS	S.U.	mg/l	mg/l	mg/l	#/100 ml	MGD	mg/l
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	Grab	24hr Total	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-07-15 08:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064537*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*002*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	CBOD 5 day	Duration of Discharge					
PARAMETER CODE	80082	82517					
UNITS	mg/l	Hours					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Composite	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
2021-06-13							
2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
2021-06-20							
2021-06-21							
2021-06-22							
2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan			**Certification Version Date** **2021-07-15 08:07**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064537*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	pH	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Phosphorus, Total (P)	E. coli	Flow Rate	Chlorine, Total Residual
PARAMETER CODE	00400	00530	00610	00665	31648	50050	50060
UNITS	S.U.	mg/l	mg/l	mg/l	#/100 ml	MGD	mg/l
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Calculated	Composite	Composite	Grab	24hr Total	Grab
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
2021-06-12							
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2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
2021-06-18							
2021-06-19							
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2021-06-23							
2021-06-24							
2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1064537*	**STATUS:**	*Original*
FACILITY:	*NEORSD Southerly WWTC*	**PERMIT NUMBER:**	*3PF00002*OD*
LOCATION:	*6000 Canal Road*	**STATION CODE:**	*093*
	Cuyahoga Heights, OH 44124	**MONITORING PERIOD :**	**2021-06-01 To: 2021-06-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	CBOD 5 day	Duration of Discharge					
PARAMETER CODE	80082	82517					
UNITS	mg/l	Hours					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Composite	24hr Total					
2021-06-01							
2021-06-02							
2021-06-03							
2021-06-04							
2021-06-05							
2021-06-06							
2021-06-07							
2021-06-08							
2021-06-09							
2021-06-10							
2021-06-11							
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2021-06-14							
2021-06-15							
2021-06-16							
2021-06-17							
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2021-06-20							
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2021-06-22							
2021-06-23							
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2021-06-25							
2021-06-26							
2021-06-27							
2021-06-28							
2021-06-29							
2021-06-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Brian Flanagan			Certification Version Date 2021-07-15 08:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Southerly WWTC*
LOCATION: *6000 Canal Road*
Cuyahoga Heights, OH 44124

PERMIT NUMBER: *3PF00002*OD*
MONITORING PERIOD : **2021-06-01** **To:** **2021-06-30**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*Chlorine, Total Residual*	*50060*	*2021-06-18*	*mg/l*	*An additional analysis was invalidated due to operator error related to reagent reaction time*
001	*CBOD 5 day*	*80082*	*2021-06-21*	*mg/l*	*BLANKS AND SEED DID NOT MEET QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-06-21*	*mg/l*	*BLANKS AND SEED DID NOT MEET QC CRITERIA*

Division of Surface Water
Non-compliance Notification for
Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office:	sedo24hournpdes@epa.ohio.gov
Southwest District Office:	swdo24hournpdes@epa.ohio.gov
Northwest District Office:	nwdo24hournpdes@epa.ohio.gov
Northeast District Office:	nedo24hournpdes@epa.ohio.gov
Central District Office:	cdo24hournpdes@epa.ohio.gov
Central Office:	co24hournpdes@epa.ohio.gov

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	NEORSD- Southerly WWTP
NPDES Permit number:	3PF00002*OD
Contact name for permittee:	Terry Robinson
Contact telephone number:	(216) 641-3200
Date and time of discharge	
Date and time(s) of discharge:	04/29/2021 @ 11:44 hours through 04/29/2021 @ 21:49 hours
Date and time discharge discovered:	04/29/2021 @ 11:44 hours
Description of discharge	
Approximate amount of discharge:	64.05 MG
Characteristics of discharge:	Settled Sewage **at Outfall 002**
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Cuyahoga River
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Exceeded the plant's hydraulic capacity and flows were temporarily inflated due to Second Stage Aeration at a temporary capacity of 348 MGD.
Contact person with knowledge of discharge (if different than above)	
Name:	**Michael Mencl**
Telephone number:	(216) 641-3200
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	
Person responsible for implementing remedial steps	
Name:	
Telephone number:	

Division of Surface Water
Non-compliance Notification for
Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office:	sedo24hournpdes@epa.ohio.gov
Southwest District Office:	swdo24hournpdes@epa.ohio.gov
Northwest District Office:	nwdo24hournpdes@epa.ohio.gov
Northeast District Office:	nedo24hournpdes@epa.ohio.gov
Central District Office:	cdo24hournpdes@epa.ohio.gov
Central Office:	co24hournpdes@epa.ohio.gov

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	NEORSD- Southerly WWTP
NPDES Permit number:	3PF00002*OD
Contact name for permittee:	Terry Robinson
Contact telephone number:	(216) 641-3200
Date and time of discharge	
Date and time(s) of discharge:	05/09/2021 @ 15:21 hours through 05/10/2021 @ 0050 hours
Date and time discharge discovered:	05/09/2021 @ 15:21 hours
Description of discharge	
Approximate amount of discharge:	53.51 MG
Characteristics of discharge:	Settled Sewage **at Outfall 002**
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Cuyahoga River
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Exceeded the plant's hydraulic capacity and flows were temporarily inflated due to Second Stage Aeration at a temporary capacity of 348 MGD.
Contact person with knowledge of discharge (if different than above)	
Name:	**Catherine Perciado**
Telephone number:	(216) 641-3200
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	
Person responsible for implementing remedial steps	
Name:	
Telephone number:	

Westerly WWTC eDMR Reports

First Half of 2021

Outfall 002: Wet Weather Overflow/Bypass to Lake Erie

Outfall 602: Secondary Treatment Bypass

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1025422*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-01-01 To: 2021-01-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-01-01	154	1	9.2	26.6			
2021-01-02	67.3	0	0.5	13.3			
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum	67.3	0.0	0.5	13.3			
Maximum	154.0	1.0	9.2	26.6			
Average	110.65	0.5	4.85	19.95			
Count	2	2	2	2			

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts			**Certification Version Date** **2021-02-17 13:02**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1025422*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*602*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-01-01 To: 2021-01-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-01-01							
2021-01-02							
2021-01-03							
2021-01-04							
2021-01-05							
2021-01-06							
2021-01-07							
2021-01-08							
2021-01-09							
2021-01-10							
2021-01-11							
2021-01-12							
2021-01-13							
2021-01-14							
2021-01-15							
2021-01-16							
2021-01-17							
2021-01-18							
2021-01-19							
2021-01-20							
2021-01-21							
2021-01-22							
2021-01-23							
2021-01-24							
2021-01-25							
2021-01-26							
2021-01-27							
2021-01-28							
2021-01-29							
2021-01-30							
2021-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		Certification Version Date 2021-02-17 13:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Westerly WWTC*
LOCATION: *5800 Cleveland Memorial Shoreway NW*
Cleveland, OH 44115

PERMIT NUMBER: *3PE00001*QD*
MONITORING PERIOD : **2021-01-01** **To:** **2021-01-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-04*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-05*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-10*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-14*	*mg/l*	*STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-01-24*	*mg/l*	*INITIAL D.O. FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1033592*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts			Certification Version Date 2021-03-18 14:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1033592*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*602*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-02-01 To: 2021-02-28**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-02-01							
2021-02-02							
2021-02-03							
2021-02-04							
2021-02-05							
2021-02-06							
2021-02-07							
2021-02-08							
2021-02-09							
2021-02-10							
2021-02-11							
2021-02-12							
2021-02-13							
2021-02-14							
2021-02-15							
2021-02-16							
2021-02-17							
2021-02-18							
2021-02-19							
2021-02-20							
2021-02-21							
2021-02-22							
2021-02-23							
2021-02-24							
2021-02-25							
2021-02-26							
2021-02-27							
2021-02-28							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts			Certification Version Date 2021-03-18 14:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: ***NEORSD Westerly WWTC***
LOCATION: ***5800 Cleveland Memorial Shoreway NW***
Cleveland, OH 44115

PERMIT NUMBER: *3PE00001*QD*
MONITORING PERIOD : **2021-02-01** **To:** **2021-02-28**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
601	*CBOD 5 day*	*80082*	*2021-02-04*	*mg/l*	***BLANKS FAILED QC CRITERIA***
601	*CBOD 5 day*	*80082*	*2021-02-16*	*mg/l*	***BLANKS FAILED QC CRITERIA***

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1041429*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-03-01 To: 2021-03-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-04-19 12:04**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1041429*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*602*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-03-01 To: 2021-03-31
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-03-01							
2021-03-02							
2021-03-03							
2021-03-04							
2021-03-05							
2021-03-06							
2021-03-07							
2021-03-08							
2021-03-09							
2021-03-10							
2021-03-11							
2021-03-12							
2021-03-13							
2021-03-14							
2021-03-15							
2021-03-16							
2021-03-17							
2021-03-18							
2021-03-19							
2021-03-20							
2021-03-21							
2021-03-22							
2021-03-23							
2021-03-24							
2021-03-25							
2021-03-26							
2021-03-27							
2021-03-28							
2021-03-29							
2021-03-30							
2021-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts			Certification Version Date 2021-04-19 12:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Westerly WWTC*
LOCATION: *5800 Cleveland Memorial Shoreway NW*
Cleveland, OH 44115

PERMIT NUMBER: *3PE00001*QD*
MONITORING PERIOD : **2021-03-01** **To:** **2021-03-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARD FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-03-31*	*mg/l*	*BLANK FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-02*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-07*	*mg/l*	*BLANKS AND STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-08*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-14*	*mg/l*	*BLANKS AND STANDARD FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-23*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-30*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-03-31*	*mg/l*	*BLANK FAILED QC CRITERIA*

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1049711*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	2021-04-01 To: 2021-04-30
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge		
PARAMETER CODE	00530	74062	74063	80082	82517		
UNITS	mg/l	No./Month	Million Gallons	mg/l	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Total	24hr Total	Grab	24hr Total		
2021-04-01 2021-04-02 2021-04-03 2021-04-04 2021-04-05 2021-04-06 2021-04-07 2021-04-08 2021-04-09 2021-04-10 2021-04-11 2021-04-12 2021-04-13 2021-04-14 2021-04-15 2021-04-16 2021-04-17 2021-04-18 2021-04-19 2021-04-20 2021-04-21 2021-04-22 2021-04-23 2021-04-24 2021-04-25 2021-04-26 2021-04-27 2021-04-28 2021-04-29 2021-04-30	140 204	1 1	0.5 19.9	29.2 39.3	0.65 6.85		
Minimum	140.0	1.0	0.5	29.2	0.65		
Maximum	204.0	1.0	19.9	39.3	6.85		
Average	172	1	10.2	34.25	3.75		
Count	2	2	2	2	2		

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-19 13:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1049711*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*602*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-04-01 To: 2021-04-30**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-04-01							
2021-04-02							
2021-04-03							
2021-04-04							
2021-04-05							
2021-04-06							
2021-04-07							
2021-04-08							
2021-04-09							
2021-04-10							
2021-04-11							
2021-04-12							
2021-04-13							
2021-04-14							
2021-04-15							
2021-04-16							
2021-04-17							
2021-04-18							
2021-04-19							
2021-04-20							
2021-04-21							
2021-04-22							
2021-04-23							
2021-04-24							
2021-04-25							
2021-04-26							
2021-04-27							
2021-04-28							
2021-04-29							
2021-04-30							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-05-19 13:05**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Westerly WWTC*
LOCATION: *5800 Cleveland Memorial Shoreway NW*
Cleveland, OH 44115

PERMIT NUMBER: *3PE00001*QD*
MONITORING PERIOD : **2021-04-01** **To:** **2021-04-30**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2021-04-08	mg/l	STANDARD FAILED
001	CBOD 5 day	80082	2021-04-18	mg/l	SEED FAILED
001	CBOD 5 day	80082	2021-04-21	mg/l	D.O. UPTAKE AND RESIDUAL CRITERIA FAILED
001	Chlorine, Total Residual	50060	2021-04-23	mg/l	Due to administrative error, collection times were not recorded for two out of the four daily samples. Corrective acctions were implemented.
001	Chlorine, Total Residual	50060	2021-04-25	mg/l	Due to administrative error, collection times were not recorded for two out of the four daily samples. Corrective actions were implemented.
001	Chlorine, Total Residual	50060	2021-04-27	mg/l	Due to administrative error, collection times were not recorded for the four daily samples. Corrective actions were implemented.
001	Chlorine, Total Residual	50060	2021-04-28	mg/l	Due to administrative error, collection times were not recorded for two out of the four daily samples. Corrective actions were implemented.
601	CBOD 5 day	80082	2021-04-08	mg/l	STANDARD FAILED
601	CBOD 5 day	80082	2021-04-12	mg/l	BLANK FAILED
601	CBOD 5 day	80082	2021-04-18	mg/l	SEED FAILED

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058048*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*002*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	

PARAMETER	Total Suspended Solids	E. coli	Overflow Occurrence	Overflow Volume	CBOD 5 day	Duration of Discharge	
PARAMETER CODE	00530	31648	74062	74063	80082	82517	
UNITS	mg/l	#/100 ml	No./Month	Million Gallons	mg/l	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Total	24hr Total	Grab	24hr Total	
2021-05-01 2021-05-02 2021-05-03 2021-05-04 2021-05-05 2021-05-06 2021-05-07 2021-05-08 2021-05-09 2021-05-10 2021-05-11 2021-05-12 2021-05-13 2021-05-14 2021-05-15 2021-05-16 2021-05-17 2021-05-18 2021-05-19 2021-05-20 2021-05-21 2021-05-22 2021-05-23 2021-05-24 2021-05-25 2021-05-26 2021-05-27 2021-05-28 2021-05-29 2021-05-30 2021-05-31	109 72.0	AH 565000	1 1	21.6 6.00	25.3 44.2	7.43 6.13	
Minimum	72.0	565000.0	1.0	6.0	25.3	6.13	
Maximum	109.0	565000.0	1.0	21.6	44.2	7.43	
Average	90.5	565000	1	13.8	34.75	6.78	
Count	2	1	2	2	2	2	

Name of Responsible Official or Authorized Representative	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts			Certification Version Date 2021-06-18 15:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	*1058048*	**STATUS:**	*Original*
FACILITY:	*NEORSD Westerly WWTC*	**PERMIT NUMBER:**	*3PE00001*QD*
LOCATION:	*5800 Cleveland Memorial Shoreway NW*	**STATION CODE:**	*602*
	Cleveland, OH 44115	**MONITORING PERIOD :**	**2021-05-01 To: 2021-05-31**
COUNTY:	*Cuyahoga*	**REPORTING LAB:**	*NEORSD Analytical Services*
DISTRICT:	*NEDO*	**ANALYST:**	*Cheryl Soltis-Muth, NEORSD AS Manager*
		NO DISCHARGE INDICATOR:	**AL**

PARAMETER	Bypass Occurrence	Bypass Total Hours Per Day	Total Suspended Solids	Bypass Volume	CBOD 5 day		
PARAMETER CODE	00051	00052	00530	51428	80082		
UNITS	No./Day	Hrs/Day	mg/l	MGAL	mg/l		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Total	24hr Total	Grab	24hr Total	Grab		
2021-05-01							
2021-05-02							
2021-05-03							
2021-05-04							
2021-05-05							
2021-05-06							
2021-05-07							
2021-05-08							
2021-05-09							
2021-05-10							
2021-05-11							
2021-05-12							
2021-05-13							
2021-05-14							
2021-05-15							
2021-05-16							
2021-05-17							
2021-05-18							
2021-05-19							
2021-05-20							
2021-05-21							
2021-05-22							
2021-05-23							
2021-05-24							
2021-05-25							
2021-05-26							
2021-05-27							
2021-05-28							
2021-05-29							
2021-05-30							
2021-05-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative		Signature of Responsible Official or Authorized Representative	Submission Date/Time
Travis Pitts	*I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*		**Certification Version Date** **2021-06-18 15:06**

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: *NEORSD Westerly WWTC*
LOCATION: *5800 Cleveland Memorial Shoreway NW*
Cleveland, OH 44115

PERMIT NUMBER: *3PE00001*QD*
MONITORING PERIOD : **2021-05-01** **To:** **2021-05-31**

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH, Flow and Chl. Res is approved and validated by the plant Superintender Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP comp (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	*Chlorine, Total Residual*	*50060*	*2021-05-08*	*mg/l*	*The critical value reported is the average of the intial sample and its duplicate. The third duplicate was run outside of hold time an therefore invalid. This value is greater than the permit limit of 0.038mg/L, but less than the PQL, 0.050mg/L.*
001	*Chlorine, Total Residual*	*50060*	*2021-05-11*	*mg/l*	*The critical value reported is the critical value of two samples. Three additional samples were invalidated due to a standard result outside the acceptable range.*
001	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*BLANKS FAILED QC CRITERIA*
001	*CBOD 5 day*	*80082*	*2021-05-11*	*mg/l*	*BLANKS FAILED QC CRITERIA*
002	*E. coli*	*31648*	*2021-05-09*	*#/100 ml*	*RECEIVED PAST HOLD TIME*
601	*CBOD 5 day*	*80082*	*2021-05-10*	*mg/l*	*BLANKS FAILED QC CRITERIA*
601	*CBOD 5 day*	*80082*	*2021-05-11*	*mg/l*	*BLANKS FAILED QC CRITERIA*

CSO & Stream Assessment Annual Report

2020

Northeast Ohio Regional Sewer District

COMBINED SEWER OVERFLOW & STREAM ASSESSMENT ANNUAL REPORT

2020

NPDES PERMIT 3PA00002*HD

April 27, 2021

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APPENDICES

Appendix A: 2020 Observed Precipitation Statistics by District Precipitation Gauge
Appendix B: Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data
Appendix C: 2020 Qualitative Habitat Evaluation Index Sheets

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Appendix G: 2020 Surface Water Condition Sampling Field Sheets

1.0 Introduction

Part II, Section K of the Combined Sewer Overflow (CSO) National Pollutant Discharge Elimination System (NPDES) Permit 3PA00002*HD requires that the Northeast Ohio Regional Sewer District (District) submit an annual report. The purpose of this report is to provide estimated CSO volumes and activations for all permitted CSO locations in the District's combined sewer system (CSS) during the previous calendar year (January 1, 2020 through December 31, 2020). A select group of permitted CSO outfalls were monitored during this period in accordance with Part I, B of Permit 3PA00002*HD. Model estimated CSO volumes and activations were used to supplement the annual reporting for permitted CSO outfalls not monitored in 2020. This report provides a summary of the CSO performance for the previous calendar year, changes to the Nine Minimum Control (NMC) program, and the data collected during stream assessment activities.

The Report is organized into three (3) major sections:

- CSO Activations & Volumes (**Section 2.0**)
- Nine Minimum Control Program Modifications (**Section 3.0**)
- Stream Assessment Results (**Section 4.0**)

2.0 CSO Activations and Volumes

This section presents the CSO activations and associated volumes, which includes monitored data as well as model-estimated volumes and activations for all permitted CSO locations in the District's CSS from January 1, 2020 through December 31, 2020. The modeled estimates were developed using the District's current baseline conditions models[1]. A summary of the modeling approach used to estimate the CSO statistics is provided as follows.

2.1 Precipitation Data

The District owns and maintains a network of 29 permanent precipitation gauges as shown in **Figure 1**. Including a gauge owned and maintained by the City of Lakewood, the 30 precipitation gauges that were used for the 2020 analysis are listed in **Table 1**. Precipitation data in 5-minute intervals from January 1, 2020 through December 31, 2020 was processed into 1-hour intervals for use in model estimate results for consistency purposes in comparing CSO performance with the District's standard synthetic Typical Year rainfall.

Table 1 lists the total recorded precipitation depths for each precipitation gauge. If a precipitation gauge had missing data, the data gaps were augmented with gauge-adjusted radar rainfall (GARR) data. Data gaps were augmented using 5-minute interval precipitation prior to processing to hourly precipitation. **Table 1** also presents the cumulative total precipitation and the GARR-augmented total precipitation depth per gauge.

Precipitation statistics for each precipitation gauge were developed using the Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox program developed by the United States Environmental Protection Agency (EPA). An inter-event duration of 12 hours was used to define individual precipitation events. Precipitation statistics for each event (total depth, duration, peak 1-hour intensity, and antecedent

[1] As improvements are made to the NEORSD combined sewer system, the models are continuously updated to reflect these changes. See Section 2.2 for details on the versions of the models used in the preparation of this report.

moisture conditions) for each gauge are provided in **Appendix A**. The precipitation event statistics were developed based on the 5-minute precipitation data.

Precipitation data was then spatially distributed using the Thiessen Polygon tool available in ESRI's ArcGIS. Respective precipitation gauge hyetographs were assigned to entire subcatchments if the centroid of the subcatchment delineation was located within a Thiessen polygon. A more detailed description of how the precipitation data was spatially distributed is provided as **Appendix B**.

An area-weighted precipitation time series was developed based on the acreage of combined sewer service area associated with each precipitation gauge's Thiessen polygon. The area-weighted time series was used to compute summary precipitation statistics for 2020 for comparison to the District's Typical Year rainfall and discussed further in Section 2.5.

The model-estimated overflow statistics for each CSO service area were generated using the built-in statistics report tool in the InfoWorks Integrated Catchment Modeling (ICM) software platform. The ICM statistics template was developed for each baseline conditions model with the "combine events where gap is less than" duration set equal to 12 hours to define overflow activations at each modeled overflow element. Overflow activations occurring within 12 hours of each other were counted as one single overflow activation.

Figure 1. NEORSD Precipitation Gauge Network

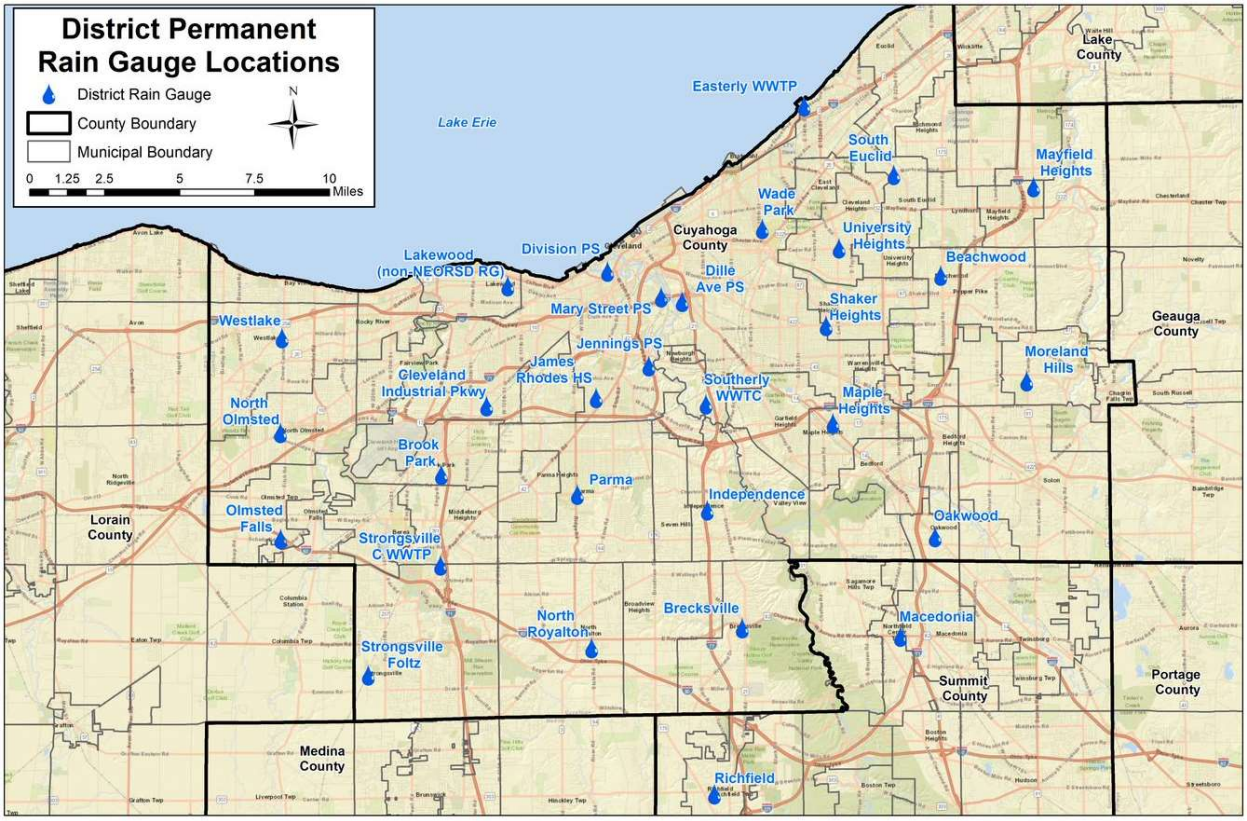


Table 1. Total Precipitation Observed from January 1, 2020 through December 31, 2020

Precipitation Gauge	Reported Precipitation Depth per Gauge (inches)	Supplemental GARR Data (inches)	Total Precipitation Depth (Gauge + Supplemental GARR Data, inches)
Beachwood	58.75		58.75
Brecksville	50.1	4.12	54.22
Brook Park	55.98	0.99	56.97
Cleveland Industrial Pkwy	56.42	0.47	56.89
Dille Ave PS	50.27	1.16	51.43
Division Ave PS	50.02	1.04	51.06
Easterly WWTP	39.94	6.08	46.02
Independence	55.8		55.8
James Rhodes HS	51.33	0.97	52.3
Jennings PS	58.48	1.25	59.73
Lakewood	40.48		40.48
Macedonia	54.03		54.03
Maple Heights	54.94		54.94
Mary Street PS	52.45		52.45
Mayfield Heights	55.76	0.63	56.39
Moreland Hills	58.81		58.81
North Olmsted	52.34	1.19	53.53
North Royalton	51.83	1.50	53.33
Oakwood	51	3.05	54.05
Olmsted Falls	52.91		52.91
Parma	54.65		54.65
Richfield	44.09	1.71	45.8
Shaker Heights	58.16		58.16
South Euclid	54.26	0.51	54.77
Southerly WWTC	53.1		53.1
Strongsville C WWTP	54.13	2.38	56.51
Strongsville Foltz	50.84	5.28	56.12
University Hts	51.34	2.12	53.46
Wade Park	51.79		51.79
Westlake	51.19		51.19

2.2 CSO Models

The District owns and actively maintains six (6) baseline condition models to reflect current conditions in the CSS (**Table 2**). Baseline conditions assumes modulating devices, such as control gates, inflatable dams, and pumps, are operating as designed or last field verified, and sewers are clean and free of debris unless known sedimentation issues have been documented and removal determined to be cost prohibitive. The models and simulation results presented here for 2020 were developed using Innovyze's InfoWorks ICM 11.0 (Version 11.0.2.22016 Unicode June 2020) modeling software platform using continuous simulation of hourly precipitation data. Continuous simulation of hourly precipitation data is consistent with the approach for Typical Year rainfall simulations. Continuous simulation takes antecedent soil moisture conditions into account when predicting overflows.

The Easterly and Westerly systems were noted to have completed improvement projects that updated system operations for certain periods throughout 2020. To reflect the changes, improvements were grouped accordingly to represent system performance at key milestones. **Table 2** presents the various baseline conditions model versions developed to represent the key milestones as new projects and system changes that became operational throughout 2020.

Projects completed prior to January 2020 occurred in the Easterly and Westerly Districts are listed below. These projects were included in the full 2020 precipitation and Typical Year simulations.

- Dugway Storage Tunnel
- Dugway Regulator and Relief Sewer
- E 140th St Consolidation and Relief Sewer[2]
- ECT-4/CSO 209 Connection
- Miscellaneous regulator modifications (D-36B, D-104, and S-10A)
- Westerly Low Level Relief Sewer
- E. 140th St Consolidation and Relief Sewer Green Infrastructure
- Union-Buckeye Green Infrastructure
- Woodland Central Green Infrastructure

Projects completed in late December 2020 occurred in the Easterly and Westerly Districts are listed below. These projects were only included in the Typical Year simulations.

- Doan Valley Relief and Consolidation Sewer
- Doan Valley Regulator and Relief Sewer (DV-08, DV-08A, DV-21A, DV-26, and DV-54)
- London Rd Relief Sewer
- Miscellaneous regulator modifications (L-34, RR-06A-ALR, and RR-16)
- W 3rd and Quigley of Westerly's Northwest Interceptor Improvements (W-14A, W-10, W-11)

[2] Portions of the E. 140th St Consolidation and Relief Sewer project were online and operational prior to January 2020. The remaining inputs to the relief sewer came online at various times during 2020 resulting in the system fully operational in August 2020. To minimize the number of model revisions and runs, the Typical Year and full 2020 precipitation were modeled with the E. 140th St Consolidation and Relief Sewer project fully operationally.

Table 2. District's Baseline Condition Models

Baseline Conditions Model	Model Simulation	
	2020 Precipitation	Typical Year
Big Creek	BCBL202007MM-20210111	Same as 2020 Precipitation
Easterly	ESBG202101MM-20210118	ESBG202101eDMR-20210118
Heights-Hilltop	HHBL202101MM	Same as 2020 Precipitation
Mill Creek[1]	MCCS201803MCI-01_GES4201911	Same as 2020 Precipitation
Southerly	SOBG202012MM-20201221	Same as 2020 Precipitation
Westerly	WEBL202007MM-20210111	WEBL202007eDMR-20210111

1 Mill Creek Collection System Model and simulation results were obtained from MCI-LSSES contract's draft project model currently undergoing recalibration based on monitoring data.

2.3 2020 CSO Volumes and Activations

In accordance with the District's CSO NPDES permit 3PA00002*HD, the District monitored the CSOs listed in **Table 3** in 2020.

Table 3. 2020 Monitored CSOs

Outfall Names				
CSO 025	CSO 045	CSO 072	CSO 206	CSO 258
CSO 035	CSO 056	CSO 080	CSO 211	
CSO 038	CSO 058	CSO 088	CSO 218	
CSO 040	CSO 059	CSO 200	CSO 239	
CSO 044	CSO 069	CSO 202	CSO 242	

Model-estimated CSO volumes and activations were quantified using the latest versions of the District's collection system models (**Table 2**) to supplement the monitoring data for all CSO outfalls contained in the NPDES permit. Total annual CSO volumes and activations for the January 1, 2020 through December 31, 2020 period are presented in **Table 4**. Total annual CSO performance at CSOs not monitored are based on model results following the approach described in Section 2.2 above for the full 2020 period. Total annual CSO performance at CSOs that were monitored for the entire or partial 2020 period are a composite of the model-estimates and monitoring results in which time periods were not overlapped.

Table 4. 2020 CSO Volumes and Activations

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 007	Mill Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 013	Mill Creek	0	0	N/A	N/A	0	0
CSO 014	Mill Creek	0	0	N/A	N/A	0	0
CSO 017	Mill Creek	6	11.1	N/A	N/A	6	11.1

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 019	Mill Creek	4	1.5	N/A	N/A	4	1.5
CSO 020	Mill Creek	2	0.7	N/A	N/A	2	0.7
CSO 021	Mill Creek	1	0.2	N/A	N/A	1	0.2
CSO 022	Mill Creek	8	1.6	N/A	N/A	8	1.6
CSO 025	Mill Creek	N/A	N/A	4	1.4	4	1.4
CSO 027	Mill Creek	0	0	N/A	N/A	0	0
CSO 028	Mill Creek	0	0	N/A	N/A	0	0
CSO 030	Mill Creek	0	0	N/A	N/A	0	0
CSO 031	Mill Creek	5	3.9	N/A	N/A	5	3.9
CSO 032	Mill Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 033	Southerly	15	13.8	N/A	N/A	15	13.8
CSO 035	Southerly	N/A	N/A	28	8.7	28	8.7
CSO 036	Southerly	47	506.3	N/A	N/A	47	506.3
CSO 037	Southerly	1	2.2	N/A	N/A	1	2.2
CSO 038	Southerly	N/A	N/A	0	0	0	0
CSO 039	Southerly	38	21.6	N/A	N/A	38	21.6
CSO 040	Southerly	N/A	N/A	56	218.2	56	218.2
CSO 043	Big Creek	1	0.5	N/A	N/A	1	0.5
CSO 044	Big Creek	N/A	N/A	14	1.8	14	1.8
CSO 045[5]	Big Creek	N/A	N/A	18	2.1	18	2.1
CSO 050	Big Creek	14	5.8	N/A	N/A	14	5.8
CSO 051	Big Creek	29	83.5	N/A	N/A	29	83.5
CSO 052	Big Creek	2	0.1	N/A	N/A	2	0.1
CSO 053	Big Creek	39	83.8	N/A	N/A	39	83.8
CSO 054	Big Creek	32	104.5	N/A	N/A	32	104.5
CSO 055	Big Creek	7	11.0	N/A	N/A	7	11.0
CSO 056	Big Creek	N/A	N/A	55	145.1	55	145.1
CSO 057	Big Creek	56	496.9	N/A	N/A	56	496.9
CSO 058	Big Creek	N/A	N/A	45	784.2	45	784.2
CSO 059	Big Creek	N/A	N/A	24	19.9	24	19.9
CSO 060	Big Creek	0	0	N/A	N/A	0	0
CSO 062[1]	Big Creek	AH	AH	N/A	N/A	AH	AH
CSO 063	Big Creek	6	4.7	N/A	N/A	6	4.7
CSO 064	Westerly	14	2.2	N/A	N/A	14	2.2
CSO 065	Westerly	39	13.8	N/A	N/A	39	13.8
CSO 066[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 067	Westerly	14	11.2	N/A	N/A	14	11.2
CSO 068	Westerly	25	23.2	N/A	N/A	25	23.2
CSO 069	Westerly	N/A	N/A	4	2.2	4	2.2
CSO 071	Westerly	1	3.2	N/A	N/A	1	3.2
CSO 072	Southerly	N/A	N/A	14	5.1	14	5.1

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 073	Easterly	28	171.8	N/A	N/A	28	171.8
CSO 074	Westerly	20	18.2	N/A	N/A	20	18.2
CSO 075	Westerly	10	4.5	N/A	N/A	10	4.5
CSO 076	Westerly	11	12.8	N/A	N/A	11	12.8
CSO 078	Westerly	2	0.6	N/A	N/A	2	0.6
CSO 079[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 080	Westerly	N/A	N/A	76	336.7	76	336.7
CSO 081	Westerly	3	1.3	N/A	N/A	3	1.3
CSO 082	Westerly	23	11.3	N/A	N/A	23	11.3
CSO 083[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 084	Westerly	0	0	N/A	N/A	0	0
CSO 085[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 086	Westerly	4	5.0	N/A	N/A	4	5.0
CSO 087	Westerly	38	23.5	N/A	N/A	38	23.5
CSO 088	Westerly	N/A	N/A	53	19.9	53	19.9
CSO 089	Westerly	14	0.9	N/A	N/A	14	0.9
CSO 090[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO SAPS[3]	Easterly	2	1.7	N/A	N/A	2	1.7
CSO SLPS[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 091	Easterly	0	0	N/A	N/A	0	0
CSO 092	Easterly	1	<0.1	N/A	N/A	1	<0.1
CSO 093	Easterly	2	1.1	N/A	N/A	2	1.1
CSO 094	Easterly	25	56.5	N/A	N/A	25	56.5
CSO 095	Easterly	16	25.3	N/A	N/A	16	25.3
CSO 096	Easterly	27	25.0	N/A	N/A	27	25.0
CSO 097	Easterly	40	16.5	N/A	N/A	40	16.5
CSO 098	Easterly	22	21.0	N/A	N/A	22	21.0
CSO 099	Easterly	2	4.5	N/A	N/A	2	4.5
CSO 200	Easterly	N/A	N/A	78	85.6	78	85.6
CSO 201	Easterly	63	66.3	N/A	N/A	63	66.3
CSO 202	Easterly	N/A	N/A	40	98.6	40	98.6
CSO 203	Easterly	15	45.2	N/A	N/A	15	45.2
CSO 204	Easterly	73	187.1	N/A	N/A	73	187.1
CSO 205	Easterly	48	64.9	N/A	N/A	48	64.9
CSO 206	Easterly	N/A	N/A	1	0.8	1	0.8
CSO 207	Easterly	0	0	N/A	N/A	0	0
CSO 208	Easterly	0	0	N/A	N/A	0	0
CSO 209	Easterly	0	0	N/A	N/A	0	0
CSO 210	Easterly	3	2.8	N/A	N/A	3	2.8
CSO 211	Easterly	N/A	N/A	13	59.5	13	59.5
CSO 212	Easterly	26	5.4	N/A	N/A	26	5.4

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 214	Easterly	28	19.8	N/A	N/A	28	19.8
CSO 215	Easterly	6	0.5	N/A	N/A	6	0.5
CSO 216	Easterly	2	0.2	N/A	N/A	2	0.2
CSO 217	Easterly	13	7.8	N/A	N/A	13	7.8
CSO 218	Easterly	N/A	N/A	19	3.3	19	3.3
CSO 219	Easterly	15	2.7	N/A	N/A	15	2.7
CSO 220	Easterly	14	30.9	N/A	N/A	14	30.9
CSO 221	Easterly	56	24.1	N/A	N/A	56	24.1
CSO 222	Easterly	53	351.7	N/A	N/A	53	351.7
CSO 223	Easterly	10	0.7	N/A	N/A	10	0.7
CSO 224	Easterly	19	31.3	N/A	N/A	19	31.3
CSO 225	Easterly	2	0.7	N/A	N/A	2	0.7
CSO 226	Easterly	6	1.4	N/A	N/A	6	1.4
CSO 230	Easterly	10	10.3	N/A	N/A	10	10.3
CSO 231	Easterly	2	12.1	N/A	N/A	2	12.1
CSO 232[6]	Easterly	79	69.7	N/A	N/A	79	69.7
CSO 233	Big Creek	66	46.9	N/A	N/A	66	46.9
CSO 234	Easterly	27	33.6	N/A	N/A	27	33.6
CSO 235[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 236[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 238	Big Creek	11	9.9	N/A	N/A	11	9.9
CSO 239	Easterly	N/A	N/A	0	0	0	0
CSO 240	Westerly	9	1.3	N/A	N/A	9	1.3
CSO 241	Big Creek	3	8.5	N/A	N/A	3	8.5
CSO 242	Easterly	N/A	N/A	3	1.2	3	1.2
CSO 243	Mill Creek	5	0.3	N/A	N/A	5	0.3
CSO 245	Mill Creek	0	0	N/A	N/A	0	0
CSO 246	Mill Creek	0	0	N/A	N/A	0	0
CSO 247	Mill Creek	3	0.1	N/A	N/A	3	0.1
CSO 249[4]	Mill Creek	AH	AH	N/A	N/A	AH	AH
CSO 250	Southerly	0	0	N/A	N/A	0	0
CSO 252	Mill Creek	5	3.4	N/A	N/A	5	3.4
CSO 253[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 254	Big Creek	0	0	N/A	N/A	0	0
CSO 255	Big Creek	17	18.9	N/A	N/A	17	18.9
CSO 256	Easterly	8	1.3	N/A	N/A	8	1.3
CSO 257	Big Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 258	Mill Creek	N/A	N/A	5	97.6	5	97.6
Total			**2,868.8**		**1,891.9**		**4,760.7**

1 Modeling and monitoring data were not available for CSO 062. Project to eliminate CSO 062 was under construction in 2020.

2 Associated regulators for this CSO were eliminated prior to 2020.
3 Upon completion of the Superior Avenue Pump Station Project in 2019 and review of CSO permit renewal, currently under review by EPA, this will likely be the new CSO 090 due to its proximity to the former CSO 090.
4 Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model. Model representation is underway through the MCI-LSESS contract currently in progress.
5 CSO 045 overflow performance was affected by BC-05-AJB outlet gate operation which was changed from modulating to static control by locking gate in the closed position on July 13, 2020.
6 The modeled number of activations and volumes are significantly overestimated at CSO 232 due to including stormwater discharges from green infrastructure basins, the phased activation of the E. 140 Street project, and flows from Shaw Brook. The model is unable to distinguish between the sources of the flows, however, the majority of these flows are stormwater from the green infrastructure basins.

In the 2020 eDMR report, CSO 062 was reported with the AH code since modeling data is not currently available for this outfall. The current baseline conditions model reflects abandonment of regulator BC-74 and, therefore, is not capable of providing model-estimated CSO volume or activation results. On March 4, 2021, BC-74 was eliminated and CSO 062 was converted to a stormwater only outfall. NEORSD has requested that CSO 062 be removed from the CSO NPDES Permit.

2.4 Typical Year Rainfall Data

Table 5 presents the 121 rainfall events that comprise the District's synthetic Typical Year for the period of January 1st through December 31st.

Table 5. Rainfall Events for Typical Year (January through December)

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
1	01/03/93	0.01	1	0.01	0.01
2	01/05/93	0.18	10	0.02	0.03
3	01/09/93	0.03	2	0.01	0.02
4	01/11/93	0.39	19	0.02	0.09
5	01/12/93	0.04	21	<0.01	0.01
6	01/15/93	0.33	8	0.04	0.08
7	01/16/93	0.17	10	0.02	0.03
8	01/20/93	0.53	30	0.02	0.05
9	01/26/93	0.03	10	<0.01	0.01
10	01/27/93	0.08	4	0.02	0.03
11	01/29/93	0.37	11	0.03	0.1
12	01/30/93	0.01	1	0.01	0.01
13	01/31/93	0.01	1	0.01	0.01
14	02/05/93	0.01	1	0.01	0.01
15	02/06/93	0.1	9	0.01	0.02
16	02/10/93	0.73	20	0.04	0.09
17	02/13/93	1.53	59	0.03	0.16

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
18	02/16/93	0.18	14	0.01	0.04
19	02/18/93	0.08	13	0.01	0.04
20	02/19/93	0.29	7	0.04	0.1
21	02/26/93	0.08	40	<0.01	0.01
22	02/28/93	0.04	4	0.01	0.02
23	03/02/93	0.06	14	<0.01	0.02
24	03/03/93	0.7	24	0.03	0.1
25	03/06/93	0.83	14	0.06	0.13
26	03/09/93	0.07	2	0.04	0.05
27	03/10/93	0.08	4	0.02	0.03
28	03/17/93	0.5	31	0.02	0.07
29	03/22/93	0.32	4	0.08	0.18
30	03/22/93	0.14	3	0.05	0.08
31	03/23/93	0.23	10	0.02	0.06
32	03/26/93	0.02	1	0.02	0.02
33	03/27/93	0.62	1	0.62	0.62
34	03/31/93	0.07	6	0.01	0.03
35	04/01/93	0.16	5	0.03	0.07
36	04/02/93	0.06	12	<0.01	0.02
37	04/09/93	0.77	16	0.05	0.09
38	04/11/93	0.09	1	0.09	0.09
39	04/14/93	0.03	2	0.02	0.02
40	04/15/93	0.34	3	0.11	0.16
41	04/19/93	0.27	13	0.02	0.11
42	04/20/93	0.61	18	0.03	0.13
43	04/24/93	0.03	2	0.02	0.02
44	04/25/93	0.46	15	0.03	0.16
45	04/30/93	0.1	6	0.02	0.03
46	05/04/93	0.63	25	0.03	0.22
47	05/19/93	0.15	6	0.03	0.07
48	05/23/93	0.01	1	0.01	0.01
49	05/24/93	0.08	6	0.01	0.04
50	05/28/93	0.03	2	0.02	0.02
51	05/31/93	0.16	2	0.08	0.08
52	06/03/93	0.07	2	0.04	0.04
53	06/05/93	0.37	6	0.06	0.25

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
54	06/07/93	1.56	9	0.17	0.67
55	06/09/93	0.21	1	0.21	0.21
56	06/09/93	0.24	1	0.24	0.24
57	06/19/93	0.31	2	0.16	0.22
58	06/20/93	0.54	26	0.02	0.15
59	06/25/93	0.08	1	0.08	0.08
60	06/27/93	0.94	1	0.94	0.94
61	07/01/93	0.05	4	0.01	0.02
62	07/03/93	0.01	1	0.01	0.01
63	07/04/93	0.44	1	0.44	0.44
64	07/06/93	0.47	1	0.47	0.47
65	07/11/93	0.35	3	0.12	0.24
66	07/19/93	0.14	2	0.07	0.13
67	07/26/93	0.04	2	0.02	0.02
68	07/28/93	1.08	9	0.12	0.72
69	07/29/93	0.67	3	0.22	0.31
70	08/02/93	0.42	2	0.21	0.41
71	08/03/93	0.42	10	0.04	0.2
72	08/06/93	0.1	4	0.03	0.06
73	08/07/93	0.13	1	0.13	0.13
74	08/10/93	0.02	2	0.01	0.01
75	08/11/93	0.24	4	0.06	0.23
76	08/12/93	0.02	1	0.02	0.02
77	08/16/93	0.07	1	0.07	0.07
78	08/20/93	0.01	1	0.01	0.01
79	08/28/93	0.06	1	0.06	0.06
80	08/31/93	0.03	6	0.01	0.02
81	09/02/93	1.02	21	0.05	0.67
82	09/06/93	0.35	1	0.35	0.35
83	09/07/93	0.01	1	0.01	0.01
84	09/10/93	0.01	1	0.01	0.01
85	09/10/93	0.01	1	0.01	0.01
86	09/15/93	2.38	16	0.15	0.4
87	09/22/93	0.12	16	0.01	0.05
88	09/25/93	1.63	20	0.08	0.29
89	09/27/93	0.15	9	0.02	0.06

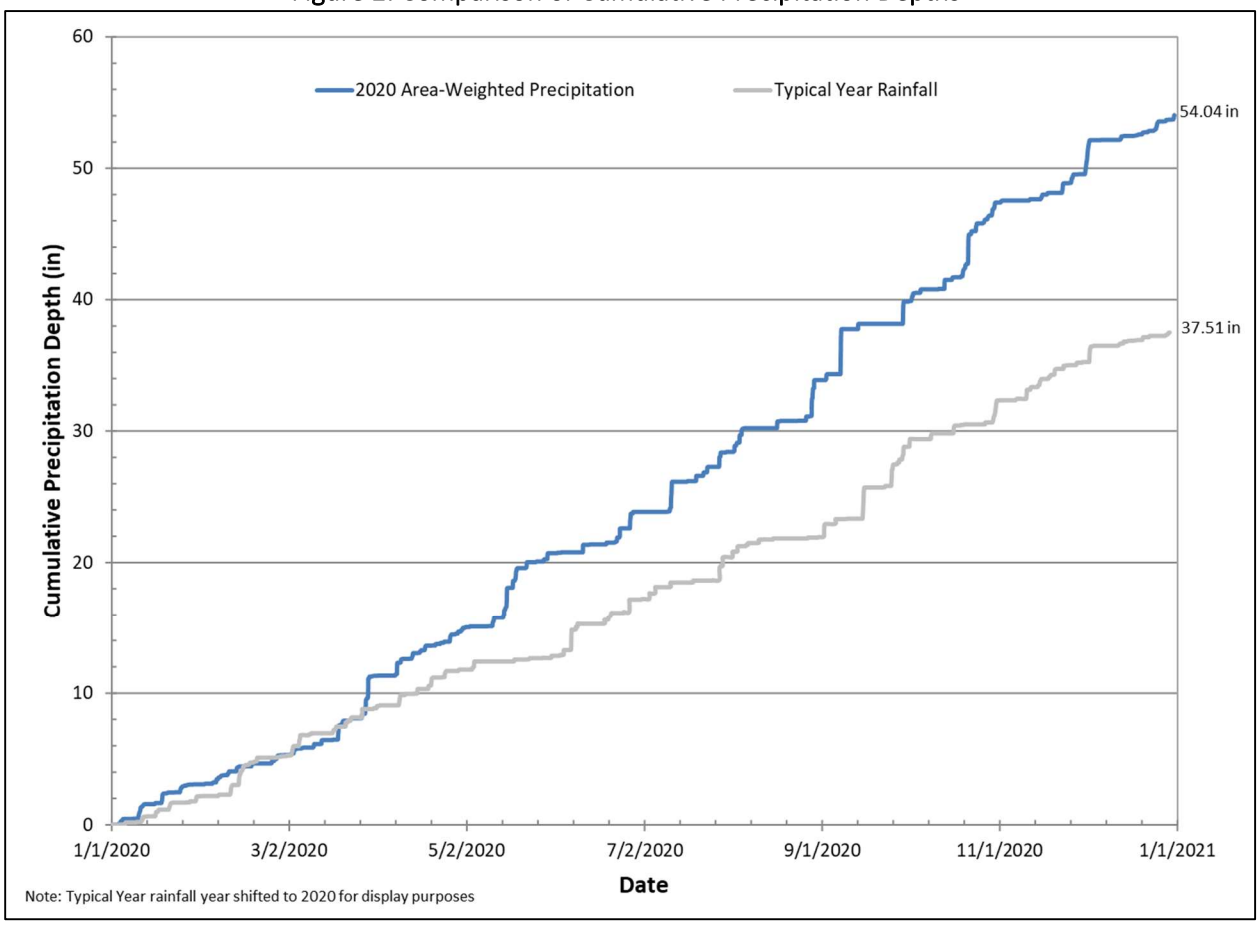
Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
90	09/28/93	0.23	3	0.08	0.12
91	09/29/93	0.97	17	0.06	0.24
92	10/01/93	0.01	1	0.01	0.01
93	10/01/93	0.58	6	0.1	0.22
94	10/09/93	0.43	13	0.03	0.13
95	10/16/93	0.6	16	0.04	0.18
96	10/19/93	0.04	1	0.04	0.04
97	10/20/93	0.04	6	0.01	0.02
98	10/27/93	0.15	4	0.04	0.1
99	10/30/93	1.67	39	0.04	0.12
100	11/01/93	0.01	1	0.01	0.01
101	11/07/93	0.12	12	0.01	0.02
102	11/11/93	0.69	7	0.1	0.14
103	11/12/93	0.21	12	0.02	0.06
104	11/15/93	0.62	31	0.02	0.1
105	11/18/93	0.3	21	0.01	0.1
106	11/20/93	0.46	19	0.02	0.14
107	11/23/93	0.24	3	0.08	0.12
108	11/24/93	0.03	8	0	0.01
109	11/25/93	0.01	1	0.01	0.01
110	11/28/93	0.19	8	0.02	0.05
111	11/30/93	0.04	1	0.04	0.04
112	12/02/93	1.19	17	0.07	0.29
113	12/03/93	0.06	11	0.01	0.02
114	12/12/93	0.16	17	0.01	0.06
115	12/14/93	0.15	6	0.03	0.12
116	12/15/93	0.07	16	0	0.01
117	12/18/93	0.02	2	0.01	0.01
118	12/18/93	0.03	16	0	0.01
119	12/20/93	0.22	8	0.03	0.07
120	12/23/93	0.1	6	0.02	0.03
121	12/28/93	0.26	35	0.01	0.03
	Total	**37.51**			

2.5 2020 Precipitation Data and Typical Year Rainfall Comparison

Area-weighted precipitation data was used to compare 2020 precipitation events (**Section 2.1**) with the District's synthetic Typical Year (**Section 2.4**). The weight for each precipitation gauge is based on the CSO service areas within the Thiessen Polygons. **Figure 2** compares the cumulative precipitation depth for 2020 with the Typical Year rainfall. Based on the area-weighted precipitation, 2020 cumulative precipitation was 54.04 inches, 16.5 inches greater than the Typical Year. Specific observations from the Typical Year and 2020 cumulative precipitation graph (**Figure 2**) show:

- Consistent cumulative precipitation depth from January to April.
- Higher cumulative precipitation depth from April through October.
- Consistent cumulative precipitation for the remainder of year.

Figure 2. Comparison of Cumulative Precipitation Depths



The 2020 area-weighted time series was processed using USEPA-SSOAP to separate the precipitation record into discrete events. A 12-hour inter-event dry weather duration was used to separate events. This analysis resulted in 96 discrete events ranging in total depth from 0.01 inch to 3.50 inches. **Figure 3** shows the total depths of both the 2020 precipitation events and the Typical Year events ranked from largest to smallest. Five events in 2020 had appreciably greater total precipitation depth than the largest Typical Year event. The subsequent 47 events, ranked 6 to 52, also had greater total precipitation than the comparably ranked Typical Year events. The remainder of events in 2020 had less total depth than the Typical Year, but not appreciable. The Typical Year had greater frequency of events with lower total precipitation.

The peak hourly intensities for the 2020 events and Typical Year events were also ranked, with the comparison shown in **Figure 4**. The largest 2020 peak hourly intensity (0.89 in/hr) was similar to the largest Typical Year peak hourly intensity (0.94 in/hr). Three events in 2020 had appreciable greater peak hourly intensities than the 2nd largest Typical Year event (0.72 in/hr). The subsequent 18 events, ranked 4 to 21, also had greater intensities than the comparably ranked Typical Year events. The remainder of events in 2020 had less total depth than the Typical Year.

Overall, the 2020 period exceeded the Typical Year for both precipitation depth and intensity resulting in system performance that exceeded anticipated control levels for LTCP CSO projects that are fully operational.

Figure 3. Precipitation Events Ranked by Total Depth

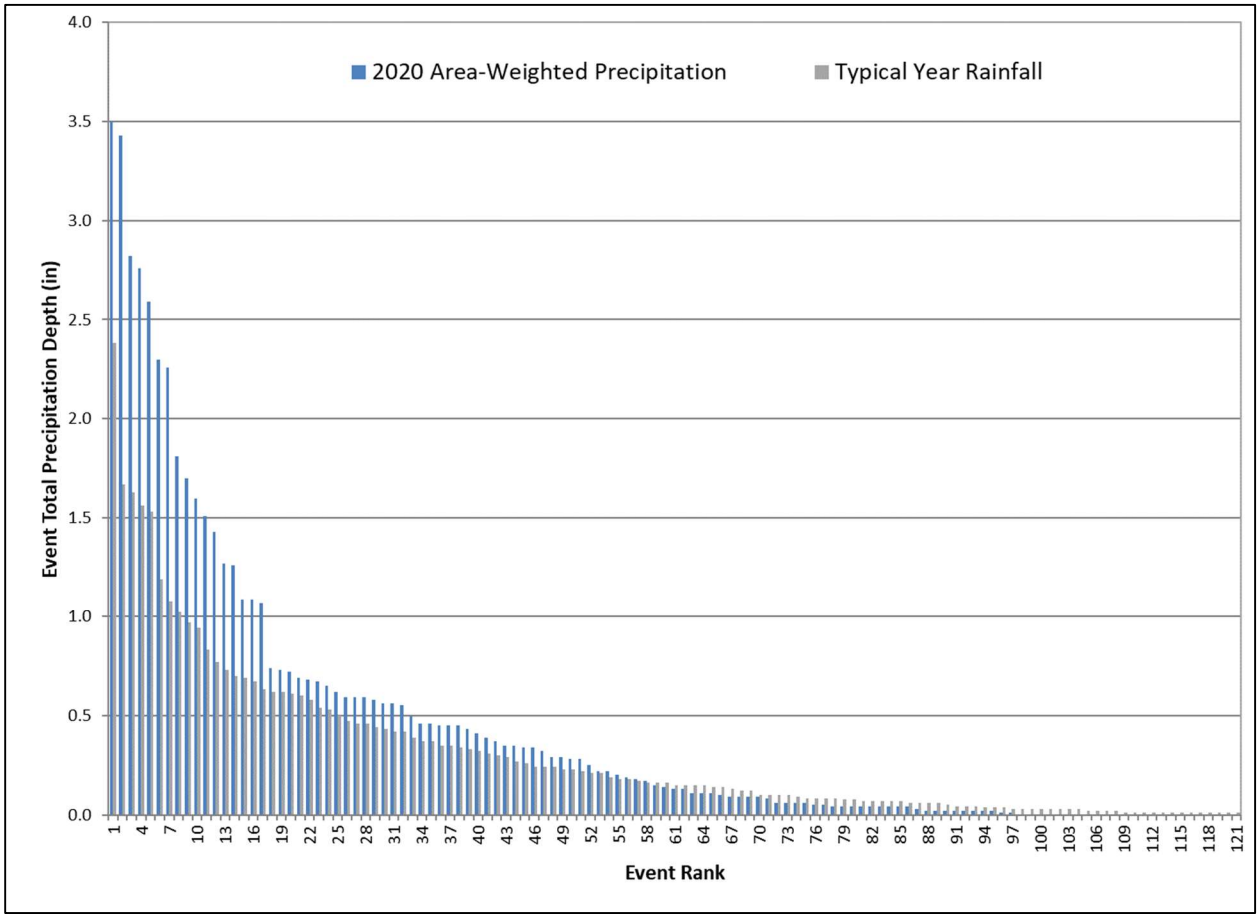
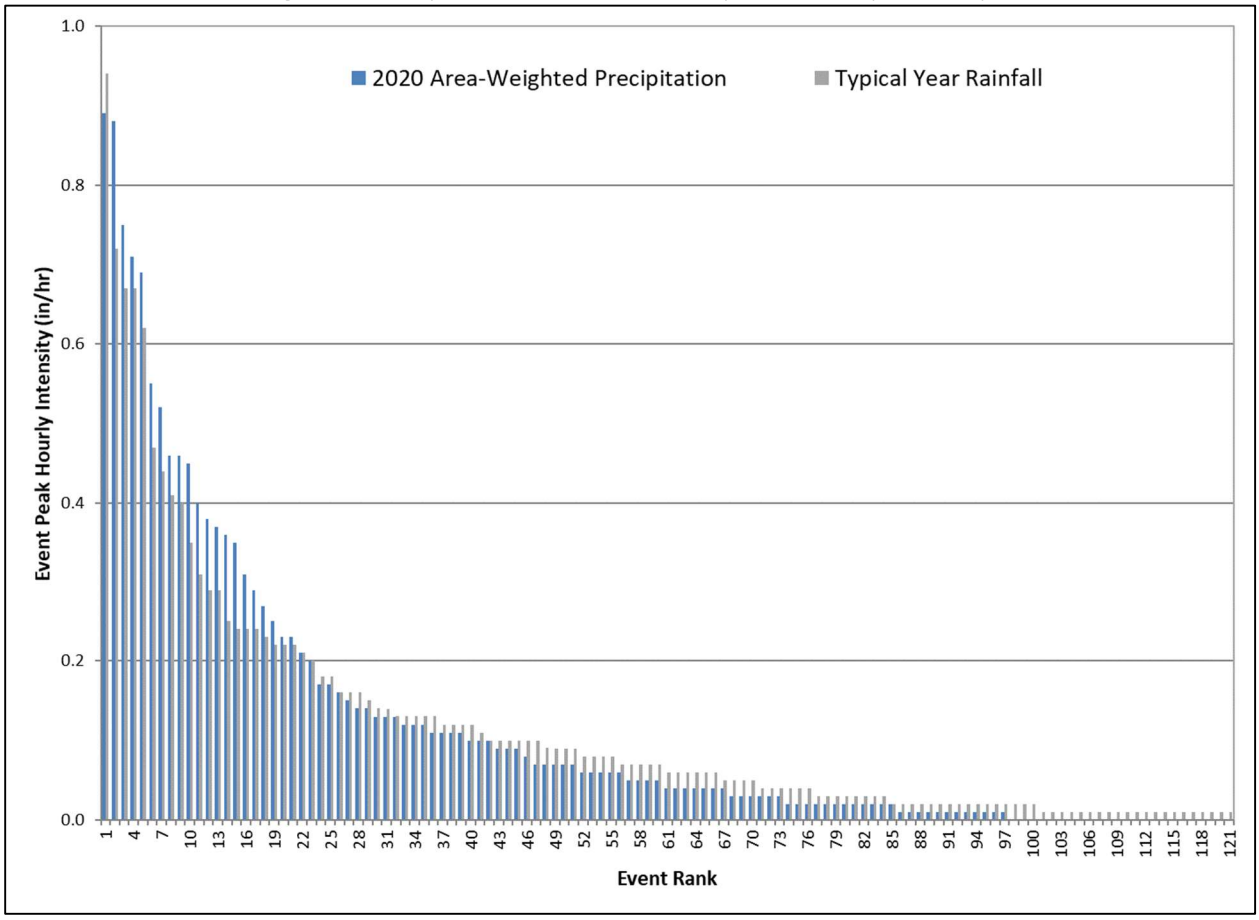


Figure 4. Precipitation Events Ranked by Peak Hourly Intensity



2.6 Typical Year CSO Volumes and Activations

Table 6 presents model estimated CSO volumes and activations baseline conditions for the District's synthetic Typical Year for all 121 events as of December 31, 2020. The District's synthetic Typical year is based on 1-hr precipitation intervals and is evaluated using a continuous simulation.

Table 6. Typical Year Model-Estimated CSO Activations and Volumes Based on December 31, 2020 Baseline Conditions

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 007	0	0	Mill Creek
CSO 013	0	0	Mill Creek
CSO 014	0	0	Mill Creek
CSO 017	2	0.2	Mill Creek
CSO 019	0	0	Mill Creek
CSO 020	0	0	Mill Creek
CSO 021	0	0	Mill Creek
CSO 022	1	<0.1	Mill Creek
CSO 025	2	0.8	Mill Creek

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 027	0	0	Mill Creek
CSO 028	0	0	Mill Creek
CSO 030	0	0	Mill Creek
CSO 031	0	0	Mill Creek
CSO 032	0	0	Mill Creek
CSO 033	9	1.6	Southerly
CSO 035	66	81.7	Southerly
CSO 036	39	225.8	Southerly
CSO 037	0	0	Southerly
CSO 038	0	0	Southerly
CSO 039	32	8.7	Southerly
CSO 040	61	313.7	Southerly
CSO 043	0	0	Big Creek
CSO 044	2	<0.1	Big Creek
CSO 045[5]	15	9.2	Big Creek
CSO 050	9	1.0	Big Creek
CSO 051	19	25.2	Big Creek
CSO 052	0	0	Big Creek
CSO 053	34	30.6	Big Creek
CSO 054	26	38.4	Big Creek
CSO 055	5	0.7	Big Creek
CSO 056	47	93.2	Big Creek
CSO 057	54	223.3	Big Creek
CSO 058	63	190.9	Big Creek
CSO 059	15	12.8	Big Creek
CSO 060	0	0	Big Creek
CSO 062[1]	N/A	N/A	Big Creek
CSO 063	1	0.2	Big Creek
CSO 064	6	0.3	Westerly
CSO 065	38	3.3	Westerly
CSO 066[2]	N/A	N/A	Westerly
CSO 067	6	1.1	Westerly
CSO 068	16	3.9	Westerly
CSO 069	0	0	Westerly
CSO 071	0	0	Westerly
CSO 072	1	0.2	Southerly
CSO 073	29	47.6	Easterly
CSO 074	13	4.4	Westerly
CSO 075	3	1.0	Westerly
CSO 076[7]	4	2.3	Westerly
CSO 078	0	0	Westerly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 079[2]	N/A	N/A	Westerly
CSO 080	52	305.6	Westerly
CSO 081	0	0	Westerly
CSO 082	15	3.2	Westerly
CSO 083[2]	N/A	N/A	Westerly
CSO 084	0	0	Westerly
CSO 085[2]	N/A	N/A	Westerly
CSO 086	1	0.1	Westerly
CSO 087	36	7.6	Westerly
CSO 088	59	22.7	Westerly
CSO 089	6	0.2	Westerly
CSO 090[2]	N/A	N/A	Easterly
CSO SAPS[3]	0	0	Easterly
CSO SLPS[2]	N/A	N/A	Easterly
CSO 091	0	0	Easterly
CSO 092	0	0	Easterly
CSO 093	1	<0.1	Easterly
CSO 094	19	18.0	Easterly
CSO 095	9	5.7	Easterly
CSO 096	21	9.3	Easterly
CSO 097	39	7.3	Easterly
CSO 098	14	6.4	Easterly
CSO 099	1	0.1	Easterly
CSO 200	70	127.7	Easterly
CSO 201	56	39.0	Easterly
CSO 202	20	38.3	Easterly
CSO 203	12	9.8	Easterly
CSO 204	67	73.8	Easterly
CSO 205	48	20.4	Easterly
CSO 206	0	0	Easterly
CSO 207	0	0	Easterly
CSO 208	0	0	Easterly
CSO 209	0	0	Easterly
CSO 210	0	0	Easterly
CSO 211	0	0	Easterly
CSO 212	0	0	Easterly
CSO 214	0	0	Easterly
CSO 215	0	0	Easterly
CSO 216	0	0	Easterly
CSO 217	1	<0.1	Easterly
CSO 218	0	0	Easterly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 219	12	0.6	Easterly
CSO 220	0	0	Easterly
CSO 221	44	8.7	Easterly
CSO 222	47	160.9	Easterly
CSO 223	1	<0.1	Easterly
CSO 224	28	21.2	Easterly
CSO 225	0	0	Easterly
CSO 226	1	<0.1	Easterly
CSO 230[8]	5	0.2	Easterly
CSO 231	1	<0.1	Easterly
CSO 232[6]	83	45.9	Easterly
CSO 233	62	22.6	Big Creek
CSO 234	1	<0.1	Easterly
CSO 235[2]	N/A	N/A	Easterly
CSO 236[2]	N/A	N/A	Easterly
CSO 238	4	0.3	Big Creek
CSO 239	0	0	Easterly
CSO 240	4	0.2	Westerly
CSO 241	0	0	Big Creek
CSO 242	0	0	Easterly
CSO 243	0	0	Mill Creek
CSO 245	0	0	Mill Creek
CSO 246	0	0	Mill Creek
CSO 247	0	0	Mill Creek
CSO 249[4]	0	0	Mill Creek
CSO 250	0	0	Southerly
CSO 252	0	0	Mill Creek
CSO 253[2]	N/A	N/A	Westerly
CSO 254	0	0	Big Creek
CSO 255	14	4.4	Big Creek
CSO 256	0	0	Easterly
CSO 257	0	0	Big Creek
CSO 258	1	9.3	Mill Creek
Total		**2,291.3**	

1 Modeling and monitoring data were not available for CSO 062. Project to eliminate CSO 062 was under construction in 2020.
2 Associated regulators for this CSO were eliminated prior to 2020.
3 Upon completion of the Superior Avenue Pump Station Project in 2019 and review of CSO permit renewal, currently under review by EPA, this will likely be the new CSO 090 due to its proximity to the former CSO 090.
4 Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model. Model representation is underway through the MCI-LSESS contract currently in progress.
5 CSO 045 overflow performance was affected by BC-05-AJB outlet gate operation which was changed from modulating to static control by locking gate in the closed position on July 13, 2020.

6 The modeled number of activations and volumes are significantly overestimated at CSO 232 due to including stormwater discharges from green infrastructure basins, the phased activation of the E. 140 Street project, and flows from Shaw Brook. The model is unable to distinguish between the sources of the flows, however, the majority of these flows are stormwater from the green infrastructure basins.
7 CSO level of control of fully controlling the Typical Year is not met at CSO 076 at this time. Meeting the targeted CSO performance criteria is reliant on the completion of upstream CM-14 WST-3 project work which will regulate the amount of flow routed between the Westerly Low-Level Interceptor, WST, or overflow at CSO 080.
8 Corrections to the model representation were identified with respect to regulator D-45 associated with CSO 230. Model updates were not completed in time for incorporation with the 2020 eDMR reporting effort. Corrected model representation will be resolved prior to 2021 eDMR reporting.

2.7 Evaluation of CSO Volumes and Activations

The NPDES Permit 3PA00002*HD, Part II, Item K.3, requires the District to provide "an evaluation of whether the CSO activation volume and frequency for the previous year is in accordance with the estimates in the Facilities Plan(s) and/or Consent Decree, given the precipitation which occurred during the year, and the CSO abatement activities which have been implemented." For purposes of the evaluation of whether the CSO activation volume and frequency for 2020 was in accordance with the Facilities Plan and/or Consent Decree, this exercise was performed for controlled CSOs. **Table 7** summarizes the fully operational LTCP projects and Control Measures as of December 31, 2020, the applicable controlled CSOs, the required Typical Year level of control for each CSO, and an analysis of Typical Year Performance on the system as of December 31, 2020 and the performance for 2020 precipitation. Overall, the 2020 precipitation exceeded Typical Year for both precipitation depth and intensity resulting in system performance exceeding anticipated control levels for several controlled CSOs.

Table 7. CSO Status & Performance Summary

CSOs	Control Measure	Consent Decree AFO Date	December 31, 2020 Status	Status Details	Typical Year Performance Criteria	2020 Performance Analysis
Easterly CSOs						
CSO 206 CSO 208 CSO 209 CSO 210 CSO 211 CSO 212 CSO 214 CSO 230 CSO 231 CSO 232 CSO 239 CSO 242	CM-6	12/31/2020	Fully Operational	This control measure was operational in December 2020. Post-construction monitoring is ongoing to support demonstration of compliance.	≤ 2	Performance as expected. Note: CSOs 212 and 214 achieved full operation (AFO) Dec 2020. The 2020 precipitation model evaluation did not include the AFO status for CSOs 212 and 214. CSO 232: See footnote 6 in Table 4.
CSO 090 CSO SAPS	CM-9	12/31/2018	Fully Operational	Operational prior to 2020.	0, converted to SWO (CSO 090) ≤ 2 (CSO SAPS)	Performance as expected.
CSO 235 CSO SLPS	CM-10	12/31/2017	Fully Operational	Operational prior to 2020.	0, converted to SWO	Performance as expected.
CSO 090 CSO 235	CM-11	12/31/2018	Fully Operational	Operational prior to 2020.	0, converted to SWO	Performance as expected.
CSO 091 CSO 092 CSO 099 CSO 207 CSO 215 CSO 216 CSO 225 CSO 236 CSO 256	Easterly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤2 (CSO 207, 236) ≤3 (CSO 091, 099, 215, 216) ≤ 4 (CSOs 092, 225, 256)	Performance as expected.
Southerly CSOs						
CSO 063	CM-24	12/31/2014	Fully Operational	Operational prior to 2020.	≤ 1	Performance as expected.
CSO 007 CSO 013 CSO 014 CSO 017 CSO 019 CSO 020 CSO 021 CSO 022 CSO 025 CSO 027 CSO 028 CSO 030 CSO 031 CSO 032 CSO 243 CSO 245 CSO 246 CSO 247 CSO 249 CSO 258	Mill Creek LTCP	N/A	Fully Operational	Operational prior to 2020.	≤ 5 ≤4 (CSOs 245, 249)	Performance as expected.
CSO 037 CSO 038 CSO 052 CSO 060 CSO 062 CSO 241 CSO 250 CSO 252 CSO 254 CSO 255 CSO 257	Southerly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤3 (CSO 062, 255) ≤ 4 (CSOs 037, 038, 052, 060, 241, 250, 252, 254, 257)	Performance as expected.
Westerly CSOs						
CSO 078	CM-15	12/31/2019	Fully Operational	Operational prior to 2020.	0	Performance as expected.
CSO 076	CM-16	12/31/2024	Fully Operational	Operational prior to 2020.	0	Performance as expected.
CSO 086	CM-18	12/31/2017	Fully Operational	Operational prior to 2020.	≤ 4	Performance as expected.
CSO 064 CSO 065 CSO 066 CSO 067 CSO 068 CSO 069 CSO 071 CSO 079	Westerly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤ 4	Performance as expected. Note: Current model representation of CSOs 064, 065, 067 and 068 are based upon recent recalibration updates through the District's local sanitary

CSOs	Control Measure	Consent Decree AFO Date	December 31, 2020 Status	Status Details	Typical Year Performance Criteria	2020 Performance Analysis
CSO 081 CSO 083 CSO 085 CSO 253	Westerly LTCP	N/A	Fully Operational	Operational prior to 2020	≤ 4	sewer evaluation studies. CSO performance improvements are in progress

3.0 Nine Minimum Control Program Modifications

The District administers its Nine Minimum Controls Program through its CSO Operational Plan, which was updated and submitted to Ohio EPA in March 2016 as required in NPDES permit 3PA00002*HD. In 2020, the District continued to remotely monitor its automatic regulators in the combined sewer system and modified regulators to continue efforts to maximize CSO capture and conveyance to treatment. The District continues to try to reduce the frequency and magnitude of wet weather overflows as well as prevent dry weather overflows by implementing the requirements of its CSO Operational Plan.

4.0 Stream Assessment Results

Part II., Section J. of NPDES Permit 3PA00002*HD requires the District to conduct biological, chemical and habitat assessments on each of the following receiving streams at least once during the 5-year permit cycle:

- Big Creek
- Cuyahoga River
- Doan Brook
- Euclid Creek
- Mill Creek
- Rocky River
- West Creek

In 2020, the District conducted biological, chemical, and habitat assessments on the **Rocky River and Euclid Creek**. The results of the biological and habitat assessments are provided in **Table 8**. The field data sheets that support the biological and habitat results are provided in **Appendix C (Qualitative Habitat Evaluation Index (QHEI) field sheets)**, **D (Macroinvertebrate field sheets and results)** and **E (Fish data sheets)**. The surface water quality chemistry results and surface water sampling field data sheets are located in **Appendix F** and **G**, respectively.

Table 8. 2020 Biological and Habitat Results

		IBI		MIwb		ICI		QHEI	
Stream	**Site**	**Score(s)**	**Narrative Rating**	**Score(s)**	**Narrative Rating**	**Score**	**Narrative Rating**	**Score**	**Narrative Rating**
Euclid Creek	1.65	24, 24	Poor, Poor	4.8, 5.6	Poor, Poor	32	Marginally Good	76.75	Excellent
Euclid Creek	0.55	26, 32	Poor, Fair	6.2, 8.3	Fair, Good	---	Low Fair*	57.50	Fair
Rocky River	8.30	42, 50	Good, Exceptional	8.7, 9.8	Good, Exceptional	44	Very Good	70.00	Good
Rocky River	2.50	48, 46	Exceptional, Very Good	9.3, 9.8	Very Good, Exceptional	48	Exceptional	79.00	Excellent
*Based on qualitative sample and best professional judgment									

Appendix A: 2020 Observed Precipitation Statistics by District Precipitation Gauge

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:55	0.5	43.33	0.06	2.3
2	1/8/2020 2:25	0.04	5.08	0.03	3
3	1/10/2020 0:25	1.32	53.25	0.13	1.7
4	1/15/2020 18:15	0.09	4	0.05	3.5
5	1/18/2020 2:00	0.78	25.25	0.19	2.2
6	1/19/2020 23:05	0.08	12.42	0.02	0.8
7	1/24/2020 9:25	0.58	39.58	0.12	3.9
8	1/26/2020 17:10	0.11	20.33	0.03	0.7
9	1/28/2020 20:15	0.02	0.58	0.02	1.3
10	1/31/2020 12:30	0.01	0.08	0.01	2.7
11	2/1/2020 19:00	0.07	11.08	0.03	1.3
12	2/4/2020 15:05	0.08	4.67	0.04	2.4
13	2/5/2020 20:00	0.6	44.08	0.13	1
14	2/8/2020 15:45	0.02	1.17	0.01	1
15	2/9/2020 17:50	0.34	15.17	0.09	1
16	2/12/2020 20:00	0.37	23.33	0.08	2.5
17	2/17/2020 23:40	0.27	7.08	0.07	4.2
18	2/24/2020 21:00	0.15	4	0.06	6.6
19	2/25/2020 19:05	0.14	5.58	0.06	0.8
20	2/26/2020 13:45	0.31	13	0.05	0.5
21	2/27/2020 16:50	0.01	0.08	0.01	0.6
22	2/29/2020 0:45	0.01	0.08	0.01	1.3
23	3/2/2020 10:05	0.57	32.75	0.16	2.4
24	3/4/2020 12:05	0.07	1.83	0.04	0.7
25	3/6/2020 8:55	0.07	8.5	0.03	1.8
26	3/10/2020 1:35	0.35	10.25	0.16	3.3
27	3/12/2020 23:30	0.33	6.42	0.23	2.5
28	3/16/2020 18:20	0.06	12.92	0.04	3.5
29	3/18/2020 15:35	1.12	13.08	0.32	1.3
30	3/19/2020 17:50	0.26	17.17	0.11	0.5
31	3/22/2020 20:50	0.18	14.42	0.07	2.4
32	3/26/2020 17:55	0.34	7.33	0.07	3.3
33	3/27/2020 23:10	3.26	37.25	1.48	0.9
34	3/30/2020 3:05	0.07	15.17	0.04	0.6
35	4/1/2020 7:15	0.01	0.08	0.01	1.5
36	4/7/2020 9:00	0.84	16.08	0.55	6.1
37	4/9/2020 0:10	0.35	14.08	0.12	1

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/12/2020 5:45	0.02	0.25	0.02	2.6
39	4/12/2020 21:20	0.59	13.92	0.21	0.6
40	4/14/2020 23:55	0.01	0.08	0.01	1.5
41	4/15/2020 15:05	0.24	13.58	0.08	0.6
42	4/17/2020 10:10	0.33	7.92	0.07	1.2
43	4/19/2020 21:05	0.01	0.08	0.01	2.1
44	4/21/2020 2:20	0.11	1.42	0.07	1.2
45	4/22/2020 17:10	0.08	7.58	0.03	1.6
46	4/23/2020 21:50	0.1	4.67	0.05	0.9
47	4/26/2020 0:30	0.66	15.83	0.11	1.9
48	4/27/2020 22:35	0.1	6.58	0.04	1.3
49	4/28/2020 19:15	0.17	3.33	0.1	0.6
50	4/29/2020 18:25	0.33	18.83	0.11	0.8
51	5/1/2020 6:15	0.11	3.58	0.06	0.7
52	5/2/2020 19:30	0.14	1.25	0.13	1.4
53	5/9/2020 5:00	0.03	0.5	0.03	6.3
54	5/10/2020 10:35	0.72	20.67	0.2	1.2
55	5/14/2020 9:45	2.09	32.67	0.55	3.1
56	5/17/2020 9:40	0.49	8.92	0.38	1.6
57	5/18/2020 8:00	0.47	23.08	0.11	0.6
58	5/22/2020 3:25	0.49	9	0.25	2.8
59	5/25/2020 14:35	0.15	4.67	0.11	3.1
60	5/28/2020 4:35	0.31	9.58	0.21	2.4
61	5/29/2020 9:00	0.44	7.92	0.26	0.8
62	6/2/2020 0:30	0.05	5	0.03	3.3
63	6/3/2020 7:25	0.02	0.5	0.02	1.1
64	6/10/2020 19:25	0.54	9.5	0.51	7.5
65	6/18/2020 19:45	0.15	0.92	0.15	7.6
66	6/21/2020 22:30	0.39	16.92	0.22	3.1
67	6/23/2020 6:35	0.47	5.5	0.35	0.6
68	6/26/2020 22:40	1.14	6.58	0.68	3.4
69	6/27/2020 22:00	0.24	0.25	0.24	0.7
70	7/10/2020 13:40	3.74	20.75	1.44	12.6
71	7/16/2020 15:20	0.03	0.5	0.03	5.2
72	7/19/2020 16:25	0.55	0.58	0.55	3
73	7/22/2020 2:45	0.26	3.5	0.14	2.4
74	7/23/2020 10:40	0.17	0.42	0.17	1.2

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/27/2020 12:35	1.31	16.33	0.69	4.1
76	7/29/2020 22:00	0.01	0.08	0.01	1.7
77	8/1/2020 12:05	0.74	31.67	0.36	2.6
78	8/3/2020 13:15	1.53	3.25	1.33	0.7
79	8/4/2020 6:35	0.35	15.33	0.26	0.6
80	8/16/2020 11:40	0.28	1.75	0.24	11.6
81	8/17/2020 13:40	0.01	0.08	0.01	1
82	8/26/2020 8:50	0.43	2.75	0.33	8.8
83	8/28/2020 6:00	2.94	28.75	1.2	1.8
84	9/2/2020 3:15	0.82	9.33	0.35	3.7
85	9/7/2020 6:10	3.8	6.67	1.46	4.7
86	9/13/2020 7:20	0.52	1	0.52	5.8
87	9/28/2020 16:40	1.77	7	0.88	15.3
88	9/30/2020 16:10	0.03	4.42	0.01	1.7
89	10/1/2020 13:10	0.55	17.25	0.14	0.7
90	10/2/2020 21:00	0.01	0.08	0.01	0.6
91	10/4/2020 15:30	0.29	8.75	0.16	1.8
92	10/10/2020 19:45	0.04	0.83	0.04	5.8
93	10/12/2020 22:40	0.73	4.33	0.4	2.1
94	10/15/2020 12:15	0.26	15.42	0.07	2.4
95	10/18/2020 13:30	0.06	0.33	0.06	2.4
96	10/19/2020 2:35	0.91	32.5	0.11	0.5
97	10/20/2020 23:50	1.99	12.83	0.68	0.5
98	10/22/2020 0:50	0.1	4.92	0.05	0.5
99	10/23/2020 17:10	0.71	8.58	0.23	1.5
100	10/26/2020 2:25	0.26	19.42	0.04	2
101	10/27/2020 14:50	0.26	15.75	0.05	0.7
102	10/29/2020 3:40	1.08	32.58	0.14	0.9
103	11/1/2020 7:40	0.16	17.83	0.08	1.8
104	11/11/2020 0:45	0.16	6.92	0.05	9
105	11/15/2020 0:20	0.33	13	0.09	3.7
106	11/17/2020 4:05	0.13	8.08	0.06	1.6
107	11/22/2020 7:15	0.67	12.25	0.13	4.8
108	11/24/2020 17:00	0.02	0.33	0.02	1.9
109	11/25/2020 10:30	0.82	30.83	0.17	0.7
110	11/27/2020 20:25	0.01	0.08	0.01	1.1
111	11/30/2020 5:40	3	37.83	0.19	2.4

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	12/5/2020 15:30	0.01	0.08	0.01	3.8
113	12/12/2020 7:45	0.37	21.83	0.19	6.7
114	12/14/2020 9:45	0.01	0.08	0.01	1.2
115	12/16/2020 13:55	0.01	0.08	0.01	2.2
116	12/17/2020 8:15	0.02	10.75	0.01	0.8
117	12/18/2020 9:35	0.03	3	0.01	0.6
118	12/19/2020 18:15	0.19	21.67	0.06	1.2
119	12/21/2020 17:20	0.13	16	0.06	1.1
120	12/23/2020 19:50	0.73	38.83	0.1	1.4
121	12/27/2020 22:50	0.1	3.67	0.05	2.5
122	12/28/2020 20:50	0.01	0.08	0.01	0.8
123	12/29/2020 23:55	0.02	0.83	0.02	1.1
124	12/30/2020 14:25	0.31	7.42	0.11	0.6

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.56	47.42	0.06	2.2
2	1/8/2020 7:55	0.01	0.08	0.01	3.2
3	1/9/2020 13:55	1.09	59.5	0.09	1.2
4	1/15/2020 17:50	0.15	20.92	0.12	3.7
5	1/18/2020 1:35	0.75	15.67	0.17	1.5
6	1/19/2020 21:55	0.09	13.25	0.03	1.2
7	1/24/2020 6:45	0.76	37.92	0.11	3.8
8	1/26/2020 17:25	0.02	8.83	0.01	0.9
9	2/1/2020 19:10	0.04	2.33	0.02	5.7
10	2/4/2020 14:50	0.22	4.42	0.09	2.7
11	2/5/2020 20:30	0.5	44.25	0.12	1.1
12	2/8/2020 14:30	0.01	0.08	0.01	0.9
13	2/9/2020 17:55	0.26	13.83	0.08	1.1
14	2/12/2020 19:15	0.5	31.58	0.11	2.5
15	2/17/2020 23:20	0.37	11.17	0.1	3.9
16	2/24/2020 20:35	0.2	4.67	0.05	6.4
17	2/25/2020 17:20	0.47	41.5	0.06	0.7
18	2/29/2020 2:00	0.03	2.08	0.02	1.6
19	3/2/2020 9:55	0.47	32.83	0.16	2.2
20	3/4/2020 12:25	0.04	1.75	0.03	0.7
21	3/6/2020 7:10	0.26	17.92	0.05	1.7
22	3/10/2020 1:45	0.37	10.67	0.07	3
23	3/12/2020 21:45	0.41	4.5	0.27	2.4
24	3/16/2020 18:10	0.05	11.42	0.02	3.7
25	3/18/2020 15:00	1.59	6.92	0.37	1.4
26	3/19/2020 12:00	0.31	20	0.2	0.6
27	3/22/2020 19:50	0.19	12.92	0.06	2.5
28	3/25/2020 2:20	0.01	0.08	0.01	1.7
29	3/26/2020 18:45	0.27	7	0.09	1.7
30	3/27/2020 21:20	2.35	29.33	0.73	0.8
31	3/30/2020 6:15	0.13	13.25	0.09	1.1
32	4/1/2020 2:45	0.04	5.75	0.03	1.3
33	4/7/2020 6:15	1.11	22.58	0.58	5.9
34	4/9/2020 5:15	0.32	18.5	0.14	1
35	4/12/2020 5:35	0.02	2.33	0.01	2.2
36	4/12/2020 21:35	0.49	14	0.11	0.6
37	4/15/2020 14:50	0.16	11.25	0.06	2.1
38	4/17/2020 10:35	0.36	8.42	0.06	1.4

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/19/2020 20:05	0.02	10	0.01	2
40	4/21/2020 2:20	0.11	3.25	0.07	0.8
41	4/22/2020 18:40	0.09	2.25	0.06	1.5
42	4/23/2020 20:30	0.16	7.83	0.07	1
43	4/26/2020 0:05	0.85	13.92	0.17	1.8
44	4/27/2020 22:50	0.05	3.83	0.03	1.4
45	4/28/2020 21:35	0.03	0.25	0.03	0.8
46	4/29/2020 19:45	0.28	37	0.07	0.9
47	5/9/2020 4:55	0.02	1.17	0.01	7.8
48	5/10/2020 17:20	0.52	13.58	0.3	1.5
49	5/11/2020 21:15	0.01	0.08	0.01	0.6
50	5/14/2020 9:20	2.38	33	0.82	2.5
51	5/17/2020 7:55	0.35	11.25	0.31	1.6
52	5/18/2020 7:40	1.02	22.33	0.26	0.5
53	5/22/2020 2:30	0.52	14	0.23	2.9
54	5/25/2020 16:55	0.14	1.33	0.13	3
55	5/28/2020 3:55	0.24	9.92	0.13	2.4
56	5/29/2020 12:35	0.41	11.08	0.31	0.9
57	6/1/2020 23:55	0.04	0.67	0.04	3
58	6/4/2020 14:20	0.06	0.5	0.06	2.6
59	6/10/2020 19:10	0.24	1.17	0.23	6.2
60	6/13/2020 0:15	0.04	0.33	0.04	2.2
61	6/18/2020 19:15	0.02	0.17	0.02	5.8
62	6/20/2020 4:45	0.01	0.08	0.01	1.4
63	6/21/2020 22:00	0.63	17.58	0.28	1.7
64	6/23/2020 6:25	0.53	5.58	0.46	0.6
65	6/26/2020 22:20	0.39	6.75	0.26	3.4
66	7/7/2020 12:25	0.41	2.33	0.4	10.3
67	7/10/2020 23:30	0.3	10.92	0.09	3.4
68	7/16/2020 4:35	0.03	10.42	0.02	4.8
69	7/19/2020 12:55	0.5	7	0.48	2.9
70	7/22/2020 2:00	0.33	3.25	0.2	2.3
71	7/27/2020 14:25	1.86	12.33	1.08	5.4
72	8/1/2020 11:10	1.55	53.25	0.75	4.4
73	8/4/2020 7:20	0.22	4.67	0.16	0.6
74	8/16/2020 11:45	0.39	1.67	0.32	12
75	8/17/2020 13:35	1.21	0.92	1.21	1
76	8/23/2020 16:30	0.39	1.58	0.37	6.1

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/26/2020 7:10	0.09	4.08	0.06	2.5
78	8/28/2020 8:30	2.69	21	1.07	1.9
79	9/2/2020 4:05	0.29	8.42	0.16	3.9
80	9/3/2020 5:50	0.01	0.08	0.01	0.7
81	9/7/2020 6:35	4.39	9.33	1.67	4
82	9/10/2020 7:00	0.01	0.08	0.01	2.6
83	9/13/2020 7:15	0.32	1.17	0.29	3
84	9/17/2020 6:10	0.02	0.08	0.02	3.9
85	9/28/2020 16:40	1.58	7.25	0.85	11.4
86	9/30/2020 15:55	0.04	7.08	0.02	1.7
87	10/1/2020 13:25	1.09	18.08	0.41	0.6
88	10/4/2020 16:30	0.37	13.5	0.24	2.4
89	10/12/2020 22:20	0.56	2.83	0.48	7.7
90	10/15/2020 12:25	0.29	5.75	0.09	2.5
91	10/18/2020 12:30	0.04	1.33	0.03	2.8
92	10/19/2020 2:40	0.89	30.25	0.13	0.5
93	10/21/2020 0:20	0.73	11.67	0.2	0.6
94	10/22/2020 5:10	0.03	0.5	0.03	0.7
95	10/23/2020 17:10	0.56	8.67	0.25	1.5
96	10/26/2020 1:50	0.24	24.83	0.04	2
97	10/27/2020 18:15	0.25	13.08	0.07	0.6
98	10/29/2020 2:30	1.56	33.83	0.25	0.8
99	11/1/2020 7:10	0.1	16.75	0.06	1.8
100	11/11/2020 0:25	0.19	6.92	0.07	9
101	11/15/2020 0:05	0.31	17.25	0.1	3.7
102	11/17/2020 4:35	0.16	11.08	0.05	1.5
103	11/22/2020 7:05	0.67	12.17	0.27	4.6
104	11/24/2020 16:50	0.02	0.17	0.02	1.9
105	11/25/2020 9:55	0.69	24.42	0.18	0.7
106	11/27/2020 20:10	0.02	0.83	0.02	1.4
107	11/30/2020 5:25	2.84	39.58	0.29	2.4
108	12/5/2020 12:20	0.06	3.58	0.03	3.6
109	12/12/2020 7:40	0.13	9.75	0.05	6.7
110	12/13/2020 5:45	0.07	3.42	0.04	0.5
111	12/16/2020 11:35	0.13	45	0.02	3.1
112	12/19/2020 20:10	0.15	5.42	0.05	1.5
113	12/21/2020 16:30	0.21	16.75	0.11	1.6
114	12/23/2020 21:30	0.55	53.75	0.08	1.5

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/27/2020 23:05	0.08	3.25	0.05	1.8
116	12/28/2020 18:10	0.01	0.08	0.01	0.7
117	12/29/2020 23:40	0.02	0.42	0.02	1.2
118	12/30/2020 14:10	0.42	7.92	0.13	0.6

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 10:50	0.02	1.92	0.01	0.5
2	1/3/2020 4:40	0.44	37.92	0.06	1.7
3	1/5/2020 13:55	0.04	8.25	0.02	0.8
4	1/10/2020 0:30	1.25	52.33	0.16	4.1
5	1/15/2020 18:05	0.07	0.92	0.07	3.6
6	1/18/2020 1:10	0.82	16.17	0.16	2.3
7	1/19/2020 17:05	0.17	26.67	0.02	1
8	1/22/2020 13:15	0.01	0.08	0.01	1.7
9	1/24/2020 7:55	0.44	36.58	0.07	1.8
10	1/26/2020 17:20	0.01	0.08	0.01	0.9
11	2/1/2020 19:05	0.04	2.5	0.02	6.1
12	2/4/2020 14:50	0.09	3	0.05	2.7
13	2/5/2020 18:35	0.21	4.33	0.1	1
14	2/6/2020 11:30	0.15	27.25	0.03	0.5
15	2/8/2020 15:35	0.03	1.08	0.02	1
16	2/9/2020 18:20	0.29	13.08	0.06	1.1
17	2/12/2020 19:40	0.35	22.5	0.07	2.5
18	2/17/2020 23:15	0.21	5	0.07	4.2
19	2/24/2020 19:35	0.23	5.33	0.1	6.6
20	2/25/2020 18:40	0.31	30.17	0.05	0.7
21	2/28/2020 23:50	0.04	3	0.02	2
22	3/2/2020 7:50	0.4	34.75	0.14	2.2
23	3/4/2020 12:10	0.03	1.58	0.02	0.7
24	3/6/2020 9:00	0.05	3.92	0.03	1.8
25	3/10/2020 0:35	0.31	11.17	0.09	3.5
26	3/12/2020 23:30	0.3	2.33	0.22	2.5
27	3/16/2020 18:40	0.01	0.08	0.01	3.7
28	3/17/2020 6:50	0.01	0.08	0.01	0.5
29	3/18/2020 15:05	1.18	6.83	0.36	1.3
30	3/19/2020 16:40	0.21	15.08	0.08	0.8
31	3/22/2020 20:00	0.2	15.08	0.06	2.5
32	3/26/2020 17:55	0.31	7.67	0.07	3.3
33	3/27/2020 22:15	2.82	35.83	0.74	0.9
34	3/30/2020 10:25	0.04	8.92	0.02	1
35	4/1/2020 9:25	0.01	0.08	0.01	1.6
36	4/7/2020 6:00	0.26	2.67	0.14	5.9
37	4/7/2020 22:20	1.26	2.92	0.93	0.6
38	4/8/2020 23:50	0.27	17.58	0.09	0.9

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 5:35	0.01	0.08	0.01	2.5
40	4/12/2020 22:35	0.31	12.5	0.09	0.7
41	4/15/2020 14:20	0.18	11.25	0.06	2.1
42	4/17/2020 10:05	0.39	8.58	0.08	1.4
43	4/19/2020 21:20	0.02	0.17	0.02	2.1
44	4/21/2020 2:05	0.13	1.58	0.07	1.2
45	4/22/2020 18:25	0.1	2.25	0.06	1.6
46	4/23/2020 20:45	0.12	8.75	0.06	1
47	4/26/2020 0:45	0.48	8.25	0.19	1.8
48	4/27/2020 22:25	0.04	4	0.03	1.6
49	4/28/2020 18:35	0.28	3.17	0.2	0.7
50	4/29/2020 17:10	0.17	23.92	0.05	0.8
51	5/1/2020 7:05	0.04	0.83	0.04	0.6
52	5/2/2020 20:55	0.2	1.25	0.19	1.5
53	5/9/2020 4:55	0.02	0.92	0.02	6.3
54	5/10/2020 10:35	0.6	19.58	0.23	1.2
55	5/11/2020 20:55	0.01	0.08	0.01	0.6
56	5/14/2020 9:10	3.72	32.92	1.49	2.5
57	5/16/2020 6:45	0.01	0.08	0.01	0.5
58	5/17/2020 16:00	0.82	2.5	0.64	1.4
59	5/18/2020 6:50	1.55	23.33	0.35	0.5
60	5/22/2020 3:15	0.5	9.25	0.21	2.9
61	5/28/2020 4:55	0.13	8.67	0.08	5.7
62	5/29/2020 12:00	0.65	4.75	0.42	0.9
63	6/1/2020 23:20	0.07	1.5	0.06	3.3
64	6/10/2020 18:40	0.59	0.92	0.59	8.7
65	6/13/2020 0:00	0.09	0.5	0.09	2.2
66	6/18/2020 19:25	0.65	0.75	0.65	5.8
67	6/21/2020 21:45	0.49	14.08	0.16	3.1
68	6/23/2020 6:15	0.54	5.17	0.46	0.8
69	6/26/2020 22:15	0.35	23.92	0.22	3.5
70	7/10/2020 15:15	0.46	22	0.16	12.7
71	7/16/2020 14:35	0.01	0.08	0.01	5.1
72	7/19/2020 16:20	0.26	0.5	0.26	3.1
73	7/22/2020 2:15	0.24	2.75	0.15	2.4
74	7/22/2020 20:50	1.44	18.92	1.18	0.7
75	7/27/2020 11:35	0.96	22	0.51	3.8
76	8/1/2020 9:15	1.09	31.08	0.73	4

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 13:30	0.28	1.75	0.23	0.9
78	8/4/2020 9:40	0.04	16.58	0.01	0.8
79	8/16/2020 11:05	0.77	2.75	0.46	11.4
80	8/17/2020 13:25	0.16	1.25	0.15	1
81	8/26/2020 7:20	0.18	2.25	0.16	8.7
82	8/28/2020 8:05	4.57	21.25	2.18	1.9
83	9/2/2020 3:30	0.39	8.67	0.27	3.9
84	9/7/2020 6:10	3.95	7.33	1.47	4.8
85	9/13/2020 6:50	0.23	1.67	0.21	5.7
86	9/28/2020 15:05	1.66	12.92	0.82	15.3
87	9/30/2020 20:00	0.03	0.33	0.03	1.7
88	10/1/2020 12:40	0.97	18.33	0.35	0.7
89	10/4/2020 15:00	0.19	2.67	0.15	2.3
90	10/5/2020 12:05	0.01	0.08	0.01	0.8
91	10/12/2020 22:05	0.54	2.33	0.44	7.4
92	10/15/2020 12:05	0.22	5.17	0.07	2.5
93	10/18/2020 12:25	0.1	2.08	0.08	2.8
94	10/19/2020 2:50	0.94	32	0.09	0.5
95	10/20/2020 23:40	2.16	8.33	0.73	0.5
96	10/22/2020 0:30	0.04	4.42	0.02	0.7
97	10/23/2020 18:20	0.61	6.67	0.4	1.6
98	10/26/2020 2:00	0.26	20.17	0.04	2
99	10/27/2020 14:45	0.3	15.5	0.06	0.7
100	10/29/2020 2:45	1.07	29.42	0.13	0.9
101	11/1/2020 7:20	0.11	5.58	0.09	2
102	11/11/2020 1:50	0.06	6.42	0.03	9.5
103	11/14/2020 23:45	0.43	13.58	0.12	3.6
104	11/17/2020 4:25	0.1	5	0.04	1.6
105	11/22/2020 7:05	0.76	11.42	0.16	4.9
106	11/23/2020 6:45	0.01	0.08	0.01	0.5
107	11/24/2020 16:45	0.01	0.08	0.01	1.4
108	11/25/2020 10:20	0.59	25.67	0.17	0.7
109	11/27/2020 19:45	0.02	0.33	0.02	1.3
110	11/30/2020 4:35	2.66	40.5	0.22	2.4
111	12/5/2020 13:40	0.11	1.92	0.08	3.7
112	12/7/2020 5:05	0.01	0.08	0.01	1.6
113	12/12/2020 7:20	0.39	9	0.3	5.1
114	12/13/2020 6:40	0.03	3.92	0.02	0.6

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 11:10	0.02	2.33	0.01	3
116	12/17/2020 1:30	0.02	1.33	0.01	0.5
117	12/17/2020 14:55	0.07	18.5	0.01	0.5
118	12/19/2020 22:20	0.09	2.58	0.04	1.5
119	12/20/2020 14:40	0.02	1	0.02	0.6
120	12/21/2020 16:20	0.16	10.08	0.07	1
121	12/23/2020 18:45	0.51	55.67	0.07	1.7
122	12/27/2020 22:05	0.11	4.33	0.05	1.8
123	12/30/2020 8:40	0.4	15.5	0.08	2.3

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:50	0.43	45.33	0.06	2.2
2	1/10/2020 0:45	1.18	51.5	0.12	4.9
3	1/15/2020 18:10	0.05	1.33	0.04	3.6
4	1/18/2020 1:30	0.77	15.08	0.17	2.3
5	1/19/2020 21:20	0.17	6.83	0.05	1.2
6	1/24/2020 7:50	0.46	37.58	0.07	4.2
7	1/26/2020 17:15	0.01	0.08	0.01	0.8
8	1/28/2020 15:25	0.01	0.08	0.01	1.9
9	2/1/2020 19:05	0.03	1.67	0.02	4.1
10	2/4/2020 14:50	0.11	4	0.06	2.8
11	2/5/2020 18:40	0.45	44.08	0.12	1
12	2/8/2020 15:55	0.03	0.5	0.03	1
13	2/9/2020 17:45	0.27	13.75	0.07	1.1
14	2/12/2020 19:50	0.42	23.25	0.08	2.5
15	2/17/2020 23:20	0.21	6.17	0.06	4.2
16	2/24/2020 19:25	0.24	6.33	0.1	6.6
17	2/25/2020 18:55	0.43	31.58	0.05	0.7
18	2/29/2020 1:40	0.04	2.08	0.03	2
19	3/2/2020 10:20	0.37	32.33	0.15	2.3
20	3/4/2020 12:15	0.03	0.83	0.03	0.7
21	3/6/2020 9:55	0.06	3	0.03	1.9
22	3/10/2020 0:55	0.28	10.75	0.09	3.5
23	3/12/2020 23:30	0.32	2.58	0.21	2.5
24	3/14/2020 20:45	0.01	0.08	0.01	1.8
25	3/16/2020 19:20	0.02	11.58	0.01	1.9
26	3/18/2020 15:00	1.09	6.92	0.23	1.3
27	3/19/2020 17:30	0.43	17.25	0.16	0.8
28	3/21/2020 7:55	0.01	0.08	0.01	0.9
29	3/22/2020 19:55	0.21	15	0.07	1.5
30	3/26/2020 17:45	0.34	7.42	0.09	3.3
31	3/27/2020 22:15	2.87	35.83	0.65	0.9
32	3/30/2020 4:50	0.01	0.08	0.01	0.8
33	3/30/2020 17:45	0.02	0.33	0.02	0.5
34	4/1/2020 7:20	0.03	1	0.03	1.6
35	4/7/2020 6:05	1.03	22.25	0.53	5.9
36	4/9/2020 4:50	0.25	11.75	0.1	1
37	4/12/2020 5:35	0.01	0.08	0.01	2.5
38	4/12/2020 22:40	0.31	12.33	0.08	0.7

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 14:40	0.23	11.75	0.07	2.2
40	4/17/2020 10:10	0.42	8.33	0.09	1.3
41	4/19/2020 20:35	0.04	0.33	0.04	2.1
42	4/21/2020 2:10	0.08	1.5	0.06	1.2
43	4/22/2020 18:40	0.1	1.75	0.06	1.6
44	4/23/2020 20:45	0.11	6.5	0.07	1
45	4/26/2020 0:50	0.59	16.5	0.19	1.9
46	4/27/2020 22:35	0.05	3.33	0.04	1.2
47	4/28/2020 18:45	0.25	3.25	0.17	0.7
48	4/29/2020 17:30	0.18	23.17	0.05	0.8
49	5/1/2020 7:10	0.02	0.42	0.02	0.6
50	5/2/2020 21:00	0.05	0.17	0.05	1.6
51	5/8/2020 16:25	0.02	12	0.01	5.8
52	5/10/2020 10:30	0.67	20.08	0.21	1.3
53	5/11/2020 22:15	0.01	0.08	0.01	0.7
54	5/14/2020 9:15	2.96	40.67	1.03	2.5
55	5/17/2020 16:05	0.65	2.58	0.46	1.6
56	5/18/2020 7:00	2.33	22.92	0.63	0.5
57	5/22/2020 2:50	0.49	9.58	0.2	2.9
58	5/28/2020 4:55	0.15	8.75	0.1	5.7
59	5/29/2020 12:00	0.54	4.75	0.32	0.9
60	6/1/2020 23:30	0.06	1.33	0.05	3.3
61	6/10/2020 18:35	0.47	9.5	0.47	8.7
62	6/13/2020 0:00	0.05	0.25	0.05	1.8
63	6/18/2020 19:30	0.78	0.5	0.78	5.8
64	6/21/2020 21:50	0.57	15	0.25	3.1
65	6/23/2020 6:20	0.71	5.17	0.63	0.7
66	6/26/2020 22:05	0.58	6.58	0.37	3.4
67	6/27/2020 21:45	0.06	0.25	0.06	0.7
68	7/10/2020 13:00	1.25	20.75	0.35	12.6
69	7/16/2020 13:35	0.09	1.17	0.06	5.2
70	7/19/2020 16:10	0.62	0.67	0.62	3.1
71	7/22/2020 2:30	0.27	3.92	0.18	2.4
72	7/22/2020 21:15	0.04	0.33	0.04	0.6
73	7/23/2020 11:00	1.12	4.5	0.68	0.6
74	7/27/2020 13:55	1.91	12	1.09	3.9
75	7/29/2020 21:40	0.04	0.33	0.04	1.8
76	8/1/2020 9:15	1.01	30.67	0.65	2.5

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 13:35	0.11	1.67	0.08	0.9
78	8/4/2020 6:20	0.23	18.33	0.14	0.6
79	8/16/2020 11:05	0.98	2.92	0.74	11.4
80	8/26/2020 8:25	0.1	0.75	0.1	9.8
81	8/28/2020 7:55	2.88	21.25	0.79	1.9
82	9/2/2020 3:25	0.45	10.67	0.21	3.9
83	9/7/2020 6:05	3.95	7.33	1.31	4.7
84	9/13/2020 6:50	0.22	1.25	0.21	5.7
85	9/28/2020 15:10	1.58	13.67	0.72	15.3
86	9/30/2020 20:10	0.01	0.08	0.01	1.6
87	10/1/2020 12:45	0.71	16.08	0.24	0.7
88	10/4/2020 15:15	0.19	2.58	0.15	2.4
89	10/12/2020 22:10	0.62	3.42	0.51	8.2
90	10/15/2020 12:15	0.18	4.5	0.07	2.4
91	10/18/2020 13:10	0.09	0.5	0.09	2.9
92	10/19/2020 2:50	1	31.92	0.12	0.5
93	10/20/2020 23:40	2.58	8.33	0.87	0.5
94	10/22/2020 1:25	0.08	3.5	0.04	0.7
95	10/23/2020 17:30	0.47	7.42	0.22	1.5
96	10/26/2020 1:55	0.28	20.33	0.05	2
97	10/27/2020 14:45	0.32	15.58	0.06	0.7
98	10/29/2020 3:15	1.09	29.17	0.17	0.9
99	11/1/2020 7:25	0.12	12.75	0.08	2
100	11/11/2020 0:20	0.05	6.33	0.02	9.2
101	11/14/2020 23:45	0.39	13.58	0.12	3.7
102	11/17/2020 4:35	0.1	4.58	0.06	1.6
103	11/22/2020 7:15	0.79	11.33	0.16	4.9
104	11/24/2020 16:40	0.02	0.25	0.02	1.9
105	11/25/2020 10:25	0.48	20.92	0.14	0.7
106	11/27/2020 19:55	0.01	0.08	0.01	1.5
107	11/30/2020 4:35	2.35	39.92	0.14	2.4
108	12/5/2020 13:50	0.11	1.83	0.08	3.7
109	12/7/2020 5:15	0.01	0.08	0.01	1.6
110	12/12/2020 7:35	0.24	8.67	0.16	5.1
111	12/13/2020 5:10	0.04	2.58	0.02	0.5
112	12/16/2020 11:20	0.05	15.67	0.01	3.1
113	12/17/2020 15:10	0.08	18.75	0.02	0.5
114	12/19/2020 20:15	0.09	4.58	0.04	1.4

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/20/2020 14:05	0.02	1	0.02	0.6
116	12/21/2020 16:20	0.15	9.75	0.07	1.1
117	12/23/2020 18:45	0.57	39.33	0.08	1.7
118	12/26/2020 2:05	0.01	0.08	0.01	0.7
119	12/27/2020 22:10	0.09	4.08	0.04	1.8
120	12/28/2020 16:50	0.04	11.75	0.03	0.6
121	12/29/2020 23:35	0.04	0.67	0.04	0.8
122	12/30/2020 13:40	0.34	8.42	0.08	0.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.44	36.58	0.06	2.3
2	1/8/2020 7:15	0.01	0.08	0.01	3.5
3	1/10/2020 0:05	1.03	52.25	0.1	1.7
4	1/15/2020 18:25	0.06	1.08	0.05	3.6
5	1/18/2020 1:50	0.72	14.92	0.18	2.3
6	1/19/2020 21:55	0.02	1.58	0.01	1.2
7	1/24/2020 8:00	0.36	41.67	0.04	4.4
8	1/26/2020 18:05	0.02	0.92	0.02	0.7
9	1/28/2020 22:25	0.01	0.08	0.01	2.1
10	2/1/2020 19:55	0.03	10.33	0.02	3.9
11	2/4/2020 15:05	0.07	3	0.04	2.4
12	2/5/2020 18:55	0.24	4.67	0.11	1
13	2/6/2020 17:50	0.15	21.42	0.04	0.8
14	2/8/2020 16:15	0.02	0.33	0.02	1
15	2/9/2020 17:55	0.26	13.17	0.06	1.1
16	2/12/2020 19:50	0.42	22.33	0.1	2.5
17	2/17/2020 23:30	0.19	6.5	0.05	4.2
18	2/24/2020 20:40	0.19	6.92	0.07	6.6
19	2/25/2020 19:15	0.35	28.75	0.06	0.7
20	2/27/2020 17:15	0.01	0.08	0.01	0.7
21	3/2/2020 10:00	0.06	9	0.03	3.7
22	3/3/2020 11:15	0.29	7.83	0.16	0.7
23	3/4/2020 12:15	0.04	1.5	0.03	0.7
24	3/6/2020 8:35	0.06	6.08	0.02	1.8
25	3/10/2020 1:15	0.2	10.42	0.09	3.4
26	3/12/2020 23:45	0.25	2.08	0.16	2.5
27	3/16/2020 19:25	0.02	0.5	0.02	3.7
28	3/18/2020 15:10	0.98	8.58	0.23	1.8
29	3/19/2020 17:50	0.4	17.08	0.25	0.8
30	3/22/2020 19:50	0.2	12.92	0.07	2.4
31	3/26/2020 17:50	0.33	7.33	0.08	3.4
32	3/27/2020 22:50	2.45	35.5	0.59	0.9
33	3/30/2020 2:55	0.01	0.08	0.01	0.7
34	4/1/2020 7:35	0.01	0.08	0.01	2.2
35	4/7/2020 7:15	1.07	17.58	0.56	6
36	4/9/2020 0:00	0.29	20.42	0.09	1
37	4/12/2020 23:05	0.28	12.17	0.05	3.1
38	4/15/2020 15:15	0.2	20.75	0.07	2.2

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:30	0.36	7.92	0.07	0.9
40	4/19/2020 21:00	0.01	0.08	0.01	2.1
41	4/21/2020 2:10	0.08	1.42	0.05	1.2
42	4/22/2020 18:35	0.11	2.33	0.06	1.6
43	4/24/2020 0:20	0.07	2.08	0.05	1.1
44	4/26/2020 0:45	0.52	13.42	0.16	1.9
45	4/27/2020 23:05	0.02	0.5	0.02	1.4
46	4/28/2020 19:00	0.14	3.58	0.08	0.8
47	4/29/2020 21:10	0.24	14.33	0.13	0.9
48	5/1/2020 7:15	0.03	1	0.03	0.8
49	5/2/2020 19:55	0.07	0.67	0.07	1.5
50	5/10/2020 10:15	0.67	21.08	0.2	7.6
51	5/14/2020 9:30	2.11	32.83	0.62	3.1
52	5/17/2020 16:10	0.45	2.5	0.27	1.9
53	5/18/2020 7:40	1.39	21	0.43	0.5
54	5/22/2020 3:00	0.39	10.42	0.19	2.9
55	5/25/2020 16:30	0.02	0.25	0.02	3.1
56	5/28/2020 7:15	0.15	9.92	0.12	2.6
57	5/29/2020 13:20	0.43	3.33	0.26	0.8
58	6/1/2020 23:50	0.02	0.25	0.02	3.3
59	6/3/2020 6:40	0.02	0.17	0.02	1.3
60	6/10/2020 18:50	0.74	9.33	0.72	7.5
61	6/18/2020 14:55	0.12	5.58	0.09	7.4
62	6/21/2020 15:35	0.38	21.33	0.1	2.8
63	6/23/2020 6:35	0.61	5.25	0.57	0.7
64	6/26/2020 22:30	1.25	6.25	0.73	3.4
65	6/27/2020 21:50	0.06	0.17	0.06	0.7
66	7/10/2020 15:35	1.85	18	0.59	12.7
67	7/16/2020 14:55	0.06	0.17	0.06	5.2
68	7/19/2020 16:20	0.36	0.67	0.36	3.1
69	7/22/2020 2:40	0.19	3.17	0.12	2.4
70	7/23/2020 10:20	0.62	2.17	0.57	1.2
71	7/27/2020 12:55	1.26	13	0.44	4
72	7/29/2020 21:45	0.02	0.17	0.02	1.8
73	8/1/2020 12:15	0.63	27.67	0.41	2.6
74	8/3/2020 13:55	0.14	1.42	0.11	0.9
75	8/4/2020 5:55	0.72	15.58	0.48	0.6
76	8/16/2020 11:15	0.64	2.58	0.56	11.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2020 13:10	0.04	0.25	0.04	1
78	8/26/2020 9:30	0.27	2.08	0.16	8.8
79	8/28/2020 8:10	2.45	21	0.93	1.9
80	9/2/2020 3:15	0.45	8.92	0.33	3.9
81	9/7/2020 6:05	3.81	6.83	1.46	4.7
82	9/13/2020 6:40	0.34	1.25	0.33	5.7
83	9/28/2020 15:40	1.67	8.67	0.67	15.3
84	9/30/2020 19:05	0.03	0.5	0.03	1.8
85	10/1/2020 12:50	0.58	16.25	0.17	0.7
86	10/2/2020 23:20	0.02	2.58	0.01	0.8
87	10/4/2020 15:35	0.23	3	0.14	1.6
88	10/10/2020 19:35	0.03	0.25	0.03	6
89	10/12/2020 22:20	0.63	3.42	0.4	2.1
90	10/15/2020 12:15	0.16	4.67	0.06	2.4
91	10/18/2020 13:25	0.07	0.83	0.07	2.9
92	10/19/2020 3:00	1	32.08	0.12	0.5
93	10/20/2020 23:55	2.58	10.75	0.97	0.5
94	10/22/2020 2:05	0.25	2.92	0.18	0.6
95	10/23/2020 17:10	0.41	7.75	0.15	1.5
96	10/26/2020 2:10	0.38	19.17	0.07	2.1
97	10/27/2020 14:50	0.29	13	0.06	0.7
98	10/29/2020 3:10	0.88	32.58	0.1	1
99	11/1/2020 7:20	0.11	5.58	0.08	1.8
100	11/11/2020 0:20	0.05	5	0.03	9.5
101	11/15/2020 0:10	0.32	13.08	0.09	3.8
102	11/17/2020 4:25	0.12	4.5	0.07	1.6
103	11/22/2020 7:15	0.75	11.5	0.14	4.9
104	11/23/2020 7:00	0.01	0.08	0.01	0.5
105	11/24/2020 17:00	0.03	0.42	0.03	1.4
106	11/25/2020 10:50	0.51	18.42	0.11	0.7
107	11/30/2020 4:40	2.35	38.5	0.16	4
108	12/5/2020 14:20	0.01	0.08	0.01	3.8
109	12/12/2020 7:50	0.27	8.67	0.18	6.7
110	12/13/2020 4:55	0.04	5.67	0.02	0.5
111	12/16/2020 13:15	0.03	12.33	0.01	3.1
112	12/17/2020 15:55	0.16	21.17	0.04	0.6
113	12/19/2020 22:35	0.11	2.58	0.05	1.4
114	12/20/2020 15:35	0.01	0.08	0.01	0.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/21/2020 20:15	0.07	6.25	0.05	1.2
116	12/23/2020 19:10	0.76	40.5	0.09	1.7
117	12/26/2020 2:45	0.01	0.08	0.01	0.6
118	12/27/2020 22:25	0.14	4	0.06	1.8
119	12/29/2020 7:20	0.01	0.08	0.01	1.2
120	12/29/2020 23:55	0.02	0.25	0.02	0.7
121	12/30/2020 13:55	0.28	7.58	0.08	0.6

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:45	0.41	43.75	0.07	2.3
2	1/8/2020 7:00	0.02	0.17	0.02	3.2
3	1/9/2020 23:35	1.07	52.5	0.14	1.7
4	1/15/2020 18:05	0.08	3.58	0.06	3.6
5	1/18/2020 1:50	0.71	23.58	0.21	2.2
6	1/19/2020 21:25	0.02	0.67	0.02	0.8
7	1/24/2020 8:05	0.47	40.42	0.07	4.4
8	1/26/2020 17:05	0.03	0.75	0.03	0.7
9	1/28/2020 20:15	0.02	1.58	0.01	2.1
10	2/1/2020 18:15	0.04	11.33	0.01	3.9
11	2/4/2020 15:05	0.08	3.67	0.04	2.4
12	2/5/2020 19:00	0.4	44.17	0.13	1
13	2/8/2020 16:35	0.01	0.08	0.01	1.1
14	2/9/2020 18:05	0.26	13.42	0.07	1.1
15	2/12/2020 20:00	0.42	21.92	0.09	2.5
16	2/17/2020 23:25	0.18	6	0.06	4.2
17	2/24/2020 20:25	0.21	5.42	0.08	6.6
18	2/25/2020 19:10	0.4	29.75	0.07	0.7
19	2/27/2020 17:10	0.01	0.08	0.01	0.7
20	3/2/2020 10:05	0.37	32.58	0.12	3.7
21	3/4/2020 11:55	0.04	1.75	0.02	0.7
22	3/6/2020 8:25	0.06	6.08	0.02	1.8
23	3/10/2020 1:05	0.25	10.58	0.11	3.4
24	3/12/2020 21:45	0.33	4.83	0.2	2.4
25	3/16/2020 19:10	0.02	0.67	0.02	3.7
26	3/18/2020 14:55	1.07	8.75	0.22	1.8
27	3/19/2020 18:10	0.31	12.75	0.18	0.8
28	3/22/2020 20:05	0.24	14.42	0.09	2.5
29	3/26/2020 17:45	0.39	7.25	0.08	3.3
30	3/27/2020 22:40	2.66	35.92	0.7	0.9
31	3/30/2020 2:30	0.04	2.58	0.03	0.7
32	4/1/2020 7:20	0.04	0.5	0.04	2.1
33	4/7/2020 6:50	1.07	18.08	0.55	6
34	4/9/2020 0:00	0.26	20.25	0.08	1
35	4/10/2020 19:05	0.01	0.08	0.01	1
36	4/12/2020 5:50	0.01	0.08	0.01	1.4
37	4/12/2020 23:00	0.27	12	0.07	0.7
38	4/15/2020 14:50	0.25	16.92	0.09	2.2

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:20	0.42	8	0.08	1.1
40	4/19/2020 21:15	0.01	0.08	0.01	2.1
41	4/21/2020 2:05	0.11	1.83	0.07	1.2
42	4/22/2020 18:30	0.13	6.17	0.06	1.6
43	4/24/2020 0:25	0.06	1.67	0.05	1
44	4/26/2020 0:50	0.55	13.25	0.17	1.9
45	4/27/2020 22:30	0.04	2.75	0.03	1.4
46	4/28/2020 19:30	0.06	2.75	0.03	0.8
47	4/29/2020 18:10	0.19	17.17	0.04	0.8
48	5/2/2020 20:20	0.08	0.17	0.08	2.4
49	5/10/2020 17:15	0.65	13.42	0.24	7.9
50	5/14/2020 9:25	2.17	39.08	0.47	3.1
51	5/17/2020 16:15	0.4	2	0.33	1.7
52	5/18/2020 7:20	1.49	22.58	0.39	0.5
53	5/22/2020 2:45	0.44	10.25	0.2	2.9
54	5/28/2020 5:35	0.14	8.42	0.11	5.7
55	5/29/2020 14:15	0.47	2.33	0.3	1
56	6/1/2020 23:30	0.05	3.08	0.04	3.3
57	6/3/2020 6:35	0.02	0.42	0.02	1.2
58	6/10/2020 18:45	0.52	1.08	0.51	7.5
59	6/21/2020 22:10	0.47	15.33	0.13	11.1
60	6/23/2020 6:30	0.86	5.08	0.79	0.7
61	6/26/2020 22:25	1.46	6.58	0.89	3.5
62	6/27/2020 21:45	0.06	0.17	0.06	0.7
63	7/10/2020 20:25	1.37	11.08	0.68	12.9
64	7/16/2020 13:50	0.12	1.25	0.11	5.3
65	7/19/2020 12:45	0.25	4.17	0.22	2.9
66	7/22/2020 2:35	0.25	2.92	0.17	2.4
67	7/23/2020 10:05	0.19	0.42	0.19	1.2
68	7/27/2020 12:10	1.02	13.58	0.36	4.1
69	7/29/2020 21:50	0.01	0.08	0.01	1.8
70	8/1/2020 11:00	0.5	28.83	0.18	2.5
71	8/3/2020 12:20	0.18	3.17	0.12	0.9
72	8/4/2020 6:20	0.06	15.08	0.03	0.6
73	8/16/2020 11:10	0.82	2.5	0.7	11.6
74	8/17/2020 13:05	0.11	1.5	0.08	1
75	8/24/2020 16:30	0.01	0.08	0.01	7.1
76	8/26/2020 9:15	0.24	2.25	0.15	1.7

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/28/2020 8:05	2.38	21.08	0.64	1.9
78	9/2/2020 3:25	0.27	8.75	0.2	3.9
79	9/7/2020 5:55	3.47	7.17	1.48	4.7
80	9/13/2020 6:40	0.34	1.42	0.33	5.7
81	9/28/2020 16:00	1.54	7.83	0.62	15.3
82	9/30/2020 19:00	0.04	0.5	0.04	1.8
83	10/1/2020 14:00	0.6	14.92	0.32	0.8
84	10/2/2020 23:05	0.04	1.17	0.03	0.8
85	10/4/2020 15:15	0.19	2.75	0.13	1.6
86	10/10/2020 19:30	0.05	0.92	0.05	6.1
87	10/12/2020 22:15	0.69	3.42	0.57	2.1
88	10/15/2020 12:20	0.17	4.83	0.06	2.4
89	10/18/2020 13:20	0.04	0.33	0.04	2.8
90	10/19/2020 2:55	1.07	31.67	0.14	0.6
91	10/20/2020 23:45	2.71	10.83	1.1	0.5
92	10/22/2020 1:55	0.37	3	0.23	0.6
93	10/23/2020 16:40	0.7	8.42	0.3	1.5
94	10/26/2020 2:05	0.34	19.25	0.06	2
95	10/27/2020 14:50	0.29	13.08	0.06	0.7
96	10/29/2020 3:15	0.79	33.58	0.12	1
97	11/1/2020 6:50	0.14	7.5	0.1	1.8
98	11/11/2020 2:00	0.05	5.33	0.03	9.5
99	11/15/2020 0:05	0.38	13.25	0.11	3.7
100	11/17/2020 4:30	0.12	3.42	0.08	1.6
101	11/22/2020 7:25	0.84	11.42	0.17	5
102	11/24/2020 16:50	0.03	0.33	0.03	1.9
103	11/25/2020 10:25	0.6	18.67	0.2	0.7
104	11/28/2020 6:05	0.01	0.08	0.01	2
105	11/30/2020 5:05	2.12	38.25	0.14	2
106	12/5/2020 14:10	0.01	0.08	0.01	3.8
107	12/11/2020 10:40	0.01	0.08	0.01	5.9
108	12/12/2020 7:50	0.25	8.5	0.16	0.9
109	12/13/2020 4:50	0.02	2.67	0.01	0.5
110	12/16/2020 11:25	0.25	47.5	0.04	3.2
111	12/19/2020 15:20	0.16	9.92	0.06	1.2
112	12/20/2020 15:10	0.02	0.58	0.02	0.6
113	12/21/2020 17:10	0.09	9.25	0.06	1.1
114	12/23/2020 18:55	0.82	41.58	0.1	1.7

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/26/2020 2:20	0.01	0.08	0.01	0.6
116	12/27/2020 22:15	0.16	4.33	0.07	1.8
117	12/29/2020 23:45	0.03	0.58	0.03	1.9
118	12/30/2020 13:45	0.34	7.75	0.1	0.6

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 7:05	0.24	35.25	0.05	2.3
2	1/8/2020 0:50	0.02	5.67	0.01	3.3
3	1/9/2020 23:40	0.95	52.75	0.12	1.7
4	1/15/2020 18:20	0.05	3.42	0.03	3.6
5	1/16/2020 12:30	0.02	0.25	0.02	0.6
6	1/18/2020 2:05	0.68	15	0.15	1.6
7	1/20/2020 10:45	0.01	0.08	0.01	1.7
8	1/24/2020 8:25	0.39	37.92	0.06	3.9
9	1/26/2020 16:50	0.06	7.83	0.03	0.8
10	1/28/2020 19:35	0.01	0.08	0.01	1.8
11	2/1/2020 19:05	0.05	10.83	0.02	4
12	2/4/2020 16:05	0.04	1.67	0.03	2.4
13	2/5/2020 18:45	0.27	13	0.13	1
14	2/7/2020 6:05	0.05	8.33	0.02	0.9
15	2/8/2020 17:00	0.01	0.08	0.01	1.1
16	2/9/2020 18:00	0.28	13.67	0.09	1
17	2/12/2020 20:10	0.28	21.5	0.07	2.5
18	2/17/2020 23:40	0.16	6.08	0.05	4.3
19	2/24/2020 21:05	0.18	4.42	0.08	6.6
20	2/25/2020 19:25	0.28	29.42	0.05	0.7
21	3/2/2020 8:20	0.15	10.58	0.05	4.3
22	3/3/2020 11:20	0.32	7.5	0.15	0.7
23	3/4/2020 12:40	0.02	0.83	0.02	0.7
24	3/10/2020 1:30	0.2	9.08	0.13	5.5
25	3/12/2020 23:45	0.24	2.58	0.14	2.5
26	3/16/2020 17:50	0.06	2.58	0.03	3.6
27	3/18/2020 15:30	0.92	6.58	0.21	1.8
28	3/19/2020 17:45	0.27	12.75	0.17	0.8
29	3/22/2020 20:30	0.18	12.17	0.08	2.6
30	3/26/2020 17:50	0.39	6.67	0.08	3.4
31	3/27/2020 23:15	2.34	35.08	0.46	0.9
32	3/30/2020 5:25	0.01	0.08	0.01	0.8
33	4/1/2020 6:55	0.02	0.42	0.02	2.1
34	4/7/2020 8:35	0.81	53.33	0.35	6.1
35	4/12/2020 5:30	0.01	0.75	0.01	2.6
36	4/12/2020 22:25	0.24	11.25	0.08	0.7
37	4/14/2020 19:10	0.05	7.08	0.04	1.4
38	4/15/2020 15:50	0.17	11	0.11	0.6

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 7:05	0.14	11.5	0.07	1.2
40	4/21/2020 2:00	0.12	7.75	0.09	3.3
41	4/22/2020 16:15	0.09	8.67	0.03	1.3
42	4/24/2020 1:35	0.02	0.67	0.02	1
43	4/25/2020 21:20	0.31	15.83	0.12	1.8
44	4/27/2020 21:35	0.11	7.17	0.06	1.4
45	4/28/2020 19:40	0.04	3.08	0.03	0.6
46	4/29/2020 11:20	0.41	31.17	0.26	0.5
47	5/6/2020 1:00	0.02	1.33	0.01	5.3
48	5/10/2020 10:25	0.59	20.75	0.17	4.3
49	5/14/2020 9:15	1.81	40.75	0.5	3.1
50	5/17/2020 16:25	0.4	2.58	0.25	1.6
51	5/18/2020 8:15	0.75	21	0.13	0.6
52	5/22/2020 8:25	0.42	4.92	0.26	3.1
53	5/25/2020 17:05	0.04	0.5	0.04	3.2
54	5/28/2020 7:30	0.12	7.25	0.09	2.6
55	5/29/2020 13:20	0.36	3.33	0.2	0.9
56	6/1/2020 23:55	0.02	2.67	0.01	3.3
57	6/10/2020 19:00	0.82	1.92	0.8	8.7
58	6/21/2020 22:35	0.25	14.33	0.13	11.1
59	6/23/2020 6:40	1.11	5.17	1.06	0.7
60	6/26/2020 22:35	1.01	5.83	0.47	3.4
61	6/27/2020 21:35	0.11	0.5	0.11	0.7
62	7/10/2020 12:05	3.86	19.17	1.25	12.6
63	7/16/2020 14:05	0.04	0.92	0.04	5.3
64	7/19/2020 13:00	0.54	4	0.3	2.9
65	7/22/2020 2:50	0.23	9.08	0.14	2.4
66	7/27/2020 15:50	0.28	9.58	0.16	5.2
67	7/29/2020 19:30	0.06	4.67	0.05	1.8
68	8/1/2020 12:35	0.56	28.25	0.23	2.5
69	8/3/2020 12:35	0.7	3	0.6	0.8
70	8/4/2020 5:40	0.37	11.17	0.25	0.6
71	8/5/2020 6:00	0.01	0.08	0.01	0.5
72	8/16/2020 11:20	0.57	4.67	0.5	11.2
73	8/17/2020 14:55	0.01	0.08	0.01	1
74	8/26/2020 8:30	0.46	3.33	0.36	8.7
75	8/28/2020 7:00	1.74	22.17	0.56	1.8
76	9/2/2020 3:30	0.11	8.58	0.06	3.9

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/7/2020 5:50	2.02	5.92	0.76	4.7
78	9/13/2020 7:35	0.21	0.67	0.21	5.8
79	9/28/2020 15:50	1.69	7.75	0.61	15.3
80	9/30/2020 18:50	0.05	0.42	0.05	1.8
81	10/1/2020 14:20	0.35	12.67	0.16	0.8
82	10/2/2020 23:30	0.04	2.33	0.03	0.9
83	10/4/2020 15:35	0.17	2.42	0.13	1.6
84	10/10/2020 19:20	0.1	0.17	0.1	6.1
85	10/12/2020 22:25	0.61	2.25	0.42	2.1
86	10/15/2020 12:25	0.17	14.17	0.06	2.5
87	10/18/2020 13:25	0.1	0.58	0.1	2.5
88	10/19/2020 2:50	0.96	31.08	0.22	0.5
89	10/20/2020 23:45	2.5	10.58	1.29	0.6
90	10/22/2020 2:05	0.52	3.08	0.21	0.7
91	10/23/2020 16:45	0.62	7.5	0.27	1.5
92	10/26/2020 2:20	0.21	17.58	0.05	2.1
93	10/27/2020 14:40	0.23	15.83	0.06	0.8
94	10/29/2020 4:10	0.75	32.17	0.14	0.9
95	11/1/2020 7:40	0.11	11.58	0.08	1.8
96	11/10/2020 12:00	0.01	0.08	0.01	8.7
97	11/11/2020 2:05	0.08	5.17	0.05	0.6
98	11/15/2020 0:20	0.36	13.17	0.09	3.7
99	11/17/2020 4:40	0.03	7.33	0.01	1.6
100	11/22/2020 7:30	0.73	11.42	0.14	4.8
101	11/23/2020 6:55	0.04	4.17	0.03	0.5
102	11/24/2020 17:20	0.01	0.08	0.01	1.3
103	11/25/2020 10:45	0.71	20	0.12	0.7
104	11/30/2020 4:45	1.93	39.08	0.16	3.9
105	12/12/2020 7:25	0.26	9.17	0.15	10.5
106	12/13/2020 6:55	0.01	0.08	0.01	0.6
107	12/17/2020 1:05	0.01	0.08	0.01	3.8
108	12/17/2020 17:40	0.01	0.08	0.01	0.7
109	12/18/2020 11:30	0.02	1.33	0.01	0.7
110	12/19/2020 17:40	0.2	12.42	0.07	1.2
111	12/21/2020 17:25	0.07	4.17	0.05	1.5
112	12/23/2020 19:05	0.58	40.08	0.09	1.9
113	12/26/2020 2:25	0.01	0.08	0.01	0.6
114	12/27/2020 22:25	0.13	4	0.08	1.8

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/28/2020 15:55	0.01	0.08	0.01	0.6
116	12/30/2020 0:05	0.02	0.42	0.02	1.3
117	12/30/2020 14:25	0.31	7.25	0.11	0.6

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:30	0.54	39.83	0.06	2.2
2	1/5/2020 22:10	0.01	0.08	0.01	1.1
3	1/10/2020 0:40	1.2	51.83	0.13	4.1
4	1/15/2020 18:00	0.1	3.33	0.09	3.6
5	1/16/2020 10:35	0.01	0.08	0.01	0.6
6	1/18/2020 1:45	0.61	15.25	0.16	1.6
7	1/19/2020 23:05	0.05	6.25	0.03	1.3
8	1/24/2020 10:00	0.62	33.08	0.1	4.2
9	1/26/2020 17:25	0.01	0.08	0.01	0.9
10	1/28/2020 10:45	0.03	5.58	0.02	1.7
11	2/1/2020 19:30	0.03	1.67	0.02	4.1
12	2/4/2020 14:45	0.19	4.75	0.07	2.7
13	2/5/2020 20:15	0.53	43.58	0.12	1
14	2/9/2020 18:00	0.25	13.67	0.06	2.1
15	2/12/2020 19:30	0.39	22.42	0.09	2.5
16	2/17/2020 23:20	0.29	5.42	0.07	4.2
17	2/24/2020 20:35	0.19	4.33	0.06	6.7
18	2/25/2020 17:20	0.24	7.83	0.08	0.7
19	2/26/2020 13:30	0.17	12.83	0.03	0.5
20	2/29/2020 2:15	0.02	1.33	0.01	2
21	3/2/2020 9:55	0.12	8.75	0.04	2.3
22	3/3/2020 11:15	0.33	7.58	0.14	0.7
23	3/4/2020 12:25	0.05	1.83	0.04	0.7
24	3/6/2020 7:05	0.12	15.58	0.04	1.7
25	3/10/2020 1:15	0.28	11.25	0.08	3.1
26	3/12/2020 23:55	0.31	2.5	0.23	2.5
27	3/16/2020 18:15	0.05	11.67	0.03	3.7
28	3/18/2020 15:10	1.29	6.83	0.32	1.4
29	3/19/2020 17:30	0.22	18.92	0.09	0.8
30	3/22/2020 20:05	0.18	15.92	0.06	2.3
31	3/26/2020 18:50	0.35	6.75	0.12	3.3
32	3/27/2020 22:30	3.17	35.92	1.24	0.9
33	3/30/2020 11:00	0.06	7.67	0.03	1
34	4/1/2020 7:25	0.04	1.08	0.03	1.5
35	4/7/2020 6:10	0.19	2.83	0.12	5.9
36	4/7/2020 22:30	0.9	4.92	0.62	0.6
37	4/9/2020 5:05	0.23	11.58	0.08	1.1

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/12/2020 22:30	0.56	13	0.17	3.2
39	4/15/2020 14:20	0.22	11.17	0.06	2.1
40	4/17/2020 10:20	0.41	8.5	0.08	1.4
41	4/19/2020 21:30	0.01	0.08	0.01	2.1
42	4/21/2020 2:25	0.1	1.33	0.06	1.2
43	4/22/2020 18:25	0.12	3.42	0.06	1.6
44	4/23/2020 21:05	0.15	9.33	0.07	1
45	4/26/2020 0:25	0.63	13.08	0.16	1.8
46	4/27/2020 22:40	0.05	3.5	0.04	1.4
47	4/28/2020 18:50	0.28	3.17	0.26	0.7
48	4/29/2020 17:30	0.44	39.08	0.18	0.8
49	5/2/2020 21:05	0.32	0.67	0.32	1.5
50	5/10/2020 10:15	0.6	20.75	0.29	7.5
51	5/14/2020 9:20	3.15	42.83	0.91	3.1
52	5/17/2020 8:10	0.38	10.08	0.26	1.2
53	5/18/2020 7:45	1.29	22.17	0.4	0.6
54	5/22/2020 2:25	0.42	9.75	0.21	2.9
55	5/25/2020 16:55	0.01	0.08	0.01	3.2
56	5/28/2020 4:25	0.21	9.33	0.13	2.5
57	5/29/2020 12:10	0.34	10.83	0.22	0.9
58	6/1/2020 23:40	0.05	1.33	0.04	3
59	6/4/2020 14:35	0.01	0.08	0.01	2.6
60	6/10/2020 19:00	0.28	1.25	0.26	6.2
61	6/13/2020 0:10	0.05	0.42	0.05	2.2
62	6/18/2020 19:05	1.03	11.5	1.02	5.8
63	6/21/2020 15:25	0.48	21.25	0.23	2.4
64	6/23/2020 6:30	0.46	5.25	0.37	0.7
65	6/26/2020 22:15	0.33	6.58	0.17	3.4
66	7/7/2020 12:20	0.01	0.08	0.01	10.3
67	7/8/2020 14:40	0.02	0.17	0.02	1.1
68	7/11/2020 0:10	0.66	9.83	0.19	2.4
69	7/19/2020 16:40	0.31	3.08	0.3	8.3
70	7/22/2020 2:10	0.8	3.17	0.59	2.3
71	7/22/2020 21:45	0.01	0.08	0.01	0.7
72	7/23/2020 12:15	0.31	0.67	0.31	0.6
73	7/24/2020 7:10	0.01	0.08	0.01	0.8
74	7/27/2020 14:35	1.84	11.67	1.07	3.3

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	8/1/2020 10:50	0.96	29.42	0.65	4.4
76	8/3/2020 5:55	1.26	10.5	1.02	0.6
77	8/4/2020 6:25	0.22	5.25	0.16	0.6
78	8/16/2020 11:25	0.49	2.67	0.3	12
79	8/17/2020 13:45	0.33	0.25	0.33	1
80	8/26/2020 8:55	0.07	0.75	0.07	8.8
81	8/28/2020 8:20	4.03	21	2.03	1.9
82	9/2/2020 4:05	0.1	4.58	0.03	3.9
83	9/7/2020 6:20	3.63	7	1.22	4.9
84	9/13/2020 7:10	0.27	1.25	0.24	5.7
85	9/28/2020 16:20	1.69	7.25	0.93	15.3
86	9/30/2020 20:00	0.03	2	0.02	1.9
87	10/1/2020 13:05	0.85	18.42	0.26	0.6
88	10/4/2020 16:10	0.24	8.92	0.15	2.4
89	10/12/2020 22:20	0.77	3.92	0.62	7.9
90	10/15/2020 12:15	0.16	5.42	0.05	2.4
91	10/18/2020 12:35	0.05	1.33	0.04	2.8
92	10/19/2020 2:45	0.85	31.25	0.1	0.5
93	10/20/2020 23:40	1.45	8.5	0.41	0.6
94	10/22/2020 0:55	0.14	4.83	0.11	0.7
95	10/23/2020 16:55	0.81	8.17	0.5	1.5
96	10/26/2020 1:50	0.25	24.17	0.04	2
97	10/27/2020 14:35	0.32	16	0.06	0.5
98	10/29/2020 3:45	1.14	25.92	0.29	0.9
99	11/1/2020 7:40	0.09	7	0.08	2.1
100	11/11/2020 2:05	0.07	5.33	0.03	9.5
101	11/15/2020 0:20	0.25	22.5	0.08	3.7
102	11/17/2020 4:45	0.18	5.5	0.07	1.2
103	11/22/2020 7:15	0.63	11.75	0.14	4.9
104	11/23/2020 7:05	0.01	0.08	0.01	0.5
105	11/24/2020 16:50	0.01	0.08	0.01	1.4
106	11/25/2020 9:55	0.63	19.83	0.15	0.7
107	11/27/2020 20:05	0.02	0.33	0.02	1.6
108	11/30/2020 5:25	2.36	57.42	0.11	2.4
109	12/5/2020 14:10	0.08	2.17	0.05	3
110	12/12/2020 7:45	0.25	9.5	0.13	6.6
111	12/13/2020 5:30	0.03	5.83	0.01	0.5

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	12/16/2020 11:45	0.1	43	0.02	3
113	12/19/2020 18:25	0.17	11.67	0.06	1.5
114	12/21/2020 18:40	0.17	7.83	0.08	1.5
115	12/23/2020 18:45	0.36	37.92	0.05	1.7
116	12/26/2020 2:20	0.01	0.08	0.01	0.7
117	12/27/2020 22:40	0.11	3.75	0.06	1.8
118	12/28/2020 17:20	0.03	12.17	0.02	0.6
119	12/29/2020 23:50	0.01	0.08	0.01	0.8
120	12/30/2020 14:00	0.4	8.33	0.12	0.6

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:50	0.37	44.92	0.05	2.2
2	1/8/2020 7:30	0.01	0.08	0.01	3.2
3	1/10/2020 0:55	0.94	48.5	0.11	1.7
4	1/15/2020 18:05	0.06	1.17	0.05	3.7
5	1/16/2020 10:00	0.01	0.08	0.01	0.6
6	1/18/2020 1:40	0.52	25.83	0.13	1.6
7	1/19/2020 21:45	0.1	4.08	0.05	0.8
8	1/24/2020 7:45	0.47	40.92	0.09	4.2
9	1/26/2020 17:30	0.01	0.08	0.01	0.7
10	1/28/2020 15:30	0.01	0.08	0.01	1.9
11	2/1/2020 19:30	0.01	0.08	0.01	4.2
12	2/2/2020 12:40	0.01	0.08	0.01	0.7
13	2/4/2020 14:55	0.09	3.75	0.05	2.1
14	2/5/2020 19:15	0.22	3.92	0.1	1
15	2/6/2020 18:15	0.13	20.58	0.03	0.8
16	2/8/2020 15:55	0.02	0.67	0.02	1
17	2/9/2020 18:35	0.19	12.58	0.06	1.1
18	2/12/2020 19:40	0.32	22.17	0.07	2.5
19	2/17/2020 23:25	0.16	4.92	0.06	4.2
20	2/24/2020 20:05	0.19	4.83	0.08	6.7
21	2/25/2020 18:45	0.4	34.25	0.04	0.7
22	2/29/2020 0:40	0.04	3.08	0.02	1.8
23	3/2/2020 8:00	0.05	10.92	0.02	2.2
24	3/3/2020 7:35	0.29	11.17	0.14	0.5
25	3/4/2020 12:15	0.03	0.58	0.03	0.7
26	3/6/2020 7:00	0.05	6.17	0.02	1.8
27	3/10/2020 0:55	0.28	10.92	0.12	3.5
28	3/12/2020 23:20	0.28	2.17	0.21	2.5
29	3/16/2020 19:25	0.01	0.08	0.01	3.7
30	3/18/2020 15:10	1.09	8.67	0.28	1.8
31	3/19/2020 17:35	0.33	17.25	0.11	0.7
32	3/22/2020 20:05	0.17	15.17	0.06	2.4
33	3/26/2020 18:50	0.32	6.42	0.09	3.3
34	3/27/2020 22:40	3.13	35.5	0.83	0.9
35	3/30/2020 4:55	0.01	0.08	0.01	0.8
36	3/30/2020 17:50	0.02	0.25	0.02	0.5
37	4/1/2020 7:40	0.01	0.08	0.01	1.6
38	4/7/2020 6:10	1.13	22.67	0.53	5.9

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 4:45	0.25	9.08	0.08	1
40	4/12/2020 5:40	0.33	29.5	0.07	2.7
41	4/15/2020 14:40	0.22	11.75	0.06	2.1
42	4/17/2020 10:05	0.32	8.25	0.07	1.3
43	4/19/2020 20:40	0.03	0.5	0.03	2.1
44	4/21/2020 2:10	0.09	1.5	0.05	1.2
45	4/22/2020 18:25	0.1	2.08	0.05	1.6
46	4/23/2020 23:45	0.1	5.83	0.06	1.1
47	4/26/2020 0:35	0.52	12.75	0.17	1.8
48	4/27/2020 22:40	0.04	3.25	0.03	1.4
49	4/28/2020 18:50	0.24	3.33	0.14	0.7
50	4/29/2020 17:55	0.19	17.25	0.06	0.8
51	5/1/2020 5:45	0.04	2	0.03	0.8
52	5/2/2020 21:05	0.03	0.17	0.03	1.6
53	5/9/2020 4:50	0.01	0.08	0.01	6.3
54	5/10/2020 10:15	0.65	20.42	0.24	1.2
55	5/11/2020 19:05	0.01	0.08	0.01	0.5
56	5/14/2020 9:20	2.97	34.33	1.17	2.6
57	5/17/2020 16:05	0.66	2.42	0.53	1.9
58	5/18/2020 7:35	1.44	22.42	0.36	0.5
59	5/22/2020 2:45	0.45	9.92	0.23	2.9
60	5/28/2020 5:35	0.15	8.17	0.11	5.7
61	5/29/2020 13:00	0.4	3.67	0.2	1
62	6/1/2020 23:35	0.04	0.58	0.04	3.3
63	6/3/2020 6:45	0.01	0.08	0.01	1.3
64	6/10/2020 18:45	0.65	9.5	0.63	7.5
65	6/13/2020 0:05	0.05	0.17	0.05	1.8
66	6/18/2020 19:25	0.26	0.25	0.26	5.8
67	6/21/2020 15:20	0.64	21.42	0.2	2.8
68	6/23/2020 6:35	0.63	5	0.58	0.7
69	6/26/2020 22:15	0.61	6.5	0.33	3.4
70	6/27/2020 21:50	0.04	0.17	0.04	0.7
71	7/10/2020 18:10	0.93	15.67	0.33	12.8
72	7/19/2020 16:15	0.63	0.67	0.63	8.3
73	7/22/2020 2:30	0.24	3.58	0.14	2.4
74	7/23/2020 10:45	0.78	3.25	0.42	1.2
75	7/27/2020 14:00	1.44	12	0.67	4
76	7/29/2020 21:45	0.05	0.25	0.05	1.8

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/1/2020 10:35	0.77	29.42	0.47	2.5
78	8/3/2020 4:40	0.26	10.75	0.19	0.5
79	8/4/2020 6:35	0.16	19.75	0.13	0.6
80	8/16/2020 11:10	0.87	2.75	0.65	11.4
81	8/17/2020 12:55	0.03	0.08	0.03	1
82	8/26/2020 8:35	0.12	2.42	0.11	8.8
83	8/28/2020 8:00	2.88	21.33	1.07	1.9
84	9/2/2020 3:40	0.49	8.58	0.3	3.9
85	9/7/2020 6:05	3.67	6.83	1.17	4.7
86	9/13/2020 7:00	0.31	4.17	0.3	5.8
87	9/28/2020 15:50	1.74	8	0.72	15.2
88	9/30/2020 20:15	0.01	0.08	0.01	1.9
89	10/1/2020 12:50	0.76	18.58	0.22	0.7
90	10/4/2020 15:20	0.23	4.42	0.15	2.3
91	10/10/2020 19:55	0.02	0.58	0.02	6
92	10/12/2020 22:15	0.71	3.58	0.48	2.1
93	10/15/2020 12:10	0.19	4.67	0.07	2.4
94	10/18/2020 12:45	0.09	0.92	0.09	2.8
95	10/19/2020 2:55	0.97	31.83	0.14	0.6
96	10/20/2020 23:40	2.07	30.75	0.68	0.5
97	10/23/2020 17:40	0.53	7.42	0.28	1.5
98	10/26/2020 2:10	0.28	18.83	0.04	2
99	10/27/2020 14:45	0.32	23.42	0.06	0.7
100	10/29/2020 3:40	1.13	26.25	0.15	0.6
101	11/1/2020 7:30	0.15	13	0.08	2.1
102	11/11/2020 2:00	0.05	4.5	0.03	9.2
103	11/15/2020 0:05	0.32	13.25	0.1	3.7
104	11/17/2020 4:40	0.16	4.92	0.1	1.6
105	11/22/2020 7:15	0.73	11.58	0.16	4.9
106	11/23/2020 7:00	0.01	0.08	0.01	0.5
107	11/25/2020 10:30	0.48	22.25	0.11	2.1
108	11/27/2020 20:05	0.01	0.08	0.01	1.5
109	11/30/2020 2:55	2.46	40.83	0.13	2.3
110	12/5/2020 14:10	0.03	0.67	0.03	3.8
111	12/12/2020 7:45	0.29	9.42	0.21	6.7
112	12/13/2020 6:50	0.02	4.17	0.01	0.6
113	12/16/2020 13:20	0.1	45.67	0.02	3.1
114	12/19/2020 22:40	0.09	3.42	0.04	1.5

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/21/2020 20:30	0.11	5.75	0.06	1.8
116	12/23/2020 19:10	0.51	39.92	0.07	1.7
117	12/27/2020 22:20	0.09	4.67	0.04	2.5
118	12/28/2020 17:10	0.03	11.5	0.01	0.6
119	12/29/2020 23:45	0.02	0.33	0.02	0.8
120	12/30/2020 14:10	0.31	8.08	0.09	0.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:45	0.44	43.92	0.06	2.3
2	1/8/2020 7:15	0.03	0.67	0.03	3.2
3	1/10/2020 0:55	1.14	52.5	0.13	1.7
4	1/15/2020 18:15	0.06	1.25	0.05	3.5
5	1/16/2020 10:35	0.01	0.08	0.01	0.6
6	1/18/2020 1:50	0.83	23.58	0.19	1.6
7	1/19/2020 21:35	0.07	3.92	0.03	0.8
8	1/24/2020 7:30	0.62	40.92	0.09	4.3
9	1/26/2020 17:05	0.03	0.83	0.03	0.7
10	2/1/2020 18:30	0.04	11.17	0.02	6
11	2/4/2020 14:55	0.11	4.75	0.05	2.4
12	2/5/2020 19:10	0.26	4.08	0.12	1
13	2/6/2020 17:45	0.2	22.92	0.04	0.8
14	2/8/2020 16:10	0.03	0.75	0.03	1
15	2/9/2020 17:55	0.29	13.5	0.07	1
16	2/12/2020 19:50	0.43	32.5	0.09	2.5
17	2/17/2020 23:25	0.23	6.83	0.07	3.8
18	2/24/2020 19:40	0.2	6	0.07	6.6
19	2/25/2020 18:55	0.15	5.75	0.05	0.7
20	2/26/2020 13:35	0.34	13.25	0.06	0.5
21	2/27/2020 21:50	0.03	0.33	0.03	0.8
22	2/28/2020 23:45	0.04	4.17	0.01	1.1
23	3/2/2020 9:55	0.4	33.5	0.16	2.3
24	3/4/2020 13:55	0.01	0.08	0.01	0.8
25	3/6/2020 14:40	0.01	0.08	0.01	2
26	3/10/2020 1:00	0.27	10.5	0.11	3.4
27	3/12/2020 23:25	0.3	2.5	0.21	2.5
28	3/16/2020 19:25	0.02	0.5	0.02	3.7
29	3/18/2020 9:05	1.11	14.5	0.28	1.5
30	3/19/2020 17:45	0.34	17.08	0.14	0.8
31	3/21/2020 9:00	0.01	0.08	0.01	0.9
32	3/22/2020 20:05	0.2	15.17	0.07	1.5
33	3/26/2020 17:50	0.34	7.67	0.08	3.3
34	3/27/2020 22:45	3.29	35.5	0.93	0.9
35	3/30/2020 2:50	0.01	0.08	0.01	0.7
36	3/30/2020 17:15	0.03	0.83	0.03	0.6
37	4/1/2020 7:30	0.01	0.08	0.01	1.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/7/2020 6:25	1.66	18.58	0.96	6
39	4/9/2020 0:00	0.36	13.92	0.11	1
40	4/12/2020 5:35	0.42	29.83	0.07	2.7
41	4/15/2020 14:35	0.27	12.67	0.08	2.1
42	4/17/2020 10:10	0.43	8.33	0.09	1.3
43	4/19/2020 20:45	0.07	0.5	0.07	2.1
44	4/21/2020 1:30	0.12	2.42	0.06	1.2
45	4/22/2020 18:15	0.12	2.33	0.06	1.6
46	4/23/2020 20:55	0.1	5.33	0.06	1
47	4/26/2020 0:25	0.54	12.83	0.18	1.9
48	4/27/2020 22:35	0.04	3.5	0.03	1.4
49	4/28/2020 18:55	0.29	3.33	0.2	0.7
50	4/29/2020 17:30	0.25	23.42	0.09	0.8
51	5/1/2020 7:15	0.04	0.67	0.04	0.6
52	5/2/2020 19:55	0.01	0.08	0.01	1.5
53	5/9/2020 5:05	0.01	0.08	0.01	6.4
54	5/10/2020 10:20	0.73	20.5	0.24	1.2
55	5/11/2020 19:15	0.01	0.08	0.01	0.5
56	5/14/2020 9:25	2.59	40.25	0.97	2.6
57	5/17/2020 16:10	0.58	3.83	0.4	1.6
58	5/18/2020 8:00	1.34	21.83	0.4	0.5
59	5/22/2020 2:45	0.44	12.08	0.24	2.9
60	5/28/2020 5:15	0.14	3.25	0.11	5.6
61	5/29/2020 13:00	0.53	3.83	0.33	1.2
62	6/1/2020 23:40	0.05	0.75	0.05	3.3
63	6/3/2020 6:40	0.06	0.08	0.06	1.3
64	6/10/2020 18:45	0.86	9.58	0.84	7.5
65	6/13/2020 0:05	0.12	0.42	0.12	1.8
66	6/18/2020 19:30	0.04	0.25	0.04	5.8
67	6/21/2020 15:30	0.55	21.08	0.18	2.8
68	6/23/2020 6:10	0.63	5.33	0.59	0.7
69	6/26/2020 22:20	0.86	6.42	0.36	3.5
70	6/27/2020 21:50	0.04	0.17	0.04	0.7
71	7/10/2020 18:10	1.21	15.75	0.43	12.8
72	7/16/2020 14:55	0.01	0.08	0.01	5.2
73	7/19/2020 16:15	0.72	0.75	0.72	3.1
74	7/20/2020 8:45	0.01	0.08	0.01	0.7

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/22/2020 2:35	0.25	3.67	0.15	1.7
76	7/22/2020 21:35	0.02	0.08	0.02	0.6
77	7/23/2020 10:35	1.08	3.5	0.88	0.5
78	7/27/2020 13:45	1.42	12.33	0.57	4
79	7/29/2020 21:45	0.14	2.33	0.13	1.8
80	8/1/2020 10:45	1	29.25	0.49	2.4
81	8/3/2020 12:30	0.2	2.92	0.15	0.9
82	8/4/2020 6:10	0.48	17.67	0.44	0.6
83	8/16/2020 11:15	0.74	2.67	0.64	11.5
84	8/17/2020 13:00	0.08	1.25	0.07	1
85	8/26/2020 8:45	0.22	2.75	0.19	8.8
86	8/28/2020 8:05	3.48	21.17	1.31	1.9
87	9/2/2020 3:15	0.61	9.17	0.36	3.9
88	9/7/2020 6:10	4.55	6.92	1.32	4.7
89	9/13/2020 7:00	0.33	1	0.33	5.7
90	9/28/2020 15:50	1.95	7.67	0.91	15.3
91	9/30/2020 15:55	0.02	4.42	0.01	1.7
92	10/1/2020 12:50	0.95	15	0.29	0.7
93	10/2/2020 23:40	0.02	12.08	0.01	0.8
94	10/4/2020 15:30	0.24	4.83	0.15	1.2
95	10/10/2020 19:45	0.05	1	0.05	6
96	10/12/2020 22:15	0.67	3.5	0.43	2.1
97	10/15/2020 12:00	0.2	5.75	0.06	2.4
98	10/18/2020 12:30	0.08	1.17	0.07	2.8
99	10/19/2020 2:45	1	32	0.13	0.5
100	10/20/2020 23:35	2.3	8.33	0.84	0.5
101	10/22/2020 0:55	0.07	4	0.04	0.7
102	10/23/2020 17:15	0.53	7.83	0.26	1.5
103	10/26/2020 2:05	0.33	18.67	0.06	2
104	10/27/2020 14:50	0.32	14.75	0.07	0.8
105	10/29/2020 2:50	1.13	34.17	0.18	0.9
106	11/1/2020 7:20	0.14	13.17	0.09	1.8
107	11/11/2020 2:00	0.06	5.08	0.04	9.2
108	11/15/2020 0:10	0.37	13.25	0.11	3.7
109	11/17/2020 4:25	0.27	6.33	0.15	1.6
110	11/22/2020 7:10	0.84	11.83	0.17	4.9
111	11/23/2020 7:40	0.02	0.67	0.02	0.5

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	11/24/2020 16:50	0.02	0.5	0.02	1.4
113	11/25/2020 10:45	0.57	20	0.13	0.7
114	11/27/2020 19:55	0.02	1.08	0.01	1.5
115	11/30/2020 5:00	2.67	38.83	0.16	2.3
116	12/5/2020 14:05	0.02	0.25	0.02	3.8
117	12/7/2020 17:10	0.01	0.08	0.01	2.1
118	12/12/2020 7:50	0.35	8.67	0.26	4.6
119	12/13/2020 5:30	0.02	5.08	0.01	0.5
120	12/16/2020 12:00	0.17	47.17	0.03	3.1
121	12/19/2020 22:30	0.1	2.67	0.05	1.5
122	12/20/2020 16:20	0.01	0.08	0.01	0.6
123	12/21/2020 18:40	0.11	7.58	0.06	1.1
124	12/23/2020 19:15	0.72	41.58	0.08	1.7
125	12/26/2020 2:05	0.02	0.67	0.02	0.6
126	12/27/2020 22:20	0.15	4.17	0.06	1.8
127	12/28/2020 16:55	0.03	3.08	0.02	0.6
128	12/29/2020 23:45	0.03	0.33	0.03	1.2
129	12/30/2020 13:45	0.37	8.5	0.1	0.6

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:40	0.25	35.25	0.04	2.3
2	1/9/2020 23:40	0.81	52.42	0.12	5.2
3	1/15/2020 18:05	0.04	0.92	0.04	3.6
4	1/18/2020 8:50	0.6	7.58	0.28	2.6
5	1/20/2020 11:55	0.01	0.08	0.01	1.8
6	1/24/2020 7:30	0.31	41	0.06	3.8
7	1/26/2020 17:30	0.01	0.08	0.01	0.7
8	2/1/2020 18:45	0.02	1.83	0.01	6
9	2/4/2020 15:20	0.07	3.25	0.04	2.8
10	2/8/2020 10:55	0.22	3	0.16	3.7
11	2/9/2020 9:35	0.26	21.25	0.1	0.8
12	2/16/2020 2:20	0.07	2.5	0.03	5.8
13	2/17/2020 23:10	0.14	4.25	0.05	1.8
14	2/24/2020 20:15	0.2	4.33	0.08	6.7
15	2/25/2020 18:50	0.26	21.92	0.06	0.8
16	3/2/2020 10:20	0.05	7.67	0.02	4.7
17	3/3/2020 10:45	0.21	7.58	0.09	0.7
18	3/4/2020 12:00	0.03	1.42	0.02	0.7
19	3/6/2020 11:30	0.01	0.08	0.01	1.9
20	3/10/2020 0:55	0.16	10.33	0.08	3.6
21	3/12/2020 23:20	0.26	1.58	0.17	2.5
22	3/16/2020 18:55	0.02	0.5	0.02	3.8
23	3/18/2020 14:50	0.94	14	0.19	1.8
24	3/19/2020 18:10	0.27	12.67	0.17	0.6
25	3/22/2020 19:55	0.19	14.08	0.08	2.5
26	3/26/2020 17:30	0.31	7.25	0.07	3.3
27	3/27/2020 22:25	2.15	27.5	0.52	0.9
28	3/30/2020 2:20	0.01	0.08	0.01	1
29	4/1/2020 7:25	0.01	0.08	0.01	2.2
30	4/7/2020 6:30	0.96	19.42	0.44	6
31	4/8/2020 23:45	0.18	8	0.06	0.9
32	4/12/2020 23:20	0.22	11.67	0.08	3.6
33	4/15/2020 14:55	0.08	1.42	0.07	2.2
34	4/16/2020 8:25	0.03	1.25	0.02	0.7
35	4/17/2020 13:45	0.38	7	0.09	1.2
36	4/19/2020 20:50	0.01	0.08	0.01	2
37	4/21/2020 1:45	0.07	7.83	0.04	1.2
38	4/22/2020 18:25	0.09	2	0.05	1.4

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/24/2020 0:00	0.06	2	0.04	1.1
40	4/26/2020 0:40	0.51	8.75	0.15	1.9
41	4/27/2020 22:25	0.02	0.58	0.02	1.5
42	4/28/2020 18:30	0.1	3.33	0.05	0.8
43	4/29/2020 20:55	0.09	13.83	0.04	1
44	5/2/2020 19:55	0.05	0.17	0.05	2.4
45	5/10/2020 16:55	0.51	13.25	0.19	7.9
46	5/14/2020 9:00	1.68	32.92	0.46	3.1
47	5/17/2020 15:45	0.31	2.58	0.17	1.9
48	5/18/2020 7:25	1.7	22.5	0.43	0.5
49	5/22/2020 2:35	0.41	9.83	0.18	2.9
50	5/28/2020 7:00	0.1	1.17	0.09	5.8
51	5/29/2020 13:55	0.38	2.33	0.24	1.2
52	6/1/2020 23:15	0.03	0.42	0.03	3.3
53	6/3/2020 6:15	0.01	0.08	0.01	1.3
54	6/10/2020 18:25	0.34	0.75	0.34	7.5
55	6/12/2020 23:40	0.02	0.17	0.02	2.2
56	6/18/2020 19:20	0.17	0.25	0.17	5.8
57	6/21/2020 21:50	0.37	15.17	0.15	3.1
58	6/23/2020 6:05	0.84	5	0.74	0.7
59	6/26/2020 21:55	0.95	6.33	0.5	3.5
60	6/27/2020 21:20	0.01	0.08	0.01	0.7
61	7/10/2020 15:05	1.04	16.67	0.39	12.7
62	7/19/2020 12:20	0.22	4.25	0.12	8.2
63	7/22/2020 2:20	0.22	2.25	0.18	2.4
64	7/23/2020 9:35	0.61	5.58	0.59	1.2
65	7/27/2020 13:10	1.03	12.33	0.46	3.9
66	7/29/2020 21:20	0.16	0.17	0.16	1.8
67	8/1/2020 10:45	0.51	28.67	0.17	2.6
68	8/3/2020 13:25	0.12	1.5	0.09	0.9
69	8/4/2020 6:00	0.07	14.92	0.05	0.6
70	8/16/2020 10:45	0.61	2.42	0.48	11.6
71	8/17/2020 12:25	0.38	1.67	0.29	1
72	8/26/2020 8:10	0.25	2.83	0.23	8.8
73	8/28/2020 7:45	1.77	21.58	0.54	1.9
74	9/2/2020 3:00	0.28	8.67	0.2	3.9
75	9/7/2020 5:35	2.97	6.92	1.19	4.7
76	9/13/2020 7:00	0.28	0.83	0.28	5.8

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/28/2020 15:45	1.22	5.67	0.51	15.3
78	9/30/2020 18:40	0.03	1.33	0.02	1.9
79	10/1/2020 13:35	0.45	12.92	0.19	0.7
80	10/2/2020 22:35	0.03	1.17	0.02	0.8
81	10/4/2020 14:35	0.19	2.75	0.12	1.6
82	10/10/2020 19:15	0.01	0.08	0.01	6.1
83	10/12/2020 21:50	0.5	4.17	0.41	2.1
84	10/15/2020 12:05	0.12	4.75	0.05	2.4
85	10/18/2020 12:55	0.08	0.5	0.08	2.8
86	10/19/2020 2:20	0.95	31.33	0.18	0.5
87	10/20/2020 23:20	2.05	10.75	0.85	0.6
88	10/22/2020 1:35	0.32	3	0.16	0.6
89	10/23/2020 17:10	0.84	7.42	0.47	1.5
90	10/26/2020 2:55	0.19	17.33	0.03	2.1
91	10/27/2020 14:40	0.24	13.83	0.06	0.8
92	10/29/2020 3:50	0.6	24.75	0.11	1
93	11/1/2020 7:00	0.1	5.42	0.08	2.1
94	11/11/2020 1:35	0.03	0.83	0.03	9.5
95	11/14/2020 23:50	0.33	13.75	0.09	3.9
96	11/17/2020 4:50	0.08	1.33	0.07	1.6
97	11/22/2020 7:05	0.71	11.33	0.14	5
98	11/24/2020 16:30	0.02	0.25	0.02	1.9
99	11/25/2020 10:20	0.41	18.42	0.13	0.7
100	11/30/2020 4:55	0.73	21.58	0.08	4
101	12/1/2020 19:35	0.14	2.33	0.11	0.7
102	12/5/2020 14:00	0.02	0.25	0.02	3.7
103	12/12/2020 8:00	0.15	7.83	0.1	6.7
104	12/13/2020 5:00	0.03	4.5	0.01	0.5
105	12/17/2020 10:20	0.04	0.5	0.04	4
106	12/19/2020 12:40	0.23	12.08	0.11	2.1
107	12/20/2020 14:40	0.02	0.67	0.02	0.6
108	12/21/2020 18:05	0.08	7	0.06	1.1
109	12/23/2020 18:40	0.02	0.17	0.02	1.7
110	12/24/2020 8:20	0.03	0.83	0.03	0.6
111	12/27/2020 10:50	0.11	15.08	0.05	3.1
112	12/30/2020 4:55	0.29	16.67	0.07	2.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.66	47.58	0.08	2.2
2	1/8/2020 7:55	0.02	2.25	0.01	3.2
3	1/10/2020 0:45	1.1	53.67	0.1	1.6
4	1/15/2020 17:55	0.16	18.83	0.13	3.5
5	1/18/2020 1:45	0.95	15.92	0.23	1.5
6	1/19/2020 22:05	0.08	19	0.02	1.2
7	1/24/2020 8:45	0.65	38.58	0.13	3.7
8	1/26/2020 18:30	0.01	0.08	0.01	0.8
9	1/28/2020 11:35	0.01	0.08	0.01	1.7
10	2/1/2020 18:35	0.05	11.25	0.02	4.3
11	2/4/2020 14:45	0.23	4.75	0.09	2.4
12	2/5/2020 20:30	0.58	44.83	0.13	1
13	2/9/2020 17:05	0.32	16	0.07	2
14	2/12/2020 19:25	0.5	31.08	0.11	2.4
15	2/17/2020 23:15	0.39	8.08	0.09	3.9
16	2/24/2020 20:40	0.19	4.5	0.06	6.6
17	2/25/2020 17:40	0.41	33.33	0.05	0.7
18	2/29/2020 2:25	0.01	0.08	0.01	2
19	3/2/2020 7:00	0.38	35.83	0.15	2.2
20	3/4/2020 12:35	0.04	1.83	0.03	0.7
21	3/6/2020 7:35	0.17	15.75	0.05	1.7
22	3/10/2020 1:55	0.39	11.42	0.08	3.1
23	3/12/2020 23:40	0.41	3.5	0.27	2.4
24	3/16/2020 18:20	0.07	12.67	0.03	3.6
25	3/18/2020 14:55	1.48	8.25	0.37	1.3
26	3/19/2020 17:30	0.19	14.75	0.06	0.8
27	3/22/2020 20:15	0.16	12.5	0.07	2.5
28	3/25/2020 2:40	0.04	7.75	0.02	1.7
29	3/26/2020 18:55	0.21	6.92	0.07	1.4
30	3/27/2020 22:25	2.66	28.08	1.1	0.9
31	3/30/2020 3:10	0.1	16.5	0.05	1
32	4/1/2020 0:45	0.08	8.17	0.05	1.2
33	4/7/2020 6:15	0.25	3.17	0.15	5.9
34	4/7/2020 22:40	0.82	2.58	0.53	0.6
35	4/9/2020 3:25	0.29	19.08	0.12	1.1
36	4/12/2020 5:50	0.01	0.08	0.01	2.3
37	4/12/2020 20:50	0.54	14.92	0.1	0.6
38	4/15/2020 14:50	0.22	11.17	0.07	2.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:15	0.41	8.58	0.08	1.3
40	4/19/2020 17:20	0.04	5.17	0.03	1.9
41	4/21/2020 2:25	0.11	1.83	0.07	1.2
42	4/22/2020 18:30	0.15	4.83	0.08	1.6
43	4/23/2020 20:40	0.12	9.58	0.05	0.9
44	4/26/2020 0:00	0.66	14.17	0.13	1.7
45	4/27/2020 22:55	0.05	3.75	0.03	1.4
46	4/28/2020 21:45	0.4	59.42	0.07	0.8
47	5/2/2020 19:50	0.01	0.08	0.01	1.4
48	5/9/2020 6:10	0.01	0.08	0.01	6.4
49	5/10/2020 17:25	0.44	14.58	0.16	1.5
50	5/14/2020 9:30	2.9	36.42	1.19	3.1
51	5/17/2020 15:40	1.41	38.42	0.51	1.7
52	5/22/2020 2:20	0.44	9.67	0.22	2.8
53	5/25/2020 16:15	0.51	14.17	0.4	3.2
54	5/28/2020 3:50	0.28	9.83	0.18	1.9
55	5/29/2020 8:45	0.49	17.08	0.35	0.8
56	6/1/2020 23:55	0.06	3	0.05	2.9
57	6/4/2020 14:25	0.12	0.67	0.12	2.5
58	6/10/2020 19:20	0.4	9.25	0.38	6.2
59	6/13/2020 0:20	0.06	0.75	0.06	1.8
60	6/18/2020 19:50	0.01	0.08	0.01	5.8
61	6/19/2020 12:35	0.81	4.67	0.72	0.7
62	6/21/2020 16:00	1.56	20.75	0.69	1.9
63	6/23/2020 2:35	0.42	9.83	0.33	0.6
64	6/26/2020 22:35	0.38	6.5	0.25	3.4
65	6/27/2020 22:50	0.01	0.08	0.01	0.7
66	7/7/2020 12:10	1.39	2.08	1.08	9.6
67	7/10/2020 14:00	0.67	20.25	0.19	3
68	7/19/2020 13:05	0.61	4.33	0.55	8.1
69	7/20/2020 6:45	0.01	0.08	0.01	0.6
70	7/22/2020 2:10	0.12	3.17	0.05	1.8
71	7/27/2020 12:55	1.2	21.08	0.6	5.3
72	8/1/2020 9:30	0.48	30	0.15	4
73	8/3/2020 8:10	0.45	29.83	0.23	0.7
74	8/16/2020 11:55	0.25	1.5	0.19	11.9
75	8/17/2020 13:50	0.61	1.08	0.6	1
76	8/23/2020 16:35	0.23	6.25	0.22	6.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/26/2020 9:00	0.08	1.83	0.07	2.4
78	8/27/2020 21:10	3.81	33.58	1.46	1.4
79	9/2/2020 3:25	0.38	7.08	0.3	3.9
80	9/3/2020 5:20	0.01	0.08	0.01	0.8
81	9/7/2020 6:45	3.05	9.33	1.21	4.1
82	9/8/2020 8:50	0.01	0.08	0.01	0.7
83	9/13/2020 7:25	0.12	1.08	0.11	4.9
84	9/28/2020 16:40	1.45	15.58	0.57	15.3
85	9/30/2020 16:10	0.04	4.92	0.02	1.3
86	10/1/2020 14:35	0.44	17.33	0.24	0.7
87	10/4/2020 16:50	0.27	13.83	0.15	2.4
88	10/12/2020 22:40	0.52	3.67	0.42	7.7
89	10/15/2020 12:40	0.11	7.75	0.03	2.4
90	10/17/2020 22:00	0.01	0.08	0.01	2.1
91	10/18/2020 12:25	0.98	44.08	0.12	0.6
92	10/21/2020 0:20	0.43	12	0.15	0.7
93	10/23/2020 17:15	0.45	9.58	0.22	2.2
94	10/26/2020 2:50	0.48	52.5	0.04	2
95	10/29/2020 3:10	1.62	33.17	0.23	0.8
96	11/1/2020 7:45	0.14	16.42	0.1	1.8
97	11/11/2020 0:30	0.28	7.08	0.12	9
98	11/15/2020 0:10	0.33	20.5	0.15	3.7
99	11/17/2020 4:50	0.35	6.58	0.17	1.3
100	11/22/2020 7:15	0.71	13.75	0.26	4.8
101	11/24/2020 16:50	0.04	0.33	0.04	1.8
102	11/25/2020 10:25	0.71	19.33	0.2	0.7
103	11/27/2020 20:15	0.02	0.75	0.02	1.6
104	11/30/2020 5:05	2.22	40.25	0.17	2.3
105	12/5/2020 15:00	0.02	1	0.02	3.7
106	12/12/2020 7:55	0.1	4.5	0.06	6.7
107	12/13/2020 6:00	0.04	3.08	0.02	0.7
108	12/16/2020 11:25	0.2	48.17	0.03	3.1
109	12/19/2020 21:50	0.17	4.08	0.06	1.4
110	12/21/2020 16:35	0.17	10.5	0.07	1.6
111	12/23/2020 18:45	0.66	39.33	0.1	1.7
112	12/26/2020 2:15	0.02	1.5	0.01	0.7
113	12/27/2020 23:20	0.05	3.33	0.03	1.8
114	12/28/2020 18:10	0.02	11.75	0.01	0.6

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/29/2020 23:55	0.01	0.08	0.01	0.8
116	12/30/2020 13:55	0.4	9	0.1	0.6

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:45	0.6	46.17	0.06	2.2
2	1/8/2020 7:25	0.03	0.83	0.03	3.2
3	1/10/2020 0:55	1.14	51.67	0.12	1.7
4	1/15/2020 18:05	0.11	2.75	0.1	3.6
5	1/16/2020 13:15	0.01	0.08	0.01	0.7
6	1/18/2020 1:55	0.69	14.67	0.17	1.5
7	1/19/2020 21:55	0.07	18.08	0.02	1.2
8	1/24/2020 9:55	0.47	32.83	0.1	3.7
9	1/26/2020 9:30	0.03	14.67	0.01	0.6
10	1/28/2020 21:40	0.01	0.08	0.01	1.9
11	2/1/2020 19:05	0.03	10.67	0.01	3.9
12	2/4/2020 14:55	0.14	4.58	0.06	2.4
13	2/5/2020 20:20	0.55	47.58	0.1	1
14	2/8/2020 13:30	0.01	0.08	0.01	0.7
15	2/9/2020 18:15	0.27	13.75	0.06	1.2
16	2/12/2020 19:45	0.38	23.08	0.11	2.5
17	2/17/2020 23:30	0.28	5.42	0.08	4.2
18	2/24/2020 20:40	0.18	4.33	0.06	6.7
19	2/25/2020 17:55	0.19	6.75	0.08	0.7
20	2/26/2020 13:40	0.24	13.08	0.04	0.5
21	2/27/2020 22:05	0.01	0.08	0.01	0.8
22	2/29/2020 0:05	0.03	2.92	0.02	1.1
23	3/2/2020 9:55	0.09	9.58	0.03	2.3
24	3/3/2020 11:25	0.3	7.5	0.13	0.7
25	3/4/2020 12:15	0.06	0.92	0.06	0.7
26	3/5/2020 9:50	0.01	0.08	0.01	0.9
27	3/6/2020 8:05	0.11	11.92	0.04	0.9
28	3/10/2020 1:30	0.29	11.42	0.09	3.2
29	3/13/2020 0:05	0.27	1.5	0.23	2.5
30	3/16/2020 18:15	0.04	1.83	0.02	3.7
31	3/18/2020 15:00	1.42	12	0.41	1.8
32	3/19/2020 17:40	0.33	17.33	0.15	0.6
33	3/22/2020 20:00	0.2	13.17	0.07	2.4
34	3/26/2020 17:55	0.31	7.42	0.08	3.4
35	3/27/2020 22:40	3.39	35.92	1.6	0.9
36	3/30/2020 16:30	0.04	4.67	0.02	1.2
37	4/1/2020 3:45	0.03	4.08	0.02	1.3
38	4/7/2020 7:00	1.13	18.08	0.5	6

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 5:00	0.27	11.92	0.09	1.2
40	4/12/2020 5:30	0.5	29.92	0.15	2.5
41	4/15/2020 14:45	0.19	12.17	0.06	2.1
42	4/17/2020 10:30	0.36	8.17	0.07	1.3
43	4/19/2020 17:10	0.02	3.92	0.01	1.9
44	4/21/2020 2:15	0.13	1.67	0.08	1.2
45	4/22/2020 18:30	0.1	2.08	0.05	1.6
46	4/23/2020 21:05	0.15	7.92	0.07	1
47	4/26/2020 0:20	0.64	13.92	0.13	1.8
48	4/27/2020 22:45	0.03	2.42	0.02	1.4
49	4/28/2020 19:10	0.25	3.08	0.23	0.8
50	4/29/2020 19:40	0.35	37.17	0.09	0.9
51	5/2/2020 21:15	0.02	0.17	0.02	1.5
52	5/9/2020 4:35	0.02	0.5	0.02	6.3
53	5/10/2020 10:50	0.54	33.83	0.15	1.2
54	5/14/2020 9:30	2.78	33	0.85	2.5
55	5/17/2020 8:20	0.58	10.08	0.5	1.6
56	5/18/2020 7:50	0.82	23.58	0.2	0.6
57	5/22/2020 2:40	0.46	9.75	0.2	2.8
58	5/25/2020 15:55	0.09	3	0.07	3.1
59	5/28/2020 4:10	0.21	9.75	0.14	2.4
60	5/29/2020 12:20	0.39	11.25	0.3	0.9
61	6/1/2020 23:40	0.05	3.08	0.03	3
62	6/3/2020 6:45	0.03	0.17	0.03	1.2
63	6/10/2020 19:20	0.35	1.83	0.34	7.5
64	6/13/2020 0:10	0.07	0.25	0.07	2.1
65	6/21/2020 14:10	0.54	22.67	0.3	8.6
66	6/23/2020 6:25	0.61	5.5	0.52	0.7
67	6/26/2020 22:25	1.37	6.5	0.88	3.4
68	6/27/2020 22:15	0.01	0.08	0.01	0.7
69	7/11/2020 0:15	1.75	10	0.57	13.1
70	7/16/2020 4:40	0.04	11	0.03	4.8
71	7/19/2020 16:25	0.36	3.5	0.34	3
72	7/22/2020 2:25	0.43	6.83	0.25	2.3
73	7/23/2020 11:10	0.32	2	0.28	1.1
74	7/25/2020 5:30	0.01	0.08	0.01	1.7
75	7/27/2020 14:15	1.76	15.42	0.87	2.4
76	7/29/2020 22:00	0.02	0.33	0.02	1.7

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/1/2020 11:40	0.65	36.67	0.38	2.6
78	8/3/2020 13:00	0.86	36.5	0.39	0.5
79	8/16/2020 11:40	0.32	2.33	0.28	11.4
80	8/17/2020 5:05	0.04	9.17	0.03	0.6
81	8/23/2020 14:20	0.06	0.08	0.06	6
82	8/26/2020 9:15	0.16	2.42	0.11	2.8
83	8/28/2020 5:45	3.36	23.75	1.53	1.8
84	9/2/2020 3:40	0.22	6.92	0.08	3.9
85	9/7/2020 6:15	3.74	7.08	1.35	4.8
86	9/10/2020 6:20	0.01	0.08	0.01	2.7
87	9/13/2020 7:15	0.32	1	0.32	3
88	9/15/2020 5:05	0.01	0.08	0.01	1.9
89	9/28/2020 16:40	1.7	7.42	0.91	13.5
90	9/30/2020 16:00	0.02	4.33	0.01	1.7
91	10/1/2020 13:15	0.44	16.75	0.11	0.7
92	10/4/2020 15:40	0.28	14.67	0.17	2.4
93	10/10/2020 19:55	0.06	0.83	0.06	5.6
94	10/12/2020 22:30	0.69	4.08	0.52	2.1
95	10/15/2020 12:10	0.11	5	0.04	2.4
96	10/18/2020 12:45	0.9	44.75	0.09	2.8
97	10/20/2020 23:45	1.72	12.25	0.52	0.6
98	10/22/2020 0:45	0.14	6.33	0.07	0.5
99	10/23/2020 17:00	0.81	8.58	0.51	1.4
100	10/26/2020 2:05	0.25	23.83	0.04	2
101	10/27/2020 14:50	0.3	16.08	0.06	0.5
102	10/29/2020 3:20	1.05	34.08	0.12	0.9
103	11/1/2020 7:40	0.15	11.92	0.1	1.8
104	11/11/2020 0:50	0.1	6.75	0.05	9.2
105	11/15/2020 0:15	0.31	13.25	0.09	3.7
106	11/17/2020 4:50	0.22	7	0.08	1.6
107	11/22/2020 7:10	0.68	24.5	0.14	4.8
108	11/24/2020 17:05	0.01	0.08	0.01	1.4
109	11/25/2020 10:45	0.62	18.75	0.18	0.7
110	11/27/2020 20:00	0.03	0.75	0.03	1.6
111	11/30/2020 5:20	2.88	38.5	0.16	2.4
112	12/5/2020 14:10	0.01	0.08	0.01	3.8
113	12/12/2020 7:50	0.27	28	0.1	6.7
114	12/16/2020 11:50	0.02	6.33	0.01	3

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2020 7:25	0.04	15.5	0.02	0.6
116	12/18/2020 11:15	0.03	1.67	0.02	0.5
117	12/19/2020 22:20	0.12	3.67	0.05	1.4
118	12/21/2020 18:45	0.11	14.5	0.05	1.7
119	12/23/2020 19:50	0.55	39	0.09	1.4
120	12/27/2020 22:55	0.11	3.75	0.06	2.5
121	12/28/2020 20:20	0.01	0.08	0.01	0.7
122	12/30/2020 14:00	0.34	8.42	0.1	1.7

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:35	0.45	44.5	0.07	2.3
2	1/8/2020 7:10	0.03	0.92	0.03	3.2
3	1/10/2020 0:10	1.04	52.08	0.11	1.7
4	1/15/2020 18:10	0.07	3.5	0.06	3.6
5	1/18/2020 1:50	0.69	23.17	0.17	2.2
6	1/19/2020 21:15	0.04	4	0.03	0.8
7	1/24/2020 7:55	0.58	40.67	0.1	4.3
8	1/26/2020 17:10	0.03	0.67	0.03	0.7
9	1/27/2020 10:00	0.01	0.08	0.01	0.7
10	1/30/2020 15:25	0.01	0.08	0.01	3.2
11	2/1/2020 19:15	0.03	10.33	0.01	2.2
12	2/4/2020 15:00	0.07	2.92	0.04	2.4
13	2/5/2020 18:45	0.23	4.42	0.11	1
14	2/6/2020 11:40	0.16	27.58	0.04	0.5
15	2/8/2020 16:20	0.02	0.25	0.02	1
16	2/9/2020 17:50	0.24	13.33	0.06	1.1
17	2/12/2020 19:50	0.39	30.58	0.08	2.5
18	2/17/2020 23:30	0.2	6.08	0.06	3.9
19	2/24/2020 20:40	0.18	4.25	0.07	6.6
20	2/25/2020 19:10	0.42	30.33	0.06	0.8
21	2/27/2020 15:05	0.03	6.83	0.01	0.6
22	3/2/2020 8:00	0.39	34.75	0.16	3.4
23	3/4/2020 12:00	0.05	1.75	0.04	0.7
24	3/6/2020 8:30	0.07	4.92	0.03	1.8
25	3/7/2020 3:30	0.01	0.08	0.01	0.6
26	3/10/2020 1:05	0.24	10.67	0.11	2.9
27	3/12/2020 23:40	0.28	2.58	0.17	2.5
28	3/16/2020 18:20	0.03	1.58	0.02	3.7
29	3/18/2020 15:00	0.97	8.75	0.21	1.8
30	3/19/2020 17:40	0.54	17.08	0.39	0.7
31	3/22/2020 20:00	0.21	15.08	0.08	2.4
32	3/26/2020 17:50	0.33	7.33	0.08	3.3
33	3/27/2020 22:50	2.45	35.33	0.7	0.9
34	3/30/2020 2:35	0.02	0.58	0.02	0.7
35	3/30/2020 17:30	0.01	0.08	0.01	0.6
36	4/1/2020 7:40	0.01	0.08	0.01	1.6
37	4/7/2020 6:50	1.1	18.08	0.57	6
38	4/9/2020 0:00	0.32	20.75	0.09	1

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 5:40	0.01	0.08	0.01	2.4
40	4/12/2020 22:45	0.3	12.42	0.06	0.7
41	4/15/2020 15:00	0.25	14.25	0.07	2.2
42	4/17/2020 10:20	0.35	8.08	0.07	1.2
43	4/21/2020 0:25	0.13	3.25	0.08	3.3
44	4/22/2020 18:35	0.12	6.08	0.06	1.6
45	4/23/2020 21:55	0.08	4.75	0.05	0.9
46	4/26/2020 0:45	0.52	23.75	0.15	1.9
47	4/27/2020 22:50	0.04	3.33	0.02	0.9
48	4/28/2020 18:55	0.13	3.33	0.07	0.7
49	4/29/2020 17:25	0.25	18.42	0.09	0.8
50	5/1/2020 7:10	0.02	0.25	0.02	0.8
51	5/2/2020 19:50	0.09	1.5	0.08	1.5
52	5/10/2020 13:20	0.62	17.25	0.21	7.7
53	5/14/2020 9:30	2.13	32.92	0.64	3.1
54	5/17/2020 16:15	0.61	2.42	0.47	1.9
55	5/18/2020 7:55	1.23	21.08	0.33	0.6
56	5/22/2020 2:40	0.41	11	0.19	2.9
57	5/25/2020 16:30	0.03	0.17	0.03	3.1
58	5/28/2020 5:30	0.13	3	0.11	2.5
59	5/29/2020 13:05	0.54	3.58	0.35	1.2
60	6/1/2020 23:25	0.05	2.92	0.04	3.3
61	6/3/2020 6:40	0.01	0.08	0.01	1.2
62	6/10/2020 18:50	0.7	9.5	0.67	7.5
63	6/18/2020 15:00	0.08	2.83	0.07	7.4
64	6/21/2020 15:35	0.36	21.92	0.1	2.9
65	6/23/2020 6:30	0.76	5.58	0.71	0.7
66	6/26/2020 22:25	1.28	6.5	0.76	3.4
67	6/27/2020 21:50	0.07	4.67	0.06	0.7
68	7/10/2020 20:30	1.73	13.42	0.62	12.8
69	7/16/2020 13:55	0.07	1.58	0.06	5.2
70	7/19/2020 16:30	0.3	0.5	0.3	3
71	7/22/2020 2:40	0.2	2.83	0.13	2.4
72	7/23/2020 10:20	0.74	5.42	0.68	1.2
73	7/27/2020 12:55	1.38	13	0.45	3.9
74	7/29/2020 21:45	0.04	0.25	0.04	1.8
75	8/1/2020 10:55	0.58	30.08	0.32	2.5
76	8/3/2020 13:45	0.12	1.83	0.07	0.9

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 6:00	0.37	15.5	0.21	0.6
78	8/16/2020 11:15	0.69	2.83	0.6	11.6
79	8/17/2020 13:05	0.11	1.17	0.1	1
80	8/24/2020 16:35	0.01	0.08	0.01	7.1
81	8/26/2020 9:20	0.24	2.17	0.16	1.7
82	8/28/2020 8:05	2.36	21.17	0.74	1.9
83	9/2/2020 3:15	0.43	9	0.31	3.9
84	9/7/2020 6:05	3.72	7	1.46	4.7
85	9/13/2020 6:40	0.44	6.17	0.36	5.7
86	9/28/2020 15:55	1.54	15.25	0.58	15.1
87	9/30/2020 19:05	0.04	1.17	0.03	1.5
88	10/1/2020 12:55	0.57	16.67	0.23	0.7
89	10/2/2020 23:15	0.02	0.58	0.02	0.7
90	10/4/2020 15:20	0.24	3.33	0.15	1.6
91	10/10/2020 19:35	0.04	1.08	0.03	6
92	10/12/2020 22:20	0.64	3.5	0.43	2.1
93	10/15/2020 12:15	0.18	4.75	0.06	2.4
94	10/18/2020 13:20	0.07	0.42	0.07	2.8
95	10/19/2020 2:45	0.92	31.75	0.1	0.5
96	10/20/2020 23:45	2.57	8.33	0.95	0.6
97	10/22/2020 1:35	0.28	3.42	0.18	0.7
98	10/23/2020 17:15	0.48	7.75	0.2	1.5
99	10/26/2020 2:10	0.37	23.75	0.07	2
100	10/27/2020 14:55	0.29	13.33	0.05	0.5
101	10/29/2020 3:00	0.88	33.92	0.11	0.9
102	11/1/2020 7:25	0.12	5.67	0.09	1.8
103	11/11/2020 2:05	0.04	5.5	0.02	9.5
104	11/15/2020 0:20	0.35	13.08	0.12	3.7
105	11/17/2020 5:15	0.14	10.92	0.07	1.7
106	11/22/2020 7:30	0.72	11.33	0.14	4.6
107	11/23/2020 9:05	0.01	0.08	0.01	0.6
108	11/24/2020 17:00	0.02	0.33	0.02	1.3
109	11/25/2020 10:40	0.51	20.33	0.11	0.7
110	11/30/2020 4:45	2.48	38.75	0.13	3.9
111	12/5/2020 14:15	0.01	0.08	0.01	3.8
112	12/12/2020 7:50	0.34	8.67	0.25	6.7
113	12/13/2020 5:35	0.03	4.92	0.01	0.5
114	12/16/2020 13:25	0.16	47.33	0.02	3.1

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 19:25	0.1	5.5	0.05	1.3
116	12/20/2020 15:05	0.02	0.92	0.02	0.6
117	12/21/2020 18:40	0.09	7.92	0.05	1.1
118	12/23/2020 19:10	0.91	55.33	0.09	1.7
119	12/27/2020 22:20	0.14	4.08	0.07	1.8
120	12/28/2020 17:55	0.01	0.08	0.01	0.6
121	12/29/2020 23:50	0.02	0.25	0.02	1.2
122	12/30/2020 13:35	0.32	8	0.1	0.6

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 7:15	0.46	35.83	0.06	2.3
2	1/8/2020 0:55	0.06	6.25	0.04	3.2
3	1/10/2020 0:25	1.35	52.83	0.14	1.7
4	1/15/2020 18:20	0.1	3.5	0.06	3.5
5	1/16/2020 12:00	0.08	1.42	0.07	0.6
6	1/18/2020 2:05	0.88	24.17	0.18	1.5
7	1/19/2020 19:05	0.1	15.42	0.05	0.7
8	1/22/2020 14:50	0.01	0.08	0.01	2.2
9	1/24/2020 10:05	0.66	38.75	0.11	1.8
10	1/26/2020 16:25	0.21	21.42	0.04	0.6
11	1/28/2020 19:55	0.02	1.67	0.01	1.3
12	2/1/2020 18:15	0.12	12.33	0.04	3.9
13	2/4/2020 15:10	0.09	4.83	0.05	2.4
14	2/5/2020 19:40	0.27	3.5	0.14	1
15	2/6/2020 11:15	0.45	36.92	0.15	0.5
16	2/8/2020 16:25	0.02	1.08	0.01	0.7
17	2/9/2020 17:55	0.42	13.5	0.1	1
18	2/12/2020 19:55	0.41	23.08	0.09	2.5
19	2/17/2020 23:40	0.27	6.58	0.07	4.2
20	2/24/2020 21:15	0.3	27.58	0.07	6.6
21	2/26/2020 13:50	0.4	39.08	0.05	0.5
22	2/28/2020 22:00	0.02	3.5	0.01	0.7
23	3/2/2020 10:05	0.63	33	0.16	2.4
24	3/4/2020 12:25	0.08	1.75	0.05	0.7
25	3/6/2020 8:40	0.06	8.5	0.02	1.8
26	3/10/2020 1:30	0.37	10.33	0.17	3.3
27	3/12/2020 23:40	0.28	2.92	0.18	2.5
28	3/16/2020 18:10	0.07	13.25	0.03	3.6
29	3/18/2020 15:35	1	9.58	0.25	1.3
30	3/19/2020 17:50	0.43	13.33	0.29	0.7
31	3/22/2020 21:10	0.19	12.42	0.08	2.6
32	3/26/2020 18:00	0.37	7	0.08	3.4
33	3/27/2020 23:15	2.52	35.5	1.03	0.9
34	3/30/2020 2:40	0.17	14.58	0.1	0.7
35	4/1/2020 6:15	0.03	1.5	0.02	1.5
36	4/7/2020 8:50	0.68	17	0.34	6
37	4/9/2020 0:10	0.31	8.17	0.11	0.9

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/10/2020 3:10	0.05	1	0.05	0.8
39	4/12/2020 5:50	0.03	0.75	0.03	2.1
40	4/12/2020 21:25	0.63	13.83	0.22	0.6
41	4/15/2020 2:10	0.23	26.5	0.06	1.6
42	4/17/2020 10:30	0.32	8.17	0.07	1.2
43	4/21/2020 2:15	0.15	1.5	0.1	3.3
44	4/22/2020 17:20	0.06	7.58	0.02	1.6
45	4/23/2020 15:55	0.1	10.58	0.04	0.6
46	4/26/2020 0:30	0.59	18.67	0.08	1.9
47	4/27/2020 22:50	0.06	6.08	0.03	1.2
48	4/28/2020 20:20	0.4	41.17	0.08	0.6
49	5/1/2020 6:55	0.09	4.92	0.04	0.7
50	5/2/2020 19:35	0.02	2.08	0.01	1.3
51	5/10/2020 10:40	0.91	21.67	0.27	7.5
52	5/11/2020 20:50	0.02	0.25	0.02	0.5
53	5/14/2020 10:15	2.26	41.58	0.38	2.5
54	5/17/2020 16:30	0.76	2.33	0.6	1.5
55	5/18/2020 8:20	0.33	23	0.07	0.6
56	5/22/2020 4:30	0.34	8.25	0.2	2.9
57	5/25/2020 15:05	0.05	2.5	0.04	3.1
58	5/28/2020 5:45	0.19	8.5	0.13	2.5
59	5/29/2020 13:15	0.44	13.83	0.24	1
60	6/2/2020 0:30	0.04	2.67	0.03	2.9
61	6/3/2020 6:50	0.02	0.17	0.02	1.2
62	6/10/2020 19:30	0.26	4.17	0.25	7.5
63	6/18/2020 19:50	0.19	1.92	0.18	7.8
64	6/19/2020 12:50	0.06	0.67	0.06	0.6
65	6/21/2020 23:25	0.33	14.58	0.23	2.4
66	6/23/2020 6:30	0.51	5.67	0.38	0.7
67	6/26/2020 22:40	1.33	6.08	0.78	3.4
68	6/27/2020 22:00	0.38	5.75	0.37	0.7
69	7/9/2020 16:15	0.17	4.5	0.16	11.5
70	7/10/2020 14:30	2.19	19.58	0.81	0.7
71	7/16/2020 15:30	0.05	0.42	0.05	5.2
72	7/19/2020 16:35	0.16	0.67	0.16	3
73	7/22/2020 3:00	0.21	3.5	0.11	2.4
74	7/23/2020 10:05	0.5	1.5	0.48	1.1

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/25/2020 5:50	0.01	0.08	0.01	1.8
76	7/27/2020 11:20	0.59	15.33	0.24	2.2
77	7/29/2020 19:45	0.03	0.08	0.03	1.7
78	8/1/2020 12:35	0.65	28.5	0.17	2.7
79	8/3/2020 13:20	1.15	3.17	0.94	0.8
80	8/4/2020 6:40	0.31	22.25	0.23	0.6
81	8/16/2020 11:50	0.15	2.75	0.11	11.3
82	8/26/2020 9:25	0.53	2.17	0.44	9.8
83	8/28/2020 7:15	3.2	22.33	1.19	1.8
84	8/29/2020 20:25	0.01	0.08	0.01	0.6
85	9/2/2020 3:20	0.73	9.33	0.59	3.3
86	9/7/2020 6:00	2.61	7.17	0.86	4.7
87	9/10/2020 11:25	0.01	0.08	0.01	2.9
88	9/13/2020 7:25	0.45	1	0.45	2.8
89	9/28/2020 16:55	1.78	12.17	0.89	15.4
90	9/30/2020 19:15	0.06	1.42	0.05	1.6
91	10/1/2020 12:55	0.54	15.33	0.2	0.7
92	10/2/2020 20:55	0.18	3.42	0.1	0.7
93	10/4/2020 15:40	0.28	5.67	0.14	1.6
94	10/10/2020 18:55	0.07	1.42	0.06	5.9
95	10/12/2020 22:50	0.69	4.92	0.39	2.1
96	10/15/2020 12:15	0.33	15	0.09	2.4
97	10/18/2020 13:40	0.09	0.67	0.09	2.4
98	10/19/2020 2:50	0.97	31.83	0.13	0.5
99	10/20/2020 23:55	2.32	12.08	0.91	0.6
100	10/22/2020 1:05	0.32	5.5	0.2	0.5
101	10/23/2020 17:20	0.46	8.58	0.15	1.4
102	10/26/2020 2:15	0.25	24.17	0.04	2
103	10/27/2020 14:55	0.28	16.58	0.06	0.5
104	10/29/2020 4:00	1.11	33	0.16	0.9
105	11/1/2020 7:40	0.21	18.08	0.1	1.8
106	11/11/2020 0:40	0.21	6.92	0.07	9
107	11/15/2020 0:20	0.4	13.25	0.12	3.7
108	11/16/2020 23:45	0.11	12.92	0.04	1.4
109	11/22/2020 7:20	0.73	28	0.13	4.8
110	11/24/2020 17:10	0.03	1.08	0.02	1.2
111	11/25/2020 10:45	0.87	29.83	0.2	0.7

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	11/27/2020 23:35	0.01	0.08	0.01	1.3
113	11/30/2020 5:35	3.22	40.42	0.17	2.2
114	12/5/2020 12:05	0.03	0.25	0.03	3.6
115	12/6/2020 3:30	0.01	0.08	0.01	0.6
116	12/7/2020 16:45	0.01	0.08	0.01	1.5
117	12/12/2020 8:00	0.36	26.25	0.13	4.6
118	12/17/2020 9:40	0.08	8.83	0.05	4
119	12/18/2020 9:05	0.06	6.25	0.02	0.6
120	12/19/2020 17:55	0.29	23.25	0.05	1.1
121	12/21/2020 17:10	0.19	16.25	0.08	1
122	12/23/2020 7:10	0.01	0.08	0.01	0.9
123	12/23/2020 19:55	0.51	37.25	0.05	0.5
124	12/27/2020 22:50	0.12	4	0.04	2.6
125	12/28/2020 20:45	0.06	10.58	0.03	0.7
126	12/29/2020 23:45	0.03	1	0.03	0.7
127	12/30/2020 14:20	0.37	8.08	0.11	0.6

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:50	0.55	44.75	0.06	2.2
2	1/8/2020 0:55	0.08	7.58	0.05	2.9
3	1/10/2020 0:50	1.25	52.42	0.11	1.7
4	1/15/2020 18:10	0.11	3.75	0.08	3.5
5	1/16/2020 11:10	0.01	0.08	0.01	0.6
6	1/18/2020 1:55	0.89	25.08	0.21	1.6
7	1/19/2020 19:45	0.17	15.33	0.04	0.7
8	1/24/2020 8:25	0.63	41.17	0.11	3.9
9	1/26/2020 16:50	0.2	21.08	0.04	0.6
10	1/28/2020 16:20	0.02	5.25	0.01	1.1
11	1/31/2020 12:40	0.01	0.08	0.01	2.6
12	2/1/2020 18:25	0.1	11.83	0.03	1.2
13	2/4/2020 14:55	0.16	5	0.06	2.4
14	2/5/2020 20:30	0.62	49.25	0.1	1
15	2/8/2020 13:45	0.01	0.08	0.01	0.7
16	2/9/2020 18:00	0.36	14.08	0.07	1.2
17	2/12/2020 19:30	0.47	31.42	0.1	2.5
18	2/17/2020 23:30	0.31	6.42	0.07	3.9
19	2/24/2020 20:55	0.17	4.33	0.06	6.6
20	2/25/2020 17:50	0.83	56.67	0.1	0.7
21	2/28/2020 23:10	0.12	5.08	0.05	0.9
22	3/2/2020 7:15	0.56	35.75	0.19	2.1
23	3/4/2020 12:10	0.09	2	0.06	0.7
24	3/6/2020 8:25	0.16	14.92	0.05	1.8
25	3/10/2020 2:15	0.4	10.5	0.12	3.1
26	3/12/2020 23:50	0.34	2.67	0.25	2.5
27	3/16/2020 18:10	0.07	13.25	0.03	3.7
28	3/18/2020 15:25	1.19	10.92	0.29	1.3
29	3/19/2020 17:45	0.32	17.42	0.12	0.6
30	3/22/2020 20:45	0.2	12.08	0.07	2.4
31	3/25/2020 3:40	0.01	0.08	0.01	1.8
32	3/26/2020 17:55	0.31	7.42	0.08	1.6
33	3/27/2020 22:50	2.82	27.75	1.36	0.9
34	3/30/2020 3:15	0.13	15.17	0.06	1
35	4/1/2020 3:10	0.09	5	0.06	1.4
36	4/7/2020 8:15	1.65	17.42	1.15	6
37	4/9/2020 5:15	0.33	21.58	0.1	1.1
38	4/12/2020 5:40	0.02	0.33	0.02	2.1

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:10	0.63	14.42	0.16	0.6
40	4/15/2020 14:40	0.35	14.17	0.13	2.1
41	4/17/2020 10:05	0.43	8.5	0.08	1.2
42	4/19/2020 16:50	0.03	4.58	0.02	1.9
43	4/21/2020 1:55	0.16	2	0.08	1.2
44	4/22/2020 17:10	0.13	6.58	0.05	1.6
45	4/23/2020 21:50	0.14	6.75	0.08	0.9
46	4/26/2020 0:10	0.7	19.08	0.14	1.8
47	4/27/2020 22:55	0.05	3.25	0.03	1.2
48	4/28/2020 19:20	0.5	42	0.18	0.7
49	5/1/2020 7:15	0.04	1.83	0.03	0.7
50	5/2/2020 20:05	0.07	1.67	0.05	1.5
51	5/9/2020 5:00	0.05	0.92	0.05	6.3
52	5/10/2020 10:45	0.57	26.58	0.2	1.2
53	5/14/2020 9:40	2.13	33.83	0.57	2.8
54	5/17/2020 8:20	0.99	46.67	0.45	1.5
55	5/22/2020 3:20	0.42	9.17	0.17	2.8
56	5/25/2020 17:45	0.09	2.25	0.05	3.2
57	5/28/2020 4:05	0.2	9.92	0.14	2.3
58	5/29/2020 12:25	0.39	11.17	0.27	0.9
59	6/1/2020 23:50	0.05	2.75	0.04	3
60	6/3/2020 6:50	0.08	0.17	0.08	1.2
61	6/4/2020 14:45	0.01	0.08	0.01	1.3
62	6/10/2020 19:25	0.54	1.08	0.53	6.2
63	6/21/2020 22:25	0.62	14.83	0.34	11.1
64	6/23/2020 6:25	0.62	5.92	0.51	0.7
65	6/26/2020 22:40	1.03	6.33	0.49	3.4
66	7/7/2020 13:05	0.02	0.33	0.02	10.3
67	7/9/2020 19:25	0.7	0.75	0.7	2.3
68	7/10/2020 11:20	2.48	23.25	0.87	0.6
69	7/16/2020 14:50	0.07	1	0.07	5.2
70	7/19/2020 16:35	0.41	3.5	0.4	3
71	7/22/2020 2:30	0.51	3.33	0.28	2.3
72	7/23/2020 11:35	0.13	0.83	0.13	1.2
73	7/27/2020 14:30	1.02	12.75	0.46	4.1
74	7/29/2020 22:05	0.15	6.08	0.14	1.8
75	8/1/2020 12:00	0.48	28.67	0.13	2.3
76	8/3/2020 14:35	0.2	2.17	0.11	0.9

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 6:50	0.37	18.25	0.22	0.6
78	8/16/2020 11:55	0.18	1.5	0.16	11.5
79	8/17/2020 3:00	0.01	0.08	0.01	0.6
80	8/24/2020 17:40	0.25	0.25	0.25	7.6
81	8/26/2020 8:55	0.45	2.83	0.35	1.6
82	8/27/2020 14:05	3.99	41.75	1.1	1.1
83	9/2/2020 3:45	0.15	6.75	0.07	3.8
84	9/7/2020 6:25	3.6	6.92	1.29	4.8
85	9/11/2020 5:50	0.01	0.08	0.01	3.7
86	9/12/2020 16:30	0.07	0.08	0.07	1.4
87	9/13/2020 6:00	0.47	2.5	0.45	0.6
88	9/28/2020 16:50	1.6	8.75	0.65	15.3
89	9/30/2020 16:00	0.02	4.42	0.01	1.6
90	10/1/2020 12:40	0.59	19.33	0.25	0.7
91	10/4/2020 16:30	0.26	4.83	0.16	2.4
92	10/10/2020 20:05	0.03	1.25	0.02	5.9
93	10/12/2020 22:50	0.47	4.75	0.27	2.1
94	10/15/2020 12:30	0.22	15.17	0.08	2.4
95	10/18/2020 13:40	0.02	0.25	0.02	2.4
96	10/19/2020 2:50	0.86	30.92	0.09	0.5
97	10/21/2020 0:05	1.12	12.25	0.36	0.6
98	10/22/2020 0:50	0.12	5.33	0.09	0.5
99	10/23/2020 17:15	1.14	8.33	0.85	1.5
100	10/26/2020 2:25	0.18	23.75	0.02	2
101	10/27/2020 14:45	0.29	15.92	0.05	0.5
102	10/29/2020 3:10	1.06	29.25	0.13	0.9
103	11/1/2020 7:40	0.22	21.08	0.08	2
104	11/11/2020 0:35	0.23	7.33	0.06	8.8
105	11/15/2020 0:25	0.37	17.42	0.18	3.7
106	11/17/2020 4:25	0.25	12.58	0.07	1.4
107	11/22/2020 7:15	0.67	24.58	0.22	4.6
108	11/24/2020 17:05	0.01	0.08	0.01	1.4
109	11/25/2020 10:05	0.72	26.33	0.16	0.7
110	11/27/2020 20:05	0.03	0.58	0.03	1.3
111	11/30/2020 5:15	3.53	40.08	0.16	2.4
112	12/5/2020 12:30	0.02	2.58	0.01	3.6
113	12/12/2020 7:50	0.23	27.42	0.06	6.7
114	12/16/2020 11:45	0.16	48.33	0.02	3

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 18:45	0.21	7.5	0.06	1.3
116	12/21/2020 17:00	0.19	16.5	0.1	1.6
117	12/23/2020 22:40	0.97	52.75	0.11	1.5
118	12/27/2020 23:15	0.13	32.5	0.04	1.8
119	12/30/2020 14:10	0.39	8.75	0.13	1.3

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.33	44.42	0.05	2.3
2	1/9/2020 23:45	1.28	53.58	0.14	4.9
3	1/15/2020 17:55	0.04	9	0.03	3.5
4	1/18/2020 1:25	0.69	15.17	0.15	1.9
5	1/19/2020 22:40	0.02	1.33	0.01	1.3
6	1/24/2020 6:30	0.44	37.5	0.08	4.3
7	1/26/2020 17:35	0.01	0.08	0.01	0.9
8	2/1/2020 18:55	0.03	1.67	0.02	6.1
9	2/4/2020 14:40	0.11	12.25	0.06	2.8
10	2/5/2020 18:50	0.41	43.33	0.11	0.7
11	2/8/2020 15:50	0.02	0.5	0.02	1.1
12	2/9/2020 17:55	0.27	13.08	0.07	1.1
13	2/12/2020 19:45	0.35	21.67	0.08	2.5
14	2/17/2020 23:05	0.18	6.42	0.06	4.2
15	2/24/2020 19:20	0.23	5.33	0.09	6.6
16	2/25/2020 18:45	0.38	31.67	0.06	0.8
17	2/29/2020 1:35	0.02	1.08	0.01	2
18	3/2/2020 7:15	0.39	35.25	0.1	2.2
19	3/4/2020 11:55	0.03	0.67	0.03	0.7
20	3/6/2020 8:40	0.05	3.83	0.02	1.8
21	3/10/2020 0:40	0.28	10.83	0.1	3.5
22	3/12/2020 23:05	0.29	2	0.19	2.5
23	3/14/2020 20:40	0.01	0.08	0.01	1.8
24	3/16/2020 19:05	0.03	1.25	0.02	1.9
25	3/18/2020 14:45	1.08	7.17	0.22	1.8
26	3/19/2020 17:20	0.42	17.25	0.2	0.8
27	3/22/2020 19:40	0.24	15	0.09	2.4
28	3/26/2020 18:40	0.33	6.58	0.1	3.3
29	3/27/2020 22:00	2.78	28.67	0.59	0.9
30	3/30/2020 2:40	0.03	2.17	0.02	1
31	3/30/2020 17:40	0.03	0.5	0.03	0.5
32	4/7/2020 5:45	1.68	19.58	0.99	7.5
33	4/9/2020 4:40	0.29	9.42	0.12	1.1
34	4/12/2020 5:25	0.01	0.08	0.01	2.6
35	4/12/2020 22:15	0.41	12.83	0.11	0.7
36	4/15/2020 14:15	0.2	11.17	0.06	2.1
37	4/17/2020 9:55	0.42	8.5	0.08	1.4
38	4/19/2020 20:15	0.03	0.17	0.03	2.1

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2020 2:00	0.1	1.5	0.06	1.2
40	4/22/2020 18:25	0.08	2.17	0.06	1.6
41	4/23/2020 20:40	0.09	5.33	0.06	1
42	4/25/2020 22:20	0.75	19.17	0.2	1.8
43	4/27/2020 22:15	0.05	4.08	0.03	1.2
44	4/28/2020 18:25	0.27	3.42	0.18	0.7
45	4/29/2020 16:40	0.27	23.67	0.11	0.8
46	5/1/2020 6:00	0.01	0.08	0.01	0.6
47	5/2/2020 20:50	0.05	0.33	0.05	1.6
48	5/8/2020 16:50	0.04	12.67	0.02	5.8
49	5/10/2020 15:30	0.54	19.83	0.18	1.4
50	5/14/2020 9:00	3.31	43.75	1.42	2.9
51	5/17/2020 12:15	0.86	5	0.74	1.3
52	5/18/2020 7:15	1.85	28.33	0.42	0.6
53	5/21/2020 23:15	0.52	13.25	0.2	2.5
54	5/23/2020 6:30	0.01	0.08	0.01	0.8
55	5/28/2020 5:05	0.09	8.83	0.05	4.9
56	5/29/2020 12:50	0.5	3.67	0.32	1
57	6/1/2020 23:10	0.07	1.58	0.05	3.3
58	6/3/2020 7:20	0.01	0.08	0.01	1.3
59	6/10/2020 18:30	0.3	0.83	0.3	7.5
60	6/12/2020 23:50	0.07	2.92	0.06	2.2
61	6/18/2020 20:00	0.06	2.42	0.05	5.7
62	6/21/2020 21:45	0.27	13.75	0.12	3
63	6/23/2020 6:15	0.55	4.92	0.49	0.8
64	6/26/2020 22:10	0.46	6.33	0.3	3.5
65	6/27/2020 21:40	0.05	0.17	0.05	0.7
66	7/10/2020 19:50	0.95	13.92	0.38	12.9
67	7/19/2020 16:00	0.26	0.83	0.26	8.3
68	7/22/2020 2:15	0.28	3.5	0.2	2.4
69	7/23/2020 10:50	0.9	3	0.48	1.2
70	7/27/2020 13:35	1.3	11.33	0.95	4
71	7/29/2020 21:45	0.01	0.08	0.01	1.9
72	8/1/2020 10:55	1.06	30.08	0.26	2.5
73	8/3/2020 13:15	0.36	1.58	0.35	0.8
74	8/4/2020 9:05	0.05	0.58	0.05	0.8
75	8/4/2020 22:40	0.16	5.08	0.14	0.5
76	8/15/2020 14:50	0.03	0.17	0.03	10.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 10:50	1.33	2.83	0.95	0.8
78	8/17/2020 13:25	0.05	3	0.04	1
79	8/26/2020 6:40	0.17	4.25	0.14	8.6
80	8/28/2020 7:45	2.97	22.17	1.29	1.9
81	9/2/2020 3:05	0.42	8.75	0.32	3.9
82	9/7/2020 6:05	3.52	6.83	1.12	4.8
83	9/8/2020 11:20	0.01	0.08	0.01	0.9
84	9/13/2020 6:35	0.3	1.83	0.27	4.8
85	9/28/2020 16:05	1.28	7.92	0.77	15.3
86	9/30/2020 19:55	0.01	0.08	0.01	1.8
87	10/1/2020 12:25	0.66	18.25	0.18	0.7
88	10/4/2020 14:25	0.2	2.92	0.13	2.3
89	10/10/2020 19:25	0.02	1.08	0.01	6.1
90	10/12/2020 22:00	0.52	2.08	0.39	2.1
91	10/15/2020 12:00	0.19	5.25	0.07	2.5
92	10/18/2020 13:00	0.1	0.83	0.1	2.8
93	10/19/2020 2:30	1	31.83	0.17	0.5
94	10/20/2020 23:25	2.07	11.17	0.65	0.5
95	10/22/2020 1:35	0.16	2.58	0.09	0.6
96	10/23/2020 17:15	0.51	6.75	0.27	1.5
97	10/26/2020 1:45	0.21	18.5	0.05	2.1
98	10/27/2020 14:30	0.26	15.58	0.05	0.8
99	10/29/2020 3:05	1.02	31.08	0.1	0.9
100	11/1/2020 7:20	0.1	12.42	0.07	1.9
101	11/11/2020 1:45	0.08	5.25	0.05	9.3
102	11/14/2020 23:40	0.36	14.75	0.09	3.7
103	11/17/2020 4:30	0.11	5	0.05	1.6
104	11/22/2020 7:30	0.66	11	0.13	4.9
105	11/23/2020 6:45	0.01	0.08	0.01	0.5
106	11/24/2020 16:40	0.01	0.08	0.01	1.4
107	11/25/2020 10:15	0.51	19	0.13	0.7
108	11/27/2020 19:45	0.01	0.08	0.01	1.6
109	11/30/2020 4:30	2.62	45.67	0.13	2.4
110	12/7/2020 6:15	0.02	0.33	0.02	5.2
111	12/12/2020 7:35	0.15	8.58	0.08	5
112	12/13/2020 4:35	0.1	3.42	0.04	0.5
113	12/14/2020 8:30	0.01	0.08	0.01	1
114	12/16/2020 19:30	0.02	6.75	0.01	2.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2020 17:10	0.09	16.08	0.03	0.6
116	12/19/2020 17:15	0.14	22.33	0.06	1.3
117	12/21/2020 16:05	0.16	9.75	0.07	1
118	12/23/2020 18:45	0.47	39.5	0.06	1.7
119	12/26/2020 2:15	0.01	0.08	0.01	0.7
120	12/27/2020 22:15	0.05	3.83	0.03	1.8
121	12/28/2020 17:30	0.01	0.08	0.01	0.6
122	12/29/2020 23:20	0.04	0.67	0.04	1.2
123	12/30/2020 12:55	0.38	9.58	0.09	0.5

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 5:25	0.01	0.08	0.01	0.2
2	1/3/2020 4:30	0.52	39	0.06	2
3	1/10/2020 0:35	1.25	48.75	0.11	5.2
4	1/15/2020 17:45	0.1	2.17	0.09	3.7
5	1/16/2020 15:40	0.01	0.08	0.01	0.8
6	1/18/2020 1:30	0.73	15.58	0.18	1.4
7	1/19/2020 22:25	0.12	8.75	0.03	1.2
8	1/24/2020 7:15	0.76	37.92	0.1	4
9	1/27/2020 1:55	0.02	5.08	0.01	1.2
10	1/28/2020 15:50	0.01	0.08	0.01	1.4
11	2/1/2020 19:15	0.03	2.5	0.01	4.1
12	2/4/2020 14:45	0.21	6.67	0.08	2.7
13	2/5/2020 9:40	0.62	58	0.11	0.5
14	2/9/2020 17:15	0.32	17.17	0.09	1.9
15	2/12/2020 18:55	0.41	31.33	0.12	2.4
16	2/17/2020 19:55	0.32	9.17	0.07	3.7
17	2/24/2020 20:20	0.2	4.58	0.06	6.6
18	2/25/2020 16:50	0.21	7.83	0.1	0.7
19	2/26/2020 13:40	0.23	12.92	0.04	0.5
20	2/29/2020 2:10	0.03	5	0.01	2
21	3/2/2020 9:50	0.41	32.83	0.13	2.1
22	3/4/2020 12:25	0.02	0.67	0.02	0.7
23	3/6/2020 8:45	0.21	16.42	0.04	1.8
24	3/10/2020 1:05	0.35	10.75	0.08	3
25	3/12/2020 23:45	0.36	2.58	0.25	2.5
26	3/16/2020 18:20	0.02	1.17	0.01	3.7
27	3/18/2020 14:50	1.28	7.08	0.28	1.8
28	3/19/2020 17:20	0.39	14.58	0.28	0.8
29	3/22/2020 19:30	0.2	15.83	0.06	2.5
30	3/26/2020 18:45	0.2	6.75	0.07	3.3
31	3/27/2020 21:00	2.82	29.42	0.85	0.8
32	3/30/2020 6:15	0.1	12.83	0.07	1.2
33	4/1/2020 8:00	0.02	1.33	0.01	1.5
34	4/7/2020 6:10	0.24	2.58	0.14	5.9
35	4/7/2020 22:30	0.85	2.83	0.47	0.6
36	4/9/2020 3:05	0.4	25.83	0.16	1.1
37	4/12/2020 5:45	0.01	0.08	0.01	2
38	4/12/2020 22:15	0.47	13.5	0.11	0.7

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 15:15	0.16	10.75	0.07	2.1
40	4/17/2020 10:05	0.35	8.58	0.07	1.3
41	4/19/2020 17:15	0.01	0.08	0.01	1.9
42	4/21/2020 2:25	0.04	1.17	0.03	1.4
43	4/22/2020 18:30	0.07	1.83	0.05	1.6
44	4/23/2020 15:25	0.15	13.33	0.06	0.8
45	4/26/2020 0:15	0.72	14	0.14	1.8
46	4/27/2020 22:35	0.06	4.67	0.03	1.3
47	4/28/2020 21:20	0.05	1.67	0.04	0.8
48	4/29/2020 17:35	0.34	24.92	0.08	0.8
49	5/1/2020 6:45	0.05	1.92	0.03	0.5
50	5/2/2020 19:35	0.01	0.08	0.01	1.5
51	5/9/2020 5:05	0.01	0.08	0.01	6.4
52	5/10/2020 17:15	0.47	13.33	0.23	1.5
53	5/11/2020 20:55	0.01	0.08	0.01	0.6
54	5/14/2020 9:15	2.26	34.17	0.83	2.5
55	5/17/2020 7:50	0.39	10.08	0.28	1.5
56	5/18/2020 7:40	1.6	22.58	0.5	0.6
57	5/22/2020 2:45	0.45	13.42	0.16	2.9
58	5/28/2020 3:30	0.25	10	0.13	5.5
59	5/29/2020 12:05	0.35	11.08	0.21	0.9
60	6/2/2020 0:55	0.01	0.08	0.01	3.1
61	6/4/2020 14:10	0.04	0.42	0.04	2.5
62	6/10/2020 18:45	0.38	9.58	0.36	6.2
63	6/13/2020 0:10	0.07	0.33	0.07	1.8
64	6/21/2020 22:35	0.44	13.75	0.15	8.9
65	6/23/2020 6:20	0.43	5.33	0.37	0.8
66	6/27/2020 1:55	0.26	3.08	0.2	3.6
67	6/27/2020 22:25	0.01	0.08	0.01	0.7
68	7/7/2020 12:35	0.05	0.17	0.05	9.6
69	7/10/2020 22:50	0.6	10.75	0.23	3.4
70	7/19/2020 16:30	0.66	0.92	0.66	8.3
71	7/22/2020 2:00	0.44	3.08	0.2	2.4
72	7/22/2020 21:25	0.04	1.25	0.03	0.7
73	7/23/2020 13:40	0.03	0.58	0.03	0.6
74	7/24/2020 6:45	0.01	0.08	0.01	0.7
75	7/27/2020 14:15	1.44	11.67	0.59	3.3
76	8/1/2020 11:05	1.31	28.5	0.85	4.4

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 3:35	1.22	12.83	1.06	0.5
78	8/4/2020 7:00	0.43	10.83	0.3	0.6
79	8/16/2020 11:30	0.4	2.75	0.3	11.7
80	8/17/2020 13:25	0.18	0.92	0.18	1
81	8/18/2020 5:40	0.01	0.08	0.01	0.6
82	8/23/2020 16:40	0.16	0.58	0.16	5.5
83	8/26/2020 8:35	0.08	2.58	0.07	2.6
84	8/27/2020 15:00	0.05	0.33	0.05	1.2
85	8/28/2020 9:05	2.21	20.25	0.78	0.7
86	9/2/2020 4:05	0.23	8.17	0.13	3.9
87	9/7/2020 6:30	4.46	9.67	1.52	4.8
88	9/13/2020 7:05	0.28	1.58	0.22	5.6
89	9/28/2020 16:10	1.97	13	1.05	15.3
90	9/30/2020 15:50	0.03	4.92	0.02	1.4
91	10/1/2020 13:15	0.83	17.83	0.29	0.7
92	10/4/2020 16:05	0.25	11.83	0.16	2.4
93	10/10/2020 20:40	0.01	0.08	0.01	5.7
94	10/12/2020 22:10	0.73	3.58	0.56	2.1
95	10/15/2020 12:20	0.17	5.58	0.05	2.4
96	10/18/2020 12:35	0.03	0.92	0.03	2.8
97	10/19/2020 2:25	0.79	30.17	0.1	0.5
98	10/20/2020 23:45	1	12.58	0.33	0.6
99	10/23/2020 16:45	0.55	8.67	0.2	2.2
100	10/26/2020 2:10	0.23	23.92	0.04	2
101	10/27/2020 14:50	0.3	16.33	0.04	0.5
102	10/29/2020 3:15	1.58	32.75	0.23	0.8
103	11/1/2020 7:35	0.12	12.92	0.09	1.8
104	11/11/2020 0:25	0.17	7.42	0.06	9.2
105	11/15/2020 0:10	0.27	13.83	0.09	3.7
106	11/17/2020 4:40	0.13	5.33	0.04	1.6
107	11/22/2020 7:05	0.68	11.92	0.17	4.9
108	11/24/2020 16:45	0.02	0.25	0.02	1.9
109	11/25/2020 10:10	0.72	25.08	0.19	0.7
110	11/30/2020 5:10	2.69	60.17	0.15	3.7
111	12/3/2020 12:05	0.02	1.08	0.01	0.8
112	12/5/2020 14:05	0.09	1.5	0.06	2
113	12/12/2020 7:35	0.17	9.58	0.08	6.7
114	12/13/2020 5:50	0.06	3	0.04	0.5

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 11:15	0.15	48.08	0.03	3.1
116	12/19/2020 22:10	0.1	3.17	0.04	1.5
117	12/21/2020 16:35	0.17	10.83	0.09	1.6
118	12/23/2020 19:35	0.54	54.92	0.06	1.7
119	12/27/2020 22:40	0.09	3.67	0.05	1.8
120	12/28/2020 18:10	0.01	0.08	0.01	0.7
121	12/29/2020 23:30	0.02	0.33	0.02	1.2
122	12/30/2020 14:00	0.45	8.25	0.13	0.6

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 10:05	0.09	2.17	0.04	0.4
2	1/3/2020 4:45	0.62	46.33	0.06	1.7
3	1/8/2020 1:05	0.01	0.08	0.01	2.9
4	1/9/2020 13:15	0.8	60.25	0.09	1.5
5	1/15/2020 18:00	0.15	4.42	0.13	3.7
6	1/18/2020 1:25	0.82	15.75	0.19	2.1
7	1/19/2020 20:50	0.14	19.58	0.03	1.2
8	1/24/2020 9:25	0.6	35.25	0.13	3.7
9	1/26/2020 16:40	0.02	1.42	0.01	0.8
10	1/27/2020 12:35	0.01	0.08	0.01	0.8
11	1/28/2020 14:25	0.02	7.92	0.01	1.1
12	2/1/2020 18:55	0.06	11.08	0.03	3.9
13	2/4/2020 14:55	0.18	4.58	0.07	2.4
14	2/5/2020 20:35	0.56	44.08	0.12	1
15	2/8/2020 13:15	0.01	0.08	0.01	0.9
16	2/9/2020 18:10	0.25	14	0.06	1.2
17	2/12/2020 19:15	0.47	31.58	0.11	2.5
18	2/17/2020 23:25	0.37	5.83	0.11	3.9
19	2/24/2020 20:45	0.19	4.42	0.05	6.6
20	2/25/2020 17:25	0.53	43.17	0.05	0.7
21	2/29/2020 1:05	0.08	6.17	0.03	1.5
22	3/2/2020 10:00	0.43	32.92	0.15	2.1
23	3/4/2020 12:25	0.06	1.75	0.05	0.7
24	3/6/2020 7:35	0.14	8.58	0.03	1.7
25	3/10/2020 2:00	0.35	10.67	0.09	3.4
26	3/12/2020 22:30	0.4	3.75	0.26	2.4
27	3/16/2020 18:15	0.09	12.83	0.04	3.7
28	3/18/2020 15:10	1.48	13.58	0.33	1.3
29	3/19/2020 17:35	0.41	14.5	0.29	0.5
30	3/22/2020 20:15	0.17	11.92	0.07	2.5
31	3/25/2020 2:00	0.03	2.25	0.02	1.7
32	3/26/2020 18:55	0.3	6.75	0.1	1.6
33	3/27/2020 22:45	2.72	28	1.05	0.9
34	3/30/2020 11:05	0.13	7.58	0.06	1.3
35	4/1/2020 0:05	0.09	8.5	0.05	1.2
36	4/7/2020 7:00	1.11	27	0.54	5.9
37	4/9/2020 5:20	0.27	18.83	0.07	0.8
38	4/12/2020 5:45	0.02	0.33	0.02	2.2

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:15	0.64	14.42	0.16	0.6
40	4/15/2020 14:35	0.25	12.5	0.08	2.1
41	4/17/2020 10:35	0.33	8.58	0.07	1.3
42	4/19/2020 18:00	0.01	0.08	0.01	2
43	4/21/2020 2:35	0.09	1.42	0.06	1.4
44	4/22/2020 18:15	0.11	2.42	0.05	1.6
45	4/23/2020 17:30	0.14	12.67	0.05	0.9
46	4/26/2020 0:10	0.59	14.17	0.12	1.8
47	4/27/2020 23:05	0.03	2.08	0.02	1.4
48	4/28/2020 18:55	0.6	63.42	0.24	0.7
49	5/2/2020 21:15	0.21	0.25	0.21	1.5
50	5/9/2020 5:05	0.01	0.08	0.01	6.3
51	5/10/2020 17:30	0.49	19.5	0.16	1.5
52	5/14/2020 9:30	2.9	34.17	0.99	2.9
53	5/17/2020 15:55	0.39	1.67	0.37	1.8
54	5/18/2020 7:25	0.79	23	0.18	0.6
55	5/22/2020 3:10	0.45	9.17	0.21	2.9
56	5/25/2020 15:20	0.26	3.83	0.17	3.1
57	5/28/2020 3:50	0.29	10	0.17	2.4
58	5/29/2020 12:20	0.46	4.58	0.35	0.9
59	5/30/2020 5:10	0.01	0.08	0.01	0.5
60	6/1/2020 23:55	0.04	1	0.04	2.8
61	6/4/2020 14:30	0.07	0.42	0.07	2.6
62	6/10/2020 19:20	0.4	1.08	0.39	6.2
63	6/13/2020 0:20	0.06	8.08	0.05	2.2
64	6/21/2020 13:00	0.79	23.92	0.26	8.2
65	6/23/2020 6:20	0.44	6.08	0.35	0.7
66	6/26/2020 22:30	0.66	6.58	0.31	3.4
67	6/30/2020 12:40	0.02	0.17	0.02	3.3
68	7/7/2020 12:20	1.68	2.08	1.62	7
69	7/9/2020 19:05	0.01	0.08	0.01	2.2
70	7/10/2020 14:10	1.41	20.33	0.41	0.8
71	7/19/2020 16:35	0.27	2.25	0.26	8.3
72	7/22/2020 2:25	0.29	2.92	0.19	2.3
73	7/23/2020 12:15	0.24	4.33	0.23	1.3
74	7/27/2020 13:00	2.95	14.83	2.01	3.9
75	8/1/2020 10:00	0.33	25.83	0.15	4.3
76	8/3/2020 15:15	0.23	1.58	0.2	1.1

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 7:00	0.34	20.08	0.17	0.6
78	8/16/2020 11:40	0.14	2.58	0.09	11.4
79	8/17/2020 13:55	0.03	0.5	0.03	1
80	8/23/2020 17:05	0.02	0.42	0.02	6.1
81	8/26/2020 9:20	0.18	1.92	0.16	2.7
82	8/28/2020 8:35	3.8	20.92	2.06	1.9
83	9/2/2020 3:55	0.22	8.75	0.13	3.9
84	9/7/2020 6:30	4.34	7.08	1.4	4.7
85	9/13/2020 7:25	0.37	1.33	0.34	5.7
86	9/28/2020 16:40	1.56	13.42	0.63	15.3
87	9/30/2020 16:05	0.02	4.25	0.01	1.4
88	10/1/2020 13:25	0.54	18.42	0.2	0.7
89	10/4/2020 16:45	0.23	11.83	0.14	2.4
90	10/10/2020 21:15	0.01	0.08	0.01	5.7
91	10/12/2020 22:40	0.44	4.08	0.3	2.1
92	10/15/2020 12:40	0.11	5.75	0.03	2.4
93	10/18/2020 12:50	0.02	0.83	0.02	2.8
94	10/19/2020 2:45	0.76	30.58	0.1	0.5
95	10/21/2020 0:30	0.57	14.25	0.15	0.6
96	10/23/2020 17:20	0.46	8.92	0.19	2.1
97	10/26/2020 2:50	0.23	19.42	0.04	2
98	10/27/2020 14:40	0.26	15.58	0.04	0.7
99	10/29/2020 2:55	1.22	29.17	0.15	0.9
100	11/1/2020 7:45	0.14	19.08	0.07	2
101	11/11/2020 0:35	0.06	3.42	0.04	8.9
102	11/15/2020 0:25	0.21	22.42	0.06	3.9
103	11/17/2020 4:05	0.29	12.08	0.08	1.2
104	11/18/2020 9:40	0.05	3.5	0.02	0.7
105	11/22/2020 7:10	0.69	25.33	0.24	3.8
106	11/24/2020 17:00	0.02	0.33	0.02	1.4
107	11/25/2020 10:45	0.5	28.5	0.15	0.7
108	11/27/2020 20:30	0.01	0.08	0.01	1.2
109	11/30/2020 4:55	1.46	39.42	0.13	2.3
110	12/5/2020 12:10	0.02	3.92	0.01	3.7
111	12/12/2020 9:10	0.09	8.33	0.05	6.7
112	12/13/2020 6:00	0.06	6	0.02	0.5
113	12/16/2020 12:50	0.01	0.08	0.01	3
114	12/17/2020 10:00	0.2	28.17	0.06	0.9

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 18:45	0.2	12.92	0.03	1.2
116	12/21/2020 16:35	0.21	16.75	0.07	1.4
117	12/23/2020 19:45	0.39	40.5	0.05	1.4
118	12/26/2020 2:05	0.01	1.33	0.01	0.6
119	12/27/2020 23:05	0.09	3.58	0.04	1.8
120	12/28/2020 17:40	0.01	8.25	0.01	0.6
121	12/30/2020 0:00	0.01	0.08	0.01	0.9
122	12/30/2020 14:05	0.33	8	0.11	0.6

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:35	0.37	44.25	0.06	2.3
2	1/8/2020 7:45	0.01	0.08	0.01	3.2
3	1/10/2020 0:35	1.3	48.42	0.14	1.7
4	1/15/2020 17:50	0.09	0.92	0.09	3.7
5	1/18/2020 1:10	0.73	15.33	0.16	2.3
6	1/19/2020 23:40	0.02	1.25	0.01	1.3
7	1/24/2020 7:15	0.47	37.17	0.07	4.3
8	1/26/2020 18:10	0.01	0.08	0.01	0.9
9	1/28/2020 18:55	0.01	0.08	0.01	2
10	2/1/2020 19:00	0.05	2.08	0.04	4
11	2/4/2020 14:45	0.15	12.67	0.07	2.7
12	2/5/2020 18:55	0.44	50.33	0.1	0.6
13	2/8/2020 15:30	0.03	1.08	0.02	0.8
14	2/9/2020 18:00	0.28	13.17	0.06	1.1
15	2/12/2020 19:30	0.39	22.42	0.09	2.5
16	2/17/2020 23:10	0.23	6.83	0.08	4.2
17	2/24/2020 20:00	0.24	4.67	0.11	6.6
18	2/25/2020 18:15	0.39	31.5	0.05	0.7
19	2/29/2020 1:10	0.04	3.42	0.02	2
20	3/2/2020 8:40	0.06	9.92	0.02	2.2
21	3/3/2020 10:55	0.34	7.58	0.17	0.7
22	3/4/2020 12:10	0.03	1.58	0.02	0.7
23	3/6/2020 8:15	0.1	8.25	0.03	1.8
24	3/10/2020 0:45	0.31	10.75	0.09	3.3
25	3/11/2020 6:10	0.01	0.08	0.01	0.8
26	3/12/2020 23:40	0.33	2.42	0.25	1.7
27	3/16/2020 18:10	0.02	1.42	0.01	3.7
28	3/18/2020 14:50	1.24	7.08	0.43	1.8
29	3/19/2020 18:10	0.19	13	0.08	0.8
30	3/22/2020 19:45	0.23	15.17	0.07	2.5
31	3/26/2020 18:40	0.28	6.75	0.08	3.3
32	3/27/2020 21:05	2.58	29.25	0.62	0.8
33	3/30/2020 17:55	0.06	0.42	0.06	1.6
34	4/1/2020 7:20	0.01	0.08	0.01	1.5
35	4/7/2020 5:45	0.29	2.67	0.18	5.9

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
36	4/7/2020 22:20	1.02	2.83	0.76	0.6
37	4/8/2020 23:40	0.28	28.92	0.08	0.9
38	4/12/2020 11:35	0.39	23.33	0.12	2.3
39	4/15/2020 14:35	0.17	11	0.05	2.2
40	4/17/2020 10:10	0.41	8.5	0.09	1.4
41	4/19/2020 19:35	0.01	0.08	0.01	2
42	4/21/2020 2:15	0.05	1.17	0.04	1.3
43	4/22/2020 18:25	0.06	2	0.04	1.6
44	4/23/2020 20:50	0.08	6.75	0.05	1
45	4/26/2020 1:00	0.6	8	0.2	1.9
46	4/27/2020 22:25	0.06	4.42	0.03	1.6
47	4/28/2020 18:20	0.31	46.08	0.08	0.6
48	5/2/2020 21:00	0.01	0.08	0.01	2.2
49	5/8/2020 16:45	0.05	11.83	0.02	5.8
50	5/10/2020 15:35	0.47	15.25	0.21	1.5
51	5/11/2020 20:30	0.01	0.08	0.01	0.6
52	5/14/2020 9:05	3.72	41.83	1.56	2.5
53	5/17/2020 15:55	0.75	1.25	0.71	1.5
54	5/18/2020 7:00	1.53	28.08	0.38	0.6
55	5/22/2020 3:05	0.58	11	0.17	2.7
56	5/23/2020 2:40	0.01	0.08	0.01	0.5
57	5/28/2020 4:00	0.11	9.5	0.05	5.1
58	5/29/2020 11:25	0.6	5	0.35	0.9
59	6/1/2020 23:10	0.07	1.75	0.05	3.3
60	6/10/2020 18:30	0.41	0.83	0.41	8.7
61	6/12/2020 23:55	0.04	0.58	0.04	2.2
62	6/18/2020 19:20	0.05	4.42	0.04	5.8
63	6/21/2020 21:35	0.32	13.5	0.14	2.9
64	6/23/2020 6:10	0.67	4.83	0.62	0.8
65	6/26/2020 12:25	0.01	0.08	0.01	3.1
66	6/27/2020 1:40	0.17	3.08	0.13	0.5
67	6/27/2020 21:50	0.02	0.33	0.02	0.7
68	7/10/2020 19:50	1.25	13.17	0.84	12.9
69	7/19/2020 16:25	0.18	0.33	0.18	8.3
70	7/22/2020 2:05	0.39	5.92	0.26	2.4

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
71	7/23/2020 11:35	0.83	15.25	0.55	1.1
72	7/27/2020 14:45	0.62	14.92	0.39	3.5
73	7/29/2020 22:50	0.01	0.08	0.01	1.7
74	8/1/2020 8:20	1.01	32.33	0.46	2.4
75	8/3/2020 13:10	0.31	1.83	0.25	0.9
76	8/4/2020 9:05	0.07	0.5	0.07	0.8
77	8/4/2020 23:05	0.02	3.58	0.01	0.6
78	8/15/2020 14:55	0.01	0.08	0.01	10.5
79	8/16/2020 11:00	1.1	2.58	0.83	0.8
80	8/17/2020 2:15	0.22	28.83	0.17	0.5
81	8/26/2020 6:40	0.46	4.33	0.4	8
82	8/27/2020 14:55	0.02	0.08	0.02	1.2
83	8/28/2020 8:05	3.83	21.25	1.38	0.7
84	9/2/2020 3:15	0.32	6.33	0.21	3.9
85	9/3/2020 1:30	0.01	0.08	0.01	0.7
86	9/7/2020 6:10	3.4	7.75	1.11	4.2
87	9/13/2020 6:40	0.24	1.75	0.2	5.7
88	9/28/2020 16:05	1.35	6.83	0.71	15.3
89	9/30/2020 20:00	0.02	0.25	0.02	1.9
90	10/1/2020 12:25	0.39	18.5	0.11	0.7
91	10/4/2020 14:50	0.19	2.58	0.15	2.3
92	10/10/2020 20:40	0.01	0.08	0.01	6.1
93	10/12/2020 22:00	0.46	2.33	0.35	2.1
94	10/15/2020 12:10	0.16	4.25	0.07	2.5
95	10/18/2020 12:20	0.08	1.08	0.07	2.8
96	10/19/2020 2:05	0.8	32.25	0.09	0.5
97	10/20/2020 23:25	2.47	8.5	0.87	0.5
98	10/22/2020 1:05	0.03	2.08	0.02	0.7
99	10/23/2020 17:15	0.6	7.58	0.41	1.6
100	10/26/2020 6:45	0.07	12.92	0.02	2.2
101	10/27/2020 14:50	0.18	12.25	0.07	0.8
102	10/29/2020 3:30	0.86	31.5	0.13	1
103	11/1/2020 7:40	0.07	13.17	0.05	1.9
104	11/11/2020 1:45	0.06	5.08	0.03	9.2
105	11/14/2020 23:45	0.39	13.42	0.13	3.7

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
106	11/17/2020 4:35	0.11	10.08	0.03	1.6
107	11/22/2020 7:00	0.71	10.08	0.15	4.7
108	11/24/2020 16:30	0.03	0.58	0.03	2
109	11/25/2020 10:10	0.56	24.83	0.15	0.7
110	11/27/2020 19:35	0.03	0.75	0.03	1.4
111	11/30/2020 4:30	2.94	40	0.14	2.3
112	12/5/2020 12:35	0.02	2.67	0.01	3.7
113	12/7/2020 5:30	0.02	1.5	0.01	1.6
114	12/12/2020 7:35	0.23	8.58	0.17	5
115	12/13/2020 5:30	0.06	2.33	0.04	0.6
116	12/16/2020 11:10	0.12	46	0.02	3.1
117	12/19/2020 18:55	0.14	20.83	0.04	1.4
118	12/21/2020 16:05	0.15	17.17	0.08	1
119	12/23/2020 18:50	0.45	38.08	0.07	1.4
120	12/26/2020 2:05	0.01	0.08	0.01	0.7
121	12/27/2020 22:05	0.08	4.25	0.05	1.8
122	12/29/2020 23:10	0.05	1.92	0.04	1.9
123	12/30/2020 13:30	0.34	8.08	0.08	0.5

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:10	0.45	45.42	0.05	2.2
2	1/10/2020 0:50	1.11	48.5	0.11	4.9
3	1/15/2020 18:00	0.08	1.08	0.07	3.7
4	1/18/2020 1:35	0.67	15.33	0.17	2.3
5	1/19/2020 21:50	0.18	7.58	0.07	1.2
6	1/24/2020 10:05	0.54	34.58	0.08	4.2
7	2/1/2020 19:05	0.03	1.75	0.02	6.9
8	2/4/2020 14:45	0.15	4.42	0.07	2.7
9	2/5/2020 20:20	0.22	2.58	0.1	1
10	2/6/2020 11:10	0.18	27.83	0.05	0.5
11	2/8/2020 15:55	0.01	0.08	0.01	1
12	2/9/2020 17:05	0.28	14.5	0.06	1
13	2/12/2020 19:35	0.37	22.5	0.09	2.5
14	2/17/2020 23:20	0.26	6.17	0.07	4.2
15	2/24/2020 20:25	0.19	4.67	0.06	6.6
16	2/25/2020 15:10	0.15	9.42	0.06	0.6
17	2/26/2020 13:30	0.23	18.67	0.04	0.5
18	2/29/2020 1:40	0.04	2.08	0.02	1.7
19	3/2/2020 9:55	0.09	9.75	0.03	2.3
20	3/3/2020 11:05	0.34	7.58	0.13	0.6
21	3/4/2020 12:10	0.04	0.83	0.04	0.7
22	3/6/2020 6:55	0.08	16.5	0.03	1.7
23	3/10/2020 1:05	0.31	10.92	0.11	3.1
24	3/12/2020 23:25	0.34	2.25	0.26	2.5
25	3/16/2020 18:15	0.02	1.08	0.01	3.7
26	3/18/2020 15:00	1.35	6.92	0.41	1.8
27	3/19/2020 17:40	0.16	14.17	0.05	0.8
28	3/22/2020 19:45	0.18	15.58	0.06	2.5
29	3/26/2020 18:45	0.34	6.5	0.12	3.3
30	3/27/2020 21:15	3.61	37	1.52	0.8
31	3/30/2020 17:15	0.03	1.75	0.02	1.3
32	4/7/2020 6:05	1.14	19.33	0.65	7.5
33	4/9/2020 5:00	0.23	17.25	0.09	1.1
34	4/12/2020 11:45	0.42	23.58	0.09	2.6
35	4/15/2020 14:55	0.16	10.5	0.05	2.1
36	4/17/2020 10:15	0.34	8.33	0.07	1.4
37	4/19/2020 19:50	0.01	0.08	0.01	2.1
38	4/21/2020 2:20	0.11	1.42	0.07	1.3

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/22/2020 18:35	0.1	1.83	0.06	1.6
40	4/23/2020 20:45	0.16	7.67	0.07	1
41	4/26/2020 0:35	0.54	12.33	0.15	1.8
42	4/27/2020 22:35	0.04	1	0.04	1.4
43	4/28/2020 18:40	0.34	4	0.26	0.8
44	4/29/2020 18:10	0.26	22.5	0.07	0.8
45	5/1/2020 6:15	0.05	2.33	0.03	0.6
46	5/2/2020 21:00	0.21	0.42	0.21	1.5
47	5/9/2020 4:30	0.01	0.08	0.01	6.3
48	5/10/2020 10:15	0.6	25.17	0.24	1.2
49	5/14/2020 9:15	3.01	32.92	1.04	2.9
50	5/17/2020 15:55	0.79	2.5	0.51	1.9
51	5/18/2020 8:00	1.82	22.08	0.52	0.6
52	5/22/2020 2:45	0.51	9.58	0.25	2.9
53	5/28/2020 4:35	0.16	3.92	0.11	5.7
54	5/29/2020 12:10	0.47	4.5	0.25	1.2
55	6/1/2020 23:35	0.05	0.75	0.05	3.3
56	6/10/2020 18:45	0.66	0.75	0.66	8.8
57	6/13/2020 0:00	0.08	0.5	0.08	2.2
58	6/18/2020 19:20	0.42	0.5	0.42	5.8
59	6/21/2020 15:10	0.51	21.92	0.15	2.8
60	6/23/2020 6:25	0.39	5.42	0.36	0.7
61	6/26/2020 22:10	0.33	6.58	0.19	3.4
62	7/8/2020 14:00	0.08	0.25	0.08	11.4
63	7/10/2020 18:05	0.45	15.67	0.17	2.2
64	7/19/2020 16:35	0.16	0.42	0.16	8.3
65	7/22/2020 2:10	0.47	6.08	0.24	2.4
66	7/22/2020 21:30	0.01	0.08	0.01	0.6
67	7/23/2020 12:00	0.62	2.08	0.58	0.6
68	7/27/2020 14:05	1.02	12	0.47	4
69	8/1/2020 10:20	1.11	29.83	0.67	4.3
70	8/3/2020 8:35	1.26	6.83	0.87	0.7
71	8/4/2020 6:55	0.01	0.08	0.01	0.6
72	8/5/2020 1:35	0.01	0.08	0.01	0.8
73	8/16/2020 11:20	0.38	2.58	0.24	11.4
74	8/17/2020 13:35	0.07	1.33	0.04	1
75	8/23/2020 17:35	0.1	0.33	0.1	6.1
76	8/26/2020 8:45	0.04	0.75	0.04	2.6

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/28/2020 8:15	4.26	21.08	1.72	1.9
78	9/2/2020 3:40	0.26	6.33	0.11	3.9
79	9/7/2020 6:15	3.19	7.75	1.02	4.8
80	9/10/2020 7:00	0.01	0.08	0.01	2.7
81	9/13/2020 7:20	0.14	0.92	0.14	3
82	9/28/2020 15:45	1.8	7.92	0.82	15.3
83	9/30/2020 19:55	0.03	0.5	0.03	1.8
84	10/1/2020 12:55	1	18.25	0.28	0.7
85	10/4/2020 15:15	0.25	2.92	0.17	2.3
86	10/10/2020 20:55	0.01	0.08	0.01	6.1
87	10/12/2020 22:10	0.61	2.92	0.44	2
88	10/15/2020 12:10	0.18	5.33	0.07	2.5
89	10/18/2020 13:15	0.06	0.67	0.06	2.8
90	10/19/2020 2:40	0.89	31.17	0.09	0.5
91	10/20/2020 23:40	1.46	12.75	0.4	0.6
92	10/22/2020 0:35	0.09	7.83	0.05	0.5
93	10/23/2020 17:25	0.66	7.92	0.45	1.4
94	10/26/2020 2:20	0.28	23.58	0.04	2
95	10/27/2020 14:50	0.32	16.08	0.07	0.5
96	10/29/2020 3:30	1.22	32.33	0.16	0.9
97	11/1/2020 7:30	0.11	12.92	0.09	1.8
98	11/11/2020 2:00	0.1	4.75	0.05	9.2
99	11/15/2020 0:05	0.32	13.25	0.1	3.7
100	11/17/2020 4:45	0.12	4.67	0.06	1.6
101	11/22/2020 7:15	0.71	11.75	0.13	4.9
102	11/24/2020 16:55	0.01	0.08	0.01	1.9
103	11/25/2020 10:40	0.6	21.33	0.13	0.7
104	11/27/2020 20:05	0.02	0.75	0.02	1.5
105	11/30/2020 4:55	2.57	60.75	0.15	2.3
106	12/3/2020 12:50	0.02	1.5	0.01	0.8
107	12/5/2020 14:10	0.06	1.08	0.05	2
108	12/12/2020 7:40	0.24	8.75	0.17	6.7
109	12/13/2020 5:20	0.03	5.67	0.01	0.5
110	12/16/2020 11:45	0.01	0.08	0.01	3
111	12/17/2020 0:20	0.07	27.25	0.01	0.5
112	12/19/2020 20:20	0.12	4.75	0.05	1.7
113	12/20/2020 16:15	0.01	0.08	0.01	0.6
114	12/21/2020 19:40	0.13	6.58	0.06	1.1

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:30	0.43	37.33	0.06	1.7
116	12/27/2020 22:25	0.1	4	0.06	2.6
117	12/28/2020 17:30	0.01	0.08	0.01	0.6
118	12/29/2020 23:30	0.03	0.5	0.03	1.2
119	12/30/2020 13:45	0.37	8.5	0.1	0.6

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.53	38.67	0.06	2.2
2	1/5/2020 6:40	0.01	0.08	0.01	0.5
3	1/10/2020 0:35	1.19	52.5	0.11	4.7
4	1/15/2020 17:25	0.15	3.5	0.14	3.5
5	1/18/2020 1:25	0.82	15.5	0.19	2.2
6	1/19/2020 23:25	0.02	6.25	0.01	1.3
7	1/24/2020 6:35	0.74	36.75	0.11	4
8	1/26/2020 17:50	0.01	0.08	0.01	0.9
9	1/27/2020 7:30	0.01	0.08	0.01	0.6
10	2/1/2020 19:20	0.03	3.92	0.02	5.5
11	2/4/2020 14:50	0.22	4.25	0.08	2.6
12	2/5/2020 20:20	0.45	47.17	0.14	1.1
13	2/9/2020 17:45	0.28	14.75	0.06	1.9
14	2/12/2020 19:10	0.47	23.5	0.13	2.4
15	2/17/2020 23:10	0.39	6.42	0.12	4.2
16	2/24/2020 20:25	0.17	4.67	0.06	6.6
17	2/25/2020 17:35	0.23	31.33	0.04	0.7
18	3/2/2020 6:50	0.44	36	0.19	4.2
19	3/4/2020 12:10	0.04	1	0.04	0.7
20	3/6/2020 9:00	0.14	13.92	0.04	1.8
21	3/10/2020 1:10	0.43	10.75	0.1	3.1
22	3/12/2020 20:10	0.48	6.08	0.3	2.3
23	3/16/2020 18:10	0.05	1.58	0.04	3.7
24	3/17/2020 8:35	0.01	0.08	0.01	0.5
25	3/18/2020 15:00	1.7	9.75	0.4	1.3
26	3/19/2020 17:40	0.31	17.58	0.08	0.7
27	3/22/2020 19:45	0.17	12.92	0.05	2.4
28	3/25/2020 3:05	0.02	1.33	0.01	1.8
29	3/26/2020 18:45	0.15	6.83	0.06	1.6
30	3/27/2020 21:05	2.81	28.92	0.77	0.8
31	3/29/2020 21:30	0.06	8.17	0.03	0.8
32	3/30/2020 18:20	0.06	1.42	0.05	0.5
33	4/1/2020 7:50	0.02	0.25	0.02	1.5
34	4/7/2020 6:15	0.32	2.58	0.17	5.9
35	4/7/2020 22:40	0.89	6.25	0.54	0.6
36	4/9/2020 3:20	0.3	25.67	0.11	0.9
37	4/12/2020 5:30	0.01	0.08	0.01	2
38	4/12/2020 20:50	0.59	14.58	0.13	0.6

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 14:40	0.17	10.58	0.07	2.1
40	4/17/2020 9:55	0.35	17.33	0.07	1.4
41	4/19/2020 17:35	0.01	0.08	0.01	1.6
42	4/21/2020 2:20	0.09	1.67	0.06	1.4
43	4/22/2020 18:50	0.07	4.17	0.03	1.6
44	4/23/2020 20:05	0.09	6.75	0.04	0.9
45	4/25/2020 22:55	1.05	14.92	0.19	1.8
46	4/27/2020 22:40	0.07	4.5	0.04	1.4
47	4/29/2020 8:20	0.41	39.67	0.1	1.2
48	5/6/2020 3:50	0.01	0.08	0.01	5.2
49	5/9/2020 4:45	0.01	0.08	0.01	3
50	5/10/2020 17:10	0.42	14	0.23	1.5
51	5/14/2020 9:15	1.47	33.25	0.39	3.1
52	5/17/2020 7:40	1.69	51	0.32	1.5
53	5/21/2020 23:55	0.55	15.33	0.15	2.6
54	5/25/2020 17:15	0.66	3.67	0.65	3.1
55	5/28/2020 3:45	0.27	9.75	0.13	2.3
56	5/29/2020 11:35	0.51	5.25	0.36	0.9
57	6/1/2020 23:40	0.07	3.42	0.06	3.3
58	6/4/2020 14:15	0.13	0.75	0.13	2.5
59	6/10/2020 19:10	0.35	1	0.35	6.2
60	6/13/2020 0:20	0.06	2.42	0.05	2.2
61	6/18/2020 19:05	0.06	6.25	0.05	5.7
62	6/19/2020 16:25	0.02	11.08	0.01	0.6
63	6/21/2020 17:05	0.56	19.42	0.22	1.6
64	6/23/2020 6:25	0.38	5.67	0.33	0.7
65	6/26/2020 12:30	0.01	0.08	0.01	3
66	6/27/2020 3:10	0.32	6.42	0.24	0.6
67	7/7/2020 12:00	0.67	3.42	0.61	10.1
68	7/10/2020 23:10	0.62	9.92	0.27	3.3
69	7/19/2020 16:40	0.31	3.17	0.3	8.3
70	7/21/2020 4:50	0.01	0.08	0.01	1.4
71	7/22/2020 1:50	0.18	3.33	0.1	0.9
72	7/27/2020 17:35	1.03	8.83	0.6	5.5
73	8/1/2020 9:25	0.55	31.75	0.18	4.3
74	8/3/2020 8:35	0.21	7.75	0.18	0.6
75	8/4/2020 7:55	0.02	3.92	0.01	0.6
76	8/5/2020 5:15	0.01	0.08	0.01	0.7

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:50	0.42	1.33	0.36	11.3
78	8/17/2020 14:00	0.3	0.5	0.3	1
79	8/18/2020 6:45	0.01	0.08	0.01	0.7
80	8/26/2020 7:10	0.11	2.17	0.1	8
81	8/27/2020 15:20	1.16	38	0.26	1.3
82	9/2/2020 3:05	1.16	4.83	0.98	3.9
83	9/3/2020 2:25	0.01	0.08	0.01	0.8
84	9/7/2020 7:10	3.6	8.75	1.12	4.2
85	9/10/2020 7:00	0.01	0.08	0.01	2.6
86	9/13/2020 7:45	0.09	0.67	0.09	3
87	9/28/2020 16:35	1.17	7.25	0.44	15.3
88	9/29/2020 20:50	0.01	0.08	0.01	0.9
89	9/30/2020 16:20	0.01	0.08	0.01	0.8
90	10/1/2020 14:30	0.3	17.08	0.13	0.9
91	10/4/2020 16:40	0.19	1.58	0.15	2.4
92	10/12/2020 22:30	0.55	3.83	0.45	8.2
93	10/15/2020 12:35	0.13	5.5	0.04	2.4
94	10/18/2020 12:20	0.94	43.92	0.12	2.8
95	10/21/2020 0:05	0.34	13	0.12	0.7
96	10/23/2020 17:05	0.43	8.75	0.22	2.2
97	10/26/2020 2:20	0.15	24.25	0.03	2
98	10/27/2020 14:55	0.34	15.33	0.05	0.5
99	10/29/2020 2:30	1.59	33	0.19	0.8
100	11/1/2020 7:40	0.11	12.5	0.1	1.8
101	11/11/2020 0:25	0.24	6.92	0.1	9.2
102	11/15/2020 0:05	0.26	27.33	0.11	3.7
103	11/17/2020 5:00	0.09	10.08	0.02	1.1
104	11/22/2020 7:25	0.61	11.08	0.24	4.7
105	11/23/2020 7:20	0.01	0.08	0.01	0.5
106	11/25/2020 9:55	0.67	26.58	0.17	2.1
107	11/27/2020 20:20	0.01	0.08	0.01	1.3
108	11/30/2020 2:25	1.22	41.67	0.11	2.3
109	12/5/2020 15:10	0.05	1	0.05	3.8
110	12/12/2020 7:35	0.12	4.58	0.07	6.6
111	12/13/2020 5:45	0.02	0.5	0.02	0.7
112	12/16/2020 11:20	0.08	16.67	0.03	3.2
113	12/17/2020 17:25	0.03	15.67	0.01	0.6
114	12/19/2020 21:50	0.16	3.58	0.06	1.5

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/20/2020 15:50	0.01	0.08	0.01	0.6
116	12/21/2020 19:45	0.09	8.17	0.06	1.2
117	12/23/2020 18:40	0.36	37.25	0.06	1.6
118	12/26/2020 2:30	0.01	0.08	0.01	0.8
119	12/28/2020 0:15	0.02	2.33	0.01	1.9
120	12/29/2020 23:25	0.02	0.25	0.02	1.9
121	12/30/2020 13:45	0.4	8.92	0.11	0.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:50	0.56	36.58	0.06	2.3
2	1/8/2020 0:55	0.03	6.58	0.02	3.2
3	1/10/2020 0:25	1.06	49.17	0.11	1.7
4	1/15/2020 18:10	0.09	1.83	0.07	3.7
5	1/18/2020 1:45	0.7	15.75	0.17	2.2
6	1/19/2020 21:45	0.06	13.58	0.02	1.2
7	1/24/2020 7:00	0.53	41.17	0.1	3.8
8	1/26/2020 17:00	0.04	2	0.02	0.7
9	1/27/2020 8:20	0.01	0.08	0.01	0.6
10	1/28/2020 20:25	0.07	2.67	0.04	1.5
11	2/1/2020 18:25	0.06	11.67	0.02	3.8
12	2/4/2020 15:00	0.1	4.83	0.05	2.4
13	2/5/2020 20:15	0.26	2.92	0.11	1
14	2/6/2020 11:10	0.62	34.42	0.29	0.5
15	2/8/2020 15:45	0.02	0.92	0.02	0.8
16	2/9/2020 17:50	0.3	14.67	0.07	1
17	2/12/2020 19:55	0.4	30.67	0.1	2.5
18	2/17/2020 23:35	0.26	10.17	0.07	3.9
19	2/24/2020 20:40	0.18	4.25	0.06	6.5
20	2/25/2020 18:55	0.13	5.58	0.06	0.8
21	2/26/2020 13:35	0.38	14.42	0.06	0.5
22	2/27/2020 19:20	0.01	0.08	0.01	0.6
23	2/29/2020 2:00	0.01	0.08	0.01	1.3
24	3/2/2020 10:00	0.43	32.75	0.15	2.3
25	3/4/2020 12:00	0.07	1.92	0.05	0.7
26	3/6/2020 8:45	0.1	7.08	0.05	1.8
27	3/10/2020 1:20	0.28	10.42	0.12	3.4
28	3/12/2020 23:30	0.27	2.5	0.2	2.5
29	3/16/2020 18:15	0.05	2.17	0.03	3.7
30	3/18/2020 15:20	1.46	43.58	0.38	1.8
31	3/22/2020 20:15	0.19	15.17	0.07	2.4
32	3/26/2020 17:55	0.32	7.75	0.07	3.3
33	3/27/2020 22:55	3.51	35.75	1.52	0.9
34	3/30/2020 3:00	0.04	15.08	0.02	0.7
35	4/1/2020 3:35	0.04	4.58	0.03	1.4
36	4/7/2020 7:25	1.15	17.58	0.69	6
37	4/9/2020 0:20	0.38	20.17	0.12	1
38	4/12/2020 5:40	0.51	29.58	0.14	2.4

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 0:05	0.03	1.92	0.02	1.5
40	4/15/2020 15:00	0.27	13.67	0.09	0.5
41	4/17/2020 10:15	0.29	8.17	0.06	1.2
42	4/19/2020 21:00	0.05	0.58	0.05	2.1
43	4/21/2020 1:35	0.1	2.33	0.05	1.2
44	4/22/2020 18:40	0.09	2.08	0.05	1.6
45	4/23/2020 15:45	0.11	13.42	0.05	0.8
46	4/26/2020 0:35	0.59	18.67	0.13	1.8
47	4/27/2020 22:35	0.05	3.42	0.03	1.1
48	4/28/2020 19:10	0.19	3.25	0.12	0.7
49	4/29/2020 18:20	0.27	18.75	0.08	0.8
50	5/1/2020 6:10	0.12	3.92	0.06	0.7
51	5/2/2020 20:00	0.06	0.67	0.06	1.4
52	5/9/2020 4:55	0.03	0.58	0.03	6.3
53	5/10/2020 10:45	0.67	26.83	0.18	1.2
54	5/14/2020 9:35	2.37	32.92	0.89	2.8
55	5/17/2020 16:15	0.54	2.25	0.4	1.9
56	5/18/2020 7:55	0.66	22.17	0.18	0.6
57	5/22/2020 3:10	0.49	9.67	0.2	2.9
58	5/25/2020 16:05	0.08	0.25	0.08	3.1
59	5/28/2020 4:40	0.18	5	0.13	2.5
60	5/29/2020 13:15	0.46	12.58	0.31	1.1
61	6/1/2020 23:40	0.04	1.08	0.03	2.9
62	6/3/2020 6:45	0.04	0.08	0.04	1.3
63	6/10/2020 19:00	0.61	1.42	0.57	7.5
64	6/18/2020 19:40	0.11	0.67	0.11	8
65	6/21/2020 15:45	0.37	26.75	0.22	2.8
66	6/23/2020 6:40	0.52	5.33	0.47	0.5
67	6/26/2020 22:35	1.04	6.25	0.57	3.4
68	6/27/2020 22:00	0.02	0.17	0.02	0.7
69	7/10/2020 18:05	2.9	14.5	0.88	12.8
70	7/16/2020 15:10	0.02	0.17	0.02	5.3
71	7/19/2020 16:20	0.55	0.83	0.55	3
72	7/22/2020 2:45	0.27	3	0.16	2.4
73	7/22/2020 22:45	0.21	14.67	0.18	0.7
74	7/27/2020 13:55	1.28	13.42	0.54	4
75	7/29/2020 21:55	0.08	0.17	0.08	1.8
76	8/1/2020 11:55	0.56	28.33	0.32	2.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 4:40	1.19	11.5	0.93	0.5
78	8/4/2020 6:30	0.31	15.25	0.28	0.6
79	8/16/2020 11:30	0.41	1.75	0.38	11.6
80	8/17/2020 13:25	0.02	1.08	0.01	1
81	8/26/2020 9:45	0.51	1.67	0.41	8.8
82	8/27/2020 14:00	3.03	39.58	0.83	1.1
83	9/2/2020 3:25	0.57	14.25	0.22	3.9
84	9/7/2020 6:10	4.02	6.75	1.48	4.5
85	9/8/2020 12:50	0.01	0.08	0.01	1
86	9/13/2020 7:15	0.49	0.92	0.49	4.8
87	9/28/2020 16:30	1.82	7.67	0.88	15.3
88	9/30/2020 20:10	0.01	0.08	0.01	1.8
89	10/1/2020 13:00	0.74	16.92	0.25	0.7
90	10/4/2020 15:30	0.32	4.92	0.17	2.4
91	10/10/2020 19:45	0.02	0.25	0.02	6
92	10/12/2020 22:25	0.78	3.75	0.54	2.1
93	10/15/2020 12:15	0.16	15.08	0.05	2.4
94	10/18/2020 13:25	0.96	45.5	0.11	2.4
95	10/20/2020 23:50	2.01	12.25	0.73	0.5
96	10/22/2020 0:45	0.1	4.25	0.05	0.5
97	10/23/2020 17:10	0.56	8.42	0.27	1.5
98	10/26/2020 2:05	0.35	24.58	0.06	2
99	10/27/2020 15:00	0.32	15.33	0.06	0.5
100	10/29/2020 3:10	0.97	33	0.11	0.9
101	11/1/2020 7:35	0.13	7.92	0.08	1.8
102	11/11/2020 0:45	0.13	8.17	0.05	9.4
103	11/15/2020 0:20	0.35	13.08	0.1	3.6
104	11/17/2020 4:30	0.16	7.25	0.09	1.6
105	11/22/2020 7:15	0.72	11.83	0.14	4.8
106	11/23/2020 7:10	0.02	0.42	0.02	0.5
107	11/24/2020 16:55	0.01	0.08	0.01	1.4
108	11/25/2020 10:10	0.68	31.08	0.18	0.7
109	11/27/2020 20:15	0.01	0.08	0.01	1.1
110	11/30/2020 5:15	3.36	40.42	0.18	2.4
111	12/12/2020 7:55	0.23	9.42	0.14	10.4
112	12/13/2020 6:15	0.01	0.08	0.01	0.5
113	12/16/2020 18:00	0.01	0.08	0.01	3.5
114	12/17/2020 7:35	0.03	13.25	0.01	0.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2020 9:15	0.09	4.17	0.06	0.5
116	12/19/2020 22:25	0.15	3.67	0.06	1.4
117	12/20/2020 16:35	0.01	0.08	0.01	0.6
118	12/21/2020 18:45	0.09	14.42	0.05	1.1
119	12/23/2020 19:45	0.84	38.92	0.11	1.4
120	12/26/2020 2:30	0.01	0.08	0.01	0.7
121	12/27/2020 22:40	0.11	3.92	0.05	1.8
122	12/28/2020 17:10	0.01	0.08	0.01	0.6
123	12/30/2020 0:00	0.01	0.08	0.01	1.3
124	12/30/2020 13:50	0.31	7.92	0.1	0.6

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.39	43.42	0.05	2.3
2	1/8/2020 6:40	0.02	0.42	0.02	3.2
3	1/10/2020 0:45	1.1	51.75	0.13	1.7
4	1/15/2020 18:20	0.07	3.33	0.05	3.6
5	1/16/2020 12:30	0.02	0.33	0.02	0.6
6	1/18/2020 2:00	0.77	23.92	0.18	1.5
7	1/19/2020 20:00	0.12	20.08	0.05	0.8
8	1/23/2020 6:35	0.01	0.08	0.01	2.6
9	1/24/2020 9:50	0.54	38.67	0.1	1.1
10	1/26/2020 17:00	0.11	17.25	0.04	0.7
11	1/28/2020 1:25	0.01	0.08	0.01	0.6
12	2/1/2020 19:50	0.11	13.08	0.05	4.8
13	2/4/2020 15:00	0.11	3.92	0.05	2.3
14	2/5/2020 18:35	0.24	4.5	0.1	1
15	2/6/2020 11:15	0.31	54.08	0.11	0.5
16	2/9/2020 18:00	0.31	14.42	0.09	1
17	2/12/2020 20:05	0.42	21.75	0.08	2.5
18	2/17/2020 23:30	0.23	6.58	0.07	4.2
19	2/24/2020 21:05	0.17	6.67	0.06	6.6
20	2/25/2020 19:25	0.13	5.25	0.06	0.7
21	2/26/2020 13:45	0.25	11.17	0.06	0.5
22	2/28/2020 4:40	0.01	0.08	0.01	1.2
23	3/2/2020 10:10	0.53	32.83	0.16	3.2
24	3/4/2020 12:15	0.07	1.83	0.04	0.7
25	3/6/2020 9:45	0.02	9.67	0.01	1.8
26	3/10/2020 1:25	0.28	10.33	0.17	3.3
27	3/12/2020 23:40	0.31	3.75	0.19	2.5
28	3/16/2020 18:00	0.07	2.67	0.03	3.6
29	3/18/2020 15:15	1.01	10.17	0.22	1.8
30	3/19/2020 17:50	0.43	13.33	0.29	0.7
31	3/22/2020 20:40	0.19	14.92	0.08	2.6
32	3/26/2020 17:55	0.39	7.08	0.08	3.3
33	3/27/2020 23:10	2.28	35.83	0.62	0.9
34	3/30/2020 2:40	0.06	9.25	0.05	0.7
35	4/1/2020 6:45	0.03	1.08	0.02	1.8
36	4/7/2020 8:50	0.62	18.83	0.34	6
37	4/9/2020 0:10	0.36	8.08	0.14	0.9
38	4/12/2020 5:40	0.03	0.58	0.03	2.9

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:30	0.46	13.67	0.13	0.6
40	4/15/2020 8:00	0.19	20.92	0.07	1.9
41	4/17/2020 10:35	0.38	7.83	0.08	1.2
42	4/21/2020 2:10	0.12	1.5	0.08	3.3
43	4/22/2020 18:20	0.06	6.5	0.03	1.6
44	4/24/2020 0:50	0.04	1.5	0.03	1
45	4/26/2020 0:40	0.57	15.08	0.12	1.9
46	4/27/2020 22:30	0.08	6.42	0.04	1.3
47	4/28/2020 20:00	0.06	2.67	0.05	0.6
48	4/29/2020 11:20	0.33	26	0.15	0.5
49	5/1/2020 6:20	0.07	5.25	0.05	0.7
50	5/2/2020 19:30	0.01	0.08	0.01	1.3
51	5/10/2020 10:55	0.76	20.25	0.23	7.6
52	5/11/2020 20:45	0.01	0.08	0.01	0.6
53	5/14/2020 9:40	1.96	39	0.42	2.5
54	5/17/2020 16:30	1.04	36.33	0.29	1.7
55	5/22/2020 3:45	0.46	9.75	0.24	3
56	5/28/2020 7:15	0.18	2.92	0.15	5.7
57	5/29/2020 13:20	0.48	3.33	0.34	1.1
58	6/1/2020 23:50	0.05	3	0.03	3.3
59	6/3/2020 6:50	0.01	0.08	0.01	1.2
60	6/10/2020 19:05	0.71	9.17	0.65	7.5
61	6/18/2020 20:15	0.04	6.33	0.03	7.7
62	6/21/2020 22:30	0.18	14.33	0.09	2.8
63	6/23/2020 6:25	1	5.42	0.91	0.7
64	6/26/2020 22:30	1.5	6	0.87	3.4
65	6/27/2020 21:45	0.46	5.33	0.45	0.7
66	7/9/2020 15:40	0.02	0.17	0.02	11.5
67	7/10/2020 13:45	3.01	18.17	1.1	0.9
68	7/16/2020 14:30	0.03	0.83	0.03	5.3
69	7/19/2020 13:05	0.21	4	0.14	2.9
70	7/22/2020 2:50	0.21	3.58	0.12	2.4
71	7/23/2020 12:30	0.01	0.08	0.01	1.3
72	7/27/2020 12:30	0.38	13.25	0.14	4
73	7/29/2020 19:35	0.04	9.83	0.02	1.7
74	8/1/2020 12:25	1.2	28.92	0.67	2.3
75	8/3/2020 12:45	0.32	3.25	0.12	0.8
76	8/4/2020 5:55	1.33	22	0.95	0.6

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:30	0.48	2.58	0.4	11.3
78	8/26/2020 8:45	0.31	2.75	0.22	9.8
79	8/28/2020 7:05	2.8	23.25	1.04	1.8
80	9/2/2020 3:30	0.38	9.17	0.26	3.9
81	9/7/2020 5:55	2.55	6.67	0.8	4.7
82	9/10/2020 10:10	0.01	0.08	0.01	2.9
83	9/13/2020 6:50	0.52	1.33	0.45	2.9
84	9/28/2020 16:20	1.52	14.83	0.55	15.3
85	9/30/2020 19:10	0.09	0.33	0.09	1.5
86	10/1/2020 13:30	0.71	14.25	0.37	0.8
87	10/2/2020 20:35	0.17	3.58	0.07	0.7
88	10/4/2020 15:25	0.28	3	0.16	1.6
89	10/10/2020 19:35	0.05	0.58	0.05	6
90	10/12/2020 22:30	0.77	3.75	0.4	2.1
91	10/15/2020 12:05	0.24	14.42	0.07	2.4
92	10/17/2020 22:20	0.01	0.08	0.01	1.8
93	10/18/2020 13:30	0.1	0.5	0.1	0.6
94	10/19/2020 2:40	0.99	32	0.12	0.5
95	10/20/2020 23:50	2.83	10.92	1.13	0.5
96	10/22/2020 2:10	0.47	3.17	0.3	0.6
97	10/23/2020 17:25	0.51	7.75	0.18	1.5
98	10/24/2020 22:05	0.01	0.08	0.01	0.9
99	10/26/2020 2:20	0.41	18.42	0.07	1.2
100	10/27/2020 14:35	0.35	16.67	0.07	0.7
101	10/29/2020 3:55	1.23	32.67	0.24	0.9
102	11/1/2020 7:40	0.12	12.08	0.09	1.8
103	11/11/2020 0:30	0.14	7	0.05	9.2
104	11/15/2020 0:15	0.38	13.33	0.11	3.7
105	11/16/2020 23:50	0.07	15.17	0.02	1.4
106	11/22/2020 7:25	0.79	11.67	0.16	4.7
107	11/23/2020 7:05	0.03	0.42	0.03	0.5
108	11/24/2020 17:15	0.02	0.17	0.02	1.4
109	11/25/2020 10:35	0.8	28.42	0.16	0.7
110	11/30/2020 5:05	2.31	38.33	0.17	3.6
111	12/12/2020 7:40	0.32	26	0.18	10.5
112	12/16/2020 12:15	0.01	0.08	0.01	3.1
113	12/17/2020 0:50	0.02	0.67	0.02	0.5
114	12/17/2020 18:00	0.02	5.25	0.01	0.7

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2020 13:30	0.01	0.08	0.01	0.6
116	12/19/2020 18:40	0.2	11.25	0.06	1.2
117	12/21/2020 17:15	0.12	15.92	0.08	1.5
118	12/23/2020 19:45	1.05	50.25	0.1	1.4
119	12/27/2020 22:40	0.13	14.75	0.05	2
120	12/29/2020 4:25	0.01	0.08	0.01	0.6
121	12/30/2020 0:00	0.02	0.75	0.02	0.8
122	12/30/2020 14:25	0.31	7.25	0.12	0.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:45	0.47	44.92	0.06	2.2
2	1/8/2020 7:15	0.03	0.33	0.03	3.2
3	1/10/2020 0:50	0.9	51.67	0.1	1.7
4	1/15/2020 18:15	0.08	2.5	0.07	3.6
5	1/16/2020 10:25	0.01	0.08	0.01	0.6
6	1/18/2020 1:50	0.55	14.83	0.16	1.6
7	1/19/2020 21:30	0.09	7.75	0.03	1.2
8	1/24/2020 10:10	0.56	34.5	0.09	4.2
9	1/26/2020 17:15	0.03	0.75	0.03	0.9
10	1/28/2020 22:10	0.01	0.08	0.01	2.2
11	2/1/2020 19:00	0.02	0.92	0.02	3.9
12	2/4/2020 14:50	0.1	3.25	0.05	2.8
13	2/5/2020 19:05	0.23	3.92	0.11	1
14	2/6/2020 11:15	0.45	28	0.3	0.5
15	2/8/2020 16:00	0.02	0.58	0.02	1
16	2/9/2020 18:35	0.23	12.83	0.06	1.1
17	2/12/2020 19:55	0.36	21.83	0.1	2.5
18	2/17/2020 23:25	0.22	4.92	0.07	4.2
19	2/24/2020 20:15	0.18	4.58	0.05	6.7
20	2/25/2020 18:45	0.12	5.83	0.05	0.7
21	2/26/2020 13:40	0.35	14.17	0.05	0.5
22	2/27/2020 22:00	0.01	0.08	0.01	0.8
23	2/29/2020 0:40	0.05	3.25	0.02	1.1
24	3/2/2020 10:00	0.05	9.17	0.02	2.3
25	3/3/2020 7:45	0.31	11	0.13	0.5
26	3/4/2020 12:10	0.05	0.92	0.05	0.7
27	3/6/2020 9:15	0.05	5.17	0.02	1.8
28	3/10/2020 1:05	0.21	10.58	0.09	3.4
29	3/12/2020 23:20	0.28	2.5	0.2	2.5
30	3/16/2020 19:15	0.01	0.08	0.01	3.7
31	3/17/2020 7:30	0.01	0.08	0.01	0.5
32	3/18/2020 15:30	1.29	13.08	0.45	1.3
33	3/19/2020 17:35	0.22	17.33	0.06	0.5
34	3/22/2020 20:20	0.16	15	0.06	2.4
35	3/26/2020 18:00	0.31	7.25	0.08	3.3
36	3/27/2020 22:40	3.5	35.67	1.33	0.9
37	3/30/2020 2:55	0.01	0.08	0.01	0.7
38	3/30/2020 17:55	0.02	2.5	0.01	0.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/1/2020 8:10	0.01	0.08	0.01	1.5
40	4/7/2020 6:50	1.24	22.58	0.56	5.9
41	4/9/2020 5:00	0.25	8.92	0.08	1
42	4/12/2020 5:40	0.38	29.5	0.09	2.7
43	4/15/2020 14:25	0.22	12.17	0.06	2.1
44	4/17/2020 10:10	0.41	8.33	0.08	1.3
45	4/19/2020 20:45	0.02	0.42	0.02	2.1
46	4/21/2020 2:25	0.09	1.42	0.06	1.2
47	4/22/2020 18:25	0.12	2.33	0.06	1.6
48	4/23/2020 23:40	0.12	3.25	0.06	1.1
49	4/26/2020 0:25	0.52	13.58	0.14	1.9
50	4/27/2020 23:15	0.02	2.83	0.01	1.4
51	4/28/2020 19:00	0.28	3.67	0.15	0.7
52	4/29/2020 20:55	0.34	20.67	0.2	0.9
53	5/1/2020 7:05	0.09	1.42	0.07	0.6
54	5/2/2020 21:10	0.01	0.08	0.01	1.5
55	5/9/2020 5:15	0.01	0.08	0.01	6.3
56	5/10/2020 10:20	0.72	20.5	0.28	1.2
57	5/11/2020 20:20	0.01	0.08	0.01	0.6
58	5/14/2020 9:25	2.55	32.92	1.14	2.5
59	5/17/2020 16:00	0.73	2.58	0.57	1.9
60	5/18/2020 8:00	1.3	22.17	0.45	0.6
61	5/22/2020 2:55	0.4	9.67	0.23	2.9
62	5/28/2020 5:05	0.19	8.17	0.14	5.7
63	5/29/2020 13:10	0.48	3.58	0.31	1
64	6/1/2020 23:40	0.04	0.67	0.04	3.3
65	6/3/2020 6:40	0.01	0.08	0.01	1.3
66	6/10/2020 18:50	0.66	9.42	0.63	7.5
67	6/13/2020 0:10	0.07	0.17	0.07	1.8
68	6/18/2020 20:15	0.01	0.08	0.01	5.8
69	6/21/2020 22:05	0.24	14.33	0.09	3.1
70	6/23/2020 6:25	0.42	5.17	0.4	0.8
71	6/26/2020 22:20	0.87	6.5	0.47	3.4
72	6/27/2020 22:00	0.02	0.58	0.02	0.7
73	7/11/2020 0:00	1.11	10.25	0.53	13.1
74	7/16/2020 15:00	0.02	0.33	0.02	5.2
75	7/19/2020 16:20	0.35	0.67	0.35	3
76	7/22/2020 2:30	0.28	19.17	0.14	2.4

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/23/2020 10:55	0.78	3.58	0.6	0.6
78	7/27/2020 13:50	1.58	12.92	0.53	4
79	7/29/2020 21:55	0.05	0.25	0.05	1.8
80	8/1/2020 11:45	0.62	28.5	0.3	2.6
81	8/3/2020 12:35	0.84	3.08	0.43	0.8
82	8/4/2020 6:25	0.42	19.92	0.24	0.6
83	8/16/2020 11:25	0.49	2.58	0.37	11.4
84	8/17/2020 13:10	0.01	0.08	0.01	1
85	8/26/2020 9:00	0.15	2.58	0.12	8.8
86	8/28/2020 5:40	3.1	24	1.15	1.8
87	9/2/2020 3:45	0.35	9.08	0.18	3.9
88	9/7/2020 6:10	3.46	7.25	1.09	4.7
89	9/13/2020 7:05	0.5	1.33	0.49	5.7
90	9/28/2020 15:45	1.68	7.83	0.8	15.3
91	9/30/2020 20:15	0.02	0.42	0.02	1.9
92	10/1/2020 13:05	0.43	16.42	0.12	0.7
93	10/4/2020 15:30	0.27	3.83	0.16	2.4
94	10/10/2020 19:50	0.02	0.92	0.02	6
95	10/12/2020 22:20	0.69	3.75	0.47	2.1
96	10/15/2020 12:20	0.17	4.75	0.06	2.4
97	10/18/2020 12:15	0.06	1.42	0.05	2.8
98	10/19/2020 2:40	0.9	32.08	0.1	0.5
99	10/20/2020 23:45	1.55	12.08	0.52	0.5
100	10/22/2020 0:35	0.1	4.67	0.04	0.5
101	10/23/2020 17:35	0.49	7.58	0.31	1.5
102	10/26/2020 2:10	0.64	52.42	0.06	2
103	10/29/2020 3:25	0.98	33.67	0.1	0.9
104	10/31/2020 2:40	0.01	0.08	0.01	0.6
105	11/1/2020 7:40	0.13	12.83	0.08	1.2
106	11/11/2020 2:05	0.06	4.5	0.03	9.2
107	11/15/2020 0:15	0.35	13	0.15	3.7
108	11/17/2020 4:20	0.27	5.33	0.17	1.6
109	11/22/2020 7:15	0.69	11.75	0.14	4.9
110	11/23/2020 7:00	0.03	0.33	0.03	0.5
111	11/24/2020 17:05	0.01	0.08	0.01	1.4
112	11/25/2020 10:50	0.54	19.5	0.14	0.7
113	11/27/2020 19:55	0.02	0.58	0.02	1.6
114	11/30/2020 5:10	2.82	38.5	0.14	2.4

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/5/2020 14:15	0.01	0.08	0.01	3.8
116	12/12/2020 7:45	0.24	8.92	0.17	6.7
117	12/13/2020 5:05	0.02	6.08	0.01	0.5
118	12/16/2020 11:45	0.13	50.67	0.01	3
119	12/19/2020 22:45	0.05	2.17	0.03	1.3
120	12/20/2020 16:25	0.01	0.08	0.01	0.6
121	12/21/2020 20:25	0.1	5.92	0.07	1.2
122	12/23/2020 19:40	0.65	39.33	0.07	1.7
123	12/26/2020 2:40	0.01	0.08	0.01	0.7
124	12/27/2020 22:45	0.11	3.92	0.07	1.8
125	12/28/2020 17:15	0.02	11.42	0.01	0.6
126	12/30/2020 13:50	0.31	7.92	0.1	1.4

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:50	0.48	39.08	0.06	2.2
2	1/8/2020 7:50	0.01	0.08	0.01	3.5
3	1/10/2020 0:40	1.3	51.58	0.14	1.7
4	1/15/2020 17:50	0.06	0.75	0.06	3.6
5	1/18/2020 1:15	0.82	15.58	0.17	2.3
6	1/19/2020 21:35	0.08	4.92	0.03	1.2
7	1/24/2020 7:10	0.52	37	0.07	4.2
8	1/26/2020 17:55	0.03	18.83	0.01	0.9
9	2/1/2020 19:05	0.04	2	0.03	5.3
10	2/4/2020 14:40	0.19	5	0.07	2.7
11	2/5/2020 20:05	0.22	3.08	0.09	1
12	2/6/2020 11:20	0.21	31.75	0.04	0.5
13	2/8/2020 16:00	0.01	0.08	0.01	0.9
14	2/9/2020 17:50	0.32	14.92	0.07	1.1
15	2/12/2020 19:15	0.42	22.75	0.1	2.4
16	2/17/2020 23:05	0.28	5.75	0.07	4.2
17	2/24/2020 20:10	0.22	4.58	0.09	6.6
18	2/25/2020 15:05	0.45	35.33	0.05	0.6
19	2/27/2020 18:45	0.01	0.08	0.01	0.7
20	2/29/2020 0:20	0.07	3.67	0.03	1.2
21	3/2/2020 7:45	0.48	34.83	0.16	2.2
22	3/4/2020 12:00	0.04	1.83	0.03	0.7
23	3/6/2020 6:40	0.12	18.08	0.03	1.7
24	3/10/2020 0:55	0.34	12.42	0.1	3
25	3/12/2020 23:20	0.38	2.92	0.28	2.4
26	3/16/2020 18:20	0.03	12.67	0.01	3.7
27	3/18/2020 15:05	1.38	6.92	0.43	1.3
28	3/19/2020 17:50	0.18	14.08	0.06	0.8
29	3/22/2020 19:35	0.21	15.42	0.06	2.5
30	3/26/2020 18:45	0.33	6.67	0.12	3.3
31	3/27/2020 21:05	3.63	37.08	1.57	0.8
32	3/30/2020 10:35	0.08	8.25	0.07	1
33	4/1/2020 7:55	0.02	0.92	0.02	1.5
34	4/7/2020 5:55	0.27	2.67	0.16	5.9
35	4/7/2020 22:25	0.95	2.92	0.62	0.6
36	4/9/2020 3:45	0.26	25	0.07	1.1
37	4/12/2020 22:40	0.35	12.58	0.09	2.7
38	4/15/2020 14:45	0.22	11	0.08	2.1

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:10	0.39	8.67	0.08	1.4
40	4/19/2020 20:55	0.01	0.08	0.01	2.1
41	4/21/2020 2:20	0.06	2.58	0.04	1.2
42	4/22/2020 18:45	0.07	1.92	0.04	1.6
43	4/23/2020 20:35	0.14	6.92	0.07	1
44	4/26/2020 0:30	0.54	14	0.17	1.9
45	4/27/2020 22:30	0.07	4.5	0.03	1.3
46	4/28/2020 18:30	0.09	3.42	0.08	0.6
47	4/29/2020 17:20	0.23	23.42	0.06	0.8
48	5/1/2020 7:00	0.04	1.58	0.03	0.6
49	5/9/2020 4:15	0.02	2	0.01	7.8
50	5/10/2020 10:05	0.49	20.75	0.21	1.2
51	5/11/2020 20:40	0.01	0.08	0.01	0.6
52	5/14/2020 9:05	2.69	33.08	1.01	2.5
53	5/17/2020 15:50	0.84	3.08	0.65	1.9
54	5/18/2020 7:35	1.36	30.08	0.28	0.5
55	5/22/2020 2:55	0.42	9.17	0.17	2.6
56	5/23/2020 1:20	0.01	0.08	0.01	0.6
57	5/28/2020 3:40	0.13	4.5	0.09	5.1
58	5/29/2020 11:40	0.61	13.25	0.33	1.1
59	6/1/2020 23:20	0.06	1.5	0.05	2.9
60	6/10/2020 18:35	0.64	1.17	0.63	8.7
61	6/13/2020 0:00	0.06	6.92	0.05	2.2
62	6/18/2020 19:55	0.02	2.42	0.01	5.5
63	6/19/2020 14:30	0.39	0.67	0.39	0.7
64	6/21/2020 21:30	0.6	14.08	0.21	2.3
65	6/23/2020 6:05	0.58	5.75	0.5	0.8
66	6/27/2020 1:45	0.26	3	0.17	3.6
67	6/27/2020 22:00	0.16	0.75	0.16	0.7
68	7/11/2020 0:05	0.6	9.08	0.17	13.1
69	7/16/2020 14:45	0.02	0.33	0.02	5.2
70	7/19/2020 16:30	0.18	0.42	0.18	3.1
71	7/22/2020 2:05	0.61	3.42	0.33	2.4
72	7/22/2020 21:15	0.01	0.08	0.01	0.7
73	7/23/2020 12:05	0.56	2.42	0.42	0.6
74	7/24/2020 5:55	0.01	0.08	0.01	0.6
75	7/27/2020 12:05	0.83	13	0.44	3.3
76	8/1/2020 10:20	1.39	29.92	0.93	4.4

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 12:00	1.76	3.08	1.3	0.8
78	8/4/2020 6:50	0.24	9.5	0.16	0.7
79	8/16/2020 11:15	0.57	2.42	0.51	11.8
80	8/17/2020 4:50	0.08	8.83	0.07	0.6
81	8/23/2020 17:45	0.09	5.17	0.08	6.2
82	8/26/2020 6:50	0.17	4.33	0.14	2.3
83	8/27/2020 15:05	0.04	0.17	0.04	1.2
84	8/28/2020 8:10	3.08	21	1	0.7
85	9/2/2020 3:25	0.2	8.83	0.09	3.9
86	9/7/2020 6:15	4.07	7.25	1.4	4.8
87	9/10/2020 7:00	0.01	0.08	0.01	2.7
88	9/12/2020 19:30	0.18	12.67	0.16	2.5
89	9/28/2020 15:00	1.72	8.67	0.8	15.3
90	9/30/2020 19:45	0.03	0.92	0.03	1.8
91	10/1/2020 12:45	0.67	20.83	0.18	0.7
92	10/4/2020 15:05	0.28	12.75	0.19	2.2
93	10/10/2020 20:55	0.02	0.17	0.02	5.7
94	10/12/2020 22:05	0.51	2.25	0.35	2
95	10/15/2020 12:05	0.21	4.92	0.07	2.5
96	10/18/2020 12:25	0.99	45.33	0.09	2.8
97	10/20/2020 23:35	1.49	12.42	0.47	0.6
98	10/22/2020 0:35	0.07	4.33	0.04	0.5
99	10/23/2020 18:20	0.75	6.67	0.56	1.6
100	10/26/2020 2:00	0.23	23.92	0.03	2
101	10/27/2020 14:55	0.34	15.92	0.06	0.5
102	10/29/2020 3:20	1.29	31.33	0.2	0.9
103	11/1/2020 7:20	0.1	13.58	0.07	1.9
104	11/11/2020 0:30	0.08	6.67	0.02	9.1
105	11/14/2020 23:45	0.34	13.58	0.09	3.7
106	11/17/2020 4:35	0.14	8.33	0.05	1.6
107	11/22/2020 6:55	0.79	11.92	0.15	4.8
108	11/24/2020 16:40	0.03	0.33	0.03	1.9
109	11/25/2020 10:15	0.68	21.5	0.18	0.7
110	11/27/2020 19:50	0.03	1.5	0.02	1.5
111	11/30/2020 4:35	3.18	40.25	0.17	2.3
112	12/5/2020 13:05	0.07	3.08	0.05	3.7
113	12/12/2020 7:30	0.38	8.92	0.28	6.6
114	12/13/2020 5:55	0.04	2.08	0.03	0.6

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 10:45	0.12	46.83	0.02	3.1
116	12/19/2020 19:40	0.1	5.17	0.05	1.4
117	12/20/2020 15:00	0.01	0.08	0.01	0.6
118	12/21/2020 17:00	0.06	8.58	0.03	1.1
119	12/24/2020 1:00	0.51	35.08	0.08	2
120	12/26/2020 1:30	0.03	1.67	0.02	0.6
121	12/27/2020 22:05	0.12	4.42	0.05	1.8
122	12/29/2020 23:25	0.03	0.33	0.03	1.9
123	12/30/2020 13:00	0.37	9.58	0.09	0.6

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:25	0.45	39.67	0.06	2.2
2	1/10/2020 0:30	1.25	51.75	0.15	5.2
3	1/15/2020 17:40	0.09	3.25	0.08	3.6
4	1/18/2020 1:20	0.6	21.75	0.15	2.2
5	1/20/2020 0:15	0.02	1.33	0.01	1
6	1/24/2020 7:00	0.5	36	0.07	4.2
7	1/26/2020 18:05	0.02	7.92	0.01	1
8	1/28/2020 19:35	0.01	0.08	0.01	1.7
9	2/1/2020 19:00	0.03	1.75	0.02	4
10	2/4/2020 14:40	0.19	4.08	0.07	2.7
11	2/5/2020 19:00	0.38	48.33	0.1	1
12	2/9/2020 18:00	0.24	14.25	0.08	1.9
13	2/12/2020 19:10	0.42	22.92	0.1	2.5
14	2/17/2020 23:05	0.32	5.67	0.08	4.2
15	2/24/2020 20:15	0.24	4.33	0.1	6.6
16	2/25/2020 13:50	0.42	37.17	0.08	0.6
17	2/29/2020 4:20	0.01	0.08	0.01	2.1
18	3/2/2020 7:45	0.43	34.75	0.14	2.1
19	3/4/2020 12:20	0.02	0.58	0.02	0.7
20	3/6/2020 8:35	0.09	8	0.03	1.8
21	3/10/2020 1:00	0.29	10.58	0.09	3.4
22	3/12/2020 21:20	0.38	4.5	0.27	2.4
23	3/16/2020 18:05	0.04	14	0.01	3.7
24	3/18/2020 15:00	1.34	6.75	0.34	1.3
25	3/19/2020 17:45	0.31	14.17	0.2	0.8
26	3/22/2020 19:30	0.23	15.42	0.06	2.5
27	3/26/2020 18:35	0.24	6.75	0.13	3.3
28	3/27/2020 20:55	3.44	37.17	1.63	0.8
29	3/30/2020 17:00	0.06	2.08	0.05	1.3
30	4/1/2020 0:00	0.03	9.25	0.01	1.2
31	4/7/2020 6:00	0.31	2.42	0.16	5.9
32	4/7/2020 22:30	0.83	2.75	0.53	0.6
33	4/9/2020 2:55	0.32	12.5	0.1	1.1
34	4/10/2020 3:50	0.1	1.08	0.09	0.5

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
35	4/12/2020 22:00	0.37	12.92	0.09	2.7
36	4/15/2020 14:25	0.25	11	0.09	2.1
37	4/16/2020 15:00	0.01	0.08	0.01	0.6
38	4/17/2020 10:25	0.32	8.75	0.06	0.8
39	4/21/2020 2:10	0.06	1.17	0.05	3.3
40	4/22/2020 18:25	0.05	4.08	0.03	1.6
41	4/23/2020 16:55	0.15	10.92	0.06	0.8
42	4/25/2020 22:20	0.72	14.92	0.21	1.8
43	4/27/2020 22:20	0.07	4.5	0.04	1.4
44	4/28/2020 21:00	0.05	0.25	0.05	0.8
45	4/29/2020 17:20	0.21	23	0.06	0.8
46	5/1/2020 6:05	0.04	2.08	0.03	0.6
47	5/8/2020 17:00	0.04	11.75	0.03	7.4
48	5/10/2020 16:50	0.42	17.25	0.23	1.5
49	5/14/2020 9:00	2.08	44	0.62	3
50	5/17/2020 15:45	0.79	1.5	0.65	1.4
51	5/18/2020 7:00	1.4	28.42	0.27	0.6
52	5/22/2020 2:45	0.61	12.08	0.17	2.6
53	5/23/2020 4:25	0.01	0.08	0.01	0.6
54	5/28/2020 3:30	0.15	4.75	0.09	5
55	5/29/2020 11:35	0.48	11.83	0.31	1.1
56	6/1/2020 23:20	0.06	4	0.04	3
57	6/10/2020 18:35	0.69	9.5	0.68	8.6
58	6/13/2020 0:05	0.07	3.17	0.06	1.8
59	6/19/2020 14:45	1.06	1.42	1.04	6.5
60	6/21/2020 21:15	0.66	18.08	0.18	2.2
61	6/23/2020 6:05	0.21	5	0.17	0.6
62	6/27/2020 1:45	0.2	3.17	0.17	3.6
63	7/8/2020 18:00	1.47	1.25	1.46	11.5
64	7/11/2020 1:00	1.09	8.25	0.63	2.2
65	7/13/2020 1:45	0.01	0.08	0.01	1.7
66	7/16/2020 14:50	0.04	0.42	0.04	3.5
67	7/19/2020 16:25	0.54	3.75	0.52	3
68	7/22/2020 2:05	0.47	5.75	0.23	2.2

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
69	7/22/2020 21:00	0.54	28.33	0.47	0.5
70	7/27/2020 12:20	1.38	13.08	0.73	3.5
71	7/29/2020 22:05	0.01	0.08	0.01	1.9
72	8/1/2020 9:40	1.69	30.58	1.36	2.5
73	8/3/2020 13:00	2.85	1.92	2.21	0.9
74	8/4/2020 21:10	0.02	7	0.01	1.3
75	8/16/2020 11:15	0.72	14.17	0.58	11.3
76	8/17/2020 13:25	0.08	0.42	0.08	0.5
77	8/18/2020 7:20	0.01	0.08	0.01	0.7
78	8/26/2020 8:25	0.93	2.67	0.89	8
79	8/28/2020 8:45	1.6	20.5	0.61	1.9
80	9/2/2020 3:15	0.16	9	0.05	3.9
81	9/7/2020 6:15	3.75	7.75	1.17	4.8
82	9/10/2020 7:15	0.01	0.08	0.01	2.7
83	9/13/2020 6:55	0.21	1.42	0.19	3
84	9/28/2020 15:40	1.9	8.25	0.86	15.3
85	9/30/2020 16:30	0.02	3.42	0.01	1.7
86	10/1/2020 12:45	0.46	18.08	0.15	0.7
87	10/4/2020 14:55	0.26	12.83	0.19	2.3
88	10/10/2020 21:35	0.01	0.08	0.01	5.7
89	10/12/2020 22:05	0.48	3	0.35	2
90	10/15/2020 12:15	0.16	5.33	0.05	2.5
91	10/18/2020 13:00	0.91	44.5	0.11	2.8
92	10/20/2020 23:30	1.38	12.17	0.39	0.6
93	10/22/2020 0:35	0.04	1	0.04	0.5
94	10/23/2020 16:50	0.45	8.08	0.26	1.6
95	10/26/2020 2:45	0.17	19.92	0.03	2.1
96	10/27/2020 14:40	0.28	15.83	0.05	0.7
97	10/29/2020 2:45	1.33	30.5	0.17	0.8
98	11/1/2020 7:30	0.1	12.83	0.08	1.9
99	11/11/2020 0:25	0.11	6.75	0.03	9.2
100	11/14/2020 23:50	0.32	13.42	0.08	3.7
101	11/17/2020 5:15	0.07	9.42	0.03	1.7
102	11/22/2020 6:55	0.76	12	0.14	4.7

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
103	11/24/2020 16:35	0.02	0.25	0.02	1.9
104	11/25/2020 9:45	0.64	21.58	0.15	0.7
105	11/27/2020 20:15	0.01	0.08	0.01	1.5
106	11/30/2020 4:35	2.11	39.67	0.11	2.3
107	12/5/2020 12:45	0.04	3	0.03	3.7
108	12/7/2020 5:05	0.01	0.08	0.01	1.6
109	12/12/2020 9:05	0.3	7.92	0.23	5.2
110	12/13/2020 5:15	0.02	3.17	0.01	0.5
111	12/16/2020 11:20	0.08	46	0.01	3.1
112	12/19/2020 20:10	0.11	5	0.04	1.5
113	12/20/2020 15:15	0.02	0.75	0.02	0.6
114	12/21/2020 16:10	0.15	17	0.1	1
115	12/23/2020 18:40	0.49	47.42	0.07	1.4
116	12/27/2020 22:10	0.08	4.08	0.05	2.2
117	12/29/2020 23:15	0.02	0.25	0.02	1.9
118	12/30/2020 13:05	0.35	8.83	0.08	0.6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:55	0.46	42.75	0.05	2.3
2	1/8/2020 0:45	0.03	6.33	0.02	3
3	1/10/2020 0:25	1.01	51.92	0.11	1.7
4	1/15/2020 18:15	0.09	3.42	0.06	3.6
5	1/18/2020 1:55	0.62	22.75	0.14	2.2
6	1/19/2020 19:00	0.18	16.92	0.05	0.8
7	1/24/2020 9:30	0.52	39.08	0.09	3.9
8	1/26/2020 17:00	0.12	20.08	0.04	0.7
9	1/28/2020 20:15	0.01	0.08	0.01	1.3
10	1/31/2020 12:30	0.01	0.08	0.01	2.7
11	2/1/2020 19:00	0.07	11	0.03	1.3
12	2/4/2020 15:05	0.08	4.58	0.05	2.4
13	2/5/2020 19:25	0.25	3.67	0.12	1
14	2/6/2020 11:15	0.6	32.33	0.37	0.5
15	2/8/2020 16:50	0.01	0.08	0.01	0.9
16	2/9/2020 17:50	0.25	13.5	0.08	1
17	2/12/2020 19:50	0.38	22.5	0.08	2.5
18	2/17/2020 23:40	0.21	6.17	0.06	4.2
19	2/24/2020 21:00	0.15	4	0.06	6.6
20	2/25/2020 19:15	0.13	5.83	0.05	0.8
21	2/26/2020 13:50	0.35	12.67	0.06	0.5
22	2/27/2020 16:50	0.02	3.58	0.01	0.6
23	2/29/2020 3:40	0.01	0.08	0.01	1.3
24	3/2/2020 10:05	0.56	32.83	0.17	2.3
25	3/4/2020 12:10	0.07	1.75	0.04	0.7
26	3/6/2020 8:50	0.04	4.33	0.02	1.8
27	3/10/2020 1:40	0.32	11.92	0.16	3.5
28	3/12/2020 23:35	0.29	2.42	0.19	2.4
29	3/14/2020 21:40	0.01	0.08	0.01	1.8
30	3/16/2020 18:15	0.04	1.75	0.03	1.9
31	3/18/2020 15:05	0.98	10.58	0.24	1.8
32	3/19/2020 17:45	0.36	17.75	0.23	0.7
33	3/22/2020 20:50	0.16	12.67	0.07	2.4
34	3/26/2020 17:50	0.38	7.17	0.08	3.3
35	3/27/2020 23:05	2.39	35.67	0.78	0.9
36	3/30/2020 2:45	0.07	15.42	0.04	0.7
37	4/1/2020 7:05	0.02	0.42	0.02	1.5
38	4/7/2020 7:15	0.8	18	0.51	6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 0:10	0.31	13.92	0.13	1
40	4/12/2020 5:45	0.49	29.67	0.17	2.7
41	4/15/2020 15:20	0.21	13.67	0.08	2.2
42	4/17/2020 10:15	0.26	7.92	0.06	1.2
43	4/21/2020 2:15	0.11	1.5	0.07	3.3
44	4/22/2020 17:15	0.06	3.5	0.03	1.6
45	4/23/2020 15:45	0.08	15.58	0.04	0.8
46	4/26/2020 0:35	0.6	15.42	0.12	1.7
47	4/27/2020 22:25	0.09	6.25	0.03	1.3
48	4/28/2020 19:10	0.12	3.42	0.06	0.6
49	4/29/2020 18:35	0.32	18.5	0.13	0.8
50	5/1/2020 6:00	0.09	4.33	0.05	0.7
51	5/2/2020 20:15	0.09	1.33	0.08	1.4
52	5/9/2020 5:15	0.01	0.08	0.01	6.3
53	5/10/2020 10:50	0.76	20	0.19	1.2
54	5/14/2020 9:50	2.32	34.25	0.49	3.1
55	5/17/2020 9:35	0.52	9	0.36	1.6
56	5/18/2020 8:10	0.71	21.25	0.13	0.6
57	5/22/2020 3:35	0.52	10	0.23	2.9
58	5/28/2020 5:40	0.18	8.5	0.12	5.7
59	5/29/2020 13:15	0.56	14.08	0.35	1
60	6/1/2020 23:45	0.04	2.67	0.03	2.9
61	6/3/2020 6:45	0.03	0.08	0.03	1.2
62	6/10/2020 19:05	0.64	9.33	0.58	7.5
63	6/18/2020 20:00	0.1	2.17	0.09	7.6
64	6/21/2020 22:25	0.28	14.58	0.15	3
65	6/23/2020 6:35	0.77	9.17	0.71	0.7
66	6/26/2020 22:30	1.19	6.33	0.69	3.3
67	6/27/2020 21:55	0.17	0.33	0.17	0.7
68	7/10/2020 15:50	2.12	18.08	0.54	12.7
69	7/16/2020 14:25	0.04	1	0.04	5.2
70	7/19/2020 16:35	0.38	0.5	0.38	3
71	7/22/2020 2:50	0.25	2.75	0.17	2.4
72	7/23/2020 10:30	0.52	0.75	0.52	1.2
73	7/27/2020 13:50	0.69	11.92	0.28	4.1
74	8/1/2020 12:00	0.63	28.42	0.25	4.4
75	8/3/2020 12:55	0.57	3.42	0.4	0.9
76	8/4/2020 6:20	0.94	15.5	0.6	0.6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:30	0.32	1.83	0.28	11.6
78	8/23/2020 15:15	0.01	0.08	0.01	7.1
79	8/26/2020 8:40	0.41	2.83	0.29	2.7
80	8/28/2020 7:05	2.01	23.42	0.75	1.8
81	9/2/2020 3:15	0.69	9.17	0.46	3.9
82	9/7/2020 6:05	3.59	6.67	1.22	4.7
83	9/13/2020 7:05	0.45	1.17	0.44	5.8
84	9/28/2020 16:25	1.85	7.25	0.91	15.3
85	9/30/2020 19:10	0.06	1	0.06	1.8
86	10/1/2020 13:00	0.49	14.5	0.16	0.7
87	10/2/2020 20:45	0.03	3.33	0.02	0.7
88	10/4/2020 15:30	0.28	4.5	0.15	1.6
89	10/10/2020 20:20	0.03	0.17	0.03	6
90	10/12/2020 22:35	0.82	3.42	0.47	2.1
91	10/15/2020 12:05	0.21	14.5	0.05	2.4
92	10/18/2020 13:30	0.08	1.08	0.07	2.5
93	10/19/2020 2:50	0.88	32.25	0.11	0.5
94	10/20/2020 23:55	2.14	11.75	0.76	0.5
95	10/22/2020 1:45	0.18	3.25	0.13	0.6
96	10/23/2020 17:40	0.38	7.58	0.14	1.5
97	10/26/2020 2:20	0.32	19.83	0.06	2
98	10/27/2020 14:50	0.3	16.5	0.05	0.7
99	10/29/2020 4:00	1.04	28.08	0.2	0.9
100	11/1/2020 7:35	0.15	9.25	0.08	2
101	11/11/2020 2:10	0.12	4.67	0.05	9.4
102	11/15/2020 0:25	0.29	13	0.08	3.7
103	11/17/2020 4:25	0.11	7.67	0.04	1.6
104	11/22/2020 7:20	0.7	11.75	0.14	4.8
105	11/23/2020 7:10	0.01	0.08	0.01	0.5
106	11/24/2020 17:05	0.01	0.08	0.01	1.4
107	11/25/2020 10:30	0.7	25.92	0.15	0.7
108	11/30/2020 5:20	2.9	38.08	0.19	3.7
109	12/12/2020 8:00	0.26	25.75	0.16	10.5
110	12/16/2020 11:55	0.01	0.08	0.01	3.1
111	12/17/2020 1:05	0.01	0.08	0.01	0.5
112	12/17/2020 19:20	0.07	18.33	0.02	0.8
113	12/19/2020 20:05	0.17	19.25	0.06	1.3
114	12/21/2020 17:25	0.1	15.83	0.06	1.1

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:50	1.06	40.67	0.15	1.4
116	12/26/2020 3:10	0.01	0.08	0.01	0.6
117	12/27/2020 22:40	0.09	3.92	0.04	1.8
118	12/29/2020 23:55	0.01	0.08	0.01	1.9
119	12/30/2020 14:05	0.29	7.75	0.1	0.6

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:35	0.39	44.58	0.05	2.2
2	1/8/2020 6:45	0.02	0.33	0.02	3.2
3	1/10/2020 0:20	0.98	48.92	0.11	1.7
4	1/15/2020 18:10	0.09	3.42	0.07	3.7
5	1/18/2020 1:55	0.75	15	0.18	2.2
6	1/19/2020 19:50	0.01	0.08	0.01	1.1
7	1/20/2020 14:25	0.01	0.08	0.01	0.8
8	1/24/2020 9:35	0.59	36.83	0.12	3.8
9	1/26/2020 16:50	0.06	9.33	0.03	0.8
10	1/28/2020 20:50	0.01	0.08	0.01	1.8
11	2/1/2020 19:10	0.05	10.67	0.02	3.9
12	2/4/2020 15:00	0.07	2.92	0.04	2.4
13	2/5/2020 18:55	0.25	4.33	0.12	1
14	2/6/2020 11:45	0.15	31.75	0.04	0.5
15	2/8/2020 16:30	0.02	1	0.02	0.9
16	2/9/2020 18:35	0.21	12.58	0.07	1
17	2/12/2020 20:00	0.37	23.67	0.08	2.5
18	2/17/2020 23:35	0.2	6.5	0.06	4.2
19	2/24/2020 20:55	0.17	6.83	0.07	6.6
20	2/25/2020 19:25	0.34	29.92	0.05	0.7
21	3/2/2020 10:00	0.1	9.25	0.03	4.4
22	3/3/2020 7:45	0.33	11.17	0.17	0.5
23	3/4/2020 12:20	0.04	1.33	0.03	0.7
24	3/5/2020 4:30	0.01	0.08	0.01	0.6
25	3/6/2020 10:00	0.02	4.25	0.01	1.2
26	3/10/2020 1:20	0.26	10.33	0.15	3.5
27	3/12/2020 23:40	0.26	2.67	0.16	2.5
28	3/16/2020 18:55	0.02	0.83	0.02	3.7
29	3/18/2020 15:05	0.98	7	0.22	1.8
30	3/19/2020 17:40	0.4	13.33	0.26	0.8
31	3/22/2020 20:15	0.18	14.75	0.08	2.6
32	3/26/2020 17:50	0.37	7.08	0.08	3.3
33	3/27/2020 22:55	2.59	35.5	0.86	0.9
34	3/30/2020 2:35	0.05	2.58	0.04	0.7
35	4/1/2020 7:05	0.02	0.25	0.02	2.1
36	4/7/2020 7:30	0.8	17.75	0.52	6
37	4/9/2020 0:05	0.26	13.92	0.07	1
38	4/12/2020 5:40	0.02	0.67	0.02	2.7

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 23:15	0.34	11.75	0.08	0.7
40	4/15/2020 15:15	0.17	13.58	0.08	2.2
41	4/17/2020 10:30	0.32	7.75	0.07	1.2
42	4/19/2020 21:45	0.01	0.08	0.01	2.1
43	4/21/2020 2:05	0.14	1.5	0.09	1.2
44	4/22/2020 17:35	0.07	7.17	0.03	1.6
45	4/24/2020 0:40	0.06	2.17	0.04	1
46	4/26/2020 0:45	0.43	13.17	0.12	1.9
47	4/27/2020 22:10	0.08	6.5	0.03	1.3
48	4/28/2020 19:05	0.06	3.33	0.03	0.6
49	4/29/2020 18:35	0.42	17.25	0.26	0.8
50	5/1/2020 7:00	0.03	0.42	0.03	0.8
51	5/2/2020 19:20	0.08	1.25	0.07	1.5
52	5/10/2020 13:40	0.6	17	0.18	7.7
53	5/14/2020 9:35	1.94	32.75	0.4	3.1
54	5/17/2020 16:20	0.46	2.42	0.36	1.9
55	5/18/2020 7:40	0.74	23.5	0.17	0.5
56	5/22/2020 3:35	0.54	9.92	0.24	2.9
57	5/25/2020 16:25	0.07	0.67	0.07	3.1
58	5/28/2020 7:10	0.18	6.83	0.13	2.6
59	5/29/2020 13:15	0.44	10.58	0.26	1
60	6/1/2020 23:35	0.04	1.17	0.03	3
61	6/3/2020 6:40	0.02	0.08	0.02	1.2
62	6/10/2020 18:55	0.75	1.5	0.73	7.5
63	6/18/2020 20:10	0.02	0.42	0.02	8
64	6/21/2020 16:00	0.28	20.75	0.12	2.8
65	6/23/2020 6:25	0.75	5.5	0.7	0.7
66	6/26/2020 22:30	1.4	6.25	0.84	3.4
67	6/27/2020 21:45	0.07	0.33	0.07	0.7
68	7/10/2020 12:00	2.9	20.67	0.84	12.6
69	7/16/2020 14:00	0.05	1.17	0.03	5.2
70	7/19/2020 12:55	0.4	4.08	0.3	2.9
71	7/22/2020 2:45	0.2	3.25	0.13	2.4
72	7/27/2020 12:25	0.74	15.67	0.25	5.3
73	8/1/2020 12:20	0.53	27.83	0.24	4.3
74	8/3/2020 12:30	0.41	3	0.2	0.8
75	8/4/2020 6:00	1.14	15.58	1.08	0.6
76	8/16/2020 11:20	0.67	4.75	0.61	11.6

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2020 13:35	0.03	1.33	0.02	0.9
78	8/26/2020 9:35	0.32	2.42	0.21	8.8
79	8/28/2020 6:55	2.22	22.83	0.88	1.8
80	9/2/2020 3:25	0.35	8.67	0.28	3.9
81	9/7/2020 6:00	3.25	6.92	0.93	4.7
82	9/13/2020 6:45	0.41	1.33	0.35	5.7
83	9/28/2020 15:55	1.93	7.67	0.84	15.3
84	9/30/2020 19:05	0.07	1.42	0.06	1.8
85	10/1/2020 14:15	0.55	12.58	0.29	0.7
86	10/2/2020 20:35	0.07	4	0.03	0.7
87	10/4/2020 15:25	0.26	3.08	0.17	1.6
88	10/10/2020 19:25	0.03	0.83	0.03	6
89	10/12/2020 22:20	0.75	3.08	0.46	2.1
90	10/15/2020 12:20	0.18	4.83	0.07	2.5
91	10/18/2020 13:20	0.08	0.58	0.08	2.8
92	10/19/2020 2:45	0.9	31.83	0.11	0.5
93	10/20/2020 23:55	2.77	10.83	1.11	0.6
94	10/22/2020 2:10	0.44	2.5	0.27	0.6
95	10/23/2020 17:15	0.58	7.83	0.22	1.5
96	10/26/2020 2:25	0.34	17.58	0.08	2.1
97	10/27/2020 10:15	0.32	20.42	0.06	0.6
98	10/29/2020 3:55	0.94	31.92	0.15	0.9
99	11/1/2020 7:35	0.13	7	0.08	1.8
100	11/11/2020 2:10	0.05	3.25	0.03	9.5
101	11/15/2020 0:15	0.35	13	0.13	3.8
102	11/17/2020 4:40	0.09	7.58	0.06	1.6
103	11/22/2020 7:30	0.73	11.25	0.13	4.8
104	11/23/2020 7:25	0.01	0.08	0.01	0.5
105	11/24/2020 17:00	0.03	0.33	0.03	1.4
106	11/25/2020 10:40	0.64	20.33	0.14	0.7
107	11/30/2020 5:00	2.04	38.17	0.14	3.9
108	12/12/2020 7:55	0.28	8.58	0.18	10.5
109	12/13/2020 4:55	0.02	2.42	0.01	0.5
110	12/16/2020 23:35	0.02	1.83	0.01	3.7
111	12/17/2020 20:15	0.12	15.5	0.05	0.8
112	12/19/2020 19:15	0.18	6.67	0.07	1.3
113	12/20/2020 15:45	0.01	0.08	0.01	0.6
114	12/21/2020 17:35	0.09	4	0.07	1.1

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:15	0.78	40.83	0.07	1.9
116	12/26/2020 2:20	0.01	0.08	0.01	0.6
117	12/27/2020 22:25	0.11	4.17	0.05	1.8
118	12/29/2020 23:50	0.02	0.5	0.02	1.9
119	12/30/2020 14:15	0.29	7.75	0.1	0.6

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:30	0.32	44.5	0.05	2.2
2	1/9/2020 23:05	1.19	53	0.16	4.9
3	1/13/2020 7:45	0.01	0.08	0.01	1.2
4	1/15/2020 17:55	0.06	2.08	0.05	2.4
5	1/18/2020 1:20	0.81	15.33	0.17	2.2
6	1/19/2020 21:55	0.02	2	0.01	1.2
7	1/24/2020 6:30	0.45	41.75	0.07	4.3
8	1/26/2020 16:55	0.01	0.08	0.01	0.7
9	2/1/2020 18:50	0.03	1.58	0.02	6.1
10	2/4/2020 14:50	0.08	4.67	0.04	2.8
11	2/5/2020 18:55	0.39	43.33	0.12	1
12	2/8/2020 15:20	0.01	0.08	0.01	1
13	2/9/2020 17:40	0.33	13.33	0.07	1.1
14	2/12/2020 20:00	0.4	23.08	0.08	2.5
15	2/17/2020 23:20	0.15	6.17	0.05	4.2
16	2/24/2020 19:10	0.21	5.58	0.08	6.6
17	2/25/2020 18:45	0.47	31.08	0.08	0.8
18	2/29/2020 2:20	0.01	0.08	0.01	2
19	3/2/2020 3:45	0.39	38.83	0.11	2.1
20	3/4/2020 12:10	0.02	0.5	0.02	0.7
21	3/6/2020 8:50	0.04	3	0.02	1.8
22	3/10/2020 0:20	0.24	11.42	0.1	3.5
23	3/12/2020 21:30	0.25	3.67	0.16	2.4
24	3/14/2020 20:40	0.01	0.08	0.01	1.8
25	3/16/2020 18:55	0.06	1.42	0.05	1.9
26	3/18/2020 14:45	1.01	7.42	0.2	1.8
27	3/19/2020 17:25	0.35	17.17	0.18	0.8
28	3/22/2020 20:05	0.24	14.58	0.09	2.4
29	3/26/2020 17:45	0.37	7.5	0.08	3.3
30	3/27/2020 22:20	2.55	28	0.62	0.9
31	3/30/2020 2:15	0.06	16.42	0.02	1
32	4/7/2020 5:50	1.18	23.5	0.7	7.5
33	4/8/2020 23:50	0.27	13.92	0.11	0.8
34	4/12/2020 6:00	0.01	0.08	0.01	2.7
35	4/12/2020 22:30	0.32	10.58	0.08	0.7
36	4/15/2020 14:15	0.15	11.67	0.07	2.2
37	4/17/2020 10:00	0.42	8.17	0.09	1.3
38	4/19/2020 20:25	0.03	0.33	0.03	2.1

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2020 1:55	0.11	1.83	0.06	1.2
40	4/22/2020 18:40	0.1	1.67	0.06	1.6
41	4/23/2020 21:20	0.11	8.67	0.06	1
42	4/26/2020 1:10	0.77	11.25	0.19	1.8
43	4/27/2020 22:20	0.05	3.42	0.03	1.4
44	4/28/2020 18:45	0.23	3.17	0.15	0.7
45	4/29/2020 16:45	0.23	24.17	0.07	0.8
46	5/10/2020 10:10	0.64	20	0.21	9.7
47	5/11/2020 19:50	0.01	0.08	0.01	0.6
48	5/14/2020 9:00	2.02	44.75	0.76	2.5
49	5/17/2020 12:10	2.35	45.5	0.43	1.3
50	5/22/2020 0:00	0.61	12.83	0.22	2.6
51	5/28/2020 5:05	0.15	8.92	0.07	5.7
52	5/29/2020 12:35	0.5	3.92	0.27	0.9
53	5/30/2020 4:35	0.01	0.08	0.01	0.5
54	6/1/2020 23:10	0.08	1.58	0.06	2.8
55	6/10/2020 18:30	0.28	9.25	0.27	8.7
56	6/12/2020 23:50	0.07	1.75	0.06	1.8
57	6/18/2020 20:10	0.05	6.75	0.04	5.8
58	6/21/2020 22:00	0.16	12.33	0.06	2.8
59	6/23/2020 6:20	0.75	4.75	0.59	0.8
60	6/26/2020 22:00	0.69	6.5	0.41	3.5
61	6/27/2020 21:25	0.11	3.17	0.1	0.7
62	7/2/2020 7:40	0.01	0.08	0.01	4.3
63	7/10/2020 15:15	0.38	12.25	0.21	8.3
64	7/16/2020 8:50	0.03	0.08	0.03	5.2
65	7/19/2020 16:25	0.37	0.42	0.37	3.3
66	7/22/2020 2:25	0.43	2.67	0.34	2.4
67	7/23/2020 9:45	0.25	4.08	0.13	1.2
68	7/27/2020 13:35	1.59	11.83	0.63	4
69	7/29/2020 21:25	0.17	2.42	0.14	1.8
70	8/1/2020 11:35	0.92	36.67	0.21	2.5
71	8/3/2020 13:25	0.02	0.25	0.02	0.5
72	8/4/2020 8:55	0.15	20.17	0.1	0.8
73	8/16/2020 10:50	1.34	2.42	1.06	11.2
74	8/17/2020 13:40	0.06	0.08	0.06	1
75	8/26/2020 6:45	0.19	1.92	0.18	8.7
76	8/28/2020 7:55	3.58	21.75	1.65	2

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/2/2020 3:10	0.2	8.58	0.11	3.9
78	9/7/2020 5:55	3.45	6.92	0.91	4.8
79	9/13/2020 7:10	0.29	1.08	0.28	5.8
80	9/28/2020 16:15	1.25	14.33	0.71	15.3
81	9/30/2020 18:50	0.03	0.67	0.03	1.5
82	10/1/2020 12:20	0.82	18.42	0.25	0.7
83	10/4/2020 12:50	0.22	4.17	0.11	2.3
84	10/10/2020 19:30	0.01	0.08	0.01	6.1
85	10/12/2020 22:05	0.46	2.25	0.31	2.1
86	10/15/2020 12:10	0.16	4.33	0.06	2.5
87	10/18/2020 12:15	0.1	1.42	0.09	2.8
88	10/19/2020 2:10	1.08	32.33	0.22	0.5
89	10/20/2020 23:35	2.12	10.92	0.81	0.5
90	10/22/2020 1:10	0.37	3.75	0.22	0.6
91	10/23/2020 17:20	0.54	6.67	0.33	1.5
92	10/26/2020 1:45	0.28	18.42	0.05	2.1
93	10/27/2020 14:30	0.29	14.33	0.06	0.8
94	10/29/2020 3:00	0.91	28.83	0.11	0.9
95	11/1/2020 7:10	0.11	8.42	0.08	2
96	11/11/2020 1:40	0.1	5.25	0.07	9.4
97	11/14/2020 23:25	0.41	13.75	0.11	3.7
98	11/17/2020 4:20	0.06	4.83	0.03	1.6
99	11/22/2020 7:30	0.69	23.17	0.12	4.9
100	11/24/2020 16:35	0.03	0.42	0.03	1.4
101	11/25/2020 10:15	0.61	18.67	0.15	0.7
102	11/27/2020 20:50	0.01	0.08	0.01	1.7
103	11/30/2020 4:30	2.25	39.17	0.15	2.3
104	12/7/2020 5:30	0.04	1.75	0.02	5.4
105	12/12/2020 7:25	0.14	8.58	0.04	5
106	12/13/2020 4:50	0.03	2.92	0.02	0.5
107	12/16/2020 13:00	0.17	44.25	0.04	3.2
108	12/19/2020 17:05	0.09	7.08	0.03	1.3
109	12/20/2020 15:40	0.01	0.08	0.01	0.6
110	12/21/2020 18:00	0.19	14.83	0.08	1.1
111	12/23/2020 18:40	0.61	40.42	0.06	1.4
112	12/27/2020 21:50	0.07	4.25	0.03	2.4
113	12/28/2020 16:30	0.03	2.92	0.02	0.6
114	12/29/2020 23:25	0.05	0.5	0.05	1.2

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/30/2020 12:20	0.42	8.92	0.1	0.5

Appendix B: Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen polygon was constructed based on the temporary gauges, following the approach described below.

1. **Create precipitation gauge boundaries in ArcGIS via Thiessen Polygon tool**.
   A) ArcToolbox → Analysis Tools → Proximity → **Create Thiessen Polygons**
      i. Input Features: Precipitation gauge point shapefile
      ii. **OK** to generate Thiessen Polygons. The default processing extent is the same extent as the precipitation gauge point features with a 10% buffer (see **Figure B1**). The extent can be changed in the Environment settings. **NOTE: Figure B1** is representative example of the boundaries generated. Boundaries may vary depending on the number and location of precipitation gauges used.

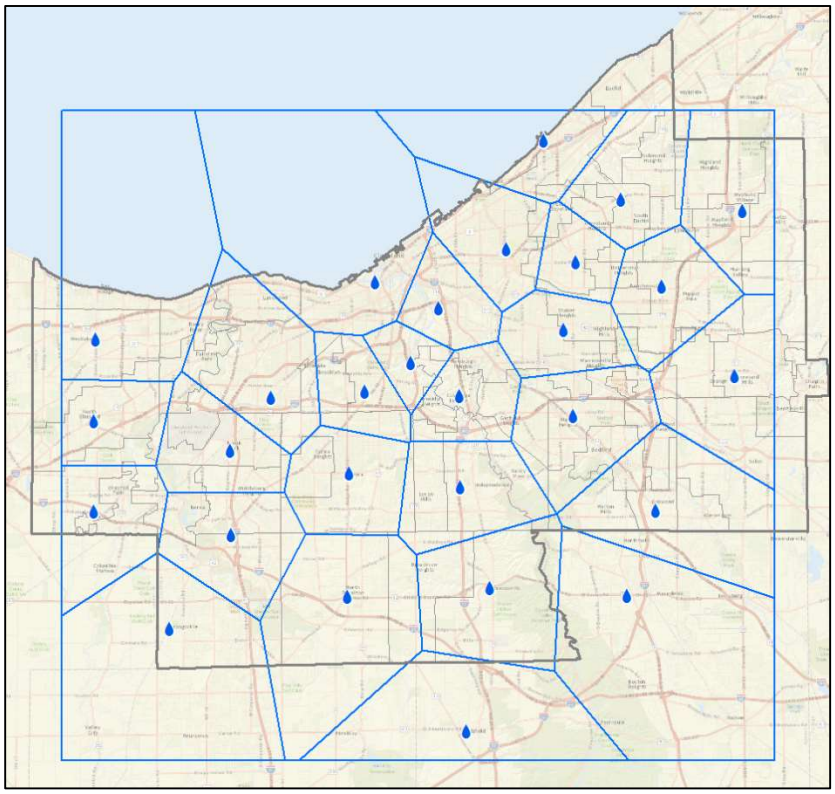


Figure B1. Precipitation Gauge Boundaries Generated Using the Thiessen Polygon Tool in ArcGIS

   B) Add Field "PROFILE" to the precipitation gauge boundary shapefile of Type: SHORT.
   C) Assign each precipitation gauge boundary with a unique ID# under the PROFILE field. This will be used by InfoWorks ICM to assign rainfall profiles to subcatchments.

2. **Add the Precipitation Gauge boundaries to the InfoWorks ICM model.2.**
   A) Import precipitation gauge boundary shapefile as a GIS layer.
   B) GeoPlan → Precipitation Gauge data → **Import from map data…**
      i. Select precipitation gauge boundary layer, then Import.

C) Verify that all the model subcatchments lie completely within the precipitation gauge boundaries. If they do not, the boundaries need to be manually adjusted in GIS, as shown in **Figure B2**, and re-imported into ICM.

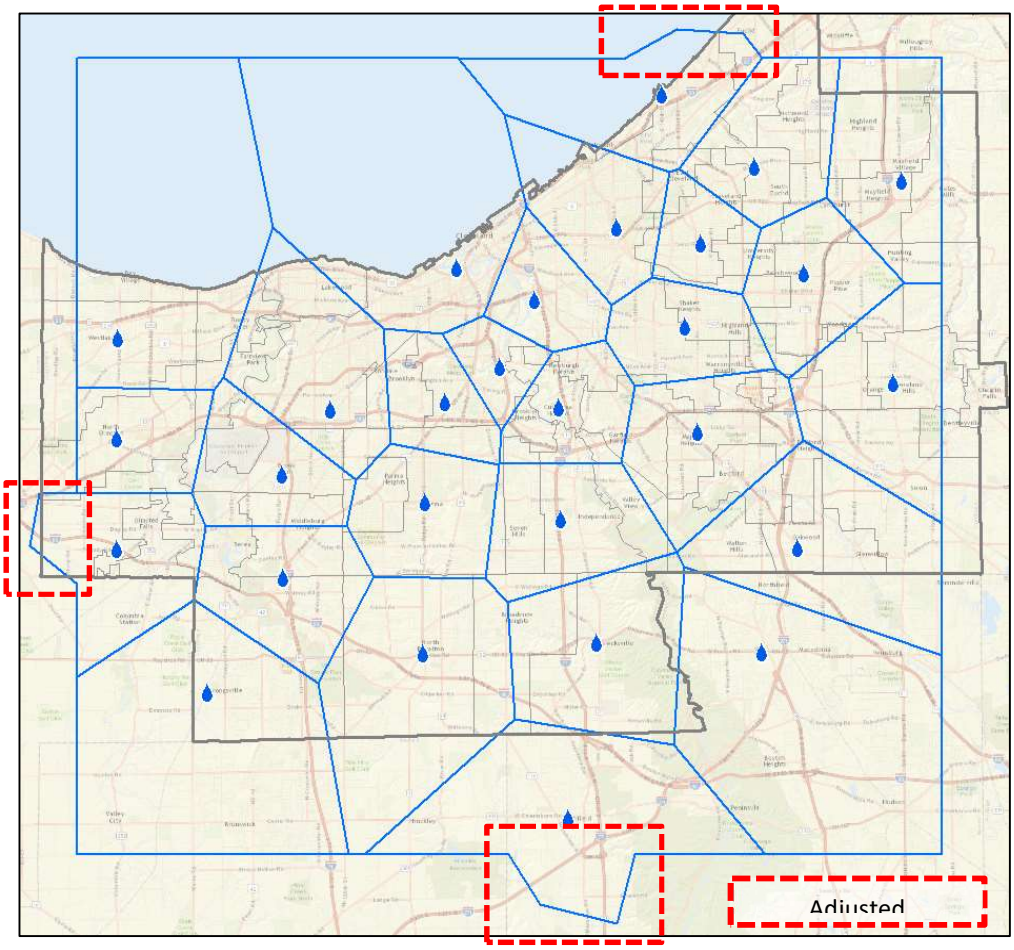


Figure B2. Precipitation Gauge Boundaries Manually Adjusted in ArcGIS to overlap model subcatchments.

3. **Format Raw Data for use in ICM**

   A) Fill BLANK data gaps in raw data with values of zero.
   B) Convert each time step in raw data into intensity/hour. If raw data is recorded every 5-minutes, multiply each time step by 12.

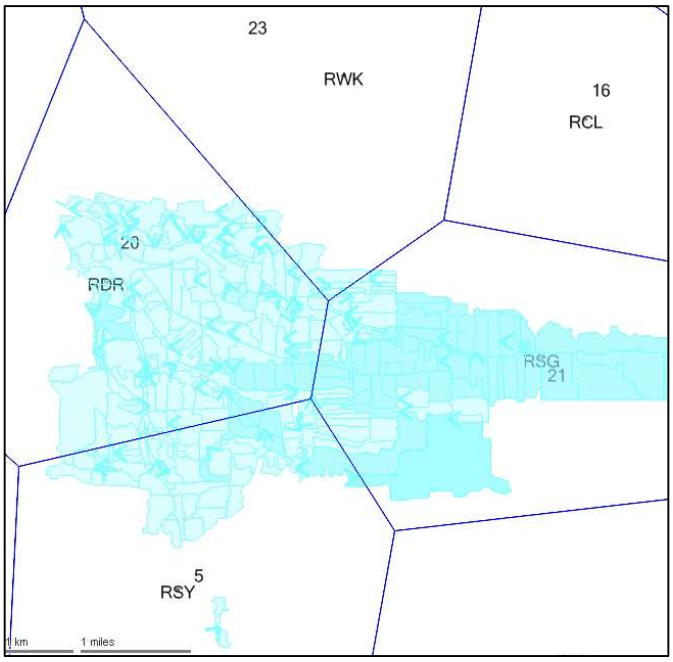
4. **Add Precipitation Gauge rainfall data to ICM.**
   A) Add new rainfall event in ICM and open Rainfall Event editor.
   B) Append profiles for each precipitation gauge boundary and rename profile titles to match precipitation gauge boundary profiles. There should only be one rainfall event file for all models being simulated.
      i. Right-click cell → Profile Properties → Change Profile Title
   C) Edit start date/time to match rainfall data
      i. Right-click cell → Sub-Event Properties
         1. Start Date: **MM/DD/YYYY**
         2. Start Time: **hh:mm:ss**

3. Timestep: **5m** (for 5-minutes – change according to rainfall timesteps)

D) Add rainfall to each profile via copy and paste from Excel rainfall data.
   i. Select "Add timesteps to this sub-event, so all data can be pasted" → OK

E) Save and exit Rainfall Event editor window.

5. **Apply Precipitation Gauge boundaries to rainfall event.** This will override the profile number entered in the Subcatchment's *Rainfall Profile* field.
   A) GeoPlan → Precipitation Gauge data → **Save to rainfall event**…
   B) Select rainfall event with precipitation gauge profiles. Make sure rainfall profile names are consistent with precipitation gauge boundary IDs as seen in the table heading on the right and the GeoPlan map on the left (**Figure B3**).

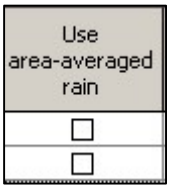


Time	20 (in/hr)	5 (in/hr)	21 (in/hr)	23 (in/hr)
SUB-EVENT 1				
08-01-2014 at 00:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:05	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:10	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:15	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:20	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:25	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:30	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:35	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:40	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:45	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:50	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:55	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:05	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:10	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:15	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:20	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:25	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:30	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:35	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:40	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:45	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:50	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:55	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 02:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 02:05	0.000000	0.000000	0.000000	0.000000

Figure B3. Confirm Rainfall Profile Names are Consistent with Precipitation Gauge Boundary Profile IDs

6. For subcatchments that lie within two or more precipitation gauge boundaries, the user can dictate whether the boundaries are assigned (A) based on the subcatchment's centroid location or (B) using an area-averaged rainfall.

   A) In the Subcatchment Grid or Properties window, **un-check** the "**Use area-averaged rain**" option to toggle **off**. The precipitation gauge boundary that contains the centroid of the subcatchment will be used to provide rainfall data for the entire subcatchment. **This is the default and the recommended option.**



      i. The centroid is often defined by the x and y coordinates of the subcatchment.
      ii. If the subcatchment has no coordinates, ICM will use the coordinates of the drainage node.
      iii. If the drainage node has no coordinates, ICM will assume coordinates of 0, 0.
      iv. Simulations will fail if subcatchment centroids fall outside of the defined precipitation gauge boundary.

B) In the Subcatchment Grid or Properties window, **check** the "**Use area-averaged rain**" option to toggle **on**. This will use data from all precipitation gauge boundaries that the subcatchment overlaps.

   i. Simulations will fail if the subcatchment falls wholly or partly outside any precipitation gauge boundary.
   ii. If the subcatchment does not have a boundary, the option is ignored.
   iii. The following variables are not area-averaged. Instead, the values are from the rainfall boundary that covers the greatest area of subcatchment.
      - Antecedent rainfall
      - Local evaporation
      - Evaporation from multiple evaporation profiles
      - Temperature from multiple temperature profiles
      - Runoff initial conditions

7. **Run Simulation**
   A) Open the Schedule Hydraulic Run View.
   B) Add simulation components (e.g. model network, rainfall event, wastewater, etc.).
   C) The rainfall event with linked precipitation gauge boundaries will automatically override rainfall profiles defined in the subcatchment properties.

8. **QA/QC Hydrology**
   A) Verify for a few subcatchments that the rainfall volume is consistent with the corresponding precipitation gauge's observed rainfall volume.

Appendix C: 2020 Qualitative Habitat Evaluation Index Sheets

Ohio EPA — Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 76.75

Stream & Location: Euclid Creek UST St. Clair Ave **RM:** 1.65 **Date:** 8/29/20

Scorers Full Name & Affiliation: Matheson Northeast Ohio Regional Sewer District

River Code: 19-041-000 **STORET #:** 504250 **Lat./Long.:** 41.5738 -81.5470 (NAD 83 - decimal °) Office verified location ☐

1] SUBSTRATE
Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐ ☐ BLDR /SLABS [10]	X	X	☐ ☐ HARDPAN [4]		
☐ ☐ BOULDER [9]	X	X	☐ ☐ DETRITUS [-1]		
☐ ☒ COBBLE [8]	X	X	☐ ☐ MUCK [2]		
☒ ☐ GRAVEL [7]	X	X	☐ ☐ SILT [2]		
☐ ☐ SAND [6]	X	X	☐ ☐ ARTIFICIAL [0]		
☐ ☐ BEDROCK [5]	X	X			

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ☒ 4 or more [2] ☐ 3 or less [0]

ORIGIN (Check ONE (Or 2 & average)): ☐ LIMESTONE [1] ☒ TILLS [1] ☐ WETLANDS [0] ☐ HARDPAN [0] ☐ SANDSTONE [0] ☐ RIP/RAP [0] ☐ LACUSTURINE [0] ☐ SHALE [-1] ☐ COAL FINES [-2]

QUALITY: SILT ☐ HEAVY [-2] ☐ MODERATE [-1] ☒ NORMAL [0] ☐ FREE [1]; EMBEDDEDNESS ☐ EXTENSIVE [-2] ☐ MODERATE [-1] ☒ NORMAL [0] ☐ NONE [1]

Comments: 7+8+2+1+0+0

Substrate: 18 (Maximum 20)

2] INSTREAM COVER
Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

1 UNDERCUT BANKS [1]	1 POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	1 ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	___ LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT (Check ONE (Or 2 & average)): ☐ EXTENSIVE >75% [11] ☒ MODERATE 25-75% [7] ☒ SPARSE 5-<25% [3] ☐ NEARLY ABSENT <5% [1]

Comments: 6+5

Cover: 11 (Maximum 20)

3] CHANNEL MORPHOLOGY
Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	☒ NONE [6]	☒ HIGH [3]
☐ MODERATE [3]	☒ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
☒ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☐ NONE [1]	☐ POOR [1]	☐ RECENT OR LOCALIZED RECOVERY [2]	

Comments: 2+5+6+3

Channel: 16 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE
Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
☐ ☒ NONE / LITTLE [3]	☐ ☐ WIDE > 50m [4]	☐ ☐ FOREST, SWAMP [3]	☐ ☐ CONSERVATION TILLAGE [1]
☐ ☒ MODERATE [2]	☐ ☒ MODERATE 10-50m [3]	☐ ☐ SHRUB OR OLD FIELD [2]	☒ ☒ URBAN OR INDUSTRIAL [0]
☐ ☐ HEAVY / SEVERE [1]	☒ ☐ NARROW 5-10m [2]	☐ ☐ RESIDENTIAL, PARK, NEW FIELD [1]	☐ ☐ MINING / CONSTRUCTION [0]
	☐ ☐ VERY NARROW < 5m [1]	☐ ☐ FENCED PASTURE [1]	
	☐ ☐ NONE [0]	☐ ☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments: 2.75+2.5+0

Riparian: 5.25 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH (Check ONE (ONLY!)): ☒ > 1m [6] ☐ 0.7-<1m [4] ☐ 0.4-<0.7m [2] ☐ 0.2-<0.4m [1] ☐ < 0.2m [0]

CHANNEL WIDTH (Check ONE (Or 2 & average)): ☒ POOL WIDTH > RIFFLE WIDTH [2] ☐ POOL WIDTH = RIFFLE WIDTH [1] ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY (Check ALL that apply): ☐ TORRENTIAL [-1] ☐ SLOW [1] ☐ VERY FAST [1] ☐ INTERSTITIAL [-1] ☒ FAST [1] ☐ INTERMITTENT [-2] ☒ MODERATE [1] ☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential: Primary Contact / Secondary Contact (circle one and comment on back)

Comments: 6+2+3

Pool / Current: 11 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☒ BEST AREAS > 10cm [2]	☐ MAXIMUM > 50cm [2]	☒ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☒ MAXIMUM < 50cm [1]	☒ MOD. STABLE (e.g., Large Gravel) [1]	☒ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments: 2+1+1.5+1

Riffle / Run: 5.5 (Maximum 8)

6] GRADIENT
(16.2 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☐ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (21.8 mi²)

%POOL: ___ %GLIDE: ___ %RUN: ___ %RIFFLE: ___

Gradient: 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st --sample pass-- 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st _____ cm

2nd _____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

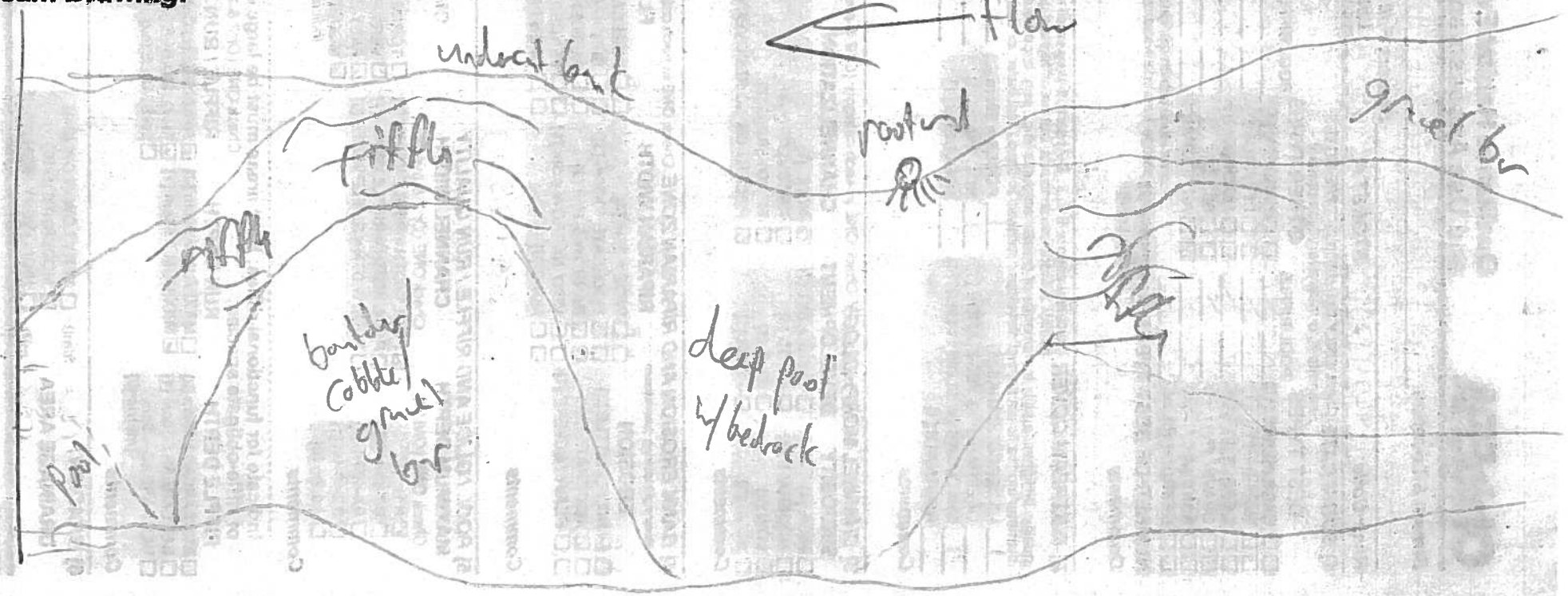
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



OhioEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 58.5

Stream & Location: Euclid Creek DST Lakeshore Blvd. Matson/Boeringer **RM:** 0.55 **Date:** 6/29/20

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 19-041-000 **STORET #:** E01A42 **Lat./Long.:** (NAD 83 decimal) 41.5833 -81.5594 Office verified location ☐

1] SUBSTRATE

Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐☐ BLDR /SLABS [10]	✓		☐☐ HARDPAN [4]	✓	
☐☐ BOULDER [9]	✓		☐☐ DETRITUS [3]		
☐☐ COBBLE [8]	✓		☐☐ MUCK [2]		
☐☐ GRAVEL [7]	✓		☐☐ SILT [2]	✓	
☐☐ SAND [6]	✓		☐☐ ARTIFICIAL [0]		
☐☐ BEDROCK [5]					

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ☐ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN: ☐ LIMESTONE [1] ☐ TILLS [1] ☐ WETLANDS [0] ☐ HARDPAN [0] ☐ SANDSTONE [0] ☐ RIP/RAP [0] ☐ LACUSTURINE [0] ☐ SHALE [-1] ☐ COAL FINES [-2]

QUALITY: SILT ☐ HEAVY [-2] ☐ MODERATE [-1] ☐ NORMAL [0] ☐ FREE [1]; EMBEDDEDNESS ☐ EXTENSIVE [-2] ☐ MODERATE [-1] ☐ NORMAL [0] ☐ NONE [1]

Comments 7+6+2+1-0.5-0.5

Substrate 15 (Maximum 20)

2] INSTREAM COVER

Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

3 UNDERCUT BANKS [1]	3 POOLS > 70cm [2]	1 OXBOWS, BACKWATERS [1]	
3 OVERHANGING VEGETATION [1]	3 ROOTWADS [1]	1 AQUATIC MACROPHYTES [1]	
1 SHALLOWS (IN SLOW WATER) [1]	3 BOULDERS [1]	1 LOGS OR WOODY DEBRIS [1]	
ROOTMATS [1]			

AMOUNT Check ONE (Or 2 & average): ☐ EXTENSIVE >75% [11] ☑ MODERATE 25-75% [7] ☑ SPARSE 5-<25% [3] ☐ NEARLY ABSENT <5% [1]

Comments 7+5

Cover 12 (Maximum 20)

3] CHANNEL MORPHOLOGY

Check ONE in each category (Or 2 & average)

SINUOSITY: ☐ HIGH [4] ☐ MODERATE [3] ☑ LOW [2] ☐ NONE [1]

DEVELOPMENT: ☐ EXCELLENT [7] ☐ GOOD [5] ☐ FAIR [3] ☑ POOR [1]

CHANNELIZATION: ☑ NONE [6] ☐ RECOVERED [4] ☐ RECOVERING [3] ☐ RECENT OR ARTIFICIAL RECOVERY [1]

STABILITY: ☐ HIGH [3] ☑ MODERATE [2] ☐ LOW [1]

Comments 2+1+6+2

Channel 11 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE

Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	
☑☑ NONE / LITTLE [3]	☐☐ WIDE > 50m [4]	☐☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☑☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☑ NARROW 5-10m [2]	☑☑ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments 3+2.5+1

Riparian 6.5 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!): ☑ > 1m [6] ☐ 0.7-<1m [4] ☐ 0.4-<0.7m [2] ☐ 0.2-<0.4m [1] ☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average): ☐ POOL WIDTH > RIFFLE WIDTH [2] ☑ POOL WIDTH = RIFFLE WIDTH [1] ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply: ☐ TORRENTIAL [-1] ☐ VERY FAST [1] ☐ FAST [1] ☐ MODERATE [1] ☑ SLOW [1] ☐ INTERSTITIAL [-1] ☐ INTERMITTENT [-2] ☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments 6+0+1

Pool / Current 8 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☑ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☐ BEST AREAS > 10cm [2]	☐ MAXIMUM > 50cm [2]	☐ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	☐ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments

Riffle / Run 0 (Maximum 8)

6] GRADIENT

(5.9 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☐ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (23 mi²)

%POOL: ( ) %GLIDE: ( ) %RUN: ( ) %RIFFLE: ( )

Gradient 6 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st -sample pass- 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st pass _____ cm

2nd _____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

_____

_____

_____

_____

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

POOL: ☐ >100ft² ☐ >3ft (AREA DEPTH)

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

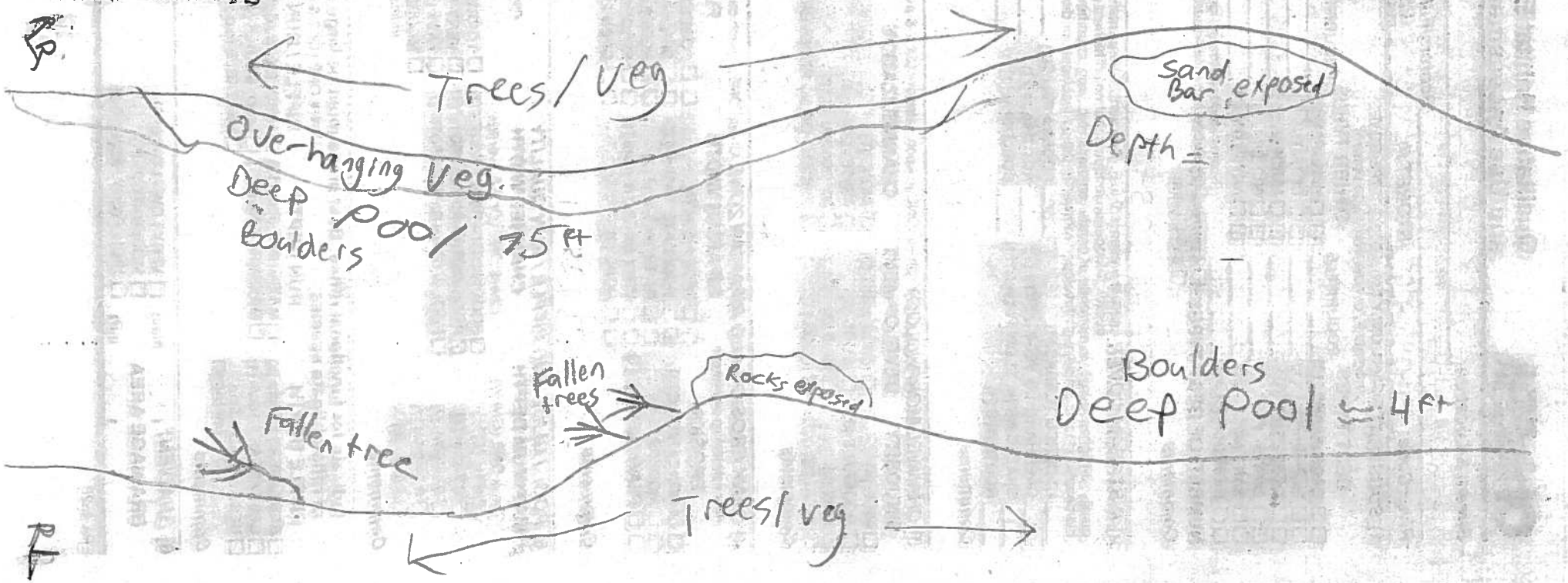
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing.



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 70

Stream & Location: Rocky River UST Puritas Ave **RM:** 8.30 **Date:** 7/16/20

Scorers Full Name & Affiliation: Matteson, Mark — Northeast Ohio Regional Sewer District

River Code: 13-001-000 **STORET #:** 501810 **Lat./ Long.:** (NAD 83 - decimal °) 41.4354 -81.8435 — Office verified location ☐

1] SUBSTRATE

Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐☐ BLDR /SLABS [10]	✓	✓	☐☐ HARDPAN [4]		
☐☐ BOULDER [9]	✓	✓	☐☐ DETRITUS [3]		
☐■ COBBLE [8]	✓	✓	☐☐ MUCK [2]		
☐☐ GRAVEL [7]	✓	✓	☐☐ SILT [2]		
☐☐ SAND [6]	✓	✓	☐☐ ARTIFICIAL [0]		
■☐ BEDROCK [5]	✓	✓			

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ■ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN	QUALITY
☐ LIMESTONE [1]	☐ HEAVY [-2]
■ TILLS [1]	☐ MODERATE [-1]
☐ WETLANDS [0]	■ NORMAL [0]
☐ HARDPAN [0]	☐ FREE [1]
☐ SANDSTONE [0]	☐ EXTENSIVE [-2]
☐ RIP/RAP [0]	☐ MODERATE [-1]
☐ LACUSTURINE [0]	■ NORMAL [0]
■ SHALE [-1]	☐ NONE [1]
☐ COAL FINES [-2]	

SILT — EMBEDDEDNESS

Comments 5+8+2+0+0+0

Substrate 15 (Maximum 20)

2] INSTREAM COVER

Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

___ UNDERCUT BANKS [1]	___ POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	___ ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	___ LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT Check ONE (Or 2 & average)

☐ EXTENSIVE >75% [11]
■ MODERATE 25-75% [7]
■ SPARSE 5-<25% [3]
☐ NEARLY ABSENT <5% [1]

Comments 2+5

Cover 7 (Maximum 20)

3] CHANNEL MORPHOLOGY

Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	■ NONE [6]	■ HIGH [3]
☐ MODERATE [3]	■ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
■ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☐ NONE [1]	☐ POOR [1]	☐ RECENT OR NO RECOVERY [1]	

Comments 2+5+6+3

Channel 16 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE

Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
■■ NONE / LITTLE [3]	■■ WIDE > 50m [4]	☐☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☐☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☐ NARROW 5-10m [2]	■■ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments 3+4+1

Riparian 8 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!)

☐ > 1m [6]
☐ 0.7-<1m [4]
■ 0.4-<0.7m [2]
☐ 0.2-<0.4m [1]
☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average)

■ POOL WIDTH > RIFFLE WIDTH [2]
■ POOL WIDTH = RIFFLE WIDTH [1]
☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply

☐ TORRENTIAL [-1]	■ SLOW [1]
☐ VERY FAST [1]	☐ INTERSTITIAL [-1]
■ FAST [1]	■ INTERMITTENT [-2]
■ MODERATE [1]	☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments 2+1.5+3

Pool / Current 6.5 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
■ BEST AREAS > 10cm [2]	■ MAXIMUM > 50cm [2]	■ STABLE (e.g., Cobble, Boulder) [2]	■ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	■ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments 2+2+2+1.5

Riffle / Run 7.5 (Maximum 8)

6] GRADIENT

(6.13 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ■ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (282 mi²)

%POOL: ___ %GLIDE: ___
%RUN: ___ %RIFFLE: ___

Gradient 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st-sample pass-2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

1st pass _____ cm

2nd _____ cm

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

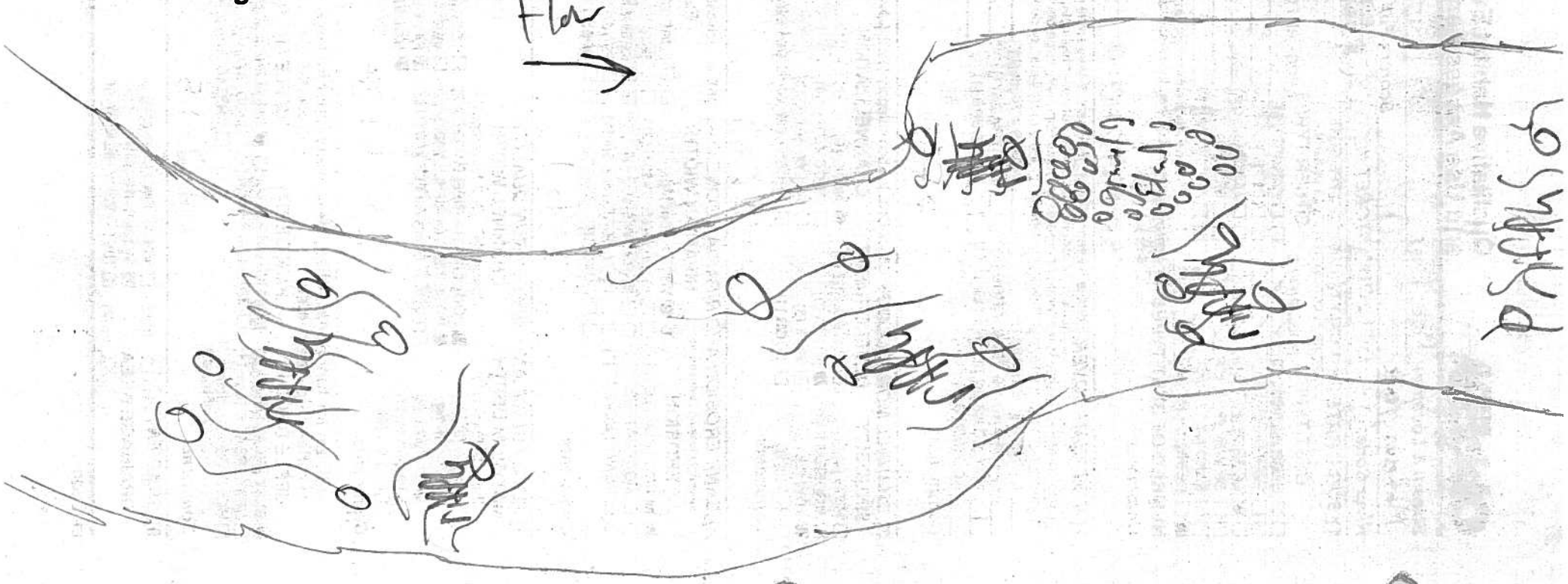
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Ohio EPA — Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 79

Stream & Location: Rocky River UST Hilliard Blvd. **RM:** 2.50 **Date:** 7/02/20

Scorers Full Name & Affiliation: Mark Matheson, Northeast Ohio Regional Sewer District

River Code: 13-001-000 **STORET #:** T01W04 **Lat./Long.:** (NAD 83 decimal°) 41.4712 / -81.8239 **Office verified location** ☐

1] SUBSTRATE
Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☒☐ BLDR /SLABS [10]	X	X	☐☐ HARDPAN [4]		
☐☐ BOULDER [9]	X	X	☐☐ DETRITUS [-1]		
☐☒ COBBLE [8]	X	X	☐☐ MUCK [2]		
☐☐ GRAVEL [7]	X	X	☐☐ SILT [2]		
☐☐ SAND [6]	X	X	☐☐ ARTIFICIAL [0]		
☐☐ BEDROCK [5]	X	X	(Score natural substrates; ignore sludge from point-sources)		

NUMBER OF BEST TYPES: ☒ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN	QUALITY
☐ LIMESTONE [1]	☐ HEAVY [-2]
☒ TILLS [1]	☐ MODERATE [-1]
☐ WETLANDS [0]	☒ NORMAL [0]
☐ HARDPAN [0]	☐ FREE [1]
☐ SANDSTONE [0]	SILT
☐ RIP/RAP [0]	EMBEDDEDNESS
☐ LACUSTURINE [0]	☐ EXTENSIVE [-2]
☒ SHALE [-1]	☐ MODERATE [-1]
☐ COAL FINES [-2]	☒ NORMAL [0]
	☐ NONE [1]

Comments

Substrate 20 (Maximum 20)

2] INSTREAM COVER
Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

___ UNDERCUT BANKS [1]	1 POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	___ ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	1 LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT Check ONE (Or 2 & average)
- ☐ EXTENSIVE >75% [11]
- ☐ MODERATE 25-75% [7]
- ☒ SPARSE 5-<25% [3]
- ☐ NEARLY ABSENT <5% [1]

Comments

Cover 8 (Maximum 20)

3] CHANNEL MORPHOLOGY
Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	☒ NONE [6]	☒ HIGH [3]
☐ MODERATE [3]	☒ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
☒ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☒ NONE [1]	☐ POOR [1]	☐ RECENT OR NO RECOVERY [1]	

Comments

Channel 15.5 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE
Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
☒☒ NONE / LITTLE [3]	☒☐ WIDE > 50m [4]	☒☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☐☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☐ NARROW 5-10m [2]	☒☒ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments

Riparian 8.5 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!)
- ☒ > 1m [6]
- ☐ 0.7-<1m [4]
- ☐ 0.4-<0.7m [2]
- ☐ 0.2-<0.4m [1]
- ☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average)
- ☐ POOL WIDTH > RIFFLE WIDTH [2]
- ☒ POOL WIDTH = RIFFLE WIDTH [1]
- ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply

☐ TORRENTIAL [-1]	☒ SLOW [1]
☐ VERY FAST [1]	☐ INTERSTITIAL [-1]
☒ FAST [1]	☐ INTERMITTENT [-2]
☒ MODERATE [1]	☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments

Pool / Current 10 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☒ BEST AREAS > 10cm [2]	☒ MAXIMUM > 50cm [2]	☒ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	☒ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments

Riffle / Run 7 (Maximum 8)

6] GRADIENT
(8.77 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☒ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (292 mi²)

%POOL: ___ %GLIDE: ___ %RUN: ___ %RIFFLE: ___

Gradient 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st sample pass 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st_____ cm
2nd_____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

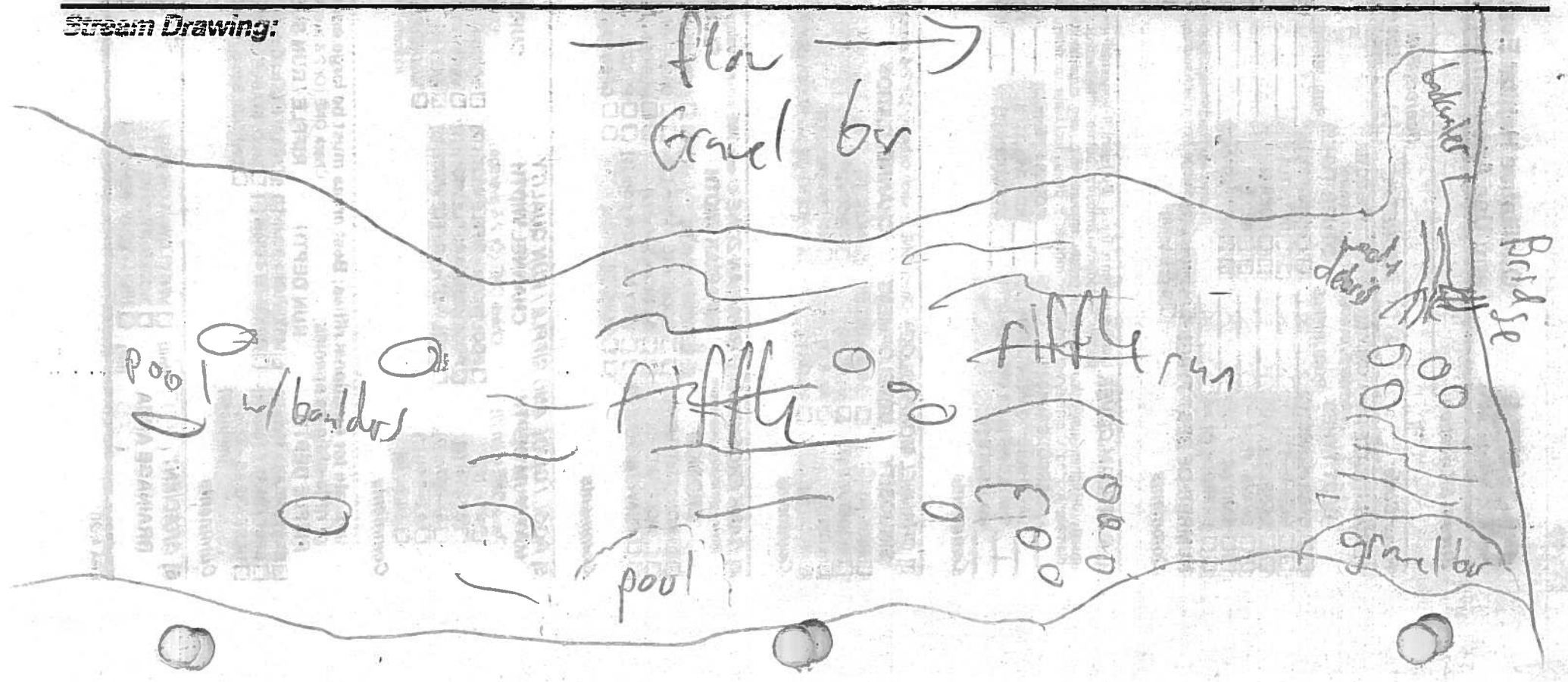
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Appendix D: 2020 Macroinvertebrate Field Sheets and Results

NEORSD Macroinvertebrate Field Sheet

Stream: Euclid Creek River Mile: 1.65 Year: 2020

Location: US St. Clair Avenue Project: 2020 Euclid Creek Env. Mon

River Code: 19-041-000 Station ID: 504250

Drainage Area (mi^2): 21.8 Latitude (°N)/Longitude (°W): 41.5738 -81.5470

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOL P

Hester-Dendy Deployment Information

Install Date: 6/16/20 Crew (QDC Circled): E. Sachnlen H. Boesinger

Current at HD (fps): 0.82 Depth (cm): 12 Pictures Obtained: Yes No

Replicate/Reinstall Date: — Crew (QDC Circled): —

Current (fps): — Depth (cm): — Reason: —

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 7/29/20 Crew (QDC Circled): E. Sachnlen D. Neelon

OEPA Comment Field Codes: _____ Water Temp: 25.4 °C °F

HD Condition- *Current (fps):* 0.34 *Depth (cm):* 8 *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 85 X Number of Crew: 2 = Total (min): 170

Start Time: 11:20 *End Time:* 12:45 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Kornlen QDC #: 60837 Date: 9/10/2020

Company/Entity: Third Rock Consulting

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X		X			
Boulder	X		X			
Cobble/Rubble	X		X			
Gravel Course	X		X			
Gravel Fine	X		X			
Sand	X		X			
Silt						
Clay/Hardpan						
Detritus						
Peat						
Muck						
Other						
Macrophytes						
Algae	X		X			
Artifacts	X		X			
Compaction (F,M,S)	F		F			
Depth (Avg)	6in		18+			
Width (Avg)	40+		30+			

Predominant Land Use (Left, Right or Both)

Forest RR	Urban	Open Pasture
Shrub	Residential/Park	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial RL	Other _____

Predominant Riparian Vegetation

	Left	Right
Type		
Large Trees	X	X
Small Trees		
Shrubs		
Grass/Weeds		
None		
Riparian Width		

Riffle Habitat

Embedded: Yes (No)

Development:

X	Extensive
	Moderate
	Sparse
	Absent

Quality: (Good) Fair Poor

Margin Habitat

Margin Quality: (Good) Fair Poor 1 % remaining 99% clay banks

Types Present:

(Root Mats)	Undercut Banks	
(Tree Roots)	Shallows	Rip Rap
Woody Debris	(Soft Clay)	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151; A= 150-101; C= 100-11; R= 10-1)

Est Amt	
/	Porifera, Bryozoa
C / R-	Turbellaria, Oligochaeta, Hirudinea
C / C	Isopoda, Amphipoda
R-	Decapoda. Hydracarina
	Ephemeroptera
V	Baetidae
R	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
R R-	Zygoptera, Anisoptera
	Plecoptera
	Hemiptera
	Megaloptera, Neuroptera
	Trichoptera
C-	Hydropsychidae
	Hydroptilidae, Leptoceridae
A	Other Philopotamidae/Polycentropodidae
	Coleoptera
C	Elimidae
	Other _____
	Diptera
C	Chironomidae
	Tipulidae, Simuliidae
	Other _____
/	Gastropoda, Bivalvia
	Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Baetidae

Other Common Organisms: philopotamidae/polycentropodidae

Density:	High	(Moderate)	Low
Diversity:	High	(Moderate)	Low

Run:

Predominant Organism: Elmidae

Other Common Organisms: midge

Density:	High	Moderate	(Low)
Diversity:	High	Moderate	(Low)

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density:	High	Moderate	Low
Diversity:	High	Moderate	Low

Margin:

Predominant Organism: Amphipod

Other Common Organisms: Isopod

Density:	High	(Moderate)	Low
Diversity:	High	Moderate	(Low)

Other Notable Collections: _____

Field Narrative Rating: E VG (G) MG F P VP

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Euclid Creek River Mile: 0.55 Year: 2020

Location: DS Lakeshore BLVD Project: 2020 Euclid Creek Env. Mon

River Code: 19-041-000 Station ID: E01A47

Drainage Area (mi²): 23.0 Latitude (°N)/Longitude (°W): 41.5833 -81.5594

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* _____

Backflow conditions from Lake

Hester-Dendy Deployment Information

Install Date: 6/16/2020 Crew (QDC Circled): E. Sochalski H. Boesinger

Current at HD (fps): -0.04 Depth (cm): 46 Pictures Obtained: Yes No

Replicate/Reinstall Date: _____ Crew (QDC Circled): _____

Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 7/29/20 Crew (QDC Circled): E. Sochalski P. Neelon

OEPA Comment Field Codes: _____ Water Temp: 23.6 °C °F

HD Condition- *Current (fps):* 0.01 *Depth (cm):* 29 *Comments:* 90% Buried in Sand

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____ 90% buried in sand/silt

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 70 X Number of Crew: 2 = Total (min): 140

Start Time: 9:30 *End Time:* 10:40 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Kemler QDC #: 06837 Date: 9/8/2020

Company/Entity: Third Rock Consulting

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X					
Boulder	X					
Cobble/Rubble	X		X			
Gravel – Course	X		X		X	
Gravel – Fine	X		X		X	
Sand	X		X		X	
Silt	X		X		X	
Clay/Hardpan	X					
Detritus	X					
Peat	X					
Muck	X					
Other	X					
Macrophytes	X					
Algae	X					
Artifacts	X		X			
Compaction (F,M,S)	X		S		S	
Depth (Avg)	X		6 in		4 ft	
Width (Avg)	X		80 ft		40 ft	

Cobble is up to 10 in

Coarse Gravel

Fine Gravel

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park (Both)	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
		Large Trees
		Small Trees
	X	Shrubs
X		Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No N/A

Development:

	Extensive
	Moderate
	Sparse
X	Absent

Quailty: Good Fair Poor N/A

Margin Habitat

Margin Quality: Good Fair (Poor) 1% % almost all eroded clay banks

Types Present:

(Root Mats)	Undercut Banks	
Tree Roots	Shallows	Rip Rap
Woody Debris	(Soft Clay)	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151, A= 150-101; C= 100-11; R= 10-1)

Est. Amt		
		Porifera, Bryozoa
A / C-		Turbellaria, Oligochaeta, Hirudinea
C / C		Isopoda, Amphipoda
	R	Decapoda, Hydracarina
		Ephemeroptera
R		Baetidae
C- / R-		Heptageniidae, Leptohyphidae, Caenidae
		Other _____
R /		Zygoptera, Anisoptera
		Plecoptera
R		Hemiptera
/		Megaloptera, Neuroptera
		Trichoptera
		Hydropsychidae
/		Hydroptilidae, Leptoceridae
R-		Other philopotamidae/Polycentropodidae
		Coleoptera
C		Elimidae
		Other _____
		Diptera
A		Chironomidae
		Tipulidae, Simuliidae
		Other _____
R /		Gastropoda, Bivalvia
		Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:
Predominant Organism: N/A
Other Common Organisms: _____
Density: High Moderate Low
Diversity: High Moderate Low

Run:
Predominant Organism: Chironomidae
Other Common Organisms: Flatworm
Density: High Moderate (Low)
Diversity: High Moderate (Low)

Pool:
Predominant Organism: Chironomidae
Other Common Organisms: _____
Density: High Moderate (Low)
Diversity: High Moderate (Low)

Margin:
Predominant Organism: Amphipod
Other Common Organisms: Isopods
Density: High (Moderate) Low
Diversity: High Moderate (Low)

Other Notable Collections: _____

Field Narrative Rating: E VG G MG (F) P VP

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 8.30 Year: 2020

Location: US1 Bridge Project: 2020 Rocky River Environmental Monitoring

River Code: 13-001-000 Station ID: 501810

Drainage Area (mi²): 282 Latitude (°N)/Longitude (°W): 41.4354 -81.8436

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOLP

Hester-Dendy Deployment Information

Install Date: 7/21/20 Crew (QDC Circled): ES + MM

Current at HD (fps): 0.69 Depth (cm): 23 Pictures Obtained: Yes No

Replicate/Reinstall Date: 8/12/2020 Crew (QDC Circled): Eric Sechnlen + Joe Shciel

Current (fps): 0.69 Depth (cm): 23cm Reason: HD Missing

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 9/24/2020 Crew (QDC Circled): E. Sechnlen M. Matteson

OEPA Comment Field Codes: _____ Water Temp: 16.9 °C °F

HD Condition- *Current (fps):* 0.37 *Depth (cm):* 13 *Comments:* Algae on HD

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID* _____

Dipnet- Time Sampled (min): 80 X Number of Crew: 2 = Total (min): 160

Start Time: 9:00 *End Time:* 10:20 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Remley QDC #: 00837 Date: 11-12-20

Company/Entity: Third Rock Consultants

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X		X			
Boulder	X		X			
Cobble/Rubble	X		X			
Gravel Course	X		X			
Gravel Fine	X		X			
Sand	X		X			
Silt	X		X			
Clay/Hardpan						
Detritus						
Peat						
Muck						
Other						
Macrophytes						
Algae	X		X			
Artifacts						
Compaction (F,M,S)	F					
Depth (Avg)	1.5'		2'			
Width (Avg)	80'		120'			

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park (Both)	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
		Large Trees
		Small Trees
		Shrubs
X	X	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes (No)

Development:

X	Extensive
	Moderate
	Sparse
	Absent

Quality: (Good) Fair Poor

Margin Habitat

Margin Quality: Good Fair (Poor) 5 %

Types Present:

(Root Mats)	Undercut Banks	
Tree Roots	Shallows	Rip Rap
(Woody Debris)	Soft Clay	Bulkhead
(Macrophytes/Grass)	Other _____	

Biological Characteristics

Overall Collection

(V= >151, A= 150-101, C= 100-11, R= 10-1)

Est. Amt	
R / R	Porifera, Bryozoa
C / C	Turbellaria, Oligochaeta, Hirudinea
R / C	Isopoda. Amphipoda
/ R	Decapoda, Hydracarina
	Ephemeroptera
A	Baetidae
C C R	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
C / R	Zygoptera, Anisoptera
	Plecoptera
? R	Hemiptera
/	Megaloptera, Neuroptera
	Trichoptera
V	Hydropsychidae
/	Hydroptilidae, Leptoceridae
A	Other philopotamidae/polycentropodidae
	Coleoptera
C	Elimidae
? R	Other Haplidae
	Diptera
C	Chironomidae
R	Tipulidae, Simuliidae
	Other _____
R+ R	Gastropoda, Bivalvia
	Other _____

V= Very Abundant, A= Abundant, C= Common, R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Hydropsychidae

Other Common Organisms: philopotamidae

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Run:

Predominant Organism: Hydropsychidae

Other Common Organisms: Heptageniidae

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Leptohyphidae

Other Common Organisms: Zygoptera

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Other Notable Collections: _____

Field Narrative Rating: E (VG) G MG F P VP

Abundant EPT

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 2.50 Year: 2020

Location: US of Hillard Road Project: 2020 Rocky River Environmental Monitoring

River Code: 13-001-000 Station ID: T01W001

Drainage Area (mi²): 292 Latitude (°N)/Longitude (°W): 41.4713 -81.8240

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOLP

Hester-Dendy Deployment Information

Install Date: 7/21/20 Crew (QDC Circled): ES + MM

Current at HD (fps): 0.92 Depth (cm): 16 Pictures Obtained Yes No

Replicate/Reinstall Date: _____ Crew (QDC Circled): _____

Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 9/1/2020 Crew (QDC Circled): E. Seelye H. Bergsieker

OEPA Comment Field Codes: _____ Water Temp: 29.8 °C °F

HD Condition- *Current (fps):* 0.66 *Depth (cm):* 20 *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 55 X Number of Crew: 2 = Total (min): 110

Start Time: 2:30 *End Time:* 3:25 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Ramley QDC #: 00837 Date: 11/25/2020

Company/Entity: Third Rock Consultants

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

Cobble is up to 10 in

Course Gravel

Fine Gravel

Sand

		Riffle	Units	Run	Units	Pool	Units
Bedrock							
Boulder		K					
Cobble/Rubble		K		K			
Gravel	Course	K		K			
	Fine	K		K			
Sand		K		K			
Silt		K		K			
Clay/Hardpan							
Detritus							
Peat							
Muck							
Other							
Macrophytes							
Algae		K		K			
Artifacts		K		K			
Compaction (F,M,S)		F		F			
Depth (Avg)		1'		2'			
Width (Avg)		100'		120'			

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
K	K	Large Trees
K	K	Small Trees
		Shrubs
K	K	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No

Development:

✓	Extensive
	Moderate
	Sparse
	Absent

Quality: Good Fair Poor

Margin Habitat

Margin Quality: Good Fair Poor < 1 %

Types Present:

Root Mats	Undercut Banks	
Tree Roots	Shallows	Rip Rap
Woody Debris	Soft Clay	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151; A= 150-101; C= 100-11; R= 10-1)

Est. Amt		
R		Porifera, Bryozoa
C		Turbellaria, Oligochaeta, Hirudinea
C A		Isopoda, Amphipoda
R		Decapoda, Hydracarina
		Ephemeroptera
C+		Baetidae
C+ / C		Heptageniidae, Leptohyphidae, Caenidae
		Other _____
C / R		Zygoptera, Anisoptera
		Plecoptera
		Hemiptera
		Megaloptera, Neuroptera
		Trichoptera
C+		Hydropsychidae
		Hydroptilidae, Leptoceridae
C		Other Philopotamidae/Polycentropodidae
		Coleoptera
C		Elimidae
		Other _____
		Diptera
R		Chironomidae
		Tipulidae, Simuliidae
		Other _____
C+		Gastropoda, Bivalvia
		Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Baetidae

Other Common Organisms: Hydropsychidae

Density: High Moderate Low

Diversity: High Moderate Low

Run:

Predominant Organism: Heptageniidae

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Caenidae

Other Common Organisms: Sand

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

Field Narrative Rating: E VG G MG F P VP

Last Modified 04/13/20

Euclid Creek Upstream of St. Clair Avenue

River Mile: **1.65**

Station ID: **504250**

Drainage Area: **21.8** **miles^2**

OEPA Taxa Code	Species	Number HD	Number Qual
1801	Turbellaria	28	+
3600	Oligochaeta	121	+
4960	Erpobdella sp (= Mooreobdella)		+
5800	Caecidotea sp		+
6700	Crangonyx sp		+
8601	Hydrachnidia	4	+
11120	Baetis flavistriga	11	+
11130	Baetis intercalaris	74	+
13521	Stenonema femoratum		+
17200	Caenis sp	1	
22700	Ischnura sp		+
23600	Aeshna sp		+
50301	Chimarra aterrima		+
50315	Chimarra obscura	2	+
51600	Polycentropus group	1	+
52200	Cheumatopsyche sp	13	+
52431	Ceratopsyche morosa	11	+
52450	Ceratopsyche sparna	5	
52530	Hydropsyche depravata group	2	+
53800	Hydroptila sp	5	+
59500	Oecetis sp		+
68601	Ancyronyx variegata		+
69400	Stenelmis sp	45	+
70600	Antocha sp	2	
74100	Simulium sp		+
78450	Nilotanypus fimbriatus	8	
79100	Thienemannimyia group	287	+
79720	Diamesa sp	10	+
80310	Cardiocladius obscurus		+
80420	Cricotopus (C.) bicinctus	50	
80430	Cricotopus (C.) tremulus group	109	
81825	Rheocricotopus (Psilocricotopus) robacki	10	
82100	Thienemanniella sp	32	
83040	Dicrotendipes neomodestus	89	
84210	Paratendipes albimanus or P. duplicatus	129	
84300	Phaenopsectra obediens group		+
84415	Polypedilum (P.) sp		+
84450	Polypedilum (Uresipedilum) flavum	40	
84540	Polypedilum (Tripodura) scalaenum group	149	
85500	Paratanytarsus sp	20	
85821	Tanytarsus glabrescens group sp 7	149	
87540	Hemerodromia sp	6	

Number of Organisms 1413

ICI Score 32

Euclid Creek Upstream of St. Clair Avenue

River Mile:	**1.65**
Station ID:	**504250**
Number of Quantitative Taxa	29
Number of Qualitative Taxa	27
Number of Qualitative EPT Taxa	11
Total Number of Taxa	42

Euclid Creek Downstream of Lakeshore Boulevard

River Mile: **0.55**

Station ID: **F01A47**

Drainage Area: **23.0** **miles^2**

OEPA Taxa Code	Species	Qualitative EPT Taxa	Qualitative Taxa	Coldwater Taxa	Pollution Tolerance
1801	Turbellaria		y		F
3600	Oligochaeta		y		T
4687	Placobdella parasitica		y		MT
4960	Erpobdella sp (= Mooreobdella)		y		MT
5800	Caecidotea sp		y		T
6201	Hyalella sp		y		F
6700	Crangonyx sp		y		MT
8601	Hydrachnidia		y		F
11200	Callibaetis sp	y	y		MT
13521	Stenonema femoratum	y	y		F
17200	Caenis sp	y	y		F
44501	Corixidae		y		F
51600	Polycentropus group	y	y		MI
60900	Peltodytes sp		y		MT
68601	Ancyronyx variegata		y		F
69400	Stenelmis sp		y		F
72700	Anopheles sp		y		F
77120	Ablabesmyia mallochi		y		F
78655	Procladius (Holotanypus) sp		y		MT
79100	Thienemannimyia group		y		F
79400	Zavrelimyia (Z.) sp		y	y	F
80510	Cricotopus (Isocladius) sylvestris group		y		T
82730	Chironomus (C.) decorus group		y		T
82820	Cryptochironomus sp		y		F
83040	Dicrotendipes neomodestus		y		F
84210	Paratendipes albimanus or P. duplicatus		y		F
84300	Phaenopsectra obediens group		y		F
84470	Polypedilum (P.) illinoense		y		T
84540	Polypedilum (Tripodura) scalaenum group		y		F
85500	Paratanytarsus sp		y		F
85840	Tanytarsus sepp		y		F
95100	Physella sp		y		T

Rocky River Upstream of Puritas Road

River Mile: 8.30

Station ID: 501810

Drainage Area: 282.0 miles^2

OEPA Taxa Code	Species	Number HD	Number Qual
401	Spongillidae		+
1801	Turbellaria	387	+
3600	Oligochaeta	18	+
4960	Erpobdella sp (= Mooreobdella)		+
5800	Caecidotea sp		+
6201	Hyalella azteca		+
6700	Crangonyx sp		+
8601	Hydrachnidia		+
11120	Baetis flavistriga	178	+
11130	Baetis intercalaris	791	+
13400	Stenacron sp		+
13561	Maccaffertium pulchellum	373	+
16700	Tricorythodes sp	306	+
17200	Caenis sp	1	+
21200	Calopteryx sp		+
21300	Hetaerina sp		+
22300	Argia sp	4	+
22600	Enallagma sp		+
23600	Aeshna sp		+
23909	Boyeria vinosa		+
44300	Pelocoris sp		+
50315	Chimarra obscura	451	+
52200	Cheumatopsyche sp	2305	+
52431	Ceratopsyche morosa	795	+
52530	Hydropsyche depravata group	72	
52540	Hydropsyche dicantha	420	+
59407	Nectopsyche candida		+
65800	Berosus sp	7	+
68300	Cyphon sp		+
68601	Ancyronyx variegata	12	
68901	Macronychus glabratus	45	+
69400	Stenelmis sp	24	+
74100	Simulium sp	2	+
78140	Labrundinia pilosella		+
79100	Thienemannimyia group	76	
80420	Cricotopus (C.) bicinctus	51	+
80430	Cricotopus (C.) tremulus group	38	+
81240	Nanocladius (N.) distinctus	13	
82141	Thienemanniella xena	136	
82220	Tvetenia discoloripes group	76	+
83040	Dicrotendipes neomodestus		+
83840	Microtendipes pedellus group	13	
84450	Polypedilum (Uresipedilum) flavum	266	+
84470	Polypedilum (P.) illinoense		+
84540	Polypedilum (Tripodura) scalaenum group	13	

Rocky River Upstream of Puritas Road

River Mile: 8.30

Station ID: 501810

85500	Paratanytarsus sp	25	+
85625	Rheotanytarsus sp	164	+
85821	Tanytarsus glabrescens group sp 7	354	+
93900	Elimia sp	2	+
96900	Ferrissia sp	8	+
97601	Corbicula fluminea		+
98600	Sphaerium sp		+

Number of Organisms	7426
ICI Score	44
Number of Quantitative Taxa	32
Number of Qualitative Taxa	45
Number of Qualitative EPT Taxa	11
Total Number of Taxa	52

Rocky River Upstream of Hilliard Road

River Mile: 2.50

Station ID: T01W04

Drainage Area: 292.0 miles^2

OEPA Taxa Code	Species	Number HD	Number Qual
1801	Turbellaria	900	+
3360	Plumatella sp		+
3600	Oligochaeta	16	+
5800	Caecidotea sp	1	+
6201	Hyalella azteca		+
6700	Crangonyx sp		+
8200	Orconectes sp		+
8601	Hydrachnidia	16	
11120	Baetis flavistriga	69	+
11130	Baetis intercalaris	2292	+
13400	Stenacron sp	74	+
13521	Stenonema femoratum		+
13561	Maccaffertium pulchellum	1103	+
16700	Tricorythodes sp	851	+
17200	Caenis sp	33	+
22300	Argia sp		+
22600	Enallagma sp		+
26700	Macromia sp		+
50315	Chimarra obscura	984	+
51206	Cyrnellus fraternus	1	
52200	Cheumatopsyche sp	5606	+
52431	Ceratopsyche morosa	2219	+
52540	Hydropsyche dicantha	139	+
52570	Hydropsyche simulans	1	
53800	Hydroptila sp	67	
59970	Petrophila sp	35	
65800	Berosus sp		+
68601	Ancyronyx variegata	2	
68901	Macronychus glabratus	2	
69400	Stenelmis sp	2	+
71900	Tipula sp		+
77120	Ablabesmyia mallochi		+
78655	Procladius (Holotanypus) sp		+
79100	Thienemannimyia group	41	+
80350	Corynoneura sp	16	
81240	Nanocladius (N.) distinctus	81	
82141	Thienemanniella xena	48	
82220	Tvetenia discoloripes group	81	
83040	Dicrotendipes neomodestus	41	
84450	Polypedilum (Uresipedilum) flavum	608	
85625	Rheotanytarsus sp	2838	
85821	Tanytarsus glabrescens group sp 7	446	
85840	Tanytarsus sepp	41	+
87540	Hemerodromia sp	2	
93900	Elimia sp		+

Rocky River Upstream of Hilliard Road

River Mile: 2.50

Station ID: T01W04

95900	Gyraulus sp		+

Number of Organisms	18656
ICI Score	48
Number of Quantitative Taxa	32
Number of Qualitative Taxa	30
Number of Qualitative EPT Taxa	11
Total Number of Taxa	46

Appendix E: 2020 Fish Data Sheets

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 1

Station ID 504250 River Code 19-041-000 RM 1.65 Date 6/29/20 Time 1140

Stream Euclid Creek Location UST St. Clair Ave

Comments D.A. 21.8mi² Grad 16.2

Lat 41.5738 Long -81.5470 County Cuyahoga ALP ____ Time Fished 2118

Crew Matteson* Netter Schiel Others Boesinger Sampler Type E

Distance 0.20km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)	V	10x
1	43-013 Creek chub	163	163	1.18	1.18	163	D E L T M *		
2	43-043 Bluntnose minnow	39	39	0.078	0.078	39	D E L T M *		
3	43-044 Stoneroller	94	94	0.475	0.475	94	D E L T M *		
4	77-009 Bluegill	1	1	0.003	0.003	1	D E L T M *		
5	77-008 Green sunfish	1	1	0.006	0.006	1	D E L T M *		
6	40-016 White sucker	1	1	0.020	0.02	1	D E L T M *		
7	43-011 Blacknose dace	111	111	0.325	0.02 0.305	4 107	D E L T M *		
8							D E L T M *		
9							D E L T M *		

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

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Page _____ of _____

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights Counts			D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 1

Station ID 504250 River Code 19-041-0001 RM 1.65 Date 8/17/20 Time 1200

Stream Euclid Creek Location UST St. Clair Ave

Comments D.A. 24.8 mi² Grad. 16.2

Lat 41.5738 Long -81.5470 County Cuyahoga ALP ____ Time Fished 3553

Crew Boesinger Netter Neelon Others Telep* Sampler Type E

Distance 0.20 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)
1	43-013 Creek Chub	163	163	0.454	0.120 (98); 0.300 (61); 0.030 (2); 0.004 (2)	D E L T M *
2	43-011 Blacknose dace	278	278	0.365	0.19 (136); 0.195 (142)	D E L T M *
3	43-044 Central Stoneroller	387	387	0.865	0.375 (146); 0.20 (83); 0.29 (158)	D E L T M *
4	43-043 Bluntnose minnow	14	14	0.055	0.055 (14)	D E L T M *
5						D E L T M *
6						D E L T M *
7						D E L T M *
8						D E L T M *
9						D E L T M *

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

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	Fins Code	Number Weighed	Total Counted	Total Weight	Weights Counts			D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: ____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 2

Station ID F01A47 River Code 19-041-000 RM 0.55 Date 6/29/20 Time 9:06

Stream Euclid Creek Location DST Lakeshore Blvd.

Comments D.A. 23 mi² Grad 5.9

Lat 41.5833 Long -81.5594 County Cuyahoga ALP ____ Time Fished 3400

Crew Matteson* Netter Boesinger Others Schiel Sampler Type D

Distance 0.20 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	47-004 Yellow bullhead V 10x	22	22	1.418	0.085 (1) 0.860 (10) 0.473 (11)			D	E	L	T	M	*
2	47-005 Brown bullhead V2 10x	5	5	1.025	0.210 (1) 0.815 (4)			D	E	L	T	M	*
3	43-043 Bluntnose V 10x	16	16	0.085	0.020 (1) 0.065 (15)			D	E	L	T	M	*
4	40-016 White sucker V 10x	178	178	0.270	0.270 (178)			D	E	L	T	M	*
5	77-013 Pumpkinseed sunfish V 10x	14	14	0.400	0.370 (13) 0.030 (1)			D	E	L	T	M	*
6	77-009 Bluegill sunfish V 10x	17	17	0.440	0.270 (17)			D	E	L	T	M	*
7	77-008 Green sunfish V 10x	4	4	0.032	0.032 (4)			D	E	L	T	M	*
8	87-001 Round goby V 10x	27	27	0.290	0.290 (27)			D	E	L	T	M	*
9	43-013 Creek chub V 10x	41	41	0.022	0.020 (39) 0.002 (2)			D	E	L	T	M	*

* A-anchor worm; B-black spot; C-leeches; F-fungus: N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			D	E	L	T	M	*
10	43-001 Common carp	4	4	0.013	0.013	4								
	V 10x													
11	77-004 Smallmouth bass	7	7	0.020	0.018	6								
					0.002	1								
	V 10x													
12	43-044 Stoneroller	12	12	0.021	0.012	6	0.004	2						
					0.002	2								
	V 10x				0.003	2								
13	80-011 Logperch	1	1	0.008	0.008	1								
	V 10x													
14	43-031 Sand shiner	3	3	0.005	0.005	3								
	V 10x													
15	43-035 Mimic Shiner	4	4	0.008	0.006	3								
					0.002	1								
	V 10x													
16	77-003 Rock bass	5	5	0.065	0.065	5								
	V 10x													
17														
	V 10x													
18														
	V 10x													
19														
	V 10x													
20														
	V 10x													
21														
	V 10x													

OhioEPA **FISH DATA SHEET** Sheet ID For Office Use Only [ ] *New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 1 of 2

Station ID F01A47 River Code 19-041-000 RM 0.55 Date 8/17/20 Time 0845

Stream Euclid Creek Location DST Lakeshore Blvd.

Comments D.A. 23 mi² Grad. 5.9

Lat 41.5833 Long -81.5594 County Cuyahoga ALP ____ Time Fished 4333

Crew J. Telep* Netter D Neelon Others H. Boesinger Sampler Type D

Distance 0.2km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D E L T M *
1	20-003 Gizzard Shad V 10x	143	143	1.4	1.4 (143)	D: (1)
2	80-011 Logperch V 10x	1	1	0.030	0.030 (1)	
3	43-022 Resuface Shiner V 10x	1	1	0.004	0.004 (1)	
4	43-044 Stoneroller Minnow V 10x	3	3	0.008	0.008 (3)	
5	80-003 Yellow Perch V 1 10x	1	1	0.004	0.004 (1)	
6	74-003 White Perch V 10x	1	1	0.004	0.004 (1)	
7	87-001 ~~Gob~~ Round goby V 10x	53	53	0.194	0.190 (52) 0.004 (1)	
8	43-035 Mimic Shiner V 2 10x	45	45	0.060	0.060 (45)	
9	43-034 Sand Shiner V 10x	10	10	0.020	0.020 (10)	

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated; W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	40-016 White Sucker	13	13		0.685 (13) 0.660 (13)								
	V 10x												
11	43-013 Creek Chub	19	19	0.038	0.038 (19)								
	V 10x												
12	77-013 Pumpkinseed Sunfish	87	87	1.627	0.405 (20) 0.500 (39) 0.700 (26) 0.022 (2)					1			
	V 10x												
13	77-009 Blue Gill	53	53	0.75	0.400 (24) 0.350 (29)								
	V 10x												
14	77-003 Rock Bass	8	8	0.250	0.250 (8)				(1)				
	V 10x												
15	Pumpkinseed x Blue gill												
	V 10x												
16	47-005 Brown Bullhead	1	1	0.150	0.150 (1)					(1)			
	V 10x												
17	47-004 Yellow Bullhead	26	26	1.150	1.150 (26)					(4)			
	V 10x												
18	77-006 Largemouth Bass	15	15	0.240	0.240 (15)								
	V 10x												
19	77-008 Green Sunfish	1	1	0.009	0.009 (1)								
	V 10x												
20													
	V 10x												
21													
	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 2

Station ID 501810 River Code 13-001-000 RM 8.30 Date 7/14/20 Time 11:00

Stream Rocky River Location Ust Puritas Ave

Comments D.A. 282 mi² Grad. 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP ____ Time Fished 4409

Crew Matteson* Netter Telep Others Boesinger Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D E L T M *
1	47-008 Stonecat Mad tom	36	36	0.655	0.655	36	
2	77-003 Rock Bass	11	11	0.180	0.18	11	
3	43-022 Rosyface Shiner	6	6	0.040	0.04	6	
4	43-042 Fat head minnow	1	1	0.004	0.004	1	
5	43-039 Silver Jaw minnow	7	7	0.020	0.018 0.002	6 1	
6	77-009 Bluegill	2	2	0.065	0.065	2	
7	47-004 Yellow Bullhead	17	17	0.092	0.092	17	L 1
8	47-002 Channel Catfish	1	1	0.039	0.039	1	
9	40-005 Quillback Carpsucker	12	12	0.050	0.045 0.005	11 1	

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

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	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	77-004 Small Mouth Bass	42	42	0.317	0.31 (40)								
					0.003 (1)								
	V 10x				0.004 (1)								
11	43-032 Spotfin Shiner	71	71	0.384	0.38 (70)								
					0.004 (1)								
	V 10x												
12	43-034 Sand Shiner	80	80	0.183	0.165 (76)								
					0.018 (4)								
	V 10x												
13	43-043 Bluntnose Minnow	14	14	0.075	0.075 (14)								
	V 10x												
14	43-044 Stoneroller	48	48	0.100	0.1 (48)								
	V 10x												
15	80-015 Greenside Darter	53	53	0.281	0.25 (50)								
					0.022 (2)								
	V 10x				0.009 (1)								
16	87-001 Goby	68	68	0.550	0.550 (68)								
	V 10x												
17	80-014 Johnny Darter	2	2	0.005	0.005 (2)								
	V 10x												
18	80-022 Rainbow Darter	5	5	0.011	0.011 (5)								
	V 10x												
19	43-001 Common Carp	2	2	0.010	0.01 (2)								
	V 10x												
20	43-026 Common Shiner	40	40	0.049	0.049 (40)								
	V 10x												
21													
	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 3

Station ID 501810 River Code 13-001-000 RM 8.30 Date 9/21/20 Time 1245

Stream Rocky River Location Ust of Puritas Ave

Comments DA: 282 mi² Gradient: 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP _____ Time Fished 4350

Crew Matteson* Netter Fitzgibbons Others Schiel Sampler Type E

Distance 0.20Km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Rocky River

* Crew Leader

DELT ANOMALIES: Deformities, Erosions, Lesions, Tumors — Multiple DELTs on one fish

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (D E L T M *)
1	40-015 Northern Hogsucker	4	4	0.570	0.508 (1) 0.062 (3)		
2	77-004 Small mouth Bass	13	13	0.810	0.460 (2)	0.350 (11)	
3	40-005 Quillback carpsucker	77	77	1.550	1.55 kg (77)		
4	77-003 Rock Bass	6	6	0.033	0.025 (4) 0.008 (2)		
5	43-035 Mimic Shiner	4	4	0.008	0.008 (4)		
6	43-034 Sand Shiner	207	207	0.392	0.390 (206)	0.002 (1)	
7	47-008 Stonecat madtom	12	12	0.270	0.270 (12)		
8	43-033 Bigmouth Shiner	2	2	0.005	0.005 (2)		
9	40-011 Shorthead redhorse	1	1	0.032	0.032 (1)		

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	CREEK CHUB	7	7	0.060	0.060 (7)								
	V 10x												
11	SILVER JAW MINNOW	3	3	0.020	0.020 (3)								
	V 10x												
12	BLUNTNOSE	99	99	0.600	0.600 (99)								
	V 10x												
13	ROSYFACE SHINER	91	91	0.150	0.150 (91)								
	V 10x												
14	STONEROLLER	131	131	1.070	1.07 (131)								
	V 10x												
15	JOHNNY DARTER	3	3	0.005	0.005 (3)								
	V 10x												
16	RAINO GOBY	41	41	0.300	0.230 (34) 0.070 (7)								
	V 10x												
17	RAINBOW DARTER	10	10	0.042	0.042 (10)								
	V 10x												
18	GREENSIDE DARTER	112	112	0.390	0.390 (112)								
	V 10x												
19	SPOTFIN SHINER	372	372	1.390	0.420 (98) 0.370 (103)	0.60 (171)							
	V 10x												
20	COMMON SHINER	124	124	0.390	0.390 (124)								
	V 10x												
21	Golden Redhorse	1	1	0.015	0.015 (1)								
	V 10x												

OhioEPA **FISH DATA SHEET**

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New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 3 of 3

Station ID 501810 River Code 13-001-000 RM 8.30 Date 9/21/20 Time 1245

Stream Rocky River Location Ust of Puritas Ave

Comments DA: 282 mi² Gradient: 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP ____ Time Fished 4350

Crew Matteson* Netter Fitzgibbons Others Schiel Sampler Type E

Distance 0.20 Km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

* Crew Leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts		DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	43-025 Striped Shiner	36	36	0.150	0.150	36		D	E	L	T	M	*
	V 10x												
2	40-016 White sucke	7	7	0.215	0.215	7		D	E	L	T	M	*
	V 10x												
3	77-009 Bluegill	2	2	0.004	0.004	2		D	E	L	T	M	*
	V 10x												
4								D	E	L	T	M	*
	V 10x												
5								D	E	L	T	M	*
	V 10x												
6								D	E	L	T	M	*
	V 10x												
7								D	E	L	T	M	*
	V 10x												
8								D	E	L	T	M	*
	V 10x												
9								D	E	L	T	M	*
	V 10x												

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Page _____ of _____

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts		D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ]

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 7/2/20 Time 9:00

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 292 mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4129 sec

Crew Telep Netter Hothem Others Matteson* Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	47-004 Yellow bullhead	7	7	0.620	0.195	3			D	E	L	T	M	*
					0.425	4								
	V 10x													
2	47-008 Stonecat Madtom	19	19	0.395	0.130	6			D	E	L	T	M	*
					0.265	13								
	V 10x													
3	80-011 Logperch	53	53	0.773	0.535	38			D	E	L	T	M	*
					0.238	15								
	V 10x													
4	47-002 Channel catfish	5	5	0.085	0.050	3			D	E	L	T	M	*
					0.035	2								
	V 10x													
5	77-009 Bluegill	25	25	0.350	0.235	12			D	E	L	T	M	*
					0.115	13								
	V 10x													
6	80-015 Greenside darter	30	30	0.124	0.055	15			D	E	L	T	M	*
					0.069	15								
	V 10x													
7	43-044 Stoneroller	29	29	0.128	0.060	14			D	E	L	T	M	*
					0.065	14								
	V 10x				0.003	1								
8	40-015 Hogsucker	8	8	0.490	0.275	3			D	E	L	T	M	*
					0.215	5								
	V 10x													
9	40-011 Shorthead redhorse	2	2	0.378	0.378	2			D	E	L	T	M	*
	10x													

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Weights (Counts)

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	80-022 Rainbow darter	1	1	0.002	0.002 (1)								
	V 10x												
11	80-002 Walleye	5	5	0.115	0.095 (4)								
	V2 10x				0.020 (1)								
12	25-002 Rainbow Trout	1	1	0.035	0.035 (1)								
	V 10x												
13	80-014 Johnny darter	1	1	0.003	0.003 (1)								
	V1 10x												
14	40-016 White sucker	20	20	0.354	0.125 (5)								
	V 10x				0.225 (14)								
					0.004 (1)								
15	43-032 Spotfin shiner	128	128	0.448	0.220 (66)								
	V 10x				0.220 (61)								
					0.008 (1)								
16	77-004 Smallmouth bass	137	137	0.168	0.068 (42)								
	V 10x				0.100 (95)								
17	87-001 Round goby	32	32	0.287	0.170 (20)								
	V 10x				0.105 (11)								
					0.012 (1)								
18	43-034 Sand shiner	5	5	0.016	0.010 (4)								
	V 10x				0.006 (1)								
19	77-003 Rock bass	10	10	0.683	0.670 (5)	0.004 (1)							
	V 10x				0.005 (1)								
					0.004 (2)								
20	40-005 Quillback carpsucker	1	1	0.005	0.005 (1)								
	V 10x												
21	10-004 Longnose gar	2	2	0.012	0.012 (2)								
	V2 10x												

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OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 3 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 7/2/20 Time 9:00

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 292mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP _____ Time Fished 4129 sec

Crew Telep Netter Hothem Others Matteson* Sampler Type E

Distance 0.2km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)	D	E	L	T	M	*
1	43-042 Fathead minnow	1	1	0.006	0.006	1							
	V 10x												
2	77-008 Green Sunfish	9	9	0.105	0.105	9							
	V 10x												
3	43-002 Goldfish	1	1	0.012	0.012	1							
	V 10x												
4	43-013 Creek Chub	4	4	0.010	0.010	4							
	V 10x												
5	43-025 Striped Shiner	25	25	0.110	0.085 0.025	8 17							
	V 10x												
6													
	V 10x												
7													
	V 10x												
8													
	V 10x												
9													
	10x												

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Weights Counts

Page ____ of ____

	Fins Code	Number Weighed	Total Counted	Total Weight				D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

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OhioEPA **FISH DATA SHEET**

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New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 1 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 10/12/20 Time 8:35

Stream Rocky River Location UST Hilliard Ave

Comments D.A. 292mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4957

Crew Matteson* Netter Soehnlen Others Teter Sampler Type E

Distance 0.2km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)
1	20-003 Gizzard shad	8	8	0.120	0.120	8			D E L T M *
2	80-002 Walleye	3	3	0.050	0.050	3			D E L T M *
3	47-008 Stonecat Madtom	44	44	1.477	0.550	12	0.025	1	D E L T M *
					0.890	30			
					0.012	1			
4	80-011 Longperch	33	33	0.590	0.550	31			D E L T M *
					0.040	2			
5	40-015 Hogsucker	3	3	0.770	0.770	3			D E L T M *
6	77-004 Smallmouth bass	21	21	0.850	0.850	21			D E L T M *
7	77-006 Largemouth bass	2	2	0.050	0.050	2			D E L T M *
8	77-003 Rock bass	55	55	0.765	0.750	52			D E L T M *
					0.015	3			
9	47-004 Yellow bullhead	22	22	0.180	0.180	22			D E L T M *

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	40-016 White sucker	30	30	0.705	0.705 (30)								
	V 10x												
11	43-034 Sand shiner	6	6	0.014	0.002 (1) 0.012 (5)								
	V 10x												
12	80-015 Greenside darter	47	47	0.195	0.195 (47)								
	V 10x												
13	43-020 Emerald shiner	46	46	0.170	0.170 (46)								
	V 10x												
14	43-044 Stoneroller	0.53	53	0.725	0.615 (47) 0.110 (6)								
	V 10x												
15	43-001 Common carp	1	1	0.025	0.025 (1)								
	V 10x												
16	43-013 Creek chub	3	3	0.031	0.031 (3)								
	V 10x												
17	43-043 Bluntnose	3	3	0.044	0.044 (3)								
	V 10x												
18	43-032 Spotfin shiner	33	33	0.105	0.105 (33)								
	V 10x												
19	80-022 Rainbow darter	6	6	0.020	0.020 (6)								
	V 10x												
20	87-001 Goby	55	55	0.280	0.280 (55)								
	V 10x												
21	80-003 Yellow perch	1	1	0.009	0.009 (1)								
	V 10x												

Ohio EPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 3 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 10/12/20 Time 8:35

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 2 km² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4:57

Crew Matteson* Netter Soehnlen Others Telep Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D	E	L	T	M	*
1	40-010 Golden redhorse	5	5	0.062	0.062	5								
2	43-025 Striped shiner	12	12	0.100	0.100	12								
3	77-013 Pumpkinseed	3	3	0.062	0.062	3								
4	77-016 P-seed x green	1	1	0.028	0.028	1								
5	77-009 Bluegill	19	19	0.245	0.245	19								
6	77-008 Green sunfish	14	14	0.190	0.190	14								
7														
8														
9														

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

Weights Counts

Page ____ of ____

	Fins Code	Number Weighed	Total Counted	Total Weight				D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

MM

Euclid Creek Upstream of St. Clair Avenue
June 29, 2020
River Mile: 1.65
Station ID: 504250
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	*Catostomus commersonii* Common white sucker	1	0.02	Highly Tolerant	0	---
43-011	*Rhinicthys atratulus* Blacknose dace	111	0.325	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	163	1.18	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	39	0.078	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	94	0.475	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	1	0.006	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	1	0.003	Moderately Tolerant	0	---
	Totals	410	2.087		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	24	(Poor)
Modified Index of Well-Being (MIwb) =	4.8	(Poor)
Shannon Diversity Index, no.	1.326	
Shannon Diversity Index, wt.	1.142	
N	142.5	
B	0.717	

Euclid Creek Upstream of St. Clair Avenue
August 17, 2020
River Mile: 1.65
Station ID: 504250
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
43-011	*Rhinicthys atratulus* Blacknose dace	278	0.385	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	163	0.454	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	14	0.055	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	387	0.865	--	0	---
	Totals	842	1.759		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	24	(Poor)
Modified Index of Well-Being (MIwb) =	5.6	(Poor)
Shannon Diversity Index, no.	1.109	
Shannon Diversity Index, wt.	1.139	
N	580.5	
B	1.298	

Euclid Creek Downstream of Lakeshore Boulevard
June 29, 2020
River Mile: 0.55
Station ID: F01A47
Collection Method: Roller Pram Electrofishing
Drainage Area: 23 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
40-016	*Catostomus commersonii* Common white sucker	178	0.27	Highly Tolerant	0	---
43-001	*Cyprinus carpio* Common carp	4	0.013	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	41	0.022	Highly Tolerant	0	---
43-034	*Notropis stramineus* Sand shiner	3	0.005	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	4	0.008	Common Intolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	16	0.085	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	12	0.048	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	22	1.418	Highly Tolerant	0	---
47-005	*Ictalurus nebulosus* Brown bullhead	5	1.025	Highly Tolerant	2	Lesion
77-003	*Ambloplites rupestris* Northern rockbass	5	0.065	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	7	0.02	Moderately Intolerant	0	---
77-008	*Lepomis cyanellus* Green sunfish	4	0.032	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	17	0.44	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus* Pumpkinseed sunfish	14	0.4	Moderately Tolerant	0	---
80-011	*Percina caprodes*	1	0.008	Moderately	0	---

Euclid Creek Downstream of Lakeshore Boulevard
June 29, 2020
River Mile: 0.55

	Northern logperch darter			Intolerant		
87-001	*Neogobius melanostomus* Round goby	27	0.29	--	0	---
	Totals	360	4.149		2	

*DELT anomalies were observed on	0.56	% of the fish collected.
Index of Biotic Integrity (IBI) =	26	(Poor)
Modified Index of Well-Being (MIwb) =	6.2	(Fair)
Shannon Diversity Index, no.	1.885	
Shannon Diversity Index, wt.	1.877	
N	94.5	
B	1.491	

Euclid Creek Downstream of Lakeshore Boulevard
August 17, 2020
River Mile: 0.55
Station ID: F01A47
Collection Method: Roller Pram Electrofishing
Drainage Area: 23 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
20-003	*Dorosoma cepedianum* Eastern gizzard shad	143	1.4	--	1	Deformity
40-016	*Catostomus commersonii* Common white sucker	26	1.345	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	19	0.038	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	1	0.004	Intolerant	0	---
43-034	*Notropis stramineus* Sand shiner	10	0.02	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	45	0.06	Common Intolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	3	0.008	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	26	1.15	Highly Tolerant	4	Lesion
47-005	*Ictalurus nebulosus* Brown bullhead	1	0.15	Highly Tolerant	1	Lesion
74-003	*Morone americana* White perch	1	0.004	--	0	---
77-003	*Ambloplites rupestris* Northern rockbass	8	0.25	--	1	Erosion
77-006	*Micropterus salmoides* Largemouth bass	15	0.24	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	1	0.009	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	53	0.75	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus*	87	1.627	Moderately	1	Lesion

Euclid Creek Downstream of Lakeshore Boulevard
August 17, 2020
River Mile: 0.55

	Pumpkinseed sunfish			Tolerant		
80-003	*Perca flavescens* Yellow perch	1	0.004	--	0	---
80-011	*Percina caprodes* Northern logperch darter	1	0.03	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	53	0.194	--	0	---
	Totals	494	7.283		8	

*DELT anomalies were observed on	1.62	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	8.3	(Good)
Shannon Diversity Index, no.	2.155	
Shannon Diversity Index, wt.	2.028	
N	550.5	
B	6.59	

Rocky River Upstream of Puritas Avenue
July 14, 2020
River Mile: 8.30
Station ID: 501810
Collection Method: Longline Electrofishing
Drainage Area: 282 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	*Carpiodes cyprinus* Central quillback carpsucker	12	0.05	--	0	---
43-001	*Cyprinus carpio* Common carp	2	0.01	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	6	0.04	Intolerant	0	---
43-026	*Notropis cornutus* Common shiner	40	0.049	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	71	0.384	--	0	---
43-034	*Notropis stramineus* Sand shiner	80	0.183	Moderately Intolerant	0	---
43-039	*Ericymba buccata* Silverjaw minnow	7	0.02	--	0	---
43-042	*Pimephales promelas* Northern fathead minnow	1	0.004	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	14	0.075	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	48	0.1	--	0	---
47-002	*Ictalurus punctatus* Channel catfish	1	0.039	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	17	0.092	Highly Tolerant	1	Lesion
47-008	*Noturus flavus* Stonecat Madtom	36	0.655	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	11	0.18	--	0	---
77-004	*Micropterus dolomieui*	42	0.317	Moderately	0	---

Rocky River Upstream of Puritas Avenue
July 14, 2020
River Mile: 8.30

	Smallmouth bass			Intolerant		
77-009	*Lepomis macrochirus* Northern bluegill sunfish	2	0.065	Moderately Tolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	2	0.005	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	53	0.281	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	5	0.011	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	68	0.55	--	0	---
	Totals	518	3.110		1	

*DELT anomalies were observed on	0.19	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	8.7	(Good)
Shannon Diversity Index, no.	2.49	
Shannon Diversity Index, wt.	2.392	
N	624	
B	3.569	

Rocky River Upstream of Puritas Avenue
September 21, 2020
River Mile: 8.30
Station ID: 501810
Collection Method: Longline Electrofishing
Drainage Area: 282 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	*Carpiodes cyprinus* Central quillback carpsucker	77	1.55	--	0	---
40-010	*Moxostoma erythrurum* Golden redhorse	1	0.015	Moderately Intolerant	0	---
40-011	*Moxostoma macrolepidotum* Shorthead redhorse	1	0.032	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	4	0.57	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	7	0.215	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	7	0.06	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	91	0.15	Intolerant	0	---
43-026	*Notropis cornutus* Common shiner	124	0.39	--	0	---
43-025	*Notropis chrysocephalus* Striped shiner	36	0.15	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	372	1.39	--	0	---
43-033	*Notropis dorsalis* Bigmouth Shiner	2	0.005	--	0	---
43-034	*Notropis stramineus* Sand shiner	207	0.392	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	4	0.008	Common Intolerant	0	---
43-039	*Ericymba buccata* Silverjaw minnow	3	0.02	--	0	---
43-043	*Pimephales notatus*	99	0.6	Highly	0	---

Rocky River Upstream of Puritas Avenue
September 21, 2020
River Mile: 8.30

	Bluntnose minnow			Tolerant		
43-044	*Campostoma anomalum* Central stoneroller minnow	131	1.07	--	0	---
47-008	*Noturus flavus* Stonecat Madtom	12	0.27	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	6	0.033	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	13	0.81	Moderately Intolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	2	0.004	Moderately Tolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	3	0.005	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	112	0.39	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	10	0.042	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	41	0.3	--	0	---
	Totals	1365	8.471		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	50	(Exceptional)
Modified Index of Well-Being (MIwb) =	9.8	(Exceptional)
Shannon Diversity Index, no.	2.313	
Shannon Diversity Index, wt.	2.501	
N	1817	
B	10.94	

Rocky River Upstream of Hilliard Boulevard
July 2, 2020
River Mile: 2.50
Station ID: T01W04
Collection Method: Longline Electrofishing
Drainage Area: 292 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
10-004	*Lepisosteus osseus* Longnose Gar	2	0.012	--	0	---
25-002	*Oncorhynchus mykiss* Rainbow trout	1	0.035	--	0	---
40-005	*Carpiodes cyprinus* Central quillback carpsucker	1	0.005	--	0	---
40-011	*Moxostoma macrolepidotum* Shorthead redhorse	2	0.378	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	8	0.49	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	20	0.354	Highly Tolerant	0	---
43-002	*Carassius auratus* Goldfish	1	0.012	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	4	0.01	Highly Tolerant	0	---
43-025	*Notropis chrysocephalus* Striped shiner	25	0.11	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	128	0.448	--	0	---
43-034	*Notropis stramineus* Sand shiner	5	0.016	Moderately Intolerant	0	---
43-042	*Pimephales promelas* Northern fathead minnow	1	0.006	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	29	0.128	--	0	---
47-002	*Ictalurus punctatus* Channel catfish	5	0.085	--	0	---
47-004	*Ictalurus natalis*	7	0.62	Highly	0	---

Rocky River Upstream of Hilliard Boulevard
July 2, 2020
River Mile: 2.50

	Yellow bullhead			Tolerant		
47-008	*Noturus flavus* Stonecat Madtom	19	0.395	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	10	0.683	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	137	0.168	Moderately Intolerant	0	---
77-008	*Lepomis cyanellus* Green sunfish	9	0.105	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	25	0.35	Moderately Tolerant	0	---
80-002	*Sander vitreus* Walleye	5	0.115	--	0	---
80-011	*Percina caprodes* Northern logperch darter	53	0.773	Moderately Intolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	1	0.003	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	30	0.124	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	1	0.002	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	32	0.287	--	0	---
	Totals	561	5.714		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	48	(Very Good)
Modified Index of Well-Being (MIwb) =	9.3	(Very Good)
Shannon Diversity Index, no.	2.411	
Shannon Diversity Index, wt.	2.701	
N	729	
B	6.428	

Rocky River Upstream of Hilliard Boulevard
October 12, 2020
River Mile: 2.50
Station ID: T01W04
Collection Method: Longline Electrofishing
Drainage Area: 292 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
20-003	*Dorosoma cepedianum* Eastern gizzard shad	8	0.12	--	0	---
40-010	*Moxostoma erythrurum* Golden redhorse	5	0.062	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	3	0.77	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	30	0.705	Highly Tolerant	0	---
43-001	*Cyprinus carpio* Common carp	1	0.025	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	3	0.031	Highly Tolerant	0	---
43-020	*Notropis atherinoides* Common Emerald shiner	46	0.17	--	0	---
43-025	*Notropis chrysocephalus* Striped shiner	12	0.1	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	33	0.105	--	0	---
43-034	*Notropis stramineus* Sand shiner	6	0.014	Moderately Intolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	3	0.044	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	53	0.725	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	22	0.18	Highly Tolerant	0	---
47-008	*Noturus flavus* Stonecat Madtom	44	1.477	Intolerant	0	---
77-003	*Ambloplites rupestris*	55	0.765	--	0	---

Rocky River Upstream of Hilliard Boulevard
October 12, 2020
River Mile: 2.50

	Northern rockbass					
77-004	*Micropterus dolomieui* Smallmouth bass	21	0.85	Moderately Intolerant	0	---
77-006	*Micropterus salmoides* Largemouth bass	2	0.05	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	14	0.19	Highly Tolerant	1	Erosion
77-009	*Lepomis macrochirus* Northern bluegill sunfish	19	0.245	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus* Pumpkinseed sunfish	3	0.062	Moderately Tolerant	0	---
77-016	*HYBRID* Green SF X Pumpkinseed	1	0.028	--	0	---
80-002	*Sander vitreus* Walleye	3	0.05	--	0	---
80-003	*Perca flavescens* Yellow perch	1	0.009	--	0	---
80-011	*Percina caprodes* Northern logperch darter	33	0.59	Moderately Intolerant	1	Deformity
80-015	*Etheostoma blenniodes* Greenside darter	47	0.195	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	6	0.02	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	55	0.28	--	0	---
	Totals	529	7.862		2	

*DELT anomalies were observed on	0.38	% of the fish collected.
Index of Biotic Integrity (IBI) =	46	(Very Good)
Modified Index of Well-Being (MIwb) =	9.8	(Exceptional)
Shannon Diversity Index, no.	2.819	
Shannon Diversity Index, wt.	2.658	
N	600	
B	9.569	

Appendix F: 2020 Water Chemistry Results

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	*CaCO3		185.43	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	*CaCO3		132	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	*CaCO3		166	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	*CaCO3		182	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	*CaCO3		180	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	*CaCO3		169	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	*CaCO3		183.09	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	*CaCO3		153	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	*CaCO3		163	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	*CaCO3		179	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	*CaCO3		172	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ag	<	0.015	ug/L	0.015	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ag	J	0.008	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ag	J	0.011	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ag	<	0.015	ug/L	0.015	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ag	<	0.008	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Al		55.5	ug/L	6.065	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Al		63.2	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Al		65.2	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Al		676	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Al		60.6	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Al		61.1	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Al		44.77	ug/L	6.065	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Al		58.7	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Al		143	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Al		40.7	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Al		32.4	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Alkalinity		132.2	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Alkalinity		107.3	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Alkalinity		124	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Alkalinity		128.6	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Alkalinity		128.7	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Alkalinity		124	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Alkalinity		128.8	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Alkalinity		106.7	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Alkalinity		120.4	mg/LCaCO3	6.4	EPA310.2

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Alkalinity		125.9	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Alkalinity		120	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	As	<	1.16	ug/L	1.157	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	As	J	1.38	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	As	J	2.39	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	As	J	1.31	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	As	<	1.16	ug/L	1.157	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	As	J	1.49	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ba		24.19	ug/L	0.099	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ba		26.2	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ba		24.8	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ba		29.5	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ba		22.9	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ba		24.8	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ba		21.92	ug/L	0.099	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ba		22.6	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ba		21.7	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ba		21.3	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ba		24.3	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Be	<	0.117	ug/L	0.117	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Be	<	0.059	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Be	J	0.098	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Be	<	0.117	ug/L	0.117	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Be	<	0.059	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	BOD		2.1	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	BOD		2.5	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	BOD		2	mg/L	2	SM5210 B

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	BOD		2.1	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	BOD		2	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ca		52100	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ca		51500	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ca		51720	ug/L	62.845	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ca		38600	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ca		46500	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ca		48800	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ca		51300	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ca		51570	ug/L	62.845	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ca		42300	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ca		46600	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ca		49200	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Cd	J	0.042	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cd	J	0.04	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cd	J	0.032	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cd	J	0.029	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cd	J	0.045	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cd	J	0.028	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cd	J	0.035	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cd	J	0.031	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cd	J	0.033	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Cd	J	0.041	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cd	<	0.026	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Chloride		141.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Chloride		149.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Chloride		127.3	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Chloride		121.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Chloride		121.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Chloride		148.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Chloride		128.2	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Chloride		145.3	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Chloride		123.4	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Chloride		114.7	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Chloride		147	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Co	J	0.356	ug/L	0.031	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Co	J	0.27	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Co	J	0.28	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Co	J	0.391	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Co	J	0.276	ug/L	0.0160	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Co	J	0.305	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Co	J	0.334	ug/L	0.031	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Co	J	0.315	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Co	J	0.295	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Co	J	0.3	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Co	J	0.302	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	COD	j	12	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	COD	j	18.2	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	COD	j	11.4	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	COD	j	11.5	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	COD	j	19.9	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	COD	j	11.5	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	COD		22.8	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	COD	j	10	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	COD		22.4	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cr	J	0.432	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cr	J	0.958	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cr	J	1.08	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cr		1.37	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cr	J	1.29	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cr	J	0.776	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cr	J	1.25	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cr	J	0.67	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cr	J	1.26	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Cu		2.273	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cu		2.2	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cu		2.1	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cu		5.83	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cu		3.14	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cu		2.88	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cu		2.108	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cu		2.65	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cu		3.21	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Cu		2.58	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cu		2.66	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	DRP	j	0.024	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	DRP		0.05	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	DRP	j	0.039	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	DRP		0.069	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	DRP		0.069	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	DRP	j	0.039	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	DRP	j	0.037	mg/L	0.014	EPA365.1

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	DRP		0.056	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	DRP		0.054	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	DRP		0.061	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	DRP		0.048	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	E. coli		923	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	E. coli		2585	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	E. coli		858	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	E. coli		1506	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	E. coli		1255	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	E. coli		864	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	E. coli		765	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	E. coli		2040	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	E. coli		1198	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	E. coli		440	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	E. coli		734	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Fe		389.3	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Fe		337	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Fe		351	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Fe		393	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Fe		890	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Fe		373	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Fe		331	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Fe		358	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Fe		329	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Fe		323	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Fe		439	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Conductivity		803	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Conductivity		761	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Conductivity		747	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Conductivity		787	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Conductivity		764	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Conductivity		705	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Conductivity		785	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Conductivity		733	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Conductivity		708	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Conductivity		764	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field DO		7.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field DO		9.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field DO		7.6	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field DO		5.4	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field DO		7.6	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field DO		81	%		

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field DO		110	%		
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field DO		87	%		
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field DO		64	%		
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field DO		86	%		
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field DO		8.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field DO		8.5	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field DO		8.2	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field DO		7.9	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field DO		8	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field DO		90	%		
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field DO		96	%		
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field DO		91	%		
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field DO		92	%		
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field DO		90	%		
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Specific Conductance		887	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Specific Conductance		863	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Specific Conductance		807	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Specific Conductance		768	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Specific Conductance		848	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Specific Conductance		827	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Specific Conductance		848	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Specific Conductance		792	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Specific Conductance		735	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Specific Conductance		835	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Water Temp		17.8	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Water Temp		21.3	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Water Temp		22.0	°C		EPA 170.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Water Temp		23.5	°C		EPA 170.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Water Temp		21.2	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Water Temp		17.5	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Water Temp		21.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Water Temp		21.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Water Temp		23.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Water Temp		20.5	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Hg	<	0.022	ug/L	0.022	EPA245.1

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	K		3390	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	K		3390	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	K		3319	ug/L	39.348	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	K		2620	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	K		3300	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	K		3570	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	K		3270	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	K		3299	ug/L	39.348	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	K		3080	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	K		3250	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	K		3510	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mg		12800	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mg		12600	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mg		13690	ug/L	13.347	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mg		11600	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mg		8600	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mg		12100	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mg		12400	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mg		13210	ug/L	13.347	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mg		11200	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mg		11900	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mg		11600	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mn		31.61	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mn		25.7	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mn		25.3	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mn		58.5	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mn		16.7	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mn		15.8	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mn		17.35	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mn		13.6	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mn		18.3	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mn		12.1	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mn		10.4	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mo		2.74	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mo		3.35	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mo		3.12	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mo		2.23	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mo		3.02	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mo		3.37	ug/L	0.196	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mo		2.649	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mo		2.87	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mo		2.38	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mo		2.66	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mo		3.3	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Na		90310	ug/L	32.462	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Na		74800	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Na		74800	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Na		105000	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Na		82200	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Na		87100	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Na		81060	ug/L	32.462	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Na		68900	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Na		95700	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Na		76900	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Na		86000	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NH3	j	0.025	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NH3	j	0.023	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ni		3.15	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ni		3.25	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ni		3.12	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ni		2.73	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ni		2.94	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ni		3.49	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ni		3.023	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ni		3.15	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ni		3.03	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ni		3.29	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ni		3.43	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO3		0.251	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO3		0.107	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO3		0.108	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO3		0.474	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO3		0.488	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO3		0.415	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO3		0.522	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO3		0.205	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO3		0.499	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO3		0.351	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO3		0.5	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO3+NO2		0.25	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO3+NO2		0.104	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO3+NO2		0.104	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO3+NO2		0.473	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO3+NO2		0.492	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO3+NO2		0.415	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO3+NO2		0.52	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO3+NO2		0.203	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO3+NO2		0.498	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO3+NO2		0.351	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO3+NO2		0.505	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Pb	J	0.308	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Pb	J	0.143	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Pb	J	0.119	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Pb		1.15	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Pb		0.856	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Pb	J	0.233	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Pb	J	0.204	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Pb	J	0.133	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Pb		0.972	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Pb	J	0.155	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Pb	J	0.119	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	pH		7.8	S.U.		
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	pH		8.1	S.U.		

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	pH		7.7	S.U.		
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	pH		7.6	S.U.		
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	pH		7.8	S.U.		
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	pH		7.8	S.U.		
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	pH		7.8	S.U.		
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Se	<	3.77	ug/L	3.768	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Se	<	3.77	ug/L	3.768	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sn	<	10.2	ug/L	10.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sn	<	10.2	ug/L	10.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	SO4		59.62	mg/L	0.886	EPA300.0

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	SO4		43.96	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	SO4		50.41	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	SO4		53.63	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	SO4		53.66	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	SO4		57.44	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	SO4		56.06	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	SO4		43.55	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	SO4		50.78	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	SO4		51.15	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	SO4		56.76	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Specific Conductance		837	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Specific Conductance		797	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Specific Conductance		756.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Specific Conductance		146.6	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Specific Conductance		834	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Specific Conductance		778	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Specific Conductance		783	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Specific Conductance		742.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Specific Conductance		716.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Specific Conductance		823.7	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sr		264	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sr		256	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sr		261.4	ug/L	0.269	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sr		229	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sr		238	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sr		263	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sr		245	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sr		247.1	ug/L	0.269	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sr		217	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sr		231	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sr		257	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TDS		462	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TDS		438	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TDS		414	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TDS		411	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TDS		410	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TDS		468	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TDS		418	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TDS		428	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TDS		408	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TDS		405	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TDS		462	mg/L	1	SM2540 C

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ti		3.27	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ti	J	3.79	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ti	J	3.38	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ti		24.8	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ti		4.1	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ti		4.11	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ti		3.213	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ti	J	3.67	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ti		7.97	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ti	J	3.54	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ti	J	3.98	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TKN	j	0.362	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TKN	j	0.444	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TKN	j	0.367	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TKN	j	0.287	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TKN	j	0.378	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TKN	j	0.295	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TKN	<	0.246	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TKN		0.566	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TKN	j	0.366	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TKN	j	0.376	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TKN	<	0.246	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TP		0.046	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TP		0.078	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TP		0.058	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TP		0.084	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TP		0.086	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TP		0.053	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TP		0.049	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TP		0.083	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TP		0.063	mg/L	0.016	EPA365.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TP		0.076	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TP		0.055	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TS		518	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TS		468	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TS		447	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TS		496	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TS		476	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TS		517	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TS		475	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TS		473	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TS		447	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TS		463	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TS		506	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TSS		3.5	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TSS		4.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TSS		2.7	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TSS		3.7	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TSS		2.4	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TSS		3	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TSS		1.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TSS		14.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TSS		2.1	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TSS		2.2	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TSS		2.3	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Turbidity		4.5	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Turbidity		2.4	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Turbidity		1.6	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Turbidity		1.5	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Turbidity		2.6	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Turbidity		1.8	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Turbidity		8.8	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	V	<	0.177	ug/L	0.177	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	V	J	1.72	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	V	J	0.289	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	V	<	0.177	ug/L	0.177	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	V	J	0.383	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Zn	J	3.33	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Zn	<	1.65	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Zn	J	3.513	ug/L	1.654	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Zn		6.1	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Zn		3.62	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Zn	J	2.93	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Zn	J	1.98	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Zn	J	3.229	ug/L	1.654	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Zn		4.05	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Zn	J	2.38	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Zn	J	2.14	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	*CaCO3		179	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	*CaCO3		139	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	*CaCO3		92.7	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	*CaCO3		195	MG/L		EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	*CaCO3		180	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	*CaCO3		193	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	*CaCO3		127	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	*CaCO3		81.0	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	*CaCO3		80.3	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	*CaCO3		203	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	*CaCO3		187	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ag	J	0.0290	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ag	J	0.0280	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ag	<	0.355	UG/L	0.355	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ag	<	0.355	ug/L	0.355	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ag	J	0.0230	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ag	J	0.0220	ug/L	0.00800	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ag	J	0.0260	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ag	<	0.355	UG/L	0.355	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ag	<	0.355	ug/L	0.355	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Al		138	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Al		1710	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Al		4190	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Al		124	UG/L	38.2	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Al		188	ug/L	38.2	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Al		112	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Al		2360	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Al		2950	ug/L	3.03	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Al		3330	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Al		101	UG/L	38.2	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Al		133	ug/L	38.2	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Alkalinity		112.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Alkalinity		89.8	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Alkalinity		54.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Alkalinity		129.8	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Alkalinity		108	mg/L	6.44	EPA-310.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Alkalinity	~	135	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Alkalinity		80.2	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Alkalinity		43.7	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Alkalinity		42.9	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Alkalinity		130.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Alkalinity		118	mg/L	6.44	EPA-310.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	As	J	1.22	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	As	J	2.55	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	As	J	4.87	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	As	<	1.34	UG/L	1.34	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	As	J	3.68	ug/L	1.34	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	As	J	1.20	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	As	J	3.08	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	As		3.14	ug/L	0.579	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	As	J	3.24	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	As	<	1.34	UG/L	1.34	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	As	<	1.34	ug/L	1.34	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ba		29.4	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ba		38.2	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ba		52.5	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ba		36.4	UG/L	0.31	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ba		29.9	ug/L	0.31	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ba		30.2	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ba		39.8	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ba		40.5	ug/L	0.0590	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ba		42.0	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ba		35.2	UG/L	0.31	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ba		29.7	ug/L	0.31	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Be	J	0.148	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Be	<	0.118	ug/L	0.118	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Be	<	0.29	UG/L	0.29	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Be	<	0.29	ug/L	0.29	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Be	J	0.155	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Be	<	0.059	ug/L	0.0590	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Be	<	0.29	UG/L	0.29	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Be	<	0.29	ug/L	0.29	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	BOD		2.3	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	BOD		3.9	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	BOD		5.4	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	BOD		2.4	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	BOD		4.8	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	BOD		5.4	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	BOD		4.1	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ca		46400	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ca		40100	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ca		26400	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ca		52400	UG/L	358	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ca		48800	ug/L	71.7	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ca		49900	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ca		34900	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ca		23100	ug/L	31.4	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ca		22800	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ca		54500	UG/L	358	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ca		50800	ug/L	358	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cd	J	0.0750	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Cd	J	0.184	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cd	J	0.183	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cd	<	0.265	UG/L	0.265	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cd	<	0.265	ug/L	0.265	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cd	J	0.0570	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cd	J	0.193	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cd	J	0.140	ug/L	0.0130	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cd	J	0.151	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cd	<	0.265	UG/L	0.265	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cd	<	0.265	ug/L	0.265	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Co	J	0.790	ug/L	0.0320	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Co		2.27	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Co		4.32	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Co	J	0.566	UG/L	0.315	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Co	J	0.588	ug/L	0.315	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Co	J	0.751	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Co		2.94	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Co		3.05	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Co		3.23	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Co	J	0.533	UG/L	0.315	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Co	J	0.392	ug/L	0.315	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	COD		31.2	mg/L	6.1	EPA410.4
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	COD	~	36.4	mg/L	6.1	EPA410.4
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	COD		21.6	mg/L	6.06	EPA 410.4
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	COD		25.8	mg/L	6.1	EPA410.4
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	COD	J	19.1	mg/L	6.06	EPA 410.4
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cr	<	5.33	ug/L	5.33	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cr	J	1.61	ug/L	0.364	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cr		6.63	ug/L	0.364	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cr	<	5.33	UG/L	5.33	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cr	<	5.33	ug/L	5.33	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cr		4.38	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cr	J	1.46	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cr		4.68	ug/L	0.182	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cr		5.04	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cr	<	5.33	UG/L	5.33	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cu		3.63	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Cu		8.43	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cu		11.9	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cu		3.66	UG/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cu		4.15	ug/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cu		3.44	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cu		9.65	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cu		8.83	ug/L	0.191	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cu		9.26	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cu		3.62	UG/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cu		3.49	ug/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	DRP	j	0.026	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	DRP		0.042	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	DRP		0.048	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	DRP	j	0.023	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	DRP		0.081	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	DRP		0.053	mg/L	0.014	EPA365.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	DRP		0.041	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	DRP		0.054	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	DRP		0.054	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	DRP		0.048	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	DRP		0.0428	mg/L	0.014	EPA 365.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	E. coli		1513	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	E. coli		4860	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	E. coli		11080	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	E. coli		135	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	E. coli		559	MPN/100ML	1	SM9223 Colilert
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	E. coli		152	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	E. coli		5980	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	E. coli		10400	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	E. coli		10420	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	E. coli		131	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	E. coli		285	MPN/100ML	1	SM9223 Colilert
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Fe		526	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Fe		3750	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Fe		8760	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Fe	J	428	UG/L	153	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Fe		545	ug/L	153	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Fe		512	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Fe		5110	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Fe		5760	ug/L	6.09	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Fe		6420	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Fe	J	425	UG/L	153	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Fe	J	465	ug/L	153	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Conductivity		759	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Conductivity		587	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Conductivity		327	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Conductivity		770	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Conductivity		634	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Conductivity		746	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Conductivity		530	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Conductivity		289	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Conductivity		773	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Conductivity		610	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field DO		7.2	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field DO		89	%		
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field DO		7.5	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field DO		91	%		
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field DO		8	mg/L		SM 4500-0 G

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field DO		90	%		
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field DO		6.6	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field DO		81	%		
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field DO		9.1	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field DO		104	%		
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field DO		11.8	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field DO		141	%		
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field DO		7.6	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field DO		91	%		
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field DO		8.2	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field DO		93	%		
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field DO		8.1	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field DO		97	%		
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field DO		9.8	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field DO		110	%		
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Specific Conductance		750	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Specific Conductance		590	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Specific Conductance		352	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Specific Conductance		762	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		674	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		676	umhos/cm		SM2510 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		674	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Specific Conductance		757	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Specific Conductance		537	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Specific Conductance		312	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Specific Conductance		787	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Specific Conductance		664	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Specific Conductance		667	umhos/cm		SM2510 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Water Temp		25.6	°C		EPA 170.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Water Temp		24.8	°C		EPA 170.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Water Temp		21.3	°C		EPA 170.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Water Temp		25.5	°C		EPA 170.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Water Temp		21.95	°C		EPA 170.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Water Temp		22	°C		EPA 170.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Water Temp		24.2	°C		EPA 170.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Water Temp		24.4	°C		EPA 170.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Water Temp		21.2	°C		EPA 170.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Water Temp		24.1	°C		EPA 170.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Water Temp		20.74	°C		EPA 170.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Hg	<	0.022	ug/L	0.022	EPA245.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Hg	<	0.022	ug/L	0.022	EPA 245.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Hg	<	0.022	ug/L	0.022	EPA 245.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	K		7310	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	K		5350	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	K		4220	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	K		7440	UG/L	563	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	K		8460	ug/L	563	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	K		8430	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	K		4420	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	K		4020	ug/L	19.7	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	K		4080	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	K		7860	UG/L	563	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	K		6590	ug/L	563	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mg		15300	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mg		9550	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mg		6510	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mg		15600	UG/L	82.7	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mg		14300	ug/L	82.7	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mg		16600	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mg		9560	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mg		5630	ug/L	6.67	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mg		5680	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mg		16200	UG/L	82.7	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mg		14700	ug/L	82.7	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mn		37.6	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mn		139	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mn		236	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mn		17.3	UG/L	0.425	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mn	~	24.2	ug/L	0.425	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mn		25.3	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mn		217	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mn		168	ug/L	0.294	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mn		172	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mn		39.2	UG/L	0.425	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mn		14.6	ug/L	0.425	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mo		6.27	ug/L	0.196	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mo		5.02	ug/L	0.196	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mo		2.85	ug/L	0.196	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mo		6.88	UG/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mo		5.51	ug/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mo		6.98	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mo		3.55	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mo		2.11	ug/L	0.0980	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mo		2.41	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mo		6.4	UG/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mo		4.68	ug/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Na		76700	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Na		49200	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Na		20400	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Na		80400	UG/L	160	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Na		63400	ug/L	160	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Na		73300	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Na		43700	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Na		18700	ug/L	16.2	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Na		18600	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Na		83200	UG/L	160	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Na		61800	ug/L	160	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NH3		0.079	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NH3		0.084	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NH3	J	0.0396	mg/L	0.022	EPA-350.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NH3		0.12	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NH3		0.091	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NH3		0.089	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NH3	J	0.0307	mg/L	0.022	EPA-350.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ni		5.35	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ni		8.57	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ni		12.8	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ni		3.57	UG/L	0.58	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ni		3.66	ug/L	0.58	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ni		5.54	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ni		9.81	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ni		9.00	ug/L	0.109	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ni		9.57	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ni		3.43	UG/L	0.58	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ni		2.87	ug/L	0.58	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO2		0.034	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO2		0.032	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO2		0.039	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO2	j	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO2		0.0239	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO2		0.029	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO2		0.036	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO2		0.044	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO2		0.044	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO2		0.025	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO2		0.0227	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO3		2.879	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO3		2.33	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO3		1.076	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO3		1.576	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO3		3.791	mg/L	0.069	EPA353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO3		2.073	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO3		1.743	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO3		0.988	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO3		1	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO3		2.022	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO3		2.327	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO3+NO2		2.913	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO3+NO2		2.362	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO3+NO2		1.115	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO3+NO2		1.586	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO3+NO2		3.79	mg/L	0.014	EPA 353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO3+NO2		2.102	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO3+NO2		1.778	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO3+NO2		1.036	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO3+NO2		1.044	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO3+NO2		2.047	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO3+NO2		2.33	mg/L	0.014	EPA 353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Pb	J	0.343	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Pb		4.62	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Pb		8.18	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Pb	J	0.368	UG/L	0.35	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Pb	J	0.563	ug/L	0.35	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Pb	J	0.279	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Pb		5.52	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Pb		5.50	ug/L	0.0310	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Pb		5.79	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Pb	J	0.371	UG/L	0.35	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Pb	J	0.391	ug/L	0.35	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	pH		8.1	S.U.		
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	pH		7.8	S.U.		
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	pH		7.7	S.U.		
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	pH		8.0	S.U.		
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	pH		8.1	S.U.		
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	pH		8.5	S.U.		
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	pH		7.7	S.U.		
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	pH		7.7	S.U.		
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	pH		8.0	S.U.		
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	pH		8.2	S.U.		
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sb	J	2.04	UG/L	0.275	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sb	J	1.03	ug/L	0.275	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sb	<	0.95	ug/L	0.950	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sb	J	1.97	UG/L	0.275	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sb	J	1.23	ug/L	0.275	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Se	<	7.1	UG/L	7.1	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Se	J	9.95	ug/L	7.1	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Se	<	1.88	ug/L	1.88	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Se	<	7.1	UG/L	7.1	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Se	<	7.1	ug/L	7.1	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sn	<	10	UG/L	10	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sn	<	10	ug/L	10	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sn	<	10	ug/L	10.0	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sn	<	5	ug/L	5.00	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sn	<	10	UG/L	10	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sn	<	10	ug/L	10	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Specific Conductance		718.6	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Specific Conductance		584	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Specific Conductance		351	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Specific Conductance		755	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Specific Conductance		676	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Specific Conductance		757.4	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Specific Conductance		529	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Specific Conductance		310	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Specific Conductance		291.5	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Specific Conductance		783	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Specific Conductance		667	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sr		289	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sr		241	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sr		168	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sr		316	UG/L	0.995	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sr		287	ug/L	0.199	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sr		321	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sr		226	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sr		141	ug/L	0.134	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sr		144	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sr		330	UG/L	0.995	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sr		309	ug/L	0.995	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TDS		414	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TDS		306	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TDS		180	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TDS		410	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TDS		368	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TDS		462	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TDS		268	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TDS		172	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TDS		166	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TDS		430	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TDS		372	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ti		4.74	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ti		19.3	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ti		27.0	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ti	J	2.13	UG/L	1.66	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ti	J	3.11	ug/L	1.66	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ti		4.80	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ti		21.2	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ti		21.0	ug/L	0.281	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ti		22.5	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ti	J	1.98	UG/L	1.66	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ti	J	2.46	ug/L	1.66	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TKN		0.738	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TKN		1.434	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TKN		1.952	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TKN		0.699	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TKN		0.969	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TKN		1.035	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TKN		1.566	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TKN		1.579	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TKN		1.198	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TKN		0.765	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TKN		0.859	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Tl	<	0.495	UG/L	0.495	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Tl	<	0.495	ug/L	0.495	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Tl	J	0.145	ug/L	0.132	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Tl	<	0.495	UG/L	0.495	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Tl	<	0.495	ug/L	0.495	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TP		0.069	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TP		0.191	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TP		0.371	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TP		0.054	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TP		0.12	mg/L	0.0156	EPA 365.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TP		0.109	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TP		0.264	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TP		0.308	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TP		0.292	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TP		0.084	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TP		0.0828	mg/L	0.0156	EPA 365.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TS		502	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TS		494	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TS		544	mg/L	1	SM2540 B

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TS		506	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TS		430	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TS		510	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TS		522	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TS		390	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TS		386	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TS		514	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TS		402	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TSS		9.1	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TSS		132	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TSS		300	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TSS		4.3	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TSS		7.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TSS		12.6	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TSS		167	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TSS		214.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TSS		222.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TSS		2.5	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TSS		5.6	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Turbidity		7.4	NTU		EPA180.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Turbidity		53	NTU		EPA180.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Turbidity		322	NTU		EPA180.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Turbidity		4.1	NTU		EPA180.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Turbidity		8.4	NTU		EPA180.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Turbidity		6.6	NTU		EPA180.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Turbidity		83.8	NTU		EPA180.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Turbidity		243	NTU		EPA180.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Turbidity		251	NTU		EPA180.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Turbidity		2.8	NTU		EPA180.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Turbidity		6.7	NTU		EPA180.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	V	<	0.178	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	V	J	3.46	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	V	J	5.18	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	V	<	17.9	UG/L	17.9	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	V	<	17.9	ug/L	17.9	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	V	<	0.178	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	V	J	3.82	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	V	J	3.88	ug/L	0.0890	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	V	J	4.67	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	V	<	17.9	UG/L	17.9	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	V	<	17.9	ug/L	17.9	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Zn		6.51	ug/L	1.65	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Zn		31.3	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Zn		47.3	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Zn	J	10	UG/L	5.74	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Zn	J	14.8	ug/L	5.74	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Zn		6.96	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Zn		36.9	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Zn		32.2	ug/L	0.827	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Zn		35.0	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Zn	J	20.5	UG/L	5.74	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Zn	J	9.89	ug/L	5.74	EPA-200.8

Appendix G: 2020 Surface Water Condition Sampling Field Sheets

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 06/16/2020 Collectors: H. Boesinger / E Sachilen

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES (NO)

Water Quality Meters Used: EXO1D

R-2006110003 Euclid Creek River Mile 0.55 (EM5) Sample Date: 6/16/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 8:53 River Mile (Site): RM 0.55

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Installed today

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 764 Sp. Cond. (µmhos/cm): 887

Dissolved Oxygen (mg/L): 7.7 D.O. (%): 81 %

Temperature (°C): 17.82 pH (s.u.): 7.8

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.1 Average (NTU): 2.0

General Comments: HD: 46 cm 0.4 FPS Backbland conditions

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

R-2006110C02 Euclid Creek River Mile 1.65 Sample Date: 6/16/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 9:30 River Mile (Site): 1.65

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Installed

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 785 Sp. Cond. (µmhos/cm): 827

Dissolved Oxygen (mg/L): 8.7 D.O. (%): 90

Temperature (°C): 17.50 pH (s.u.): 7.9

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 1.6 Average (NTU): 1.8

General Comments: HD: 12 cm, 0.82 FPS

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 6/30/20 Collectors: MM/DS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used: EXO "C"

R-2006230009 Euclid Creek River Mile 0.55 (EM5)

FB-2006240001 Field Blank Field Blank

Sample Date: 6/30/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

hrs): 8:55 River Mile (Site): 0.55

eather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

w: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

) Status: OK Other: Could not find

lor: (Clear) Muddy Tea Milky Other: _____

or: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

rface Coating: (None) Foam Oily Scum Other: _____

ld Parameters: Conductivity (µmhos/cm): 761 Sp. Cond. (µmhos/cm): 807

Dissolved Oxygen (mg/L): 7.6 D.O. (%): 87

Temperature (°C): 22.0 pH (s.u.): 7.7

Average (NTU): 2.4 (2.3 + 2.4)

Ge

AB00159 (1234601)
Euclid Creek Euclid Creek000.55
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

AB00153 (1234596)
Euclid Creek Euclid Creek000.55
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

0 Turb
2.1 + 0.2 = 0.2

Time (hrs): 9:15 River Mile (Site): 1.65

R-2006230008 Euclid Creek River Mile 1.65

Sample Date: 6/30/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Could not find

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 733 Sp. Cond. (µmhos/cm): 792

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 91

Temperature (°C): 21.10 pH (s.u.): 7.8

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.1 Average (NTU): 2.0

General Comments: _____

AB00154 (1234597)
Euclid Creek Euclid Creek001.65
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

Modified January 28, 2015

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 6/23/20 Collectors: HB / MM

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used:

R-2006160003
AB00084 (1234545)
Euclid Creek Euclid Creek000.55
Collection Date: 6/23/2020
None HNO3 H2SO4 Na2S2O3

(hrs): 12:00 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

ID Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 803 Sp. Cond. (µmhos/cm): 863

Dissolved Oxygen (mg/L): 9.7 D.O. (%): 110

Temperature (°C): 21.32 pH (s.u.): 8.1

Turbidity 1 (NTU): 4.2 Turbidity 2 (NTU): 4.8 Average (NTU): 4.5

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

R-2006160002
AB00085 (1234546)
Euclid Creek Euclid Creek001.65
Collection Date: 6/23/2020
None HNO3 H2SO4 Na2S2O3

Time (hrs): 11:45 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

ID Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 785 Sp. Cond. (µmhos/cm): 846

Dissolved Oxygen (mg/L): 8.5 D.O. (%): 96

Temperature (°C): 21.13 pH (s.u.): 7.9

Turbidity 1 (NTU): 8.9 Turbidity 2 (NTU): 8.6 Average (NTU): 8.8

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 7/14/20 Collectors: JT/HB

Gage Station and ID: EX01 C Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES (NO)

Water Quality Meters Used:

AB00337 (1234783)
R-2007090003
Euclid Creek River Mile 0.55 (EM5)
Sample Date: 7/14/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0820 River Mile (Site): _____

Weather: Clear, (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

low: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

ID Status: (OK) Other: slightly buried

'olor: (Clear) Muddy Tea Milky Other: _____

)dor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

urface Coating: (None) Foam Oily Scum Other: _____

ield Parameters: Conductivity (µmhos/cm): 787 Sp. Cond. (µmhos/cm): 848

Dissolved Oxygen (mg/L): 7.6 D.O. (%): 86

Temperature (°C): 21.22 pH (s.u.): 7.8

Turbidity 1 (NTU): 2.8 Turbidity 2 (NTU): 2.3 Average (NTU): 2.6

ieneral Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

AB00338 (1234784)
R-2007090002
Euclid Creek River Mile 1.65
Sample Date: 7/14/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0845 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: Good

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 764 Sp. Cond. (µmhos/cm): 835

Dissolved Oxygen (mg/L): 8.0 D.O. (%): 90

Temperature (°C): 20.52 pH (s.u.): 7.8

Turbidity 1 (NTU): 2.1 Turbidity 2 (NTU): 1.8 Average (NTU): 2.0

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used:

AB00339 (1234785) R-2007090004 Euclid Creek River Mile 7.45 Sample Date: 7/14/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

me (hrs): 0920 River Mile (Site): Euclid Crk RM 7.45

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1667 Sp. Cond. (µmhos/cm): 1848

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 80

Temperature (°C): 19.87 pH (s.u.): 7.6

Turbidity 1 (NTU): 1.3 Turbidity 2 (NTU): 1.2 Average (NTU): 1.3

General Comments:

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

AB00343 (1234789) R-2007090010 Un-named Trib to PC00272 Sample Date: 7/14/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0945 River Mile (Site): Unnamed Trib to Pepper-Lake Rm

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1274 Sp. Cond. (µmhos/cm): 1395

Dissolved Oxygen (mg/L): 10.3 D.O. (%): 111

Temperature (°C): 18.50 pH (s.u.): 8.1

Turbidity 1 (NTU): 3.0 Turbidity 2 (NTU): 2.9 Average (NTU): 3.0

General Comments:

R-2007060008 Euclid Creek River Mile 0.55 (EM5)
R-2007060001 Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date 7/7/2020 Collectors: Sachalen / Fitzgibbons

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: EXO1

ime (hrs): 9:03 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 747 Sp. Cond. (µmhos/cm): 768

Dissolved Oxygen (mg/L): 5.4 D.O. (%): 64

Temperature (°C): 23.5 pH (s.u.): 7.6

Turbidity 1 (NTU): 1.4 Turbidity 2 (NTU): 1.8 Average (NTU): 1.6

General Comments: Dup: 1.4 1.5 1.5

AB00316 (1234762) Euclid Creek Euclid Creek000.55
AB00311 (1234757) Collection Date: 7/7/2020
None HNO3 H2SO4 Na2S2O3

rting sig figs: (Cond and DO% - 1)(pH, DO mg/L, and Chlor BGA-PC - 0.1)(Temp: 0.01)

.e (hrs): 0924 River Mile (Site): EC 1.65

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 708 Sp. Cond. (µmhos/cm): 735

Dissolved Oxygen (mg/L): 7.9 D.O. (%): 92

Temperature (°C): 23.10 pH (s.u.): 7.9

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.0 Average (NTU): 2.0

General Comments: _____

AB00312 (1234758) Euclid Creek River Mile 1.65
R-2007060007 Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid/Trib to Pepper Lake Date: 7/7/20 Collectors: ES/KF

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used:

R-2007060009
AB00313 (1234759)
Euclid Creek Euclid Creek007.45
Collection Date: 7/7/2020
None HNO3 H2SO4 Na2S2O3

: (hrs): 1020 River Mile (Site): 7.45

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 2719 Sp. Cond. (µmhos/cm): 2826

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 84

Temperature (°C): 22.95 pH (s.u.): 7.7

Turbidity 1 (NTU): 1.7 Turbidity 2 (NTU): 1.2 Average (NTU): 1.5

Sa

General Comments:

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 1057 River Mile (Site): PC00272

AB00323 (1234764)
R-2007060015
Un-named Trib to PC00272
Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1619 Sp. Cond. (µmhos/cm): 1728

Dissolved Oxygen (mg/L): 20.7 D.O. (%): 235

Temperature (°C): 21.75 pH (s.u.): 8.6

Turbidity 1 (NTU): 4.7 Turbidity 2 (NTU): 4.4 Average (NTU): 4.6

General Comments: Lots of benthic and floating algae clumps contributing to high dissolved oxygen.

AB00371 (1234816)
Rocky River RRMB008.30
Collection Date: 7/21/20
ie HNO3 H2SO4 Na2S2O3

R-2007150004
Rocky River River Mile 8.30
Sample Date: 7/21/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

R-2007150002
Rocky River River Mile 11.85
Sample Date: 7/21/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

AB00381 (1234823)
Rocky River RRMB011.85
Collection Date: 7/21/20
None HNO3 H2SO4 Na2S2O3

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 7/21/20 Collectors: MM/ES

Gage Station and ID: _____ *Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo "0"

Time (hrs): 10:05 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 746 Sp. Cond. (µmhos/cm): 757

Dissolved Oxygen (mg/L): 11.8 D.O. (%): 141

Temperature (°C): 24.25 pH (s.u.): 8.5

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 10:45 River Mile (Site): 11.85

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 719 Sp. Cond. (µmhos/cm): 732

Dissolved Oxygen (mg/L): 9.1 D.O. (%): 109

Temperature (°C): 24.09 pH (s.u.): 8.2

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Modified April 3 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/21/20 Collectors: MM/ES

Gage Station and ID: _____ Daily Mean Discharge: _____ ft^3/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo "D"

Time (hrs): 8:50 River Mile (Site): 7.5

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 759 Sp. Cond. (µmhos/cm): 750

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 89

Temperature (°C): 25.62 pH (s.u.): 8.1

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

orting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

ne (hrs): 9:40 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 756 Sp. Cond. (µmhos/cm): 754

Dissolved Oxygen (mg/L): 7.0 D.O. (%): 85

Temperature (°C): 25.14 pH (s.u.): 8.0

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

None HNO3 H2SO4 Na2S2C

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River MB Date: 8/4/20 Collectors: E. Sechler / H. Baesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: EXO1 C

Time (hrs): 843 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Too muddy to check

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 327 Sp. Cond. (µmhos/cm): 352

Dissolved Oxygen (mg/L): 8.0 D.O. (%): 90

Temperature (°C): 21.30 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 32.6 (low dilution) Turbidity 2 (NTU): 31.8 Average (NTU): 322

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl/PBGA-PC - 0.1) (Temp-0.01)

Time (hrs): 0910 River Mile (Site): RR 4.8

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: too muddy

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 304 Sp. Cond. (µmhos/cm): 328

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 92

Temperature (°C): 21.14 pH (s.u.): 7.1

Sample ID: Turbidity 1 (NTU): 26.0 (low dilution) Turbidity 2 (NTU): 27.8 Average (NTU): 269

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 8/4/20 Collectors: E. Sachs / H. Bassinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used:

Time (hrs): 9:30 River Mile (Site): 8.30

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minima. Baseline/Normal (Elevated) Flood

HD Status: OK Other: Too H. It to check

Color: Clear (Muddy) Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 289 Sp. Cond. (µmhos/cm): 312

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 93

Temperature (°C): 21.8 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 10x dilution 26.0 Turbidity 2 (NTU): 24.1 Average (NTU): 251

General Comments: Dup 10x dilution 23.7, 24.9 = 243

Reporting sig figs: (Cond and DO% - 1); pH, DO mg/L, and Chl of BGS-PC - 0.1); (Temp- 0.01)

Time (hrs): 1000 River Mile (Site): RR 10.2

Weather: Clear Partly Cloudy (Overcast) Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minima. Baseline/Normal (Elevated) Flood

HD Status: OK Other: Too Muddy

Color: (Clear) (Muddy) Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 310 Sp. Cond. (µmhos/cm): 334

Dissolved Oxygen (mg/L): 8.3 D.O. (%): 94

Temperature (°C): 21.22 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 10x dilution 20.5 Turbidity 2 (NTU): 21.3 Average (NTU): 20.9 209

General Comments: _____

AB00683 (123514/) Rocky River RRMB0C Collection Date: 8/11/2020 None HNO3 H2SO4 Na2S2O3

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 8/11/20 Collectors: KF / KA

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: EXO 1C

Time (hrs): 0840 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 770 Sp. Cond. (µmhos/cm): 762

Dissolved Oxygen (mg/L): 6.6 D.O. (%): 81

Temperature (°C): 25.53 pH (s.u.): 8.0

Turbidity 1 (NTU): 4.1 Turbidity 2 (NTU): 4.1 Average (NTU): 4.1

General Comments: _____

R-2008070006 Rocky River River Mile 2.50 (EM Sample Date: 8/11/2020 None-A HNO3-B H2SO4-C Na2S2O3

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl) BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 0900 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Second HD Met

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 762 Sp. Cond. (µmhos/cm): 744

Dissolved Oxygen (mg/L): 7.4 D.O. (%): 91

Temperature (°C): 26.32 pH (s.u.): 8.5

Turbidity 1 (NTU): 3.9 Turbidity 2 (NTU): 3.8 Average (NTU): 3.9

General Comments: _____

AB00681 (123515) Rocky River River Mile 4.80 Sample Date: 8/11/2020 R-2008070005 None-A HNO3-B H2SO4-C Na2S2O3-E

Modified April 3, 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 8/11/20 Collectors: KF/KA

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

AB00682 (1235146)
R-2008070004
Rocky River River Mile 8.30
Sample Date: 8/11/2020
Vone-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0925 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Not found

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 773 Sp. Cond. (µmhos/cm): 787

Dissolved Oxygen (mg/L): 8.1 D.O. (%): 97

Temperature (°C): 27.06 pH (s.u.): 8.0

Sample ID: Turbidity 1 (NTU): 2.7 Turbidity 2 (NTU): 2.8 Average (NTU): 2.8

General Comments: _____

Reporting sig figs: (Cond and DO% - 1); (pH, DO mg/L, and Chl/ BGA-PC - 0.1); (Temp- 0.01)

AB00680 (1235144)
R-2008070003
Rocky River River Mile 10.20
Sample Date: 8/11/2020
Vone-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1010 River Mile (Site): 10.20

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Coated not locate

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 741 Sp. Cond. (µmhos/cm): 762

Dissolved Oxygen (mg/L): 10.6 D.O. (%): 125

Temperature (°C): 22.58 pH (s.u.): 8.3

Turbidity 1 (NTU): 2.2 Turbidity 2 (NTU): 5.0 Average (NTU): 2.1

General Comments: _____

AB00807 (1235263) R-2008170006 Rocky River River Mile 2.50 (EM11) Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

AB00810 (1235265) B-2008180001 Field Blank Field Blank Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

R-2008170005 Rocky River River Mile 4.80 Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

AB00812 Rocky River Collection Date: None HNO3 H

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 8/18/20 Collectors: JT/JS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used: EXO 1 G

me (hrs): 1145 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: _____

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 634 Sp. Cond. (µmhos/cm): 674

Dissolved Oxygen (mg/L): 9.1 D.O. (%): 104

Temperature (°C): 21.95 pH (s.u.): 8.1

Turbidity 1 (NTU): 8.2 Turbidity 2 (NTU): 8.5 Average (NTU): 8.4

General Comments: PC: 0.15 mg/L Chl: 4.02 mg/L
FB turbidity 0.3, 0.51 and 0.4

Supporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl by BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 1103 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 603 Sp. Cond. (µmhos/cm): 657

Dissolved Oxygen (mg/L): 8.6 D.O. (%): 96

Temperature (°C): 20.69 pH (s.u.): 7.9

Turbidity 1 (NTU): 7.4 Turbidity 2 (NTU): 6.9 Average (NTU): 7.2

General Comments: PC: 0.26 Chl: 6.04

Modified April 3, 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 8/18/20 Collectors: JT/JS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: _____

AB00808 R-2008170004 Rocky River River Mile 8.30
Rocky River Sample Date: 8/18/2020
Collection Date None-A HNO3-B H2SO4-C Na2S2O3-E
None HNO3 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1030 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 610 Sp. Cond. (µmhos/cm): 664

Dissolved Oxygen (mg/L): 9.8 D.O. (%): 110

Temperature (°C): 20.74 pH (s.u.): 8.2

Turbidity 1 (NTU): 7.0 Turbidity 2 (NTU): 6.3 Average (NTU): 6.7

General Comments: PC 0.28 mg/L Chl 6.46 ug/L

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl of BGA-PC - 0.1) (Temp- 0.01)

AB00803 (1235259) R-2008170003 Rocky River River Mile 10.20
Rocky R Sample Date: 8/18/2020
Collecti None-A HNO3-B H2SO4-C Na2S2O3-E
None HNO None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1004 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 628 Sp. Cond. (µmhos/cm): 688

Dissolved Oxygen (mg/L): 9.4 D.O. (%): 104

Temperature (°C): 20.39 pH (s.u.): 8.0

Turbidity 1 (NTU): 6.2 Turbidity 2 (NTU): 6.9 Average (NTU): 6.6

General Comments: PC 0.31 mg/L Chl 7.26 mg/L

Northeast Ohio Regional Sewer District

April 27, 2021

Ermelindo Gomes
Environmental Specialist III
Ohio Environmental Protection Agency
Division of Surface Water
2110 East Aurora Road
Twinsburg, Ohio 44087

*Re: NEORSD Combined Sewer Overflow NPDES Permit (3PA00002*HD)*
Combined Sewer Overflow & Stream Assessment Annual Report - 2020

Mr. Gomes:

In accordance with Part II, Section K of the Combined Sewer Overflow (CSO) National Pollutant Discharge Elimination System (NPDES) Permit 3PA00002*HD, please find enclosed the District's Combined Sewer Overflow & Stream Assessment Annual Report for 2020.

If you have any questions regarding this report, please contact Tomás Parry at parryt@neorsd.org or (216) 881-6600 X6427.

Sincerely,

Sarah B. Andersson

Sarah Andersson
Supervisor of Environmental Compliance

Enclosure: Combined Sewer Overflow & Stream Assessment Annual Report - 2020

cc: Frank Greenland, P.E., Director of Watershed Programs
Frank Foley, Director of Operation and Maintenance
Thomas Madej, P.E., Deputy Director of Operation and Maintenance
Kevin Zebrowski, Superintendent of Maintenance Services
Scott Broski, Superintendent of Environmental Services
John Rhoades, Manager of Water Quality & Industrial Surveillance
Robin Halperin, Manager of Regulatory Compliance
Tomás Parry, P.E., Environmental Specialist

Northeast Ohio Regional Sewer District

COMBINED SEWER OVERFLOW & STREAM ASSESSMENT ANNUAL REPORT

2020

NPDES PERMIT 3PA00002*HD

April 27, 2021

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APPENDICES

Appendix A: 2020 Observed Precipitation Statistics by District Precipitation Gauge
Appendix B: Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data
Appendix C: 2020 Qualitative Habitat Evaluation Index Sheets

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1.0 Introduction

Part II, Section K of the Combined Sewer Overflow (CSO) National Pollutant Discharge Elimination System (NPDES) Permit 3PA00002*HD requires that the Northeast Ohio Regional Sewer District (District) submit an annual report. The purpose of this report is to provide estimated CSO volumes and activations for all permitted CSO locations in the District's combined sewer system (CSS) during the previous calendar year (January 1, 2020 through December 31, 2020). A select group of permitted CSO outfalls were monitored during this period in accordance with Part I, B of Permit 3PA00002*HD. Model estimated CSO volumes and activations were used to supplement the annual reporting for permitted CSO outfalls not monitored in 2020. This report provides a summary of the CSO performance for the previous calendar year, changes to the Nine Minimum Control (NMC) program, and the data collected during stream assessment activities.

The Report is organized into three (3) major sections:

- CSO Activations & Volumes (**Section 2.0**)
- Nine Minimum Control Program Modifications (**Section 3.0**)
- Stream Assessment Results (**Section 4.0**)

2.0 CSO Activations and Volumes

This section presents the CSO activations and associated volumes, which includes monitored data as well as model-estimated volumes and activations for all permitted CSO locations in the District's CSS from January 1, 2020 through December 31, 2020. The modeled estimates were developed using the District's current baseline conditions models[1]. A summary of the modeling approach used to estimate the CSO statistics is provided as follows.

2.1 Precipitation Data

The District owns and maintains a network of 29 permanent precipitation gauges as shown in **Figure 1**. Including a gauge owned and maintained by the City of Lakewood, the 30 precipitation gauges that were used for the 2020 analysis are listed in **Table 1**. Precipitation data in 5-minute intervals from January 1, 2020 through December 31, 2020 was processed into 1-hour intervals for use in model estimate results for consistency purposes in comparing CSO performance with the District's standard synthetic Typical Year rainfall.

Table 1 lists the total recorded precipitation depths for each precipitation gauge. If a precipitation gauge had missing data, the data gaps were augmented with gauge-adjusted radar rainfall (GARR) data. Data gaps were augmented using 5-minute interval precipitation prior to processing to hourly precipitation. **Table 1** also presents the cumulative total precipitation and the GARR-augmented total precipitation depth per gauge.

Precipitation statistics for each precipitation gauge were developed using the Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox program developed by the United States Environmental Protection Agency (EPA). An inter-event duration of 12 hours was used to define individual precipitation events. Precipitation statistics for each event (total depth, duration, peak 1-hour intensity, and antecedent

[1] As improvements are made to the NEORSD combined sewer system, the models are continuously updated to reflect these changes. See Section 2.2 for details on the versions of the models used in the preparation of this report.

moisture conditions) for each gauge are provided in **Appendix A**. The precipitation event statistics were developed based on the 5-minute precipitation data.

Precipitation data was then spatially distributed using the Thiessen Polygon tool available in ESRI's ArcGIS. Respective precipitation gauge hyetographs were assigned to entire subcatchments if the centroid of the subcatchment delineation was located within a Thiessen polygon. A more detailed description of how the precipitation data was spatially distributed is provided as **Appendix B**.

An area-weighted precipitation time series was developed based on the acreage of combined sewer service area associated with each precipitation gauge's Thiessen polygon. The area-weighted time series was used to compute summary precipitation statistics for 2020 for comparison to the District's Typical Year rainfall and discussed further in Section 2.5.

The model-estimated overflow statistics for each CSO service area were generated using the built-in statistics report tool in the InfoWorks Integrated Catchment Modeling (ICM) software platform. The ICM statistics template was developed for each baseline conditions model with the "combine events where gap is less than" duration set equal to 12 hours to define overflow activations at each modeled overflow element. Overflow activations occurring within 12 hours of each other were counted as one single overflow activation.

Figure 1. NEORSD Precipitation Gauge Network

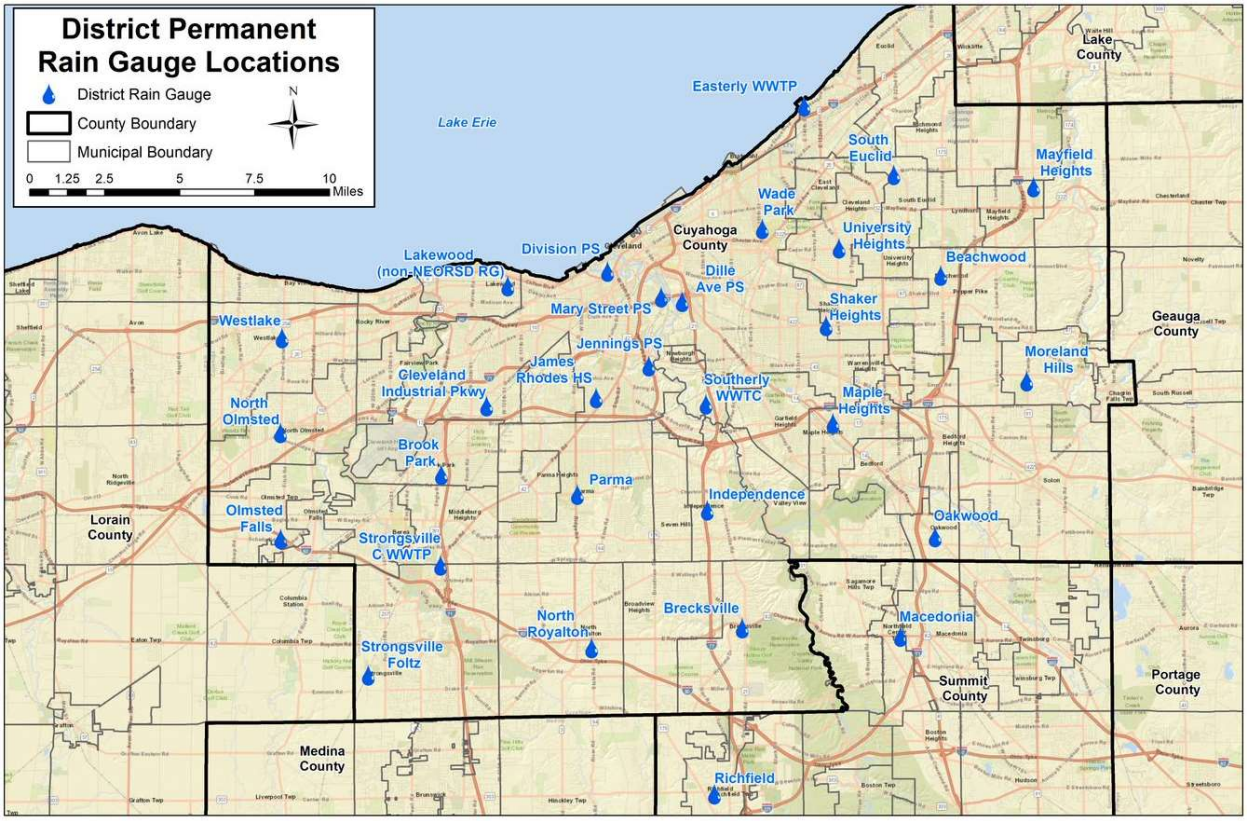


Table 1. Total Precipitation Observed from January 1, 2020 through December 31, 2020

Precipitation Gauge	Reported Precipitation Depth per Gauge (inches)	Supplemental GARR Data (inches)	Total Precipitation Depth (Gauge + Supplemental GARR Data, inches)
Beachwood	58.75		58.75
Brecksville	50.1	4.12	54.22
Brook Park	55.98	0.99	56.97
Cleveland Industrial Pkwy	56.42	0.47	56.89
Dille Ave PS	50.27	1.16	51.43
Division Ave PS	50.02	1.04	51.06
Easterly WWTP	39.94	6.08	46.02
Independence	55.8		55.8
James Rhodes HS	51.33	0.97	52.3
Jennings PS	58.48	1.25	59.73
Lakewood	40.48		40.48
Macedonia	54.03		54.03
Maple Heights	54.94		54.94
Mary Street PS	52.45		52.45
Mayfield Heights	55.76	0.63	56.39
Moreland Hills	58.81		58.81
North Olmsted	52.34	1.19	53.53
North Royalton	51.83	1.50	53.33
Oakwood	51	3.05	54.05
Olmsted Falls	52.91		52.91
Parma	54.65		54.65
Richfield	44.09	1.71	45.8
Shaker Heights	58.16		58.16
South Euclid	54.26	0.51	54.77
Southerly WWTC	53.1		53.1
Strongsville C WWTP	54.13	2.38	56.51
Strongsville Foltz	50.84	5.28	56.12
University Hts	51.34	2.12	53.46
Wade Park	51.79		51.79
Westlake	51.19		51.19

2.2 CSO Models

The District owns and actively maintains six (6) baseline condition models to reflect current conditions in the CSS (**Table 2**). Baseline conditions assumes modulating devices, such as control gates, inflatable dams, and pumps, are operating as designed or last field verified, and sewers are clean and free of debris unless known sedimentation issues have been documented and removal determined to be cost prohibitive. The models and simulation results presented here for 2020 were developed using Innovyze's InfoWorks ICM 11.0 (Version 11.0.2.22016 Unicode June 2020) modeling software platform using continuous simulation of hourly precipitation data. Continuous simulation of hourly precipitation data is consistent with the approach for Typical Year rainfall simulations. Continuous simulation takes antecedent soil moisture conditions into account when predicting overflows.

The Easterly and Westerly systems were noted to have completed improvement projects that updated system operations for certain periods throughout 2020. To reflect the changes, improvements were grouped accordingly to represent system performance at key milestones. **Table 2** presents the various baseline conditions model versions developed to represent the key milestones as new projects and system changes that became operational throughout 2020.

Projects completed prior to January 2020 occurred in the Easterly and Westerly Districts are listed below. These projects were included in the full 2020 precipitation and Typical Year simulations.

- Dugway Storage Tunnel
- Dugway Regulator and Relief Sewer
- E 140th St Consolidation and Relief Sewer[2]
- ECT-4/CSO 209 Connection
- Miscellaneous regulator modifications (D-36B, D-104, and S-10A)
- Westerly Low Level Relief Sewer
- E. 140th St Consolidation and Relief Sewer Green Infrastructure
- Union-Buckeye Green Infrastructure
- Woodland Central Green Infrastructure

Projects completed in late December 2020 occurred in the Easterly and Westerly Districts are listed below. These projects were only included in the Typical Year simulations.

- Doan Valley Relief and Consolidation Sewer
- Doan Valley Regulator and Relief Sewer (DV-08, DV-08A, DV-21A, DV-26, and DV-54)
- London Rd Relief Sewer
- Miscellaneous regulator modifications (L-34, RR-06A-ALR, and RR-16)
- W 3rd and Quigley of Westerly's Northwest Interceptor Improvements (W-14A, W-10, W-11)

[2] Portions of the E. 140th St Consolidation and Relief Sewer project were online and operational prior to January 2020. The remaining inputs to the relief sewer came online at various times during 2020 resulting in the system fully operational in August 2020. To minimize the number of model revisions and runs, the Typical Year and full 2020 precipitation were modeled with the E. 140th St Consolidation and Relief Sewer project fully operationally.

Table 2. District's Baseline Condition Models

Baseline Conditions Model	Model Simulation	
	2020 Precipitation	Typical Year
Big Creek	BCBL202007MM-20210111	Same as 2020 Precipitation
Easterly	ESBG202101MM-20210118	ESBG202101eDMR-20210118
Heights-Hilltop	HHBL202101MM	Same as 2020 Precipitation
Mill Creek[1]	MCCS201803MCI-01_GES4201911	Same as 2020 Precipitation
Southerly	SOBG202012MM-20201221	Same as 2020 Precipitation
Westerly	WEBL202007MM-20210111	WEBL202007eDMR-20210111

1 Mill Creek Collection System Model and simulation results were obtained from MCI-LSSES contract's draft project model currently undergoing recalibration based on monitoring data.

2.3 2020 CSO Volumes and Activations

In accordance with the District's CSO NPDES permit 3PA00002*HD, the District monitored the CSOs listed in **Table 3** in 2020.

Table 3. 2020 Monitored CSOs

Outfall Names				
CSO 025	CSO 045	CSO 072	CSO 206	CSO 258
CSO 035	CSO 056	CSO 080	CSO 211	
CSO 038	CSO 058	CSO 088	CSO 218	
CSO 040	CSO 059	CSO 200	CSO 239	
CSO 044	CSO 069	CSO 202	CSO 242	

Model-estimated CSO volumes and activations were quantified using the latest versions of the District's collection system models (**Table 2**) to supplement the monitoring data for all CSO outfalls contained in the NPDES permit. Total annual CSO volumes and activations for the January 1, 2020 through December 31, 2020 period are presented in **Table 4**. Total annual CSO performance at CSOs not monitored are based on model results following the approach described in Section 2.2 above for the full 2020 period. Total annual CSO performance at CSOs that were monitored for the entire or partial 2020 period are a composite of the model-estimates and monitoring results in which time periods were not overlapped.

Table 4. 2020 CSO Volumes and Activations

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 007	Mill Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 013	Mill Creek	0	0	N/A	N/A	0	0
CSO 014	Mill Creek	0	0	N/A	N/A	0	0
CSO 017	Mill Creek	6	11.1	N/A	N/A	6	11.1

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 019	Mill Creek	4	1.5	N/A	N/A	4	1.5
CSO 020	Mill Creek	2	0.7	N/A	N/A	2	0.7
CSO 021	Mill Creek	1	0.2	N/A	N/A	1	0.2
CSO 022	Mill Creek	8	1.6	N/A	N/A	8	1.6
CSO 025	Mill Creek	N/A	N/A	4	1.4	4	1.4
CSO 027	Mill Creek	0	0	N/A	N/A	0	0
CSO 028	Mill Creek	0	0	N/A	N/A	0	0
CSO 030	Mill Creek	0	0	N/A	N/A	0	0
CSO 031	Mill Creek	5	3.9	N/A	N/A	5	3.9
CSO 032	Mill Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 033	Southerly	15	13.8	N/A	N/A	15	13.8
CSO 035	Southerly	N/A	N/A	28	8.7	28	8.7
CSO 036	Southerly	47	506.3	N/A	N/A	47	506.3
CSO 037	Southerly	1	2.2	N/A	N/A	1	2.2
CSO 038	Southerly	N/A	N/A	0	0	0	0
CSO 039	Southerly	38	21.6	N/A	N/A	38	21.6
CSO 040	Southerly	N/A	N/A	56	218.2	56	218.2
CSO 043	Big Creek	1	0.5	N/A	N/A	1	0.5
CSO 044	Big Creek	N/A	N/A	14	1.8	14	1.8
CSO 045[5]	Big Creek	N/A	N/A	18	2.1	18	2.1
CSO 050	Big Creek	14	5.8	N/A	N/A	14	5.8
CSO 051	Big Creek	29	83.5	N/A	N/A	29	83.5
CSO 052	Big Creek	2	0.1	N/A	N/A	2	0.1
CSO 053	Big Creek	39	83.8	N/A	N/A	39	83.8
CSO 054	Big Creek	32	104.5	N/A	N/A	32	104.5
CSO 055	Big Creek	7	11.0	N/A	N/A	7	11.0
CSO 056	Big Creek	N/A	N/A	55	145.1	55	145.1
CSO 057	Big Creek	56	496.9	N/A	N/A	56	496.9
CSO 058	Big Creek	N/A	N/A	45	784.2	45	784.2
CSO 059	Big Creek	N/A	N/A	24	19.9	24	19.9
CSO 060	Big Creek	0	0	N/A	N/A	0	0
CSO 062[1]	Big Creek	AH	AH	N/A	N/A	AH	AH
CSO 063	Big Creek	6	4.7	N/A	N/A	6	4.7
CSO 064	Westerly	14	2.2	N/A	N/A	14	2.2
CSO 065	Westerly	39	13.8	N/A	N/A	39	13.8
CSO 066[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 067	Westerly	14	11.2	N/A	N/A	14	11.2
CSO 068	Westerly	25	23.2	N/A	N/A	25	23.2
CSO 069	Westerly	N/A	N/A	4	2.2	4	2.2
CSO 071	Westerly	1	3.2	N/A	N/A	1	3.2
CSO 072	Southerly	N/A	N/A	14	5.1	14	5.1

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 073	Easterly	28	171.8	N/A	N/A	28	171.8
CSO 074	Westerly	20	18.2	N/A	N/A	20	18.2
CSO 075	Westerly	10	4.5	N/A	N/A	10	4.5
CSO 076	Westerly	11	12.8	N/A	N/A	11	12.8
CSO 078	Westerly	2	0.6	N/A	N/A	2	0.6
CSO 079[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 080	Westerly	N/A	N/A	76	336.7	76	336.7
CSO 081	Westerly	3	1.3	N/A	N/A	3	1.3
CSO 082	Westerly	23	11.3	N/A	N/A	23	11.3
CSO 083[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 084	Westerly	0	0	N/A	N/A	0	0
CSO 085[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 086	Westerly	4	5.0	N/A	N/A	4	5.0
CSO 087	Westerly	38	23.5	N/A	N/A	38	23.5
CSO 088	Westerly	N/A	N/A	53	19.9	53	19.9
CSO 089	Westerly	14	0.9	N/A	N/A	14	0.9
CSO 090[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO SAPS[3]	Easterly	2	1.7	N/A	N/A	2	1.7
CSO SLPS[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 091	Easterly	0	0	N/A	N/A	0	0
CSO 092	Easterly	1	<0.1	N/A	N/A	1	<0.1
CSO 093	Easterly	2	1.1	N/A	N/A	2	1.1
CSO 094	Easterly	25	56.5	N/A	N/A	25	56.5
CSO 095	Easterly	16	25.3	N/A	N/A	16	25.3
CSO 096	Easterly	27	25.0	N/A	N/A	27	25.0
CSO 097	Easterly	40	16.5	N/A	N/A	40	16.5
CSO 098	Easterly	22	21.0	N/A	N/A	22	21.0
CSO 099	Easterly	2	4.5	N/A	N/A	2	4.5
CSO 200	Easterly	N/A	N/A	78	85.6	78	85.6
CSO 201	Easterly	63	66.3	N/A	N/A	63	66.3
CSO 202	Easterly	N/A	N/A	40	98.6	40	98.6
CSO 203	Easterly	15	45.2	N/A	N/A	15	45.2
CSO 204	Easterly	73	187.1	N/A	N/A	73	187.1
CSO 205	Easterly	48	64.9	N/A	N/A	48	64.9
CSO 206	Easterly	N/A	N/A	1	0.8	1	0.8
CSO 207	Easterly	0	0	N/A	N/A	0	0
CSO 208	Easterly	0	0	N/A	N/A	0	0
CSO 209	Easterly	0	0	N/A	N/A	0	0
CSO 210	Easterly	3	2.8	N/A	N/A	3	2.8
CSO 211	Easterly	N/A	N/A	13	59.5	13	59.5
CSO 212	Easterly	26	5.4	N/A	N/A	26	5.4

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 214	Easterly	28	19.8	N/A	N/A	28	19.8
CSO 215	Easterly	6	0.5	N/A	N/A	6	0.5
CSO 216	Easterly	2	0.2	N/A	N/A	2	0.2
CSO 217	Easterly	13	7.8	N/A	N/A	13	7.8
CSO 218	Easterly	N/A	N/A	19	3.3	19	3.3
CSO 219	Easterly	15	2.7	N/A	N/A	15	2.7
CSO 220	Easterly	14	30.9	N/A	N/A	14	30.9
CSO 221	Easterly	56	24.1	N/A	N/A	56	24.1
CSO 222	Easterly	53	351.7	N/A	N/A	53	351.7
CSO 223	Easterly	10	0.7	N/A	N/A	10	0.7
CSO 224	Easterly	19	31.3	N/A	N/A	19	31.3
CSO 225	Easterly	2	0.7	N/A	N/A	2	0.7
CSO 226	Easterly	6	1.4	N/A	N/A	6	1.4
CSO 230	Easterly	10	10.3	N/A	N/A	10	10.3
CSO 231	Easterly	2	12.1	N/A	N/A	2	12.1
CSO 232[6]	Easterly	79	69.7	N/A	N/A	79	69.7
CSO 233	Big Creek	66	46.9	N/A	N/A	66	46.9
CSO 234	Easterly	27	33.6	N/A	N/A	27	33.6
CSO 235[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 236[2]	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 238	Big Creek	11	9.9	N/A	N/A	11	9.9
CSO 239	Easterly	N/A	N/A	0	0	0	0
CSO 240	Westerly	9	1.3	N/A	N/A	9	1.3
CSO 241	Big Creek	3	8.5	N/A	N/A	3	8.5
CSO 242	Easterly	N/A	N/A	3	1.2	3	1.2
CSO 243	Mill Creek	5	0.3	N/A	N/A	5	0.3
CSO 245	Mill Creek	0	0	N/A	N/A	0	0
CSO 246	Mill Creek	0	0	N/A	N/A	0	0
CSO 247	Mill Creek	3	0.1	N/A	N/A	3	0.1
CSO 249[4]	Mill Creek	AH	AH	N/A	N/A	AH	AH
CSO 250	Southerly	0	0	N/A	N/A	0	0
CSO 252	Mill Creek	5	3.4	N/A	N/A	5	3.4
CSO 253[2]	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 254	Big Creek	0	0	N/A	N/A	0	0
CSO 255	Big Creek	17	18.9	N/A	N/A	17	18.9
CSO 256	Easterly	8	1.3	N/A	N/A	8	1.3
CSO 257	Big Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 258	Mill Creek	N/A	N/A	5	97.6	5	97.6
Total			**2,868.8**		**1,891.9**		**4,760.7**

1 Modeling and monitoring data were not available for CSO 062. Project to eliminate CSO 062 was under construction in 2020.

2 Associated regulators for this CSO were eliminated prior to 2020.
3 Upon completion of the Superior Avenue Pump Station Project in 2019 and review of CSO permit renewal, currently under review by EPA, this will likely be the new CSO 090 due to its proximity to the former CSO 090.
4 Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model. Model representation is underway through the MCI-LSESS contract currently in progress.
5 CSO 045 overflow performance was affected by BC-05-AJB outlet gate operation which was changed from modulating to static control by locking gate in the closed position on July 13, 2020.
6 The modeled number of activations and volumes are significantly overestimated at CSO 232 due to including stormwater discharges from green infrastructure basins, the phased activation of the E. 140 Street project, and flows from Shaw Brook. The model is unable to distinguish between the sources of the flows, however, the majority of these flows are stormwater from the green infrastructure basins.

In the 2020 eDMR report, CSO 062 was reported with the AH code since modeling data is not currently available for this outfall. The current baseline conditions model reflects abandonment of regulator BC-74 and, therefore, is not capable of providing model-estimated CSO volume or activation results. On March 4, 2021, BC-74 was eliminated and CSO 062 was converted to a stormwater only outfall. NEORSD has requested that CSO 062 be removed from the CSO NPDES Permit.

2.4 Typical Year Rainfall Data

Table 5 presents the 121 rainfall events that comprise the District's synthetic Typical Year for the period of January 1st through December 31st.

Table 5. Rainfall Events for Typical Year (January through December)

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
1	01/03/93	0.01	1	0.01	0.01
2	01/05/93	0.18	10	0.02	0.03
3	01/09/93	0.03	2	0.01	0.02
4	01/11/93	0.39	19	0.02	0.09
5	01/12/93	0.04	21	<0.01	0.01
6	01/15/93	0.33	8	0.04	0.08
7	01/16/93	0.17	10	0.02	0.03
8	01/20/93	0.53	30	0.02	0.05
9	01/26/93	0.03	10	<0.01	0.01
10	01/27/93	0.08	4	0.02	0.03
11	01/29/93	0.37	11	0.03	0.1
12	01/30/93	0.01	1	0.01	0.01
13	01/31/93	0.01	1	0.01	0.01
14	02/05/93	0.01	1	0.01	0.01
15	02/06/93	0.1	9	0.01	0.02
16	02/10/93	0.73	20	0.04	0.09
17	02/13/93	1.53	59	0.03	0.16

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
18	02/16/93	0.18	14	0.01	0.04
19	02/18/93	0.08	13	0.01	0.04
20	02/19/93	0.29	7	0.04	0.1
21	02/26/93	0.08	40	<0.01	0.01
22	02/28/93	0.04	4	0.01	0.02
23	03/02/93	0.06	14	<0.01	0.02
24	03/03/93	0.7	24	0.03	0.1
25	03/06/93	0.83	14	0.06	0.13
26	03/09/93	0.07	2	0.04	0.05
27	03/10/93	0.08	4	0.02	0.03
28	03/17/93	0.5	31	0.02	0.07
29	03/22/93	0.32	4	0.08	0.18
30	03/22/93	0.14	3	0.05	0.08
31	03/23/93	0.23	10	0.02	0.06
32	03/26/93	0.02	1	0.02	0.02
33	03/27/93	0.62	1	0.62	0.62
34	03/31/93	0.07	6	0.01	0.03
35	04/01/93	0.16	5	0.03	0.07
36	04/02/93	0.06	12	<0.01	0.02
37	04/09/93	0.77	16	0.05	0.09
38	04/11/93	0.09	1	0.09	0.09
39	04/14/93	0.03	2	0.02	0.02
40	04/15/93	0.34	3	0.11	0.16
41	04/19/93	0.27	13	0.02	0.11
42	04/20/93	0.61	18	0.03	0.13
43	04/24/93	0.03	2	0.02	0.02
44	04/25/93	0.46	15	0.03	0.16
45	04/30/93	0.1	6	0.02	0.03
46	05/04/93	0.63	25	0.03	0.22
47	05/19/93	0.15	6	0.03	0.07
48	05/23/93	0.01	1	0.01	0.01
49	05/24/93	0.08	6	0.01	0.04
50	05/28/93	0.03	2	0.02	0.02
51	05/31/93	0.16	2	0.08	0.08
52	06/03/93	0.07	2	0.04	0.04
53	06/05/93	0.37	6	0.06	0.25

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
54	06/07/93	1.56	9	0.17	0.67
55	06/09/93	0.21	1	0.21	0.21
56	06/09/93	0.24	1	0.24	0.24
57	06/19/93	0.31	2	0.16	0.22
58	06/20/93	0.54	26	0.02	0.15
59	06/25/93	0.08	1	0.08	0.08
60	06/27/93	0.94	1	0.94	0.94
61	07/01/93	0.05	4	0.01	0.02
62	07/03/93	0.01	1	0.01	0.01
63	07/04/93	0.44	1	0.44	0.44
64	07/06/93	0.47	1	0.47	0.47
65	07/11/93	0.35	3	0.12	0.24
66	07/19/93	0.14	2	0.07	0.13
67	07/26/93	0.04	2	0.02	0.02
68	07/28/93	1.08	9	0.12	0.72
69	07/29/93	0.67	3	0.22	0.31
70	08/02/93	0.42	2	0.21	0.41
71	08/03/93	0.42	10	0.04	0.2
72	08/06/93	0.1	4	0.03	0.06
73	08/07/93	0.13	1	0.13	0.13
74	08/10/93	0.02	2	0.01	0.01
75	08/11/93	0.24	4	0.06	0.23
76	08/12/93	0.02	1	0.02	0.02
77	08/16/93	0.07	1	0.07	0.07
78	08/20/93	0.01	1	0.01	0.01
79	08/28/93	0.06	1	0.06	0.06
80	08/31/93	0.03	6	0.01	0.02
81	09/02/93	1.02	21	0.05	0.67
82	09/06/93	0.35	1	0.35	0.35
83	09/07/93	0.01	1	0.01	0.01
84	09/10/93	0.01	1	0.01	0.01
85	09/10/93	0.01	1	0.01	0.01
86	09/15/93	2.38	16	0.15	0.4
87	09/22/93	0.12	16	0.01	0.05
88	09/25/93	1.63	20	0.08	0.29
89	09/27/93	0.15	9	0.02	0.06

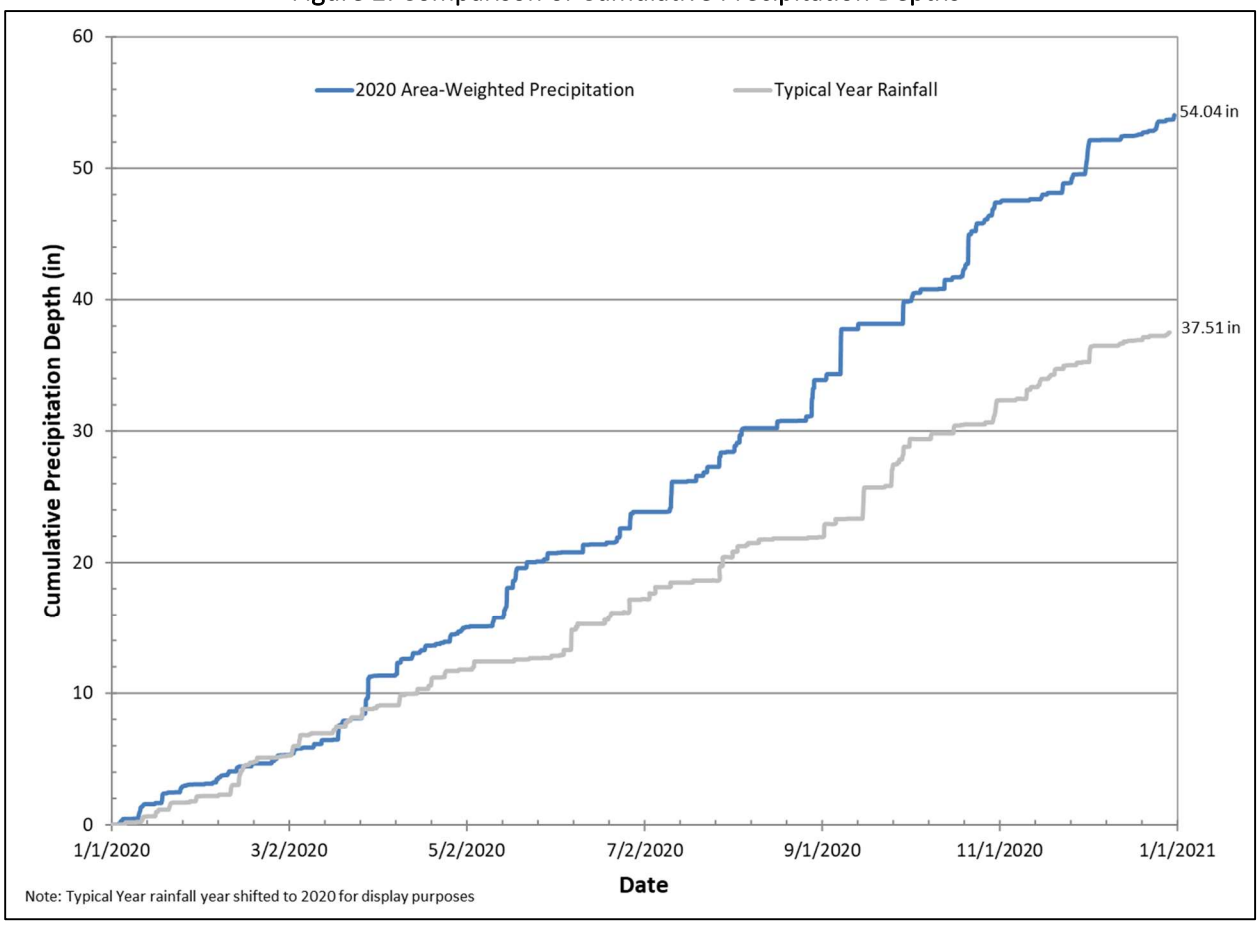
Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
90	09/28/93	0.23	3	0.08	0.12
91	09/29/93	0.97	17	0.06	0.24
92	10/01/93	0.01	1	0.01	0.01
93	10/01/93	0.58	6	0.1	0.22
94	10/09/93	0.43	13	0.03	0.13
95	10/16/93	0.6	16	0.04	0.18
96	10/19/93	0.04	1	0.04	0.04
97	10/20/93	0.04	6	0.01	0.02
98	10/27/93	0.15	4	0.04	0.1
99	10/30/93	1.67	39	0.04	0.12
100	11/01/93	0.01	1	0.01	0.01
101	11/07/93	0.12	12	0.01	0.02
102	11/11/93	0.69	7	0.1	0.14
103	11/12/93	0.21	12	0.02	0.06
104	11/15/93	0.62	31	0.02	0.1
105	11/18/93	0.3	21	0.01	0.1
106	11/20/93	0.46	19	0.02	0.14
107	11/23/93	0.24	3	0.08	0.12
108	11/24/93	0.03	8	0	0.01
109	11/25/93	0.01	1	0.01	0.01
110	11/28/93	0.19	8	0.02	0.05
111	11/30/93	0.04	1	0.04	0.04
112	12/02/93	1.19	17	0.07	0.29
113	12/03/93	0.06	11	0.01	0.02
114	12/12/93	0.16	17	0.01	0.06
115	12/14/93	0.15	6	0.03	0.12
116	12/15/93	0.07	16	0	0.01
117	12/18/93	0.02	2	0.01	0.01
118	12/18/93	0.03	16	0	0.01
119	12/20/93	0.22	8	0.03	0.07
120	12/23/93	0.1	6	0.02	0.03
121	12/28/93	0.26	35	0.01	0.03
	Total	**37.51**			

2.5 2020 Precipitation Data and Typical Year Rainfall Comparison

Area-weighted precipitation data was used to compare 2020 precipitation events (**Section 2.1**) with the District's synthetic Typical Year (**Section 2.4**). The weight for each precipitation gauge is based on the CSO service areas within the Thiessen Polygons. **Figure 2** compares the cumulative precipitation depth for 2020 with the Typical Year rainfall. Based on the area-weighted precipitation, 2020 cumulative precipitation was 54.04 inches, 16.5 inches greater than the Typical Year. Specific observations from the Typical Year and 2020 cumulative precipitation graph (**Figure 2**) show:

- Consistent cumulative precipitation depth from January to April.
- Higher cumulative precipitation depth from April through October.
- Consistent cumulative precipitation for the remainder of year.

Figure 2. Comparison of Cumulative Precipitation Depths



The 2020 area-weighted time series was processed using USEPA-SSOAP to separate the precipitation record into discrete events. A 12-hour inter-event dry weather duration was used to separate events. This analysis resulted in 96 discrete events ranging in total depth from 0.01 inch to 3.50 inches. **Figure 3** shows the total depths of both the 2020 precipitation events and the Typical Year events ranked from largest to smallest. Five events in 2020 had appreciably greater total precipitation depth than the largest Typical Year event. The subsequent 47 events, ranked 6 to 52, also had greater total precipitation than the comparably ranked Typical Year events. The remainder of events in 2020 had less total depth than the Typical Year, but not appreciable. The Typical Year had greater frequency of events with lower total precipitation.

The peak hourly intensities for the 2020 events and Typical Year events were also ranked, with the comparison shown in **Figure 4**. The largest 2020 peak hourly intensity (0.89 in/hr) was similar to the largest Typical Year peak hourly intensity (0.94 in/hr). Three events in 2020 had appreciable greater peak hourly intensities than the 2nd largest Typical Year event (0.72 in/hr). The subsequent 18 events, ranked 4 to 21, also had greater intensities than the comparably ranked Typical Year events. The remainder of events in 2020 had less total depth than the Typical Year.

Overall, the 2020 period exceeded the Typical Year for both precipitation depth and intensity resulting in system performance that exceeded anticipated control levels for LTCP CSO projects that are fully operational.

Figure 3. Precipitation Events Ranked by Total Depth

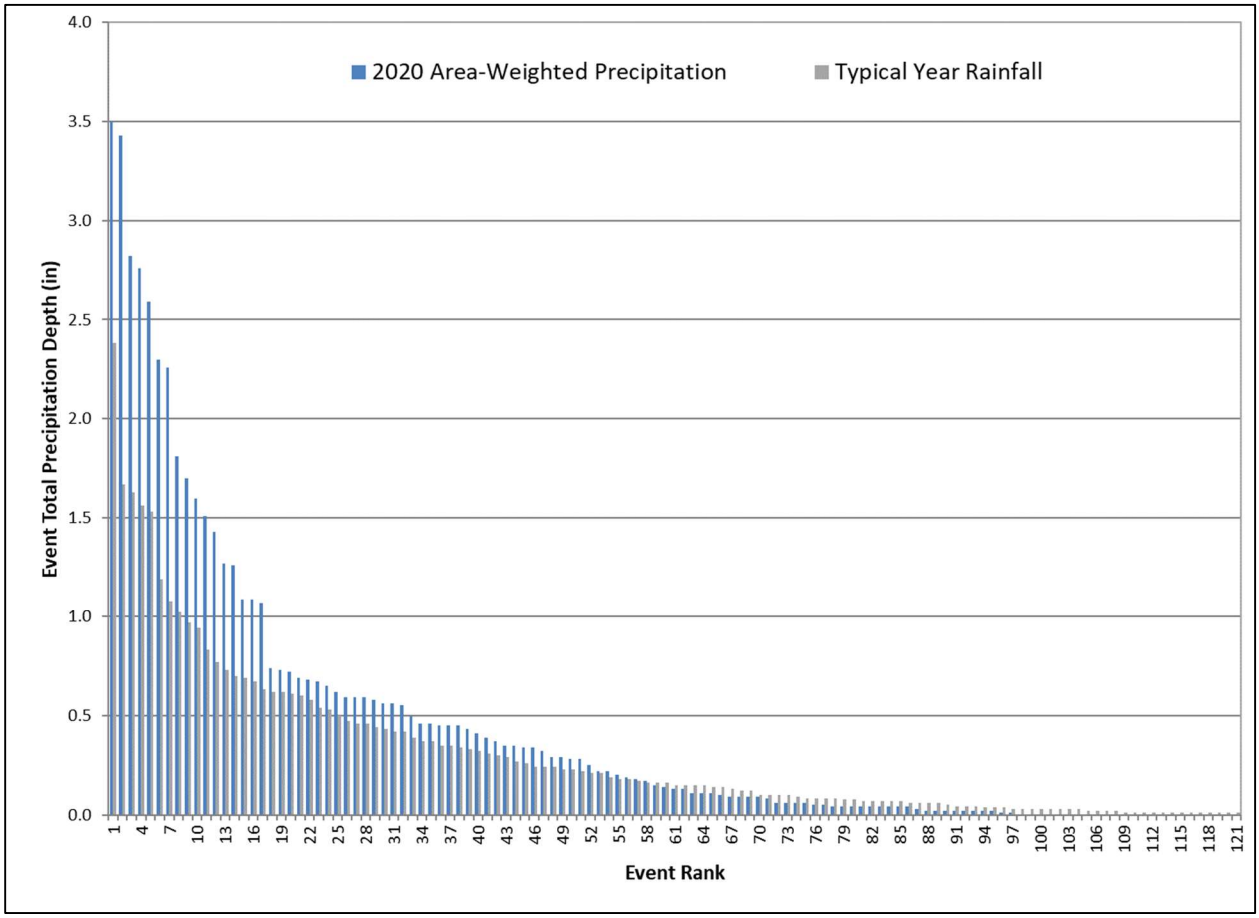
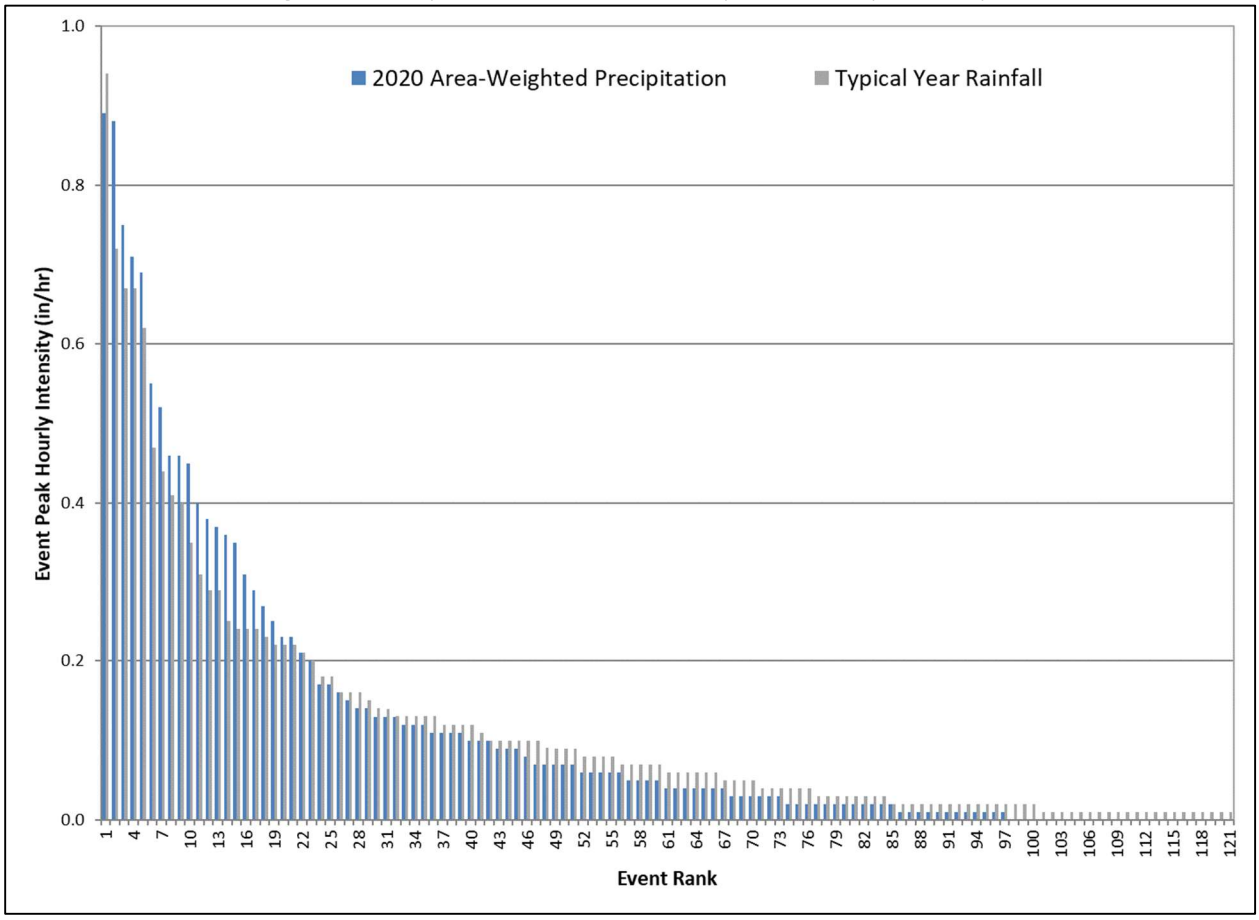


Figure 4. Precipitation Events Ranked by Peak Hourly Intensity



2.6 Typical Year CSO Volumes and Activations

Table 6 presents model estimated CSO volumes and activations baseline conditions for the District's synthetic Typical Year for all 121 events as of December 31, 2020. The District's synthetic Typical year is based on 1-hr precipitation intervals and is evaluated using a continuous simulation.

Table 6. Typical Year Model-Estimated CSO Activations and Volumes Based on December 31, 2020 Baseline Conditions

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 007	0	0	Mill Creek
CSO 013	0	0	Mill Creek
CSO 014	0	0	Mill Creek
CSO 017	2	0.2	Mill Creek
CSO 019	0	0	Mill Creek
CSO 020	0	0	Mill Creek
CSO 021	0	0	Mill Creek
CSO 022	1	<0.1	Mill Creek
CSO 025	2	0.8	Mill Creek

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 027	0	0	Mill Creek
CSO 028	0	0	Mill Creek
CSO 030	0	0	Mill Creek
CSO 031	0	0	Mill Creek
CSO 032	0	0	Mill Creek
CSO 033	9	1.6	Southerly
CSO 035	66	81.7	Southerly
CSO 036	39	225.8	Southerly
CSO 037	0	0	Southerly
CSO 038	0	0	Southerly
CSO 039	32	8.7	Southerly
CSO 040	61	313.7	Southerly
CSO 043	0	0	Big Creek
CSO 044	2	<0.1	Big Creek
CSO 045[5]	15	9.2	Big Creek
CSO 050	9	1.0	Big Creek
CSO 051	19	25.2	Big Creek
CSO 052	0	0	Big Creek
CSO 053	34	30.6	Big Creek
CSO 054	26	38.4	Big Creek
CSO 055	5	0.7	Big Creek
CSO 056	47	93.2	Big Creek
CSO 057	54	223.3	Big Creek
CSO 058	63	190.9	Big Creek
CSO 059	15	12.8	Big Creek
CSO 060	0	0	Big Creek
CSO 062[1]	N/A	N/A	Big Creek
CSO 063	1	0.2	Big Creek
CSO 064	6	0.3	Westerly
CSO 065	38	3.3	Westerly
CSO 066[2]	N/A	N/A	Westerly
CSO 067	6	1.1	Westerly
CSO 068	16	3.9	Westerly
CSO 069	0	0	Westerly
CSO 071	0	0	Westerly
CSO 072	1	0.2	Southerly
CSO 073	29	47.6	Easterly
CSO 074	13	4.4	Westerly
CSO 075	3	1.0	Westerly
CSO 076[7]	4	2.3	Westerly
CSO 078	0	0	Westerly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 079[2]	N/A	N/A	Westerly
CSO 080	52	305.6	Westerly
CSO 081	0	0	Westerly
CSO 082	15	3.2	Westerly
CSO 083[2]	N/A	N/A	Westerly
CSO 084	0	0	Westerly
CSO 085[2]	N/A	N/A	Westerly
CSO 086	1	0.1	Westerly
CSO 087	36	7.6	Westerly
CSO 088	59	22.7	Westerly
CSO 089	6	0.2	Westerly
CSO 090[2]	N/A	N/A	Easterly
CSO SAPS[3]	0	0	Easterly
CSO SLPS[2]	N/A	N/A	Easterly
CSO 091	0	0	Easterly
CSO 092	0	0	Easterly
CSO 093	1	<0.1	Easterly
CSO 094	19	18.0	Easterly
CSO 095	9	5.7	Easterly
CSO 096	21	9.3	Easterly
CSO 097	39	7.3	Easterly
CSO 098	14	6.4	Easterly
CSO 099	1	0.1	Easterly
CSO 200	70	127.7	Easterly
CSO 201	56	39.0	Easterly
CSO 202	20	38.3	Easterly
CSO 203	12	9.8	Easterly
CSO 204	67	73.8	Easterly
CSO 205	48	20.4	Easterly
CSO 206	0	0	Easterly
CSO 207	0	0	Easterly
CSO 208	0	0	Easterly
CSO 209	0	0	Easterly
CSO 210	0	0	Easterly
CSO 211	0	0	Easterly
CSO 212	0	0	Easterly
CSO 214	0	0	Easterly
CSO 215	0	0	Easterly
CSO 216	0	0	Easterly
CSO 217	1	<0.1	Easterly
CSO 218	0	0	Easterly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2020 Baseline Conditions Model[(1)]
CSO 219	12	0.6	Easterly
CSO 220	0	0	Easterly
CSO 221	44	8.7	Easterly
CSO 222	47	160.9	Easterly
CSO 223	1	<0.1	Easterly
CSO 224	28	21.2	Easterly
CSO 225	0	0	Easterly
CSO 226	1	<0.1	Easterly
CSO 230[8]	5	0.2	Easterly
CSO 231	1	<0.1	Easterly
CSO 232[6]	83	45.9	Easterly
CSO 233	62	22.6	Big Creek
CSO 234	1	<0.1	Easterly
CSO 235[2]	N/A	N/A	Easterly
CSO 236[2]	N/A	N/A	Easterly
CSO 238	4	0.3	Big Creek
CSO 239	0	0	Easterly
CSO 240	4	0.2	Westerly
CSO 241	0	0	Big Creek
CSO 242	0	0	Easterly
CSO 243	0	0	Mill Creek
CSO 245	0	0	Mill Creek
CSO 246	0	0	Mill Creek
CSO 247	0	0	Mill Creek
CSO 249[4]	0	0	Mill Creek
CSO 250	0	0	Southerly
CSO 252	0	0	Mill Creek
CSO 253[2]	N/A	N/A	Westerly
CSO 254	0	0	Big Creek
CSO 255	14	4.4	Big Creek
CSO 256	0	0	Easterly
CSO 257	0	0	Big Creek
CSO 258	1	9.3	Mill Creek
Total		**2,291.3**	

1 Modeling and monitoring data were not available for CSO 062. Project to eliminate CSO 062 was under construction in 2020.
2 Associated regulators for this CSO were eliminated prior to 2020.
3 Upon completion of the Superior Avenue Pump Station Project in 2019 and review of CSO permit renewal, currently under review by EPA, this will likely be the new CSO 090 due to its proximity to the former CSO 090.
4 Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model. Model representation is underway through the MCI-LSESS contract currently in progress.
5 CSO 045 overflow performance was affected by BC-05-AJB outlet gate operation which was changed from modulating to static control by locking gate in the closed position on July 13, 2020.

6 The modeled number of activations and volumes are significantly overestimated at CSO 232 due to including stormwater discharges from green infrastructure basins, the phased activation of the E. 140 Street project, and flows from Shaw Brook. The model is unable to distinguish between the sources of the flows, however, the majority of these flows are stormwater from the green infrastructure basins.
7 CSO level of control of fully controlling the Typical Year is not met at CSO 076 at this time. Meeting the targeted CSO performance criteria is reliant on the completion of upstream CM-14 WST-3 project work which will regulate the amount of flow routed between the Westerly Low-Level Interceptor, WST, or overflow at CSO 080.
8 Corrections to the model representation were identified with respect to regulator D-45 associated with CSO 230. Model updates were not completed in time for incorporation with the 2020 eDMR reporting effort. Corrected model representation will be resolved prior to 2021 eDMR reporting.

2.7 Evaluation of CSO Volumes and Activations

The NPDES Permit 3PA00002*HD, Part II, Item K.3, requires the District to provide "an evaluation of whether the CSO activation volume and frequency for the previous year is in accordance with the estimates in the Facilities Plan(s) and/or Consent Decree, given the precipitation which occurred during the year, and the CSO abatement activities which have been implemented." For purposes of the evaluation of whether the CSO activation volume and frequency for 2020 was in accordance with the Facilities Plan and/or Consent Decree, this exercise was performed for controlled CSOs. **Table 7** summarizes the fully operational LTCP projects and Control Measures as of December 31, 2020, the applicable controlled CSOs, the required Typical Year level of control for each CSO, and an analysis of Typical Year Performance on the system as of December 31, 2020 and the performance for 2020 precipitation. Overall, the 2020 precipitation exceeded Typical Year for both precipitation depth and intensity resulting in system performance exceeding anticipated control levels for several controlled CSOs.

Table 7. CSO Status & Performance Summary

CSOs	Control Measure	Consent Decree AFO Date	December 31, 2020 Status	Status Details	Typical Year Performance Criteria	2020 Performance Analysis
Easterly CSOs						
CSO 206 CSO 208 CSO 209 CSO 210 CSO 211 CSO 212 CSO 214 CSO 230 CSO 231 CSO 232 CSO 239 CSO 242	CM-6	12/31/2020	Fully Operational	This control measure was operational in December 2020. Post-construction monitoring is ongoing to support demonstration of compliance.	≤ 2	Performance as expected. Note: CSOs 212 and 214 achieved full operation (AFO) Dec 2020. The 2020 precipitation model evaluation did not include the AFO status for CSOs 212 and 214. CSO 232: See footnote 6 in Table 4.
CSO 090 CSO SAPS	CM-9	12/31/2018	Fully Operational	Operational prior to 2020.	0, converted to SWO (CSO 090) ≤ 2 (CSO SAPS)	Performance as expected.
CSO 235 CSO SLPS	CM-10	12/31/2017	Fully Operational	Operational prior to 2020.	0, converted to SWO	Performance as expected.
CSO 090 CSO 235	CM-11	12/31/2018	Fully Operational	Operational prior to 2020.	0, converted to SWO	Performance as expected.
CSO 091 CSO 092 CSO 099 CSO 207 CSO 215 CSO 216 CSO 225 CSO 236 CSO 256	Easterly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤2 (CSO 207, 236) ≤3 (CSO 091, 099, 215, 216) ≤ 4 (CSOs 092, 225, 256)	Performance as expected.
Southerly CSOs						
CSO 063	CM-24	12/31/2014	Fully Operational	Operational prior to 2020.	≤ 1	Performance as expected.
CSO 007 CSO 013 CSO 014 CSO 017 CSO 019 CSO 020 CSO 021 CSO 022 CSO 025 CSO 027 CSO 028 CSO 030 CSO 031 CSO 032 CSO 243 CSO 245 CSO 246 CSO 247 CSO 249 CSO 258	Mill Creek LTCP	N/A	Fully Operational	Operational prior to 2020.	≤ 5 ≤4 (CSOs 245, 249)	Performance as expected.
CSO 037 CSO 038 CSO 052 CSO 060 CSO 062 CSO 241 CSO 250 CSO 252 CSO 254 CSO 255 CSO 257	Southerly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤3 (CSO 062, 255) ≤ 4 (CSOs 037, 038, 052, 060, 241, 250, 252, 254, 257)	Performance as expected.
Westerly CSOs						
CSO 078	CM-15	12/31/2019	Fully Operational	Operational prior to 2020.	0	Performance as expected.
CSO 076	CM-16	12/31/2024	Fully Operational	Operational prior to 2020.	0	Performance as expected.
CSO 086	CM-18	12/31/2017	Fully Operational	Operational prior to 2020.	≤ 4	Performance as expected.
CSO 064 CSO 065 CSO 066 CSO 067 CSO 068 CSO 069 CSO 071 CSO 079	Westerly LTCP	N/A	Fully Operational	Operational prior to 2020.	≤ 4	Performance as expected. Note: Current model representation of CSOs 064, 065, 067 and 068 are based upon recent recalibration updates through the District's local sanitary

CSOs	Control Measure	Consent Decree AFO Date	December 31, 2020 Status	Status Details	Typical Year Performance Criteria	2020 Performance Analysis
CSO 081 CSO 083 CSO 085 CSO 253	Westerly LTCP	N/A	Fully Operational	Operational prior to 2020	≤ 4	sewer evaluation studies. CSO performance improvements are in progress

3.0 Nine Minimum Control Program Modifications

The District administers its Nine Minimum Controls Program through its CSO Operational Plan, which was updated and submitted to Ohio EPA in March 2016 as required in NPDES permit 3PA00002*HD. In 2020, the District continued to remotely monitor its automatic regulators in the combined sewer system and modified regulators to continue efforts to maximize CSO capture and conveyance to treatment. The District continues to try to reduce the frequency and magnitude of wet weather overflows as well as prevent dry weather overflows by implementing the requirements of its CSO Operational Plan.

4.0 Stream Assessment Results

Part II., Section J. of NPDES Permit 3PA00002*HD requires the District to conduct biological, chemical and habitat assessments on each of the following receiving streams at least once during the 5-year permit cycle:

- Big Creek
- Cuyahoga River
- Doan Brook
- Euclid Creek
- Mill Creek
- Rocky River
- West Creek

In 2020, the District conducted biological, chemical, and habitat assessments on the **Rocky River and Euclid Creek**. The results of the biological and habitat assessments are provided in **Table 8**. The field data sheets that support the biological and habitat results are provided in **Appendix C (Qualitative Habitat Evaluation Index (QHEI) field sheets)**, **D (Macroinvertebrate field sheets and results)** and **E (Fish data sheets)**. The surface water quality chemistry results and surface water sampling field data sheets are located in **Appendix F** and **G**, respectively.

Table 8. 2020 Biological and Habitat Results

		IBI		MIwb		ICI		QHEI	
Stream	**Site**	**Score(s)**	**Narrative Rating**	**Score(s)**	**Narrative Rating**	**Score**	**Narrative Rating**	**Score**	**Narrative Rating**
Euclid Creek	1.65	24, 24	Poor, Poor	4.8, 5.6	Poor, Poor	32	Marginally Good	76.75	Excellent
Euclid Creek	0.55	26, 32	Poor, Fair	6.2, 8.3	Fair, Good	---	Low Fair*	57.50	Fair
Rocky River	8.30	42, 50	Good, Exceptional	8.7, 9.8	Good, Exceptional	44	Very Good	70.00	Good
Rocky River	2.50	48, 46	Exceptional, Very Good	9.3, 9.8	Very Good, Exceptional	48	Exceptional	79.00	Excellent
*Based on qualitative sample and best professional judgment									

Appendix A: 2020 Observed Precipitation Statistics by District Precipitation Gauge

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:55	0.5	43.33	0.06	2.3
2	1/8/2020 2:25	0.04	5.08	0.03	3
3	1/10/2020 0:25	1.32	53.25	0.13	1.7
4	1/15/2020 18:15	0.09	4	0.05	3.5
5	1/18/2020 2:00	0.78	25.25	0.19	2.2
6	1/19/2020 23:05	0.08	12.42	0.02	0.8
7	1/24/2020 9:25	0.58	39.58	0.12	3.9
8	1/26/2020 17:10	0.11	20.33	0.03	0.7
9	1/28/2020 20:15	0.02	0.58	0.02	1.3
10	1/31/2020 12:30	0.01	0.08	0.01	2.7
11	2/1/2020 19:00	0.07	11.08	0.03	1.3
12	2/4/2020 15:05	0.08	4.67	0.04	2.4
13	2/5/2020 20:00	0.6	44.08	0.13	1
14	2/8/2020 15:45	0.02	1.17	0.01	1
15	2/9/2020 17:50	0.34	15.17	0.09	1
16	2/12/2020 20:00	0.37	23.33	0.08	2.5
17	2/17/2020 23:40	0.27	7.08	0.07	4.2
18	2/24/2020 21:00	0.15	4	0.06	6.6
19	2/25/2020 19:05	0.14	5.58	0.06	0.8
20	2/26/2020 13:45	0.31	13	0.05	0.5
21	2/27/2020 16:50	0.01	0.08	0.01	0.6
22	2/29/2020 0:45	0.01	0.08	0.01	1.3
23	3/2/2020 10:05	0.57	32.75	0.16	2.4
24	3/4/2020 12:05	0.07	1.83	0.04	0.7
25	3/6/2020 8:55	0.07	8.5	0.03	1.8
26	3/10/2020 1:35	0.35	10.25	0.16	3.3
27	3/12/2020 23:30	0.33	6.42	0.23	2.5
28	3/16/2020 18:20	0.06	12.92	0.04	3.5
29	3/18/2020 15:35	1.12	13.08	0.32	1.3
30	3/19/2020 17:50	0.26	17.17	0.11	0.5
31	3/22/2020 20:50	0.18	14.42	0.07	2.4
32	3/26/2020 17:55	0.34	7.33	0.07	3.3
33	3/27/2020 23:10	3.26	37.25	1.48	0.9
34	3/30/2020 3:05	0.07	15.17	0.04	0.6
35	4/1/2020 7:15	0.01	0.08	0.01	1.5
36	4/7/2020 9:00	0.84	16.08	0.55	6.1
37	4/9/2020 0:10	0.35	14.08	0.12	1

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/12/2020 5:45	0.02	0.25	0.02	2.6
39	4/12/2020 21:20	0.59	13.92	0.21	0.6
40	4/14/2020 23:55	0.01	0.08	0.01	1.5
41	4/15/2020 15:05	0.24	13.58	0.08	0.6
42	4/17/2020 10:10	0.33	7.92	0.07	1.2
43	4/19/2020 21:05	0.01	0.08	0.01	2.1
44	4/21/2020 2:20	0.11	1.42	0.07	1.2
45	4/22/2020 17:10	0.08	7.58	0.03	1.6
46	4/23/2020 21:50	0.1	4.67	0.05	0.9
47	4/26/2020 0:30	0.66	15.83	0.11	1.9
48	4/27/2020 22:35	0.1	6.58	0.04	1.3
49	4/28/2020 19:15	0.17	3.33	0.1	0.6
50	4/29/2020 18:25	0.33	18.83	0.11	0.8
51	5/1/2020 6:15	0.11	3.58	0.06	0.7
52	5/2/2020 19:30	0.14	1.25	0.13	1.4
53	5/9/2020 5:00	0.03	0.5	0.03	6.3
54	5/10/2020 10:35	0.72	20.67	0.2	1.2
55	5/14/2020 9:45	2.09	32.67	0.55	3.1
56	5/17/2020 9:40	0.49	8.92	0.38	1.6
57	5/18/2020 8:00	0.47	23.08	0.11	0.6
58	5/22/2020 3:25	0.49	9	0.25	2.8
59	5/25/2020 14:35	0.15	4.67	0.11	3.1
60	5/28/2020 4:35	0.31	9.58	0.21	2.4
61	5/29/2020 9:00	0.44	7.92	0.26	0.8
62	6/2/2020 0:30	0.05	5	0.03	3.3
63	6/3/2020 7:25	0.02	0.5	0.02	1.1
64	6/10/2020 19:25	0.54	9.5	0.51	7.5
65	6/18/2020 19:45	0.15	0.92	0.15	7.6
66	6/21/2020 22:30	0.39	16.92	0.22	3.1
67	6/23/2020 6:35	0.47	5.5	0.35	0.6
68	6/26/2020 22:40	1.14	6.58	0.68	3.4
69	6/27/2020 22:00	0.24	0.25	0.24	0.7
70	7/10/2020 13:40	3.74	20.75	1.44	12.6
71	7/16/2020 15:20	0.03	0.5	0.03	5.2
72	7/19/2020 16:25	0.55	0.58	0.55	3
73	7/22/2020 2:45	0.26	3.5	0.14	2.4
74	7/23/2020 10:40	0.17	0.42	0.17	1.2

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/27/2020 12:35	1.31	16.33	0.69	4.1
76	7/29/2020 22:00	0.01	0.08	0.01	1.7
77	8/1/2020 12:05	0.74	31.67	0.36	2.6
78	8/3/2020 13:15	1.53	3.25	1.33	0.7
79	8/4/2020 6:35	0.35	15.33	0.26	0.6
80	8/16/2020 11:40	0.28	1.75	0.24	11.6
81	8/17/2020 13:40	0.01	0.08	0.01	1
82	8/26/2020 8:50	0.43	2.75	0.33	8.8
83	8/28/2020 6:00	2.94	28.75	1.2	1.8
84	9/2/2020 3:15	0.82	9.33	0.35	3.7
85	9/7/2020 6:10	3.8	6.67	1.46	4.7
86	9/13/2020 7:20	0.52	1	0.52	5.8
87	9/28/2020 16:40	1.77	7	0.88	15.3
88	9/30/2020 16:10	0.03	4.42	0.01	1.7
89	10/1/2020 13:10	0.55	17.25	0.14	0.7
90	10/2/2020 21:00	0.01	0.08	0.01	0.6
91	10/4/2020 15:30	0.29	8.75	0.16	1.8
92	10/10/2020 19:45	0.04	0.83	0.04	5.8
93	10/12/2020 22:40	0.73	4.33	0.4	2.1
94	10/15/2020 12:15	0.26	15.42	0.07	2.4
95	10/18/2020 13:30	0.06	0.33	0.06	2.4
96	10/19/2020 2:35	0.91	32.5	0.11	0.5
97	10/20/2020 23:50	1.99	12.83	0.68	0.5
98	10/22/2020 0:50	0.1	4.92	0.05	0.5
99	10/23/2020 17:10	0.71	8.58	0.23	1.5
100	10/26/2020 2:25	0.26	19.42	0.04	2
101	10/27/2020 14:50	0.26	15.75	0.05	0.7
102	10/29/2020 3:40	1.08	32.58	0.14	0.9
103	11/1/2020 7:40	0.16	17.83	0.08	1.8
104	11/11/2020 0:45	0.16	6.92	0.05	9
105	11/15/2020 0:20	0.33	13	0.09	3.7
106	11/17/2020 4:05	0.13	8.08	0.06	1.6
107	11/22/2020 7:15	0.67	12.25	0.13	4.8
108	11/24/2020 17:00	0.02	0.33	0.02	1.9
109	11/25/2020 10:30	0.82	30.83	0.17	0.7
110	11/27/2020 20:25	0.01	0.08	0.01	1.1
111	11/30/2020 5:40	3	37.83	0.19	2.4

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	12/5/2020 15:30	0.01	0.08	0.01	3.8
113	12/12/2020 7:45	0.37	21.83	0.19	6.7
114	12/14/2020 9:45	0.01	0.08	0.01	1.2
115	12/16/2020 13:55	0.01	0.08	0.01	2.2
116	12/17/2020 8:15	0.02	10.75	0.01	0.8
117	12/18/2020 9:35	0.03	3	0.01	0.6
118	12/19/2020 18:15	0.19	21.67	0.06	1.2
119	12/21/2020 17:20	0.13	16	0.06	1.1
120	12/23/2020 19:50	0.73	38.83	0.1	1.4
121	12/27/2020 22:50	0.1	3.67	0.05	2.5
122	12/28/2020 20:50	0.01	0.08	0.01	0.8
123	12/29/2020 23:55	0.02	0.83	0.02	1.1
124	12/30/2020 14:25	0.31	7.42	0.11	0.6

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.56	47.42	0.06	2.2
2	1/8/2020 7:55	0.01	0.08	0.01	3.2
3	1/9/2020 13:55	1.09	59.5	0.09	1.2
4	1/15/2020 17:50	0.15	20.92	0.12	3.7
5	1/18/2020 1:35	0.75	15.67	0.17	1.5
6	1/19/2020 21:55	0.09	13.25	0.03	1.2
7	1/24/2020 6:45	0.76	37.92	0.11	3.8
8	1/26/2020 17:25	0.02	8.83	0.01	0.9
9	2/1/2020 19:10	0.04	2.33	0.02	5.7
10	2/4/2020 14:50	0.22	4.42	0.09	2.7
11	2/5/2020 20:30	0.5	44.25	0.12	1.1
12	2/8/2020 14:30	0.01	0.08	0.01	0.9
13	2/9/2020 17:55	0.26	13.83	0.08	1.1
14	2/12/2020 19:15	0.5	31.58	0.11	2.5
15	2/17/2020 23:20	0.37	11.17	0.1	3.9
16	2/24/2020 20:35	0.2	4.67	0.05	6.4
17	2/25/2020 17:20	0.47	41.5	0.06	0.7
18	2/29/2020 2:00	0.03	2.08	0.02	1.6
19	3/2/2020 9:55	0.47	32.83	0.16	2.2
20	3/4/2020 12:25	0.04	1.75	0.03	0.7
21	3/6/2020 7:10	0.26	17.92	0.05	1.7
22	3/10/2020 1:45	0.37	10.67	0.07	3
23	3/12/2020 21:45	0.41	4.5	0.27	2.4
24	3/16/2020 18:10	0.05	11.42	0.02	3.7
25	3/18/2020 15:00	1.59	6.92	0.37	1.4
26	3/19/2020 12:00	0.31	20	0.2	0.6
27	3/22/2020 19:50	0.19	12.92	0.06	2.5
28	3/25/2020 2:20	0.01	0.08	0.01	1.7
29	3/26/2020 18:45	0.27	7	0.09	1.7
30	3/27/2020 21:20	2.35	29.33	0.73	0.8
31	3/30/2020 6:15	0.13	13.25	0.09	1.1
32	4/1/2020 2:45	0.04	5.75	0.03	1.3
33	4/7/2020 6:15	1.11	22.58	0.58	5.9
34	4/9/2020 5:15	0.32	18.5	0.14	1
35	4/12/2020 5:35	0.02	2.33	0.01	2.2
36	4/12/2020 21:35	0.49	14	0.11	0.6
37	4/15/2020 14:50	0.16	11.25	0.06	2.1
38	4/17/2020 10:35	0.36	8.42	0.06	1.4

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/19/2020 20:05	0.02	10	0.01	2
40	4/21/2020 2:20	0.11	3.25	0.07	0.8
41	4/22/2020 18:40	0.09	2.25	0.06	1.5
42	4/23/2020 20:30	0.16	7.83	0.07	1
43	4/26/2020 0:05	0.85	13.92	0.17	1.8
44	4/27/2020 22:50	0.05	3.83	0.03	1.4
45	4/28/2020 21:35	0.03	0.25	0.03	0.8
46	4/29/2020 19:45	0.28	37	0.07	0.9
47	5/9/2020 4:55	0.02	1.17	0.01	7.8
48	5/10/2020 17:20	0.52	13.58	0.3	1.5
49	5/11/2020 21:15	0.01	0.08	0.01	0.6
50	5/14/2020 9:20	2.38	33	0.82	2.5
51	5/17/2020 7:55	0.35	11.25	0.31	1.6
52	5/18/2020 7:40	1.02	22.33	0.26	0.5
53	5/22/2020 2:30	0.52	14	0.23	2.9
54	5/25/2020 16:55	0.14	1.33	0.13	3
55	5/28/2020 3:55	0.24	9.92	0.13	2.4
56	5/29/2020 12:35	0.41	11.08	0.31	0.9
57	6/1/2020 23:55	0.04	0.67	0.04	3
58	6/4/2020 14:20	0.06	0.5	0.06	2.6
59	6/10/2020 19:10	0.24	1.17	0.23	6.2
60	6/13/2020 0:15	0.04	0.33	0.04	2.2
61	6/18/2020 19:15	0.02	0.17	0.02	5.8
62	6/20/2020 4:45	0.01	0.08	0.01	1.4
63	6/21/2020 22:00	0.63	17.58	0.28	1.7
64	6/23/2020 6:25	0.53	5.58	0.46	0.6
65	6/26/2020 22:20	0.39	6.75	0.26	3.4
66	7/7/2020 12:25	0.41	2.33	0.4	10.3
67	7/10/2020 23:30	0.3	10.92	0.09	3.4
68	7/16/2020 4:35	0.03	10.42	0.02	4.8
69	7/19/2020 12:55	0.5	7	0.48	2.9
70	7/22/2020 2:00	0.33	3.25	0.2	2.3
71	7/27/2020 14:25	1.86	12.33	1.08	5.4
72	8/1/2020 11:10	1.55	53.25	0.75	4.4
73	8/4/2020 7:20	0.22	4.67	0.16	0.6
74	8/16/2020 11:45	0.39	1.67	0.32	12
75	8/17/2020 13:35	1.21	0.92	1.21	1
76	8/23/2020 16:30	0.39	1.58	0.37	6.1

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/26/2020 7:10	0.09	4.08	0.06	2.5
78	8/28/2020 8:30	2.69	21	1.07	1.9
79	9/2/2020 4:05	0.29	8.42	0.16	3.9
80	9/3/2020 5:50	0.01	0.08	0.01	0.7
81	9/7/2020 6:35	4.39	9.33	1.67	4
82	9/10/2020 7:00	0.01	0.08	0.01	2.6
83	9/13/2020 7:15	0.32	1.17	0.29	3
84	9/17/2020 6:10	0.02	0.08	0.02	3.9
85	9/28/2020 16:40	1.58	7.25	0.85	11.4
86	9/30/2020 15:55	0.04	7.08	0.02	1.7
87	10/1/2020 13:25	1.09	18.08	0.41	0.6
88	10/4/2020 16:30	0.37	13.5	0.24	2.4
89	10/12/2020 22:20	0.56	2.83	0.48	7.7
90	10/15/2020 12:25	0.29	5.75	0.09	2.5
91	10/18/2020 12:30	0.04	1.33	0.03	2.8
92	10/19/2020 2:40	0.89	30.25	0.13	0.5
93	10/21/2020 0:20	0.73	11.67	0.2	0.6
94	10/22/2020 5:10	0.03	0.5	0.03	0.7
95	10/23/2020 17:10	0.56	8.67	0.25	1.5
96	10/26/2020 1:50	0.24	24.83	0.04	2
97	10/27/2020 18:15	0.25	13.08	0.07	0.6
98	10/29/2020 2:30	1.56	33.83	0.25	0.8
99	11/1/2020 7:10	0.1	16.75	0.06	1.8
100	11/11/2020 0:25	0.19	6.92	0.07	9
101	11/15/2020 0:05	0.31	17.25	0.1	3.7
102	11/17/2020 4:35	0.16	11.08	0.05	1.5
103	11/22/2020 7:05	0.67	12.17	0.27	4.6
104	11/24/2020 16:50	0.02	0.17	0.02	1.9
105	11/25/2020 9:55	0.69	24.42	0.18	0.7
106	11/27/2020 20:10	0.02	0.83	0.02	1.4
107	11/30/2020 5:25	2.84	39.58	0.29	2.4
108	12/5/2020 12:20	0.06	3.58	0.03	3.6
109	12/12/2020 7:40	0.13	9.75	0.05	6.7
110	12/13/2020 5:45	0.07	3.42	0.04	0.5
111	12/16/2020 11:35	0.13	45	0.02	3.1
112	12/19/2020 20:10	0.15	5.42	0.05	1.5
113	12/21/2020 16:30	0.21	16.75	0.11	1.6
114	12/23/2020 21:30	0.55	53.75	0.08	1.5

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/27/2020 23:05	0.08	3.25	0.05	1.8
116	12/28/2020 18:10	0.01	0.08	0.01	0.7
117	12/29/2020 23:40	0.02	0.42	0.02	1.2
118	12/30/2020 14:10	0.42	7.92	0.13	0.6

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 10:50	0.02	1.92	0.01	0.5
2	1/3/2020 4:40	0.44	37.92	0.06	1.7
3	1/5/2020 13:55	0.04	8.25	0.02	0.8
4	1/10/2020 0:30	1.25	52.33	0.16	4.1
5	1/15/2020 18:05	0.07	0.92	0.07	3.6
6	1/18/2020 1:10	0.82	16.17	0.16	2.3
7	1/19/2020 17:05	0.17	26.67	0.02	1
8	1/22/2020 13:15	0.01	0.08	0.01	1.7
9	1/24/2020 7:55	0.44	36.58	0.07	1.8
10	1/26/2020 17:20	0.01	0.08	0.01	0.9
11	2/1/2020 19:05	0.04	2.5	0.02	6.1
12	2/4/2020 14:50	0.09	3	0.05	2.7
13	2/5/2020 18:35	0.21	4.33	0.1	1
14	2/6/2020 11:30	0.15	27.25	0.03	0.5
15	2/8/2020 15:35	0.03	1.08	0.02	1
16	2/9/2020 18:20	0.29	13.08	0.06	1.1
17	2/12/2020 19:40	0.35	22.5	0.07	2.5
18	2/17/2020 23:15	0.21	5	0.07	4.2
19	2/24/2020 19:35	0.23	5.33	0.1	6.6
20	2/25/2020 18:40	0.31	30.17	0.05	0.7
21	2/28/2020 23:50	0.04	3	0.02	2
22	3/2/2020 7:50	0.4	34.75	0.14	2.2
23	3/4/2020 12:10	0.03	1.58	0.02	0.7
24	3/6/2020 9:00	0.05	3.92	0.03	1.8
25	3/10/2020 0:35	0.31	11.17	0.09	3.5
26	3/12/2020 23:30	0.3	2.33	0.22	2.5
27	3/16/2020 18:40	0.01	0.08	0.01	3.7
28	3/17/2020 6:50	0.01	0.08	0.01	0.5
29	3/18/2020 15:05	1.18	6.83	0.36	1.3
30	3/19/2020 16:40	0.21	15.08	0.08	0.8
31	3/22/2020 20:00	0.2	15.08	0.06	2.5
32	3/26/2020 17:55	0.31	7.67	0.07	3.3
33	3/27/2020 22:15	2.82	35.83	0.74	0.9
34	3/30/2020 10:25	0.04	8.92	0.02	1
35	4/1/2020 9:25	0.01	0.08	0.01	1.6
36	4/7/2020 6:00	0.26	2.67	0.14	5.9
37	4/7/2020 22:20	1.26	2.92	0.93	0.6
38	4/8/2020 23:50	0.27	17.58	0.09	0.9

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 5:35	0.01	0.08	0.01	2.5
40	4/12/2020 22:35	0.31	12.5	0.09	0.7
41	4/15/2020 14:20	0.18	11.25	0.06	2.1
42	4/17/2020 10:05	0.39	8.58	0.08	1.4
43	4/19/2020 21:20	0.02	0.17	0.02	2.1
44	4/21/2020 2:05	0.13	1.58	0.07	1.2
45	4/22/2020 18:25	0.1	2.25	0.06	1.6
46	4/23/2020 20:45	0.12	8.75	0.06	1
47	4/26/2020 0:45	0.48	8.25	0.19	1.8
48	4/27/2020 22:25	0.04	4	0.03	1.6
49	4/28/2020 18:35	0.28	3.17	0.2	0.7
50	4/29/2020 17:10	0.17	23.92	0.05	0.8
51	5/1/2020 7:05	0.04	0.83	0.04	0.6
52	5/2/2020 20:55	0.2	1.25	0.19	1.5
53	5/9/2020 4:55	0.02	0.92	0.02	6.3
54	5/10/2020 10:35	0.6	19.58	0.23	1.2
55	5/11/2020 20:55	0.01	0.08	0.01	0.6
56	5/14/2020 9:10	3.72	32.92	1.49	2.5
57	5/16/2020 6:45	0.01	0.08	0.01	0.5
58	5/17/2020 16:00	0.82	2.5	0.64	1.4
59	5/18/2020 6:50	1.55	23.33	0.35	0.5
60	5/22/2020 3:15	0.5	9.25	0.21	2.9
61	5/28/2020 4:55	0.13	8.67	0.08	5.7
62	5/29/2020 12:00	0.65	4.75	0.42	0.9
63	6/1/2020 23:20	0.07	1.5	0.06	3.3
64	6/10/2020 18:40	0.59	0.92	0.59	8.7
65	6/13/2020 0:00	0.09	0.5	0.09	2.2
66	6/18/2020 19:25	0.65	0.75	0.65	5.8
67	6/21/2020 21:45	0.49	14.08	0.16	3.1
68	6/23/2020 6:15	0.54	5.17	0.46	0.8
69	6/26/2020 22:15	0.35	23.92	0.22	3.5
70	7/10/2020 15:15	0.46	22	0.16	12.7
71	7/16/2020 14:35	0.01	0.08	0.01	5.1
72	7/19/2020 16:20	0.26	0.5	0.26	3.1
73	7/22/2020 2:15	0.24	2.75	0.15	2.4
74	7/22/2020 20:50	1.44	18.92	1.18	0.7
75	7/27/2020 11:35	0.96	22	0.51	3.8
76	8/1/2020 9:15	1.09	31.08	0.73	4

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 13:30	0.28	1.75	0.23	0.9
78	8/4/2020 9:40	0.04	16.58	0.01	0.8
79	8/16/2020 11:05	0.77	2.75	0.46	11.4
80	8/17/2020 13:25	0.16	1.25	0.15	1
81	8/26/2020 7:20	0.18	2.25	0.16	8.7
82	8/28/2020 8:05	4.57	21.25	2.18	1.9
83	9/2/2020 3:30	0.39	8.67	0.27	3.9
84	9/7/2020 6:10	3.95	7.33	1.47	4.8
85	9/13/2020 6:50	0.23	1.67	0.21	5.7
86	9/28/2020 15:05	1.66	12.92	0.82	15.3
87	9/30/2020 20:00	0.03	0.33	0.03	1.7
88	10/1/2020 12:40	0.97	18.33	0.35	0.7
89	10/4/2020 15:00	0.19	2.67	0.15	2.3
90	10/5/2020 12:05	0.01	0.08	0.01	0.8
91	10/12/2020 22:05	0.54	2.33	0.44	7.4
92	10/15/2020 12:05	0.22	5.17	0.07	2.5
93	10/18/2020 12:25	0.1	2.08	0.08	2.8
94	10/19/2020 2:50	0.94	32	0.09	0.5
95	10/20/2020 23:40	2.16	8.33	0.73	0.5
96	10/22/2020 0:30	0.04	4.42	0.02	0.7
97	10/23/2020 18:20	0.61	6.67	0.4	1.6
98	10/26/2020 2:00	0.26	20.17	0.04	2
99	10/27/2020 14:45	0.3	15.5	0.06	0.7
100	10/29/2020 2:45	1.07	29.42	0.13	0.9
101	11/1/2020 7:20	0.11	5.58	0.09	2
102	11/11/2020 1:50	0.06	6.42	0.03	9.5
103	11/14/2020 23:45	0.43	13.58	0.12	3.6
104	11/17/2020 4:25	0.1	5	0.04	1.6
105	11/22/2020 7:05	0.76	11.42	0.16	4.9
106	11/23/2020 6:45	0.01	0.08	0.01	0.5
107	11/24/2020 16:45	0.01	0.08	0.01	1.4
108	11/25/2020 10:20	0.59	25.67	0.17	0.7
109	11/27/2020 19:45	0.02	0.33	0.02	1.3
110	11/30/2020 4:35	2.66	40.5	0.22	2.4
111	12/5/2020 13:40	0.11	1.92	0.08	3.7
112	12/7/2020 5:05	0.01	0.08	0.01	1.6
113	12/12/2020 7:20	0.39	9	0.3	5.1
114	12/13/2020 6:40	0.03	3.92	0.02	0.6

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 11:10	0.02	2.33	0.01	3
116	12/17/2020 1:30	0.02	1.33	0.01	0.5
117	12/17/2020 14:55	0.07	18.5	0.01	0.5
118	12/19/2020 22:20	0.09	2.58	0.04	1.5
119	12/20/2020 14:40	0.02	1	0.02	0.6
120	12/21/2020 16:20	0.16	10.08	0.07	1
121	12/23/2020 18:45	0.51	55.67	0.07	1.7
122	12/27/2020 22:05	0.11	4.33	0.05	1.8
123	12/30/2020 8:40	0.4	15.5	0.08	2.3

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:50	0.43	45.33	0.06	2.2
2	1/10/2020 0:45	1.18	51.5	0.12	4.9
3	1/15/2020 18:10	0.05	1.33	0.04	3.6
4	1/18/2020 1:30	0.77	15.08	0.17	2.3
5	1/19/2020 21:20	0.17	6.83	0.05	1.2
6	1/24/2020 7:50	0.46	37.58	0.07	4.2
7	1/26/2020 17:15	0.01	0.08	0.01	0.8
8	1/28/2020 15:25	0.01	0.08	0.01	1.9
9	2/1/2020 19:05	0.03	1.67	0.02	4.1
10	2/4/2020 14:50	0.11	4	0.06	2.8
11	2/5/2020 18:40	0.45	44.08	0.12	1
12	2/8/2020 15:55	0.03	0.5	0.03	1
13	2/9/2020 17:45	0.27	13.75	0.07	1.1
14	2/12/2020 19:50	0.42	23.25	0.08	2.5
15	2/17/2020 23:20	0.21	6.17	0.06	4.2
16	2/24/2020 19:25	0.24	6.33	0.1	6.6
17	2/25/2020 18:55	0.43	31.58	0.05	0.7
18	2/29/2020 1:40	0.04	2.08	0.03	2
19	3/2/2020 10:20	0.37	32.33	0.15	2.3
20	3/4/2020 12:15	0.03	0.83	0.03	0.7
21	3/6/2020 9:55	0.06	3	0.03	1.9
22	3/10/2020 0:55	0.28	10.75	0.09	3.5
23	3/12/2020 23:30	0.32	2.58	0.21	2.5
24	3/14/2020 20:45	0.01	0.08	0.01	1.8
25	3/16/2020 19:20	0.02	11.58	0.01	1.9
26	3/18/2020 15:00	1.09	6.92	0.23	1.3
27	3/19/2020 17:30	0.43	17.25	0.16	0.8
28	3/21/2020 7:55	0.01	0.08	0.01	0.9
29	3/22/2020 19:55	0.21	15	0.07	1.5
30	3/26/2020 17:45	0.34	7.42	0.09	3.3
31	3/27/2020 22:15	2.87	35.83	0.65	0.9
32	3/30/2020 4:50	0.01	0.08	0.01	0.8
33	3/30/2020 17:45	0.02	0.33	0.02	0.5
34	4/1/2020 7:20	0.03	1	0.03	1.6
35	4/7/2020 6:05	1.03	22.25	0.53	5.9
36	4/9/2020 4:50	0.25	11.75	0.1	1
37	4/12/2020 5:35	0.01	0.08	0.01	2.5
38	4/12/2020 22:40	0.31	12.33	0.08	0.7

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 14:40	0.23	11.75	0.07	2.2
40	4/17/2020 10:10	0.42	8.33	0.09	1.3
41	4/19/2020 20:35	0.04	0.33	0.04	2.1
42	4/21/2020 2:10	0.08	1.5	0.06	1.2
43	4/22/2020 18:40	0.1	1.75	0.06	1.6
44	4/23/2020 20:45	0.11	6.5	0.07	1
45	4/26/2020 0:50	0.59	16.5	0.19	1.9
46	4/27/2020 22:35	0.05	3.33	0.04	1.2
47	4/28/2020 18:45	0.25	3.25	0.17	0.7
48	4/29/2020 17:30	0.18	23.17	0.05	0.8
49	5/1/2020 7:10	0.02	0.42	0.02	0.6
50	5/2/2020 21:00	0.05	0.17	0.05	1.6
51	5/8/2020 16:25	0.02	12	0.01	5.8
52	5/10/2020 10:30	0.67	20.08	0.21	1.3
53	5/11/2020 22:15	0.01	0.08	0.01	0.7
54	5/14/2020 9:15	2.96	40.67	1.03	2.5
55	5/17/2020 16:05	0.65	2.58	0.46	1.6
56	5/18/2020 7:00	2.33	22.92	0.63	0.5
57	5/22/2020 2:50	0.49	9.58	0.2	2.9
58	5/28/2020 4:55	0.15	8.75	0.1	5.7
59	5/29/2020 12:00	0.54	4.75	0.32	0.9
60	6/1/2020 23:30	0.06	1.33	0.05	3.3
61	6/10/2020 18:35	0.47	9.5	0.47	8.7
62	6/13/2020 0:00	0.05	0.25	0.05	1.8
63	6/18/2020 19:30	0.78	0.5	0.78	5.8
64	6/21/2020 21:50	0.57	15	0.25	3.1
65	6/23/2020 6:20	0.71	5.17	0.63	0.7
66	6/26/2020 22:05	0.58	6.58	0.37	3.4
67	6/27/2020 21:45	0.06	0.25	0.06	0.7
68	7/10/2020 13:00	1.25	20.75	0.35	12.6
69	7/16/2020 13:35	0.09	1.17	0.06	5.2
70	7/19/2020 16:10	0.62	0.67	0.62	3.1
71	7/22/2020 2:30	0.27	3.92	0.18	2.4
72	7/22/2020 21:15	0.04	0.33	0.04	0.6
73	7/23/2020 11:00	1.12	4.5	0.68	0.6
74	7/27/2020 13:55	1.91	12	1.09	3.9
75	7/29/2020 21:40	0.04	0.33	0.04	1.8
76	8/1/2020 9:15	1.01	30.67	0.65	2.5

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 13:35	0.11	1.67	0.08	0.9
78	8/4/2020 6:20	0.23	18.33	0.14	0.6
79	8/16/2020 11:05	0.98	2.92	0.74	11.4
80	8/26/2020 8:25	0.1	0.75	0.1	9.8
81	8/28/2020 7:55	2.88	21.25	0.79	1.9
82	9/2/2020 3:25	0.45	10.67	0.21	3.9
83	9/7/2020 6:05	3.95	7.33	1.31	4.7
84	9/13/2020 6:50	0.22	1.25	0.21	5.7
85	9/28/2020 15:10	1.58	13.67	0.72	15.3
86	9/30/2020 20:10	0.01	0.08	0.01	1.6
87	10/1/2020 12:45	0.71	16.08	0.24	0.7
88	10/4/2020 15:15	0.19	2.58	0.15	2.4
89	10/12/2020 22:10	0.62	3.42	0.51	8.2
90	10/15/2020 12:15	0.18	4.5	0.07	2.4
91	10/18/2020 13:10	0.09	0.5	0.09	2.9
92	10/19/2020 2:50	1	31.92	0.12	0.5
93	10/20/2020 23:40	2.58	8.33	0.87	0.5
94	10/22/2020 1:25	0.08	3.5	0.04	0.7
95	10/23/2020 17:30	0.47	7.42	0.22	1.5
96	10/26/2020 1:55	0.28	20.33	0.05	2
97	10/27/2020 14:45	0.32	15.58	0.06	0.7
98	10/29/2020 3:15	1.09	29.17	0.17	0.9
99	11/1/2020 7:25	0.12	12.75	0.08	2
100	11/11/2020 0:20	0.05	6.33	0.02	9.2
101	11/14/2020 23:45	0.39	13.58	0.12	3.7
102	11/17/2020 4:35	0.1	4.58	0.06	1.6
103	11/22/2020 7:15	0.79	11.33	0.16	4.9
104	11/24/2020 16:40	0.02	0.25	0.02	1.9
105	11/25/2020 10:25	0.48	20.92	0.14	0.7
106	11/27/2020 19:55	0.01	0.08	0.01	1.5
107	11/30/2020 4:35	2.35	39.92	0.14	2.4
108	12/5/2020 13:50	0.11	1.83	0.08	3.7
109	12/7/2020 5:15	0.01	0.08	0.01	1.6
110	12/12/2020 7:35	0.24	8.67	0.16	5.1
111	12/13/2020 5:10	0.04	2.58	0.02	0.5
112	12/16/2020 11:20	0.05	15.67	0.01	3.1
113	12/17/2020 15:10	0.08	18.75	0.02	0.5
114	12/19/2020 20:15	0.09	4.58	0.04	1.4

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/20/2020 14:05	0.02	1	0.02	0.6
116	12/21/2020 16:20	0.15	9.75	0.07	1.1
117	12/23/2020 18:45	0.57	39.33	0.08	1.7
118	12/26/2020 2:05	0.01	0.08	0.01	0.7
119	12/27/2020 22:10	0.09	4.08	0.04	1.8
120	12/28/2020 16:50	0.04	11.75	0.03	0.6
121	12/29/2020 23:35	0.04	0.67	0.04	0.8
122	12/30/2020 13:40	0.34	8.42	0.08	0.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.44	36.58	0.06	2.3
2	1/8/2020 7:15	0.01	0.08	0.01	3.5
3	1/10/2020 0:05	1.03	52.25	0.1	1.7
4	1/15/2020 18:25	0.06	1.08	0.05	3.6
5	1/18/2020 1:50	0.72	14.92	0.18	2.3
6	1/19/2020 21:55	0.02	1.58	0.01	1.2
7	1/24/2020 8:00	0.36	41.67	0.04	4.4
8	1/26/2020 18:05	0.02	0.92	0.02	0.7
9	1/28/2020 22:25	0.01	0.08	0.01	2.1
10	2/1/2020 19:55	0.03	10.33	0.02	3.9
11	2/4/2020 15:05	0.07	3	0.04	2.4
12	2/5/2020 18:55	0.24	4.67	0.11	1
13	2/6/2020 17:50	0.15	21.42	0.04	0.8
14	2/8/2020 16:15	0.02	0.33	0.02	1
15	2/9/2020 17:55	0.26	13.17	0.06	1.1
16	2/12/2020 19:50	0.42	22.33	0.1	2.5
17	2/17/2020 23:30	0.19	6.5	0.05	4.2
18	2/24/2020 20:40	0.19	6.92	0.07	6.6
19	2/25/2020 19:15	0.35	28.75	0.06	0.7
20	2/27/2020 17:15	0.01	0.08	0.01	0.7
21	3/2/2020 10:00	0.06	9	0.03	3.7
22	3/3/2020 11:15	0.29	7.83	0.16	0.7
23	3/4/2020 12:15	0.04	1.5	0.03	0.7
24	3/6/2020 8:35	0.06	6.08	0.02	1.8
25	3/10/2020 1:15	0.2	10.42	0.09	3.4
26	3/12/2020 23:45	0.25	2.08	0.16	2.5
27	3/16/2020 19:25	0.02	0.5	0.02	3.7
28	3/18/2020 15:10	0.98	8.58	0.23	1.8
29	3/19/2020 17:50	0.4	17.08	0.25	0.8
30	3/22/2020 19:50	0.2	12.92	0.07	2.4
31	3/26/2020 17:50	0.33	7.33	0.08	3.4
32	3/27/2020 22:50	2.45	35.5	0.59	0.9
33	3/30/2020 2:55	0.01	0.08	0.01	0.7
34	4/1/2020 7:35	0.01	0.08	0.01	2.2
35	4/7/2020 7:15	1.07	17.58	0.56	6
36	4/9/2020 0:00	0.29	20.42	0.09	1
37	4/12/2020 23:05	0.28	12.17	0.05	3.1
38	4/15/2020 15:15	0.2	20.75	0.07	2.2

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:30	0.36	7.92	0.07	0.9
40	4/19/2020 21:00	0.01	0.08	0.01	2.1
41	4/21/2020 2:10	0.08	1.42	0.05	1.2
42	4/22/2020 18:35	0.11	2.33	0.06	1.6
43	4/24/2020 0:20	0.07	2.08	0.05	1.1
44	4/26/2020 0:45	0.52	13.42	0.16	1.9
45	4/27/2020 23:05	0.02	0.5	0.02	1.4
46	4/28/2020 19:00	0.14	3.58	0.08	0.8
47	4/29/2020 21:10	0.24	14.33	0.13	0.9
48	5/1/2020 7:15	0.03	1	0.03	0.8
49	5/2/2020 19:55	0.07	0.67	0.07	1.5
50	5/10/2020 10:15	0.67	21.08	0.2	7.6
51	5/14/2020 9:30	2.11	32.83	0.62	3.1
52	5/17/2020 16:10	0.45	2.5	0.27	1.9
53	5/18/2020 7:40	1.39	21	0.43	0.5
54	5/22/2020 3:00	0.39	10.42	0.19	2.9
55	5/25/2020 16:30	0.02	0.25	0.02	3.1
56	5/28/2020 7:15	0.15	9.92	0.12	2.6
57	5/29/2020 13:20	0.43	3.33	0.26	0.8
58	6/1/2020 23:50	0.02	0.25	0.02	3.3
59	6/3/2020 6:40	0.02	0.17	0.02	1.3
60	6/10/2020 18:50	0.74	9.33	0.72	7.5
61	6/18/2020 14:55	0.12	5.58	0.09	7.4
62	6/21/2020 15:35	0.38	21.33	0.1	2.8
63	6/23/2020 6:35	0.61	5.25	0.57	0.7
64	6/26/2020 22:30	1.25	6.25	0.73	3.4
65	6/27/2020 21:50	0.06	0.17	0.06	0.7
66	7/10/2020 15:35	1.85	18	0.59	12.7
67	7/16/2020 14:55	0.06	0.17	0.06	5.2
68	7/19/2020 16:20	0.36	0.67	0.36	3.1
69	7/22/2020 2:40	0.19	3.17	0.12	2.4
70	7/23/2020 10:20	0.62	2.17	0.57	1.2
71	7/27/2020 12:55	1.26	13	0.44	4
72	7/29/2020 21:45	0.02	0.17	0.02	1.8
73	8/1/2020 12:15	0.63	27.67	0.41	2.6
74	8/3/2020 13:55	0.14	1.42	0.11	0.9
75	8/4/2020 5:55	0.72	15.58	0.48	0.6
76	8/16/2020 11:15	0.64	2.58	0.56	11.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2020 13:10	0.04	0.25	0.04	1
78	8/26/2020 9:30	0.27	2.08	0.16	8.8
79	8/28/2020 8:10	2.45	21	0.93	1.9
80	9/2/2020 3:15	0.45	8.92	0.33	3.9
81	9/7/2020 6:05	3.81	6.83	1.46	4.7
82	9/13/2020 6:40	0.34	1.25	0.33	5.7
83	9/28/2020 15:40	1.67	8.67	0.67	15.3
84	9/30/2020 19:05	0.03	0.5	0.03	1.8
85	10/1/2020 12:50	0.58	16.25	0.17	0.7
86	10/2/2020 23:20	0.02	2.58	0.01	0.8
87	10/4/2020 15:35	0.23	3	0.14	1.6
88	10/10/2020 19:35	0.03	0.25	0.03	6
89	10/12/2020 22:20	0.63	3.42	0.4	2.1
90	10/15/2020 12:15	0.16	4.67	0.06	2.4
91	10/18/2020 13:25	0.07	0.83	0.07	2.9
92	10/19/2020 3:00	1	32.08	0.12	0.5
93	10/20/2020 23:55	2.58	10.75	0.97	0.5
94	10/22/2020 2:05	0.25	2.92	0.18	0.6
95	10/23/2020 17:10	0.41	7.75	0.15	1.5
96	10/26/2020 2:10	0.38	19.17	0.07	2.1
97	10/27/2020 14:50	0.29	13	0.06	0.7
98	10/29/2020 3:10	0.88	32.58	0.1	1
99	11/1/2020 7:20	0.11	5.58	0.08	1.8
100	11/11/2020 0:20	0.05	5	0.03	9.5
101	11/15/2020 0:10	0.32	13.08	0.09	3.8
102	11/17/2020 4:25	0.12	4.5	0.07	1.6
103	11/22/2020 7:15	0.75	11.5	0.14	4.9
104	11/23/2020 7:00	0.01	0.08	0.01	0.5
105	11/24/2020 17:00	0.03	0.42	0.03	1.4
106	11/25/2020 10:50	0.51	18.42	0.11	0.7
107	11/30/2020 4:40	2.35	38.5	0.16	4
108	12/5/2020 14:20	0.01	0.08	0.01	3.8
109	12/12/2020 7:50	0.27	8.67	0.18	6.7
110	12/13/2020 4:55	0.04	5.67	0.02	0.5
111	12/16/2020 13:15	0.03	12.33	0.01	3.1
112	12/17/2020 15:55	0.16	21.17	0.04	0.6
113	12/19/2020 22:35	0.11	2.58	0.05	1.4
114	12/20/2020 15:35	0.01	0.08	0.01	0.6

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/21/2020 20:15	0.07	6.25	0.05	1.2
116	12/23/2020 19:10	0.76	40.5	0.09	1.7
117	12/26/2020 2:45	0.01	0.08	0.01	0.6
118	12/27/2020 22:25	0.14	4	0.06	1.8
119	12/29/2020 7:20	0.01	0.08	0.01	1.2
120	12/29/2020 23:55	0.02	0.25	0.02	0.7
121	12/30/2020 13:55	0.28	7.58	0.08	0.6

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:45	0.41	43.75	0.07	2.3
2	1/8/2020 7:00	0.02	0.17	0.02	3.2
3	1/9/2020 23:35	1.07	52.5	0.14	1.7
4	1/15/2020 18:05	0.08	3.58	0.06	3.6
5	1/18/2020 1:50	0.71	23.58	0.21	2.2
6	1/19/2020 21:25	0.02	0.67	0.02	0.8
7	1/24/2020 8:05	0.47	40.42	0.07	4.4
8	1/26/2020 17:05	0.03	0.75	0.03	0.7
9	1/28/2020 20:15	0.02	1.58	0.01	2.1
10	2/1/2020 18:15	0.04	11.33	0.01	3.9
11	2/4/2020 15:05	0.08	3.67	0.04	2.4
12	2/5/2020 19:00	0.4	44.17	0.13	1
13	2/8/2020 16:35	0.01	0.08	0.01	1.1
14	2/9/2020 18:05	0.26	13.42	0.07	1.1
15	2/12/2020 20:00	0.42	21.92	0.09	2.5
16	2/17/2020 23:25	0.18	6	0.06	4.2
17	2/24/2020 20:25	0.21	5.42	0.08	6.6
18	2/25/2020 19:10	0.4	29.75	0.07	0.7
19	2/27/2020 17:10	0.01	0.08	0.01	0.7
20	3/2/2020 10:05	0.37	32.58	0.12	3.7
21	3/4/2020 11:55	0.04	1.75	0.02	0.7
22	3/6/2020 8:25	0.06	6.08	0.02	1.8
23	3/10/2020 1:05	0.25	10.58	0.11	3.4
24	3/12/2020 21:45	0.33	4.83	0.2	2.4
25	3/16/2020 19:10	0.02	0.67	0.02	3.7
26	3/18/2020 14:55	1.07	8.75	0.22	1.8
27	3/19/2020 18:10	0.31	12.75	0.18	0.8
28	3/22/2020 20:05	0.24	14.42	0.09	2.5
29	3/26/2020 17:45	0.39	7.25	0.08	3.3
30	3/27/2020 22:40	2.66	35.92	0.7	0.9
31	3/30/2020 2:30	0.04	2.58	0.03	0.7
32	4/1/2020 7:20	0.04	0.5	0.04	2.1
33	4/7/2020 6:50	1.07	18.08	0.55	6
34	4/9/2020 0:00	0.26	20.25	0.08	1
35	4/10/2020 19:05	0.01	0.08	0.01	1
36	4/12/2020 5:50	0.01	0.08	0.01	1.4
37	4/12/2020 23:00	0.27	12	0.07	0.7
38	4/15/2020 14:50	0.25	16.92	0.09	2.2

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:20	0.42	8	0.08	1.1
40	4/19/2020 21:15	0.01	0.08	0.01	2.1
41	4/21/2020 2:05	0.11	1.83	0.07	1.2
42	4/22/2020 18:30	0.13	6.17	0.06	1.6
43	4/24/2020 0:25	0.06	1.67	0.05	1
44	4/26/2020 0:50	0.55	13.25	0.17	1.9
45	4/27/2020 22:30	0.04	2.75	0.03	1.4
46	4/28/2020 19:30	0.06	2.75	0.03	0.8
47	4/29/2020 18:10	0.19	17.17	0.04	0.8
48	5/2/2020 20:20	0.08	0.17	0.08	2.4
49	5/10/2020 17:15	0.65	13.42	0.24	7.9
50	5/14/2020 9:25	2.17	39.08	0.47	3.1
51	5/17/2020 16:15	0.4	2	0.33	1.7
52	5/18/2020 7:20	1.49	22.58	0.39	0.5
53	5/22/2020 2:45	0.44	10.25	0.2	2.9
54	5/28/2020 5:35	0.14	8.42	0.11	5.7
55	5/29/2020 14:15	0.47	2.33	0.3	1
56	6/1/2020 23:30	0.05	3.08	0.04	3.3
57	6/3/2020 6:35	0.02	0.42	0.02	1.2
58	6/10/2020 18:45	0.52	1.08	0.51	7.5
59	6/21/2020 22:10	0.47	15.33	0.13	11.1
60	6/23/2020 6:30	0.86	5.08	0.79	0.7
61	6/26/2020 22:25	1.46	6.58	0.89	3.5
62	6/27/2020 21:45	0.06	0.17	0.06	0.7
63	7/10/2020 20:25	1.37	11.08	0.68	12.9
64	7/16/2020 13:50	0.12	1.25	0.11	5.3
65	7/19/2020 12:45	0.25	4.17	0.22	2.9
66	7/22/2020 2:35	0.25	2.92	0.17	2.4
67	7/23/2020 10:05	0.19	0.42	0.19	1.2
68	7/27/2020 12:10	1.02	13.58	0.36	4.1
69	7/29/2020 21:50	0.01	0.08	0.01	1.8
70	8/1/2020 11:00	0.5	28.83	0.18	2.5
71	8/3/2020 12:20	0.18	3.17	0.12	0.9
72	8/4/2020 6:20	0.06	15.08	0.03	0.6
73	8/16/2020 11:10	0.82	2.5	0.7	11.6
74	8/17/2020 13:05	0.11	1.5	0.08	1
75	8/24/2020 16:30	0.01	0.08	0.01	7.1
76	8/26/2020 9:15	0.24	2.25	0.15	1.7

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/28/2020 8:05	2.38	21.08	0.64	1.9
78	9/2/2020 3:25	0.27	8.75	0.2	3.9
79	9/7/2020 5:55	3.47	7.17	1.48	4.7
80	9/13/2020 6:40	0.34	1.42	0.33	5.7
81	9/28/2020 16:00	1.54	7.83	0.62	15.3
82	9/30/2020 19:00	0.04	0.5	0.04	1.8
83	10/1/2020 14:00	0.6	14.92	0.32	0.8
84	10/2/2020 23:05	0.04	1.17	0.03	0.8
85	10/4/2020 15:15	0.19	2.75	0.13	1.6
86	10/10/2020 19:30	0.05	0.92	0.05	6.1
87	10/12/2020 22:15	0.69	3.42	0.57	2.1
88	10/15/2020 12:20	0.17	4.83	0.06	2.4
89	10/18/2020 13:20	0.04	0.33	0.04	2.8
90	10/19/2020 2:55	1.07	31.67	0.14	0.6
91	10/20/2020 23:45	2.71	10.83	1.1	0.5
92	10/22/2020 1:55	0.37	3	0.23	0.6
93	10/23/2020 16:40	0.7	8.42	0.3	1.5
94	10/26/2020 2:05	0.34	19.25	0.06	2
95	10/27/2020 14:50	0.29	13.08	0.06	0.7
96	10/29/2020 3:15	0.79	33.58	0.12	1
97	11/1/2020 6:50	0.14	7.5	0.1	1.8
98	11/11/2020 2:00	0.05	5.33	0.03	9.5
99	11/15/2020 0:05	0.38	13.25	0.11	3.7
100	11/17/2020 4:30	0.12	3.42	0.08	1.6
101	11/22/2020 7:25	0.84	11.42	0.17	5
102	11/24/2020 16:50	0.03	0.33	0.03	1.9
103	11/25/2020 10:25	0.6	18.67	0.2	0.7
104	11/28/2020 6:05	0.01	0.08	0.01	2
105	11/30/2020 5:05	2.12	38.25	0.14	2
106	12/5/2020 14:10	0.01	0.08	0.01	3.8
107	12/11/2020 10:40	0.01	0.08	0.01	5.9
108	12/12/2020 7:50	0.25	8.5	0.16	0.9
109	12/13/2020 4:50	0.02	2.67	0.01	0.5
110	12/16/2020 11:25	0.25	47.5	0.04	3.2
111	12/19/2020 15:20	0.16	9.92	0.06	1.2
112	12/20/2020 15:10	0.02	0.58	0.02	0.6
113	12/21/2020 17:10	0.09	9.25	0.06	1.1
114	12/23/2020 18:55	0.82	41.58	0.1	1.7

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/26/2020 2:20	0.01	0.08	0.01	0.6
116	12/27/2020 22:15	0.16	4.33	0.07	1.8
117	12/29/2020 23:45	0.03	0.58	0.03	1.9
118	12/30/2020 13:45	0.34	7.75	0.1	0.6

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 7:05	0.24	35.25	0.05	2.3
2	1/8/2020 0:50	0.02	5.67	0.01	3.3
3	1/9/2020 23:40	0.95	52.75	0.12	1.7
4	1/15/2020 18:20	0.05	3.42	0.03	3.6
5	1/16/2020 12:30	0.02	0.25	0.02	0.6
6	1/18/2020 2:05	0.68	15	0.15	1.6
7	1/20/2020 10:45	0.01	0.08	0.01	1.7
8	1/24/2020 8:25	0.39	37.92	0.06	3.9
9	1/26/2020 16:50	0.06	7.83	0.03	0.8
10	1/28/2020 19:35	0.01	0.08	0.01	1.8
11	2/1/2020 19:05	0.05	10.83	0.02	4
12	2/4/2020 16:05	0.04	1.67	0.03	2.4
13	2/5/2020 18:45	0.27	13	0.13	1
14	2/7/2020 6:05	0.05	8.33	0.02	0.9
15	2/8/2020 17:00	0.01	0.08	0.01	1.1
16	2/9/2020 18:00	0.28	13.67	0.09	1
17	2/12/2020 20:10	0.28	21.5	0.07	2.5
18	2/17/2020 23:40	0.16	6.08	0.05	4.3
19	2/24/2020 21:05	0.18	4.42	0.08	6.6
20	2/25/2020 19:25	0.28	29.42	0.05	0.7
21	3/2/2020 8:20	0.15	10.58	0.05	4.3
22	3/3/2020 11:20	0.32	7.5	0.15	0.7
23	3/4/2020 12:40	0.02	0.83	0.02	0.7
24	3/10/2020 1:30	0.2	9.08	0.13	5.5
25	3/12/2020 23:45	0.24	2.58	0.14	2.5
26	3/16/2020 17:50	0.06	2.58	0.03	3.6
27	3/18/2020 15:30	0.92	6.58	0.21	1.8
28	3/19/2020 17:45	0.27	12.75	0.17	0.8
29	3/22/2020 20:30	0.18	12.17	0.08	2.6
30	3/26/2020 17:50	0.39	6.67	0.08	3.4
31	3/27/2020 23:15	2.34	35.08	0.46	0.9
32	3/30/2020 5:25	0.01	0.08	0.01	0.8
33	4/1/2020 6:55	0.02	0.42	0.02	2.1
34	4/7/2020 8:35	0.81	53.33	0.35	6.1
35	4/12/2020 5:30	0.01	0.75	0.01	2.6
36	4/12/2020 22:25	0.24	11.25	0.08	0.7
37	4/14/2020 19:10	0.05	7.08	0.04	1.4
38	4/15/2020 15:50	0.17	11	0.11	0.6

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 7:05	0.14	11.5	0.07	1.2
40	4/21/2020 2:00	0.12	7.75	0.09	3.3
41	4/22/2020 16:15	0.09	8.67	0.03	1.3
42	4/24/2020 1:35	0.02	0.67	0.02	1
43	4/25/2020 21:20	0.31	15.83	0.12	1.8
44	4/27/2020 21:35	0.11	7.17	0.06	1.4
45	4/28/2020 19:40	0.04	3.08	0.03	0.6
46	4/29/2020 11:20	0.41	31.17	0.26	0.5
47	5/6/2020 1:00	0.02	1.33	0.01	5.3
48	5/10/2020 10:25	0.59	20.75	0.17	4.3
49	5/14/2020 9:15	1.81	40.75	0.5	3.1
50	5/17/2020 16:25	0.4	2.58	0.25	1.6
51	5/18/2020 8:15	0.75	21	0.13	0.6
52	5/22/2020 8:25	0.42	4.92	0.26	3.1
53	5/25/2020 17:05	0.04	0.5	0.04	3.2
54	5/28/2020 7:30	0.12	7.25	0.09	2.6
55	5/29/2020 13:20	0.36	3.33	0.2	0.9
56	6/1/2020 23:55	0.02	2.67	0.01	3.3
57	6/10/2020 19:00	0.82	1.92	0.8	8.7
58	6/21/2020 22:35	0.25	14.33	0.13	11.1
59	6/23/2020 6:40	1.11	5.17	1.06	0.7
60	6/26/2020 22:35	1.01	5.83	0.47	3.4
61	6/27/2020 21:35	0.11	0.5	0.11	0.7
62	7/10/2020 12:05	3.86	19.17	1.25	12.6
63	7/16/2020 14:05	0.04	0.92	0.04	5.3
64	7/19/2020 13:00	0.54	4	0.3	2.9
65	7/22/2020 2:50	0.23	9.08	0.14	2.4
66	7/27/2020 15:50	0.28	9.58	0.16	5.2
67	7/29/2020 19:30	0.06	4.67	0.05	1.8
68	8/1/2020 12:35	0.56	28.25	0.23	2.5
69	8/3/2020 12:35	0.7	3	0.6	0.8
70	8/4/2020 5:40	0.37	11.17	0.25	0.6
71	8/5/2020 6:00	0.01	0.08	0.01	0.5
72	8/16/2020 11:20	0.57	4.67	0.5	11.2
73	8/17/2020 14:55	0.01	0.08	0.01	1
74	8/26/2020 8:30	0.46	3.33	0.36	8.7
75	8/28/2020 7:00	1.74	22.17	0.56	1.8
76	9/2/2020 3:30	0.11	8.58	0.06	3.9

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/7/2020 5:50	2.02	5.92	0.76	4.7
78	9/13/2020 7:35	0.21	0.67	0.21	5.8
79	9/28/2020 15:50	1.69	7.75	0.61	15.3
80	9/30/2020 18:50	0.05	0.42	0.05	1.8
81	10/1/2020 14:20	0.35	12.67	0.16	0.8
82	10/2/2020 23:30	0.04	2.33	0.03	0.9
83	10/4/2020 15:35	0.17	2.42	0.13	1.6
84	10/10/2020 19:20	0.1	0.17	0.1	6.1
85	10/12/2020 22:25	0.61	2.25	0.42	2.1
86	10/15/2020 12:25	0.17	14.17	0.06	2.5
87	10/18/2020 13:25	0.1	0.58	0.1	2.5
88	10/19/2020 2:50	0.96	31.08	0.22	0.5
89	10/20/2020 23:45	2.5	10.58	1.29	0.6
90	10/22/2020 2:05	0.52	3.08	0.21	0.7
91	10/23/2020 16:45	0.62	7.5	0.27	1.5
92	10/26/2020 2:20	0.21	17.58	0.05	2.1
93	10/27/2020 14:40	0.23	15.83	0.06	0.8
94	10/29/2020 4:10	0.75	32.17	0.14	0.9
95	11/1/2020 7:40	0.11	11.58	0.08	1.8
96	11/10/2020 12:00	0.01	0.08	0.01	8.7
97	11/11/2020 2:05	0.08	5.17	0.05	0.6
98	11/15/2020 0:20	0.36	13.17	0.09	3.7
99	11/17/2020 4:40	0.03	7.33	0.01	1.6
100	11/22/2020 7:30	0.73	11.42	0.14	4.8
101	11/23/2020 6:55	0.04	4.17	0.03	0.5
102	11/24/2020 17:20	0.01	0.08	0.01	1.3
103	11/25/2020 10:45	0.71	20	0.12	0.7
104	11/30/2020 4:45	1.93	39.08	0.16	3.9
105	12/12/2020 7:25	0.26	9.17	0.15	10.5
106	12/13/2020 6:55	0.01	0.08	0.01	0.6
107	12/17/2020 1:05	0.01	0.08	0.01	3.8
108	12/17/2020 17:40	0.01	0.08	0.01	0.7
109	12/18/2020 11:30	0.02	1.33	0.01	0.7
110	12/19/2020 17:40	0.2	12.42	0.07	1.2
111	12/21/2020 17:25	0.07	4.17	0.05	1.5
112	12/23/2020 19:05	0.58	40.08	0.09	1.9
113	12/26/2020 2:25	0.01	0.08	0.01	0.6
114	12/27/2020 22:25	0.13	4	0.08	1.8

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/28/2020 15:55	0.01	0.08	0.01	0.6
116	12/30/2020 0:05	0.02	0.42	0.02	1.3
117	12/30/2020 14:25	0.31	7.25	0.11	0.6

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:30	0.54	39.83	0.06	2.2
2	1/5/2020 22:10	0.01	0.08	0.01	1.1
3	1/10/2020 0:40	1.2	51.83	0.13	4.1
4	1/15/2020 18:00	0.1	3.33	0.09	3.6
5	1/16/2020 10:35	0.01	0.08	0.01	0.6
6	1/18/2020 1:45	0.61	15.25	0.16	1.6
7	1/19/2020 23:05	0.05	6.25	0.03	1.3
8	1/24/2020 10:00	0.62	33.08	0.1	4.2
9	1/26/2020 17:25	0.01	0.08	0.01	0.9
10	1/28/2020 10:45	0.03	5.58	0.02	1.7
11	2/1/2020 19:30	0.03	1.67	0.02	4.1
12	2/4/2020 14:45	0.19	4.75	0.07	2.7
13	2/5/2020 20:15	0.53	43.58	0.12	1
14	2/9/2020 18:00	0.25	13.67	0.06	2.1
15	2/12/2020 19:30	0.39	22.42	0.09	2.5
16	2/17/2020 23:20	0.29	5.42	0.07	4.2
17	2/24/2020 20:35	0.19	4.33	0.06	6.7
18	2/25/2020 17:20	0.24	7.83	0.08	0.7
19	2/26/2020 13:30	0.17	12.83	0.03	0.5
20	2/29/2020 2:15	0.02	1.33	0.01	2
21	3/2/2020 9:55	0.12	8.75	0.04	2.3
22	3/3/2020 11:15	0.33	7.58	0.14	0.7
23	3/4/2020 12:25	0.05	1.83	0.04	0.7
24	3/6/2020 7:05	0.12	15.58	0.04	1.7
25	3/10/2020 1:15	0.28	11.25	0.08	3.1
26	3/12/2020 23:55	0.31	2.5	0.23	2.5
27	3/16/2020 18:15	0.05	11.67	0.03	3.7
28	3/18/2020 15:10	1.29	6.83	0.32	1.4
29	3/19/2020 17:30	0.22	18.92	0.09	0.8
30	3/22/2020 20:05	0.18	15.92	0.06	2.3
31	3/26/2020 18:50	0.35	6.75	0.12	3.3
32	3/27/2020 22:30	3.17	35.92	1.24	0.9
33	3/30/2020 11:00	0.06	7.67	0.03	1
34	4/1/2020 7:25	0.04	1.08	0.03	1.5
35	4/7/2020 6:10	0.19	2.83	0.12	5.9
36	4/7/2020 22:30	0.9	4.92	0.62	0.6
37	4/9/2020 5:05	0.23	11.58	0.08	1.1

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/12/2020 22:30	0.56	13	0.17	3.2
39	4/15/2020 14:20	0.22	11.17	0.06	2.1
40	4/17/2020 10:20	0.41	8.5	0.08	1.4
41	4/19/2020 21:30	0.01	0.08	0.01	2.1
42	4/21/2020 2:25	0.1	1.33	0.06	1.2
43	4/22/2020 18:25	0.12	3.42	0.06	1.6
44	4/23/2020 21:05	0.15	9.33	0.07	1
45	4/26/2020 0:25	0.63	13.08	0.16	1.8
46	4/27/2020 22:40	0.05	3.5	0.04	1.4
47	4/28/2020 18:50	0.28	3.17	0.26	0.7
48	4/29/2020 17:30	0.44	39.08	0.18	0.8
49	5/2/2020 21:05	0.32	0.67	0.32	1.5
50	5/10/2020 10:15	0.6	20.75	0.29	7.5
51	5/14/2020 9:20	3.15	42.83	0.91	3.1
52	5/17/2020 8:10	0.38	10.08	0.26	1.2
53	5/18/2020 7:45	1.29	22.17	0.4	0.6
54	5/22/2020 2:25	0.42	9.75	0.21	2.9
55	5/25/2020 16:55	0.01	0.08	0.01	3.2
56	5/28/2020 4:25	0.21	9.33	0.13	2.5
57	5/29/2020 12:10	0.34	10.83	0.22	0.9
58	6/1/2020 23:40	0.05	1.33	0.04	3
59	6/4/2020 14:35	0.01	0.08	0.01	2.6
60	6/10/2020 19:00	0.28	1.25	0.26	6.2
61	6/13/2020 0:10	0.05	0.42	0.05	2.2
62	6/18/2020 19:05	1.03	11.5	1.02	5.8
63	6/21/2020 15:25	0.48	21.25	0.23	2.4
64	6/23/2020 6:30	0.46	5.25	0.37	0.7
65	6/26/2020 22:15	0.33	6.58	0.17	3.4
66	7/7/2020 12:20	0.01	0.08	0.01	10.3
67	7/8/2020 14:40	0.02	0.17	0.02	1.1
68	7/11/2020 0:10	0.66	9.83	0.19	2.4
69	7/19/2020 16:40	0.31	3.08	0.3	8.3
70	7/22/2020 2:10	0.8	3.17	0.59	2.3
71	7/22/2020 21:45	0.01	0.08	0.01	0.7
72	7/23/2020 12:15	0.31	0.67	0.31	0.6
73	7/24/2020 7:10	0.01	0.08	0.01	0.8
74	7/27/2020 14:35	1.84	11.67	1.07	3.3

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	8/1/2020 10:50	0.96	29.42	0.65	4.4
76	8/3/2020 5:55	1.26	10.5	1.02	0.6
77	8/4/2020 6:25	0.22	5.25	0.16	0.6
78	8/16/2020 11:25	0.49	2.67	0.3	12
79	8/17/2020 13:45	0.33	0.25	0.33	1
80	8/26/2020 8:55	0.07	0.75	0.07	8.8
81	8/28/2020 8:20	4.03	21	2.03	1.9
82	9/2/2020 4:05	0.1	4.58	0.03	3.9
83	9/7/2020 6:20	3.63	7	1.22	4.9
84	9/13/2020 7:10	0.27	1.25	0.24	5.7
85	9/28/2020 16:20	1.69	7.25	0.93	15.3
86	9/30/2020 20:00	0.03	2	0.02	1.9
87	10/1/2020 13:05	0.85	18.42	0.26	0.6
88	10/4/2020 16:10	0.24	8.92	0.15	2.4
89	10/12/2020 22:20	0.77	3.92	0.62	7.9
90	10/15/2020 12:15	0.16	5.42	0.05	2.4
91	10/18/2020 12:35	0.05	1.33	0.04	2.8
92	10/19/2020 2:45	0.85	31.25	0.1	0.5
93	10/20/2020 23:40	1.45	8.5	0.41	0.6
94	10/22/2020 0:55	0.14	4.83	0.11	0.7
95	10/23/2020 16:55	0.81	8.17	0.5	1.5
96	10/26/2020 1:50	0.25	24.17	0.04	2
97	10/27/2020 14:35	0.32	16	0.06	0.5
98	10/29/2020 3:45	1.14	25.92	0.29	0.9
99	11/1/2020 7:40	0.09	7	0.08	2.1
100	11/11/2020 2:05	0.07	5.33	0.03	9.5
101	11/15/2020 0:20	0.25	22.5	0.08	3.7
102	11/17/2020 4:45	0.18	5.5	0.07	1.2
103	11/22/2020 7:15	0.63	11.75	0.14	4.9
104	11/23/2020 7:05	0.01	0.08	0.01	0.5
105	11/24/2020 16:50	0.01	0.08	0.01	1.4
106	11/25/2020 9:55	0.63	19.83	0.15	0.7
107	11/27/2020 20:05	0.02	0.33	0.02	1.6
108	11/30/2020 5:25	2.36	57.42	0.11	2.4
109	12/5/2020 14:10	0.08	2.17	0.05	3
110	12/12/2020 7:45	0.25	9.5	0.13	6.6
111	12/13/2020 5:30	0.03	5.83	0.01	0.5

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	12/16/2020 11:45	0.1	43	0.02	3
113	12/19/2020 18:25	0.17	11.67	0.06	1.5
114	12/21/2020 18:40	0.17	7.83	0.08	1.5
115	12/23/2020 18:45	0.36	37.92	0.05	1.7
116	12/26/2020 2:20	0.01	0.08	0.01	0.7
117	12/27/2020 22:40	0.11	3.75	0.06	1.8
118	12/28/2020 17:20	0.03	12.17	0.02	0.6
119	12/29/2020 23:50	0.01	0.08	0.01	0.8
120	12/30/2020 14:00	0.4	8.33	0.12	0.6

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:50	0.37	44.92	0.05	2.2
2	1/8/2020 7:30	0.01	0.08	0.01	3.2
3	1/10/2020 0:55	0.94	48.5	0.11	1.7
4	1/15/2020 18:05	0.06	1.17	0.05	3.7
5	1/16/2020 10:00	0.01	0.08	0.01	0.6
6	1/18/2020 1:40	0.52	25.83	0.13	1.6
7	1/19/2020 21:45	0.1	4.08	0.05	0.8
8	1/24/2020 7:45	0.47	40.92	0.09	4.2
9	1/26/2020 17:30	0.01	0.08	0.01	0.7
10	1/28/2020 15:30	0.01	0.08	0.01	1.9
11	2/1/2020 19:30	0.01	0.08	0.01	4.2
12	2/2/2020 12:40	0.01	0.08	0.01	0.7
13	2/4/2020 14:55	0.09	3.75	0.05	2.1
14	2/5/2020 19:15	0.22	3.92	0.1	1
15	2/6/2020 18:15	0.13	20.58	0.03	0.8
16	2/8/2020 15:55	0.02	0.67	0.02	1
17	2/9/2020 18:35	0.19	12.58	0.06	1.1
18	2/12/2020 19:40	0.32	22.17	0.07	2.5
19	2/17/2020 23:25	0.16	4.92	0.06	4.2
20	2/24/2020 20:05	0.19	4.83	0.08	6.7
21	2/25/2020 18:45	0.4	34.25	0.04	0.7
22	2/29/2020 0:40	0.04	3.08	0.02	1.8
23	3/2/2020 8:00	0.05	10.92	0.02	2.2
24	3/3/2020 7:35	0.29	11.17	0.14	0.5
25	3/4/2020 12:15	0.03	0.58	0.03	0.7
26	3/6/2020 7:00	0.05	6.17	0.02	1.8
27	3/10/2020 0:55	0.28	10.92	0.12	3.5
28	3/12/2020 23:20	0.28	2.17	0.21	2.5
29	3/16/2020 19:25	0.01	0.08	0.01	3.7
30	3/18/2020 15:10	1.09	8.67	0.28	1.8
31	3/19/2020 17:35	0.33	17.25	0.11	0.7
32	3/22/2020 20:05	0.17	15.17	0.06	2.4
33	3/26/2020 18:50	0.32	6.42	0.09	3.3
34	3/27/2020 22:40	3.13	35.5	0.83	0.9
35	3/30/2020 4:55	0.01	0.08	0.01	0.8
36	3/30/2020 17:50	0.02	0.25	0.02	0.5
37	4/1/2020 7:40	0.01	0.08	0.01	1.6
38	4/7/2020 6:10	1.13	22.67	0.53	5.9

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 4:45	0.25	9.08	0.08	1
40	4/12/2020 5:40	0.33	29.5	0.07	2.7
41	4/15/2020 14:40	0.22	11.75	0.06	2.1
42	4/17/2020 10:05	0.32	8.25	0.07	1.3
43	4/19/2020 20:40	0.03	0.5	0.03	2.1
44	4/21/2020 2:10	0.09	1.5	0.05	1.2
45	4/22/2020 18:25	0.1	2.08	0.05	1.6
46	4/23/2020 23:45	0.1	5.83	0.06	1.1
47	4/26/2020 0:35	0.52	12.75	0.17	1.8
48	4/27/2020 22:40	0.04	3.25	0.03	1.4
49	4/28/2020 18:50	0.24	3.33	0.14	0.7
50	4/29/2020 17:55	0.19	17.25	0.06	0.8
51	5/1/2020 5:45	0.04	2	0.03	0.8
52	5/2/2020 21:05	0.03	0.17	0.03	1.6
53	5/9/2020 4:50	0.01	0.08	0.01	6.3
54	5/10/2020 10:15	0.65	20.42	0.24	1.2
55	5/11/2020 19:05	0.01	0.08	0.01	0.5
56	5/14/2020 9:20	2.97	34.33	1.17	2.6
57	5/17/2020 16:05	0.66	2.42	0.53	1.9
58	5/18/2020 7:35	1.44	22.42	0.36	0.5
59	5/22/2020 2:45	0.45	9.92	0.23	2.9
60	5/28/2020 5:35	0.15	8.17	0.11	5.7
61	5/29/2020 13:00	0.4	3.67	0.2	1
62	6/1/2020 23:35	0.04	0.58	0.04	3.3
63	6/3/2020 6:45	0.01	0.08	0.01	1.3
64	6/10/2020 18:45	0.65	9.5	0.63	7.5
65	6/13/2020 0:05	0.05	0.17	0.05	1.8
66	6/18/2020 19:25	0.26	0.25	0.26	5.8
67	6/21/2020 15:20	0.64	21.42	0.2	2.8
68	6/23/2020 6:35	0.63	5	0.58	0.7
69	6/26/2020 22:15	0.61	6.5	0.33	3.4
70	6/27/2020 21:50	0.04	0.17	0.04	0.7
71	7/10/2020 18:10	0.93	15.67	0.33	12.8
72	7/19/2020 16:15	0.63	0.67	0.63	8.3
73	7/22/2020 2:30	0.24	3.58	0.14	2.4
74	7/23/2020 10:45	0.78	3.25	0.42	1.2
75	7/27/2020 14:00	1.44	12	0.67	4
76	7/29/2020 21:45	0.05	0.25	0.05	1.8

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/1/2020 10:35	0.77	29.42	0.47	2.5
78	8/3/2020 4:40	0.26	10.75	0.19	0.5
79	8/4/2020 6:35	0.16	19.75	0.13	0.6
80	8/16/2020 11:10	0.87	2.75	0.65	11.4
81	8/17/2020 12:55	0.03	0.08	0.03	1
82	8/26/2020 8:35	0.12	2.42	0.11	8.8
83	8/28/2020 8:00	2.88	21.33	1.07	1.9
84	9/2/2020 3:40	0.49	8.58	0.3	3.9
85	9/7/2020 6:05	3.67	6.83	1.17	4.7
86	9/13/2020 7:00	0.31	4.17	0.3	5.8
87	9/28/2020 15:50	1.74	8	0.72	15.2
88	9/30/2020 20:15	0.01	0.08	0.01	1.9
89	10/1/2020 12:50	0.76	18.58	0.22	0.7
90	10/4/2020 15:20	0.23	4.42	0.15	2.3
91	10/10/2020 19:55	0.02	0.58	0.02	6
92	10/12/2020 22:15	0.71	3.58	0.48	2.1
93	10/15/2020 12:10	0.19	4.67	0.07	2.4
94	10/18/2020 12:45	0.09	0.92	0.09	2.8
95	10/19/2020 2:55	0.97	31.83	0.14	0.6
96	10/20/2020 23:40	2.07	30.75	0.68	0.5
97	10/23/2020 17:40	0.53	7.42	0.28	1.5
98	10/26/2020 2:10	0.28	18.83	0.04	2
99	10/27/2020 14:45	0.32	23.42	0.06	0.7
100	10/29/2020 3:40	1.13	26.25	0.15	0.6
101	11/1/2020 7:30	0.15	13	0.08	2.1
102	11/11/2020 2:00	0.05	4.5	0.03	9.2
103	11/15/2020 0:05	0.32	13.25	0.1	3.7
104	11/17/2020 4:40	0.16	4.92	0.1	1.6
105	11/22/2020 7:15	0.73	11.58	0.16	4.9
106	11/23/2020 7:00	0.01	0.08	0.01	0.5
107	11/25/2020 10:30	0.48	22.25	0.11	2.1
108	11/27/2020 20:05	0.01	0.08	0.01	1.5
109	11/30/2020 2:55	2.46	40.83	0.13	2.3
110	12/5/2020 14:10	0.03	0.67	0.03	3.8
111	12/12/2020 7:45	0.29	9.42	0.21	6.7
112	12/13/2020 6:50	0.02	4.17	0.01	0.6
113	12/16/2020 13:20	0.1	45.67	0.02	3.1
114	12/19/2020 22:40	0.09	3.42	0.04	1.5

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/21/2020 20:30	0.11	5.75	0.06	1.8
116	12/23/2020 19:10	0.51	39.92	0.07	1.7
117	12/27/2020 22:20	0.09	4.67	0.04	2.5
118	12/28/2020 17:10	0.03	11.5	0.01	0.6
119	12/29/2020 23:45	0.02	0.33	0.02	0.8
120	12/30/2020 14:10	0.31	8.08	0.09	0.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:45	0.44	43.92	0.06	2.3
2	1/8/2020 7:15	0.03	0.67	0.03	3.2
3	1/10/2020 0:55	1.14	52.5	0.13	1.7
4	1/15/2020 18:15	0.06	1.25	0.05	3.5
5	1/16/2020 10:35	0.01	0.08	0.01	0.6
6	1/18/2020 1:50	0.83	23.58	0.19	1.6
7	1/19/2020 21:35	0.07	3.92	0.03	0.8
8	1/24/2020 7:30	0.62	40.92	0.09	4.3
9	1/26/2020 17:05	0.03	0.83	0.03	0.7
10	2/1/2020 18:30	0.04	11.17	0.02	6
11	2/4/2020 14:55	0.11	4.75	0.05	2.4
12	2/5/2020 19:10	0.26	4.08	0.12	1
13	2/6/2020 17:45	0.2	22.92	0.04	0.8
14	2/8/2020 16:10	0.03	0.75	0.03	1
15	2/9/2020 17:55	0.29	13.5	0.07	1
16	2/12/2020 19:50	0.43	32.5	0.09	2.5
17	2/17/2020 23:25	0.23	6.83	0.07	3.8
18	2/24/2020 19:40	0.2	6	0.07	6.6
19	2/25/2020 18:55	0.15	5.75	0.05	0.7
20	2/26/2020 13:35	0.34	13.25	0.06	0.5
21	2/27/2020 21:50	0.03	0.33	0.03	0.8
22	2/28/2020 23:45	0.04	4.17	0.01	1.1
23	3/2/2020 9:55	0.4	33.5	0.16	2.3
24	3/4/2020 13:55	0.01	0.08	0.01	0.8
25	3/6/2020 14:40	0.01	0.08	0.01	2
26	3/10/2020 1:00	0.27	10.5	0.11	3.4
27	3/12/2020 23:25	0.3	2.5	0.21	2.5
28	3/16/2020 19:25	0.02	0.5	0.02	3.7
29	3/18/2020 9:05	1.11	14.5	0.28	1.5
30	3/19/2020 17:45	0.34	17.08	0.14	0.8
31	3/21/2020 9:00	0.01	0.08	0.01	0.9
32	3/22/2020 20:05	0.2	15.17	0.07	1.5
33	3/26/2020 17:50	0.34	7.67	0.08	3.3
34	3/27/2020 22:45	3.29	35.5	0.93	0.9
35	3/30/2020 2:50	0.01	0.08	0.01	0.7
36	3/30/2020 17:15	0.03	0.83	0.03	0.6
37	4/1/2020 7:30	0.01	0.08	0.01	1.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/7/2020 6:25	1.66	18.58	0.96	6
39	4/9/2020 0:00	0.36	13.92	0.11	1
40	4/12/2020 5:35	0.42	29.83	0.07	2.7
41	4/15/2020 14:35	0.27	12.67	0.08	2.1
42	4/17/2020 10:10	0.43	8.33	0.09	1.3
43	4/19/2020 20:45	0.07	0.5	0.07	2.1
44	4/21/2020 1:30	0.12	2.42	0.06	1.2
45	4/22/2020 18:15	0.12	2.33	0.06	1.6
46	4/23/2020 20:55	0.1	5.33	0.06	1
47	4/26/2020 0:25	0.54	12.83	0.18	1.9
48	4/27/2020 22:35	0.04	3.5	0.03	1.4
49	4/28/2020 18:55	0.29	3.33	0.2	0.7
50	4/29/2020 17:30	0.25	23.42	0.09	0.8
51	5/1/2020 7:15	0.04	0.67	0.04	0.6
52	5/2/2020 19:55	0.01	0.08	0.01	1.5
53	5/9/2020 5:05	0.01	0.08	0.01	6.4
54	5/10/2020 10:20	0.73	20.5	0.24	1.2
55	5/11/2020 19:15	0.01	0.08	0.01	0.5
56	5/14/2020 9:25	2.59	40.25	0.97	2.6
57	5/17/2020 16:10	0.58	3.83	0.4	1.6
58	5/18/2020 8:00	1.34	21.83	0.4	0.5
59	5/22/2020 2:45	0.44	12.08	0.24	2.9
60	5/28/2020 5:15	0.14	3.25	0.11	5.6
61	5/29/2020 13:00	0.53	3.83	0.33	1.2
62	6/1/2020 23:40	0.05	0.75	0.05	3.3
63	6/3/2020 6:40	0.06	0.08	0.06	1.3
64	6/10/2020 18:45	0.86	9.58	0.84	7.5
65	6/13/2020 0:05	0.12	0.42	0.12	1.8
66	6/18/2020 19:30	0.04	0.25	0.04	5.8
67	6/21/2020 15:30	0.55	21.08	0.18	2.8
68	6/23/2020 6:10	0.63	5.33	0.59	0.7
69	6/26/2020 22:20	0.86	6.42	0.36	3.5
70	6/27/2020 21:50	0.04	0.17	0.04	0.7
71	7/10/2020 18:10	1.21	15.75	0.43	12.8
72	7/16/2020 14:55	0.01	0.08	0.01	5.2
73	7/19/2020 16:15	0.72	0.75	0.72	3.1
74	7/20/2020 8:45	0.01	0.08	0.01	0.7

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/22/2020 2:35	0.25	3.67	0.15	1.7
76	7/22/2020 21:35	0.02	0.08	0.02	0.6
77	7/23/2020 10:35	1.08	3.5	0.88	0.5
78	7/27/2020 13:45	1.42	12.33	0.57	4
79	7/29/2020 21:45	0.14	2.33	0.13	1.8
80	8/1/2020 10:45	1	29.25	0.49	2.4
81	8/3/2020 12:30	0.2	2.92	0.15	0.9
82	8/4/2020 6:10	0.48	17.67	0.44	0.6
83	8/16/2020 11:15	0.74	2.67	0.64	11.5
84	8/17/2020 13:00	0.08	1.25	0.07	1
85	8/26/2020 8:45	0.22	2.75	0.19	8.8
86	8/28/2020 8:05	3.48	21.17	1.31	1.9
87	9/2/2020 3:15	0.61	9.17	0.36	3.9
88	9/7/2020 6:10	4.55	6.92	1.32	4.7
89	9/13/2020 7:00	0.33	1	0.33	5.7
90	9/28/2020 15:50	1.95	7.67	0.91	15.3
91	9/30/2020 15:55	0.02	4.42	0.01	1.7
92	10/1/2020 12:50	0.95	15	0.29	0.7
93	10/2/2020 23:40	0.02	12.08	0.01	0.8
94	10/4/2020 15:30	0.24	4.83	0.15	1.2
95	10/10/2020 19:45	0.05	1	0.05	6
96	10/12/2020 22:15	0.67	3.5	0.43	2.1
97	10/15/2020 12:00	0.2	5.75	0.06	2.4
98	10/18/2020 12:30	0.08	1.17	0.07	2.8
99	10/19/2020 2:45	1	32	0.13	0.5
100	10/20/2020 23:35	2.3	8.33	0.84	0.5
101	10/22/2020 0:55	0.07	4	0.04	0.7
102	10/23/2020 17:15	0.53	7.83	0.26	1.5
103	10/26/2020 2:05	0.33	18.67	0.06	2
104	10/27/2020 14:50	0.32	14.75	0.07	0.8
105	10/29/2020 2:50	1.13	34.17	0.18	0.9
106	11/1/2020 7:20	0.14	13.17	0.09	1.8
107	11/11/2020 2:00	0.06	5.08	0.04	9.2
108	11/15/2020 0:10	0.37	13.25	0.11	3.7
109	11/17/2020 4:25	0.27	6.33	0.15	1.6
110	11/22/2020 7:10	0.84	11.83	0.17	4.9
111	11/23/2020 7:40	0.02	0.67	0.02	0.5

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	11/24/2020 16:50	0.02	0.5	0.02	1.4
113	11/25/2020 10:45	0.57	20	0.13	0.7
114	11/27/2020 19:55	0.02	1.08	0.01	1.5
115	11/30/2020 5:00	2.67	38.83	0.16	2.3
116	12/5/2020 14:05	0.02	0.25	0.02	3.8
117	12/7/2020 17:10	0.01	0.08	0.01	2.1
118	12/12/2020 7:50	0.35	8.67	0.26	4.6
119	12/13/2020 5:30	0.02	5.08	0.01	0.5
120	12/16/2020 12:00	0.17	47.17	0.03	3.1
121	12/19/2020 22:30	0.1	2.67	0.05	1.5
122	12/20/2020 16:20	0.01	0.08	0.01	0.6
123	12/21/2020 18:40	0.11	7.58	0.06	1.1
124	12/23/2020 19:15	0.72	41.58	0.08	1.7
125	12/26/2020 2:05	0.02	0.67	0.02	0.6
126	12/27/2020 22:20	0.15	4.17	0.06	1.8
127	12/28/2020 16:55	0.03	3.08	0.02	0.6
128	12/29/2020 23:45	0.03	0.33	0.03	1.2
129	12/30/2020 13:45	0.37	8.5	0.1	0.6

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:40	0.25	35.25	0.04	2.3
2	1/9/2020 23:40	0.81	52.42	0.12	5.2
3	1/15/2020 18:05	0.04	0.92	0.04	3.6
4	1/18/2020 8:50	0.6	7.58	0.28	2.6
5	1/20/2020 11:55	0.01	0.08	0.01	1.8
6	1/24/2020 7:30	0.31	41	0.06	3.8
7	1/26/2020 17:30	0.01	0.08	0.01	0.7
8	2/1/2020 18:45	0.02	1.83	0.01	6
9	2/4/2020 15:20	0.07	3.25	0.04	2.8
10	2/8/2020 10:55	0.22	3	0.16	3.7
11	2/9/2020 9:35	0.26	21.25	0.1	0.8
12	2/16/2020 2:20	0.07	2.5	0.03	5.8
13	2/17/2020 23:10	0.14	4.25	0.05	1.8
14	2/24/2020 20:15	0.2	4.33	0.08	6.7
15	2/25/2020 18:50	0.26	21.92	0.06	0.8
16	3/2/2020 10:20	0.05	7.67	0.02	4.7
17	3/3/2020 10:45	0.21	7.58	0.09	0.7
18	3/4/2020 12:00	0.03	1.42	0.02	0.7
19	3/6/2020 11:30	0.01	0.08	0.01	1.9
20	3/10/2020 0:55	0.16	10.33	0.08	3.6
21	3/12/2020 23:20	0.26	1.58	0.17	2.5
22	3/16/2020 18:55	0.02	0.5	0.02	3.8
23	3/18/2020 14:50	0.94	14	0.19	1.8
24	3/19/2020 18:10	0.27	12.67	0.17	0.6
25	3/22/2020 19:55	0.19	14.08	0.08	2.5
26	3/26/2020 17:30	0.31	7.25	0.07	3.3
27	3/27/2020 22:25	2.15	27.5	0.52	0.9
28	3/30/2020 2:20	0.01	0.08	0.01	1
29	4/1/2020 7:25	0.01	0.08	0.01	2.2
30	4/7/2020 6:30	0.96	19.42	0.44	6
31	4/8/2020 23:45	0.18	8	0.06	0.9
32	4/12/2020 23:20	0.22	11.67	0.08	3.6
33	4/15/2020 14:55	0.08	1.42	0.07	2.2
34	4/16/2020 8:25	0.03	1.25	0.02	0.7
35	4/17/2020 13:45	0.38	7	0.09	1.2
36	4/19/2020 20:50	0.01	0.08	0.01	2
37	4/21/2020 1:45	0.07	7.83	0.04	1.2
38	4/22/2020 18:25	0.09	2	0.05	1.4

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/24/2020 0:00	0.06	2	0.04	1.1
40	4/26/2020 0:40	0.51	8.75	0.15	1.9
41	4/27/2020 22:25	0.02	0.58	0.02	1.5
42	4/28/2020 18:30	0.1	3.33	0.05	0.8
43	4/29/2020 20:55	0.09	13.83	0.04	1
44	5/2/2020 19:55	0.05	0.17	0.05	2.4
45	5/10/2020 16:55	0.51	13.25	0.19	7.9
46	5/14/2020 9:00	1.68	32.92	0.46	3.1
47	5/17/2020 15:45	0.31	2.58	0.17	1.9
48	5/18/2020 7:25	1.7	22.5	0.43	0.5
49	5/22/2020 2:35	0.41	9.83	0.18	2.9
50	5/28/2020 7:00	0.1	1.17	0.09	5.8
51	5/29/2020 13:55	0.38	2.33	0.24	1.2
52	6/1/2020 23:15	0.03	0.42	0.03	3.3
53	6/3/2020 6:15	0.01	0.08	0.01	1.3
54	6/10/2020 18:25	0.34	0.75	0.34	7.5
55	6/12/2020 23:40	0.02	0.17	0.02	2.2
56	6/18/2020 19:20	0.17	0.25	0.17	5.8
57	6/21/2020 21:50	0.37	15.17	0.15	3.1
58	6/23/2020 6:05	0.84	5	0.74	0.7
59	6/26/2020 21:55	0.95	6.33	0.5	3.5
60	6/27/2020 21:20	0.01	0.08	0.01	0.7
61	7/10/2020 15:05	1.04	16.67	0.39	12.7
62	7/19/2020 12:20	0.22	4.25	0.12	8.2
63	7/22/2020 2:20	0.22	2.25	0.18	2.4
64	7/23/2020 9:35	0.61	5.58	0.59	1.2
65	7/27/2020 13:10	1.03	12.33	0.46	3.9
66	7/29/2020 21:20	0.16	0.17	0.16	1.8
67	8/1/2020 10:45	0.51	28.67	0.17	2.6
68	8/3/2020 13:25	0.12	1.5	0.09	0.9
69	8/4/2020 6:00	0.07	14.92	0.05	0.6
70	8/16/2020 10:45	0.61	2.42	0.48	11.6
71	8/17/2020 12:25	0.38	1.67	0.29	1
72	8/26/2020 8:10	0.25	2.83	0.23	8.8
73	8/28/2020 7:45	1.77	21.58	0.54	1.9
74	9/2/2020 3:00	0.28	8.67	0.2	3.9
75	9/7/2020 5:35	2.97	6.92	1.19	4.7
76	9/13/2020 7:00	0.28	0.83	0.28	5.8

Lakewood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/28/2020 15:45	1.22	5.67	0.51	15.3
78	9/30/2020 18:40	0.03	1.33	0.02	1.9
79	10/1/2020 13:35	0.45	12.92	0.19	0.7
80	10/2/2020 22:35	0.03	1.17	0.02	0.8
81	10/4/2020 14:35	0.19	2.75	0.12	1.6
82	10/10/2020 19:15	0.01	0.08	0.01	6.1
83	10/12/2020 21:50	0.5	4.17	0.41	2.1
84	10/15/2020 12:05	0.12	4.75	0.05	2.4
85	10/18/2020 12:55	0.08	0.5	0.08	2.8
86	10/19/2020 2:20	0.95	31.33	0.18	0.5
87	10/20/2020 23:20	2.05	10.75	0.85	0.6
88	10/22/2020 1:35	0.32	3	0.16	0.6
89	10/23/2020 17:10	0.84	7.42	0.47	1.5
90	10/26/2020 2:55	0.19	17.33	0.03	2.1
91	10/27/2020 14:40	0.24	13.83	0.06	0.8
92	10/29/2020 3:50	0.6	24.75	0.11	1
93	11/1/2020 7:00	0.1	5.42	0.08	2.1
94	11/11/2020 1:35	0.03	0.83	0.03	9.5
95	11/14/2020 23:50	0.33	13.75	0.09	3.9
96	11/17/2020 4:50	0.08	1.33	0.07	1.6
97	11/22/2020 7:05	0.71	11.33	0.14	5
98	11/24/2020 16:30	0.02	0.25	0.02	1.9
99	11/25/2020 10:20	0.41	18.42	0.13	0.7
100	11/30/2020 4:55	0.73	21.58	0.08	4
101	12/1/2020 19:35	0.14	2.33	0.11	0.7
102	12/5/2020 14:00	0.02	0.25	0.02	3.7
103	12/12/2020 8:00	0.15	7.83	0.1	6.7
104	12/13/2020 5:00	0.03	4.5	0.01	0.5
105	12/17/2020 10:20	0.04	0.5	0.04	4
106	12/19/2020 12:40	0.23	12.08	0.11	2.1
107	12/20/2020 14:40	0.02	0.67	0.02	0.6
108	12/21/2020 18:05	0.08	7	0.06	1.1
109	12/23/2020 18:40	0.02	0.17	0.02	1.7
110	12/24/2020 8:20	0.03	0.83	0.03	0.6
111	12/27/2020 10:50	0.11	15.08	0.05	3.1
112	12/30/2020 4:55	0.29	16.67	0.07	2.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.66	47.58	0.08	2.2
2	1/8/2020 7:55	0.02	2.25	0.01	3.2
3	1/10/2020 0:45	1.1	53.67	0.1	1.6
4	1/15/2020 17:55	0.16	18.83	0.13	3.5
5	1/18/2020 1:45	0.95	15.92	0.23	1.5
6	1/19/2020 22:05	0.08	19	0.02	1.2
7	1/24/2020 8:45	0.65	38.58	0.13	3.7
8	1/26/2020 18:30	0.01	0.08	0.01	0.8
9	1/28/2020 11:35	0.01	0.08	0.01	1.7
10	2/1/2020 18:35	0.05	11.25	0.02	4.3
11	2/4/2020 14:45	0.23	4.75	0.09	2.4
12	2/5/2020 20:30	0.58	44.83	0.13	1
13	2/9/2020 17:05	0.32	16	0.07	2
14	2/12/2020 19:25	0.5	31.08	0.11	2.4
15	2/17/2020 23:15	0.39	8.08	0.09	3.9
16	2/24/2020 20:40	0.19	4.5	0.06	6.6
17	2/25/2020 17:40	0.41	33.33	0.05	0.7
18	2/29/2020 2:25	0.01	0.08	0.01	2
19	3/2/2020 7:00	0.38	35.83	0.15	2.2
20	3/4/2020 12:35	0.04	1.83	0.03	0.7
21	3/6/2020 7:35	0.17	15.75	0.05	1.7
22	3/10/2020 1:55	0.39	11.42	0.08	3.1
23	3/12/2020 23:40	0.41	3.5	0.27	2.4
24	3/16/2020 18:20	0.07	12.67	0.03	3.6
25	3/18/2020 14:55	1.48	8.25	0.37	1.3
26	3/19/2020 17:30	0.19	14.75	0.06	0.8
27	3/22/2020 20:15	0.16	12.5	0.07	2.5
28	3/25/2020 2:40	0.04	7.75	0.02	1.7
29	3/26/2020 18:55	0.21	6.92	0.07	1.4
30	3/27/2020 22:25	2.66	28.08	1.1	0.9
31	3/30/2020 3:10	0.1	16.5	0.05	1
32	4/1/2020 0:45	0.08	8.17	0.05	1.2
33	4/7/2020 6:15	0.25	3.17	0.15	5.9
34	4/7/2020 22:40	0.82	2.58	0.53	0.6
35	4/9/2020 3:25	0.29	19.08	0.12	1.1
36	4/12/2020 5:50	0.01	0.08	0.01	2.3
37	4/12/2020 20:50	0.54	14.92	0.1	0.6
38	4/15/2020 14:50	0.22	11.17	0.07	2.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:15	0.41	8.58	0.08	1.3
40	4/19/2020 17:20	0.04	5.17	0.03	1.9
41	4/21/2020 2:25	0.11	1.83	0.07	1.2
42	4/22/2020 18:30	0.15	4.83	0.08	1.6
43	4/23/2020 20:40	0.12	9.58	0.05	0.9
44	4/26/2020 0:00	0.66	14.17	0.13	1.7
45	4/27/2020 22:55	0.05	3.75	0.03	1.4
46	4/28/2020 21:45	0.4	59.42	0.07	0.8
47	5/2/2020 19:50	0.01	0.08	0.01	1.4
48	5/9/2020 6:10	0.01	0.08	0.01	6.4
49	5/10/2020 17:25	0.44	14.58	0.16	1.5
50	5/14/2020 9:30	2.9	36.42	1.19	3.1
51	5/17/2020 15:40	1.41	38.42	0.51	1.7
52	5/22/2020 2:20	0.44	9.67	0.22	2.8
53	5/25/2020 16:15	0.51	14.17	0.4	3.2
54	5/28/2020 3:50	0.28	9.83	0.18	1.9
55	5/29/2020 8:45	0.49	17.08	0.35	0.8
56	6/1/2020 23:55	0.06	3	0.05	2.9
57	6/4/2020 14:25	0.12	0.67	0.12	2.5
58	6/10/2020 19:20	0.4	9.25	0.38	6.2
59	6/13/2020 0:20	0.06	0.75	0.06	1.8
60	6/18/2020 19:50	0.01	0.08	0.01	5.8
61	6/19/2020 12:35	0.81	4.67	0.72	0.7
62	6/21/2020 16:00	1.56	20.75	0.69	1.9
63	6/23/2020 2:35	0.42	9.83	0.33	0.6
64	6/26/2020 22:35	0.38	6.5	0.25	3.4
65	6/27/2020 22:50	0.01	0.08	0.01	0.7
66	7/7/2020 12:10	1.39	2.08	1.08	9.6
67	7/10/2020 14:00	0.67	20.25	0.19	3
68	7/19/2020 13:05	0.61	4.33	0.55	8.1
69	7/20/2020 6:45	0.01	0.08	0.01	0.6
70	7/22/2020 2:10	0.12	3.17	0.05	1.8
71	7/27/2020 12:55	1.2	21.08	0.6	5.3
72	8/1/2020 9:30	0.48	30	0.15	4
73	8/3/2020 8:10	0.45	29.83	0.23	0.7
74	8/16/2020 11:55	0.25	1.5	0.19	11.9
75	8/17/2020 13:50	0.61	1.08	0.6	1
76	8/23/2020 16:35	0.23	6.25	0.22	6.1

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/26/2020 9:00	0.08	1.83	0.07	2.4
78	8/27/2020 21:10	3.81	33.58	1.46	1.4
79	9/2/2020 3:25	0.38	7.08	0.3	3.9
80	9/3/2020 5:20	0.01	0.08	0.01	0.8
81	9/7/2020 6:45	3.05	9.33	1.21	4.1
82	9/8/2020 8:50	0.01	0.08	0.01	0.7
83	9/13/2020 7:25	0.12	1.08	0.11	4.9
84	9/28/2020 16:40	1.45	15.58	0.57	15.3
85	9/30/2020 16:10	0.04	4.92	0.02	1.3
86	10/1/2020 14:35	0.44	17.33	0.24	0.7
87	10/4/2020 16:50	0.27	13.83	0.15	2.4
88	10/12/2020 22:40	0.52	3.67	0.42	7.7
89	10/15/2020 12:40	0.11	7.75	0.03	2.4
90	10/17/2020 22:00	0.01	0.08	0.01	2.1
91	10/18/2020 12:25	0.98	44.08	0.12	0.6
92	10/21/2020 0:20	0.43	12	0.15	0.7
93	10/23/2020 17:15	0.45	9.58	0.22	2.2
94	10/26/2020 2:50	0.48	52.5	0.04	2
95	10/29/2020 3:10	1.62	33.17	0.23	0.8
96	11/1/2020 7:45	0.14	16.42	0.1	1.8
97	11/11/2020 0:30	0.28	7.08	0.12	9
98	11/15/2020 0:10	0.33	20.5	0.15	3.7
99	11/17/2020 4:50	0.35	6.58	0.17	1.3
100	11/22/2020 7:15	0.71	13.75	0.26	4.8
101	11/24/2020 16:50	0.04	0.33	0.04	1.8
102	11/25/2020 10:25	0.71	19.33	0.2	0.7
103	11/27/2020 20:15	0.02	0.75	0.02	1.6
104	11/30/2020 5:05	2.22	40.25	0.17	2.3
105	12/5/2020 15:00	0.02	1	0.02	3.7
106	12/12/2020 7:55	0.1	4.5	0.06	6.7
107	12/13/2020 6:00	0.04	3.08	0.02	0.7
108	12/16/2020 11:25	0.2	48.17	0.03	3.1
109	12/19/2020 21:50	0.17	4.08	0.06	1.4
110	12/21/2020 16:35	0.17	10.5	0.07	1.6
111	12/23/2020 18:45	0.66	39.33	0.1	1.7
112	12/26/2020 2:15	0.02	1.5	0.01	0.7
113	12/27/2020 23:20	0.05	3.33	0.03	1.8
114	12/28/2020 18:10	0.02	11.75	0.01	0.6

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/29/2020 23:55	0.01	0.08	0.01	0.8
116	12/30/2020 13:55	0.4	9	0.1	0.6

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:45	0.6	46.17	0.06	2.2
2	1/8/2020 7:25	0.03	0.83	0.03	3.2
3	1/10/2020 0:55	1.14	51.67	0.12	1.7
4	1/15/2020 18:05	0.11	2.75	0.1	3.6
5	1/16/2020 13:15	0.01	0.08	0.01	0.7
6	1/18/2020 1:55	0.69	14.67	0.17	1.5
7	1/19/2020 21:55	0.07	18.08	0.02	1.2
8	1/24/2020 9:55	0.47	32.83	0.1	3.7
9	1/26/2020 9:30	0.03	14.67	0.01	0.6
10	1/28/2020 21:40	0.01	0.08	0.01	1.9
11	2/1/2020 19:05	0.03	10.67	0.01	3.9
12	2/4/2020 14:55	0.14	4.58	0.06	2.4
13	2/5/2020 20:20	0.55	47.58	0.1	1
14	2/8/2020 13:30	0.01	0.08	0.01	0.7
15	2/9/2020 18:15	0.27	13.75	0.06	1.2
16	2/12/2020 19:45	0.38	23.08	0.11	2.5
17	2/17/2020 23:30	0.28	5.42	0.08	4.2
18	2/24/2020 20:40	0.18	4.33	0.06	6.7
19	2/25/2020 17:55	0.19	6.75	0.08	0.7
20	2/26/2020 13:40	0.24	13.08	0.04	0.5
21	2/27/2020 22:05	0.01	0.08	0.01	0.8
22	2/29/2020 0:05	0.03	2.92	0.02	1.1
23	3/2/2020 9:55	0.09	9.58	0.03	2.3
24	3/3/2020 11:25	0.3	7.5	0.13	0.7
25	3/4/2020 12:15	0.06	0.92	0.06	0.7
26	3/5/2020 9:50	0.01	0.08	0.01	0.9
27	3/6/2020 8:05	0.11	11.92	0.04	0.9
28	3/10/2020 1:30	0.29	11.42	0.09	3.2
29	3/13/2020 0:05	0.27	1.5	0.23	2.5
30	3/16/2020 18:15	0.04	1.83	0.02	3.7
31	3/18/2020 15:00	1.42	12	0.41	1.8
32	3/19/2020 17:40	0.33	17.33	0.15	0.6
33	3/22/2020 20:00	0.2	13.17	0.07	2.4
34	3/26/2020 17:55	0.31	7.42	0.08	3.4
35	3/27/2020 22:40	3.39	35.92	1.6	0.9
36	3/30/2020 16:30	0.04	4.67	0.02	1.2
37	4/1/2020 3:45	0.03	4.08	0.02	1.3
38	4/7/2020 7:00	1.13	18.08	0.5	6

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 5:00	0.27	11.92	0.09	1.2
40	4/12/2020 5:30	0.5	29.92	0.15	2.5
41	4/15/2020 14:45	0.19	12.17	0.06	2.1
42	4/17/2020 10:30	0.36	8.17	0.07	1.3
43	4/19/2020 17:10	0.02	3.92	0.01	1.9
44	4/21/2020 2:15	0.13	1.67	0.08	1.2
45	4/22/2020 18:30	0.1	2.08	0.05	1.6
46	4/23/2020 21:05	0.15	7.92	0.07	1
47	4/26/2020 0:20	0.64	13.92	0.13	1.8
48	4/27/2020 22:45	0.03	2.42	0.02	1.4
49	4/28/2020 19:10	0.25	3.08	0.23	0.8
50	4/29/2020 19:40	0.35	37.17	0.09	0.9
51	5/2/2020 21:15	0.02	0.17	0.02	1.5
52	5/9/2020 4:35	0.02	0.5	0.02	6.3
53	5/10/2020 10:50	0.54	33.83	0.15	1.2
54	5/14/2020 9:30	2.78	33	0.85	2.5
55	5/17/2020 8:20	0.58	10.08	0.5	1.6
56	5/18/2020 7:50	0.82	23.58	0.2	0.6
57	5/22/2020 2:40	0.46	9.75	0.2	2.8
58	5/25/2020 15:55	0.09	3	0.07	3.1
59	5/28/2020 4:10	0.21	9.75	0.14	2.4
60	5/29/2020 12:20	0.39	11.25	0.3	0.9
61	6/1/2020 23:40	0.05	3.08	0.03	3
62	6/3/2020 6:45	0.03	0.17	0.03	1.2
63	6/10/2020 19:20	0.35	1.83	0.34	7.5
64	6/13/2020 0:10	0.07	0.25	0.07	2.1
65	6/21/2020 14:10	0.54	22.67	0.3	8.6
66	6/23/2020 6:25	0.61	5.5	0.52	0.7
67	6/26/2020 22:25	1.37	6.5	0.88	3.4
68	6/27/2020 22:15	0.01	0.08	0.01	0.7
69	7/11/2020 0:15	1.75	10	0.57	13.1
70	7/16/2020 4:40	0.04	11	0.03	4.8
71	7/19/2020 16:25	0.36	3.5	0.34	3
72	7/22/2020 2:25	0.43	6.83	0.25	2.3
73	7/23/2020 11:10	0.32	2	0.28	1.1
74	7/25/2020 5:30	0.01	0.08	0.01	1.7
75	7/27/2020 14:15	1.76	15.42	0.87	2.4
76	7/29/2020 22:00	0.02	0.33	0.02	1.7

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/1/2020 11:40	0.65	36.67	0.38	2.6
78	8/3/2020 13:00	0.86	36.5	0.39	0.5
79	8/16/2020 11:40	0.32	2.33	0.28	11.4
80	8/17/2020 5:05	0.04	9.17	0.03	0.6
81	8/23/2020 14:20	0.06	0.08	0.06	6
82	8/26/2020 9:15	0.16	2.42	0.11	2.8
83	8/28/2020 5:45	3.36	23.75	1.53	1.8
84	9/2/2020 3:40	0.22	6.92	0.08	3.9
85	9/7/2020 6:15	3.74	7.08	1.35	4.8
86	9/10/2020 6:20	0.01	0.08	0.01	2.7
87	9/13/2020 7:15	0.32	1	0.32	3
88	9/15/2020 5:05	0.01	0.08	0.01	1.9
89	9/28/2020 16:40	1.7	7.42	0.91	13.5
90	9/30/2020 16:00	0.02	4.33	0.01	1.7
91	10/1/2020 13:15	0.44	16.75	0.11	0.7
92	10/4/2020 15:40	0.28	14.67	0.17	2.4
93	10/10/2020 19:55	0.06	0.83	0.06	5.6
94	10/12/2020 22:30	0.69	4.08	0.52	2.1
95	10/15/2020 12:10	0.11	5	0.04	2.4
96	10/18/2020 12:45	0.9	44.75	0.09	2.8
97	10/20/2020 23:45	1.72	12.25	0.52	0.6
98	10/22/2020 0:45	0.14	6.33	0.07	0.5
99	10/23/2020 17:00	0.81	8.58	0.51	1.4
100	10/26/2020 2:05	0.25	23.83	0.04	2
101	10/27/2020 14:50	0.3	16.08	0.06	0.5
102	10/29/2020 3:20	1.05	34.08	0.12	0.9
103	11/1/2020 7:40	0.15	11.92	0.1	1.8
104	11/11/2020 0:50	0.1	6.75	0.05	9.2
105	11/15/2020 0:15	0.31	13.25	0.09	3.7
106	11/17/2020 4:50	0.22	7	0.08	1.6
107	11/22/2020 7:10	0.68	24.5	0.14	4.8
108	11/24/2020 17:05	0.01	0.08	0.01	1.4
109	11/25/2020 10:45	0.62	18.75	0.18	0.7
110	11/27/2020 20:00	0.03	0.75	0.03	1.6
111	11/30/2020 5:20	2.88	38.5	0.16	2.4
112	12/5/2020 14:10	0.01	0.08	0.01	3.8
113	12/12/2020 7:50	0.27	28	0.1	6.7
114	12/16/2020 11:50	0.02	6.33	0.01	3

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2020 7:25	0.04	15.5	0.02	0.6
116	12/18/2020 11:15	0.03	1.67	0.02	0.5
117	12/19/2020 22:20	0.12	3.67	0.05	1.4
118	12/21/2020 18:45	0.11	14.5	0.05	1.7
119	12/23/2020 19:50	0.55	39	0.09	1.4
120	12/27/2020 22:55	0.11	3.75	0.06	2.5
121	12/28/2020 20:20	0.01	0.08	0.01	0.7
122	12/30/2020 14:00	0.34	8.42	0.1	1.7

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:35	0.45	44.5	0.07	2.3
2	1/8/2020 7:10	0.03	0.92	0.03	3.2
3	1/10/2020 0:10	1.04	52.08	0.11	1.7
4	1/15/2020 18:10	0.07	3.5	0.06	3.6
5	1/18/2020 1:50	0.69	23.17	0.17	2.2
6	1/19/2020 21:15	0.04	4	0.03	0.8
7	1/24/2020 7:55	0.58	40.67	0.1	4.3
8	1/26/2020 17:10	0.03	0.67	0.03	0.7
9	1/27/2020 10:00	0.01	0.08	0.01	0.7
10	1/30/2020 15:25	0.01	0.08	0.01	3.2
11	2/1/2020 19:15	0.03	10.33	0.01	2.2
12	2/4/2020 15:00	0.07	2.92	0.04	2.4
13	2/5/2020 18:45	0.23	4.42	0.11	1
14	2/6/2020 11:40	0.16	27.58	0.04	0.5
15	2/8/2020 16:20	0.02	0.25	0.02	1
16	2/9/2020 17:50	0.24	13.33	0.06	1.1
17	2/12/2020 19:50	0.39	30.58	0.08	2.5
18	2/17/2020 23:30	0.2	6.08	0.06	3.9
19	2/24/2020 20:40	0.18	4.25	0.07	6.6
20	2/25/2020 19:10	0.42	30.33	0.06	0.8
21	2/27/2020 15:05	0.03	6.83	0.01	0.6
22	3/2/2020 8:00	0.39	34.75	0.16	3.4
23	3/4/2020 12:00	0.05	1.75	0.04	0.7
24	3/6/2020 8:30	0.07	4.92	0.03	1.8
25	3/7/2020 3:30	0.01	0.08	0.01	0.6
26	3/10/2020 1:05	0.24	10.67	0.11	2.9
27	3/12/2020 23:40	0.28	2.58	0.17	2.5
28	3/16/2020 18:20	0.03	1.58	0.02	3.7
29	3/18/2020 15:00	0.97	8.75	0.21	1.8
30	3/19/2020 17:40	0.54	17.08	0.39	0.7
31	3/22/2020 20:00	0.21	15.08	0.08	2.4
32	3/26/2020 17:50	0.33	7.33	0.08	3.3
33	3/27/2020 22:50	2.45	35.33	0.7	0.9
34	3/30/2020 2:35	0.02	0.58	0.02	0.7
35	3/30/2020 17:30	0.01	0.08	0.01	0.6
36	4/1/2020 7:40	0.01	0.08	0.01	1.6
37	4/7/2020 6:50	1.1	18.08	0.57	6
38	4/9/2020 0:00	0.32	20.75	0.09	1

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 5:40	0.01	0.08	0.01	2.4
40	4/12/2020 22:45	0.3	12.42	0.06	0.7
41	4/15/2020 15:00	0.25	14.25	0.07	2.2
42	4/17/2020 10:20	0.35	8.08	0.07	1.2
43	4/21/2020 0:25	0.13	3.25	0.08	3.3
44	4/22/2020 18:35	0.12	6.08	0.06	1.6
45	4/23/2020 21:55	0.08	4.75	0.05	0.9
46	4/26/2020 0:45	0.52	23.75	0.15	1.9
47	4/27/2020 22:50	0.04	3.33	0.02	0.9
48	4/28/2020 18:55	0.13	3.33	0.07	0.7
49	4/29/2020 17:25	0.25	18.42	0.09	0.8
50	5/1/2020 7:10	0.02	0.25	0.02	0.8
51	5/2/2020 19:50	0.09	1.5	0.08	1.5
52	5/10/2020 13:20	0.62	17.25	0.21	7.7
53	5/14/2020 9:30	2.13	32.92	0.64	3.1
54	5/17/2020 16:15	0.61	2.42	0.47	1.9
55	5/18/2020 7:55	1.23	21.08	0.33	0.6
56	5/22/2020 2:40	0.41	11	0.19	2.9
57	5/25/2020 16:30	0.03	0.17	0.03	3.1
58	5/28/2020 5:30	0.13	3	0.11	2.5
59	5/29/2020 13:05	0.54	3.58	0.35	1.2
60	6/1/2020 23:25	0.05	2.92	0.04	3.3
61	6/3/2020 6:40	0.01	0.08	0.01	1.2
62	6/10/2020 18:50	0.7	9.5	0.67	7.5
63	6/18/2020 15:00	0.08	2.83	0.07	7.4
64	6/21/2020 15:35	0.36	21.92	0.1	2.9
65	6/23/2020 6:30	0.76	5.58	0.71	0.7
66	6/26/2020 22:25	1.28	6.5	0.76	3.4
67	6/27/2020 21:50	0.07	4.67	0.06	0.7
68	7/10/2020 20:30	1.73	13.42	0.62	12.8
69	7/16/2020 13:55	0.07	1.58	0.06	5.2
70	7/19/2020 16:30	0.3	0.5	0.3	3
71	7/22/2020 2:40	0.2	2.83	0.13	2.4
72	7/23/2020 10:20	0.74	5.42	0.68	1.2
73	7/27/2020 12:55	1.38	13	0.45	3.9
74	7/29/2020 21:45	0.04	0.25	0.04	1.8
75	8/1/2020 10:55	0.58	30.08	0.32	2.5
76	8/3/2020 13:45	0.12	1.83	0.07	0.9

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 6:00	0.37	15.5	0.21	0.6
78	8/16/2020 11:15	0.69	2.83	0.6	11.6
79	8/17/2020 13:05	0.11	1.17	0.1	1
80	8/24/2020 16:35	0.01	0.08	0.01	7.1
81	8/26/2020 9:20	0.24	2.17	0.16	1.7
82	8/28/2020 8:05	2.36	21.17	0.74	1.9
83	9/2/2020 3:15	0.43	9	0.31	3.9
84	9/7/2020 6:05	3.72	7	1.46	4.7
85	9/13/2020 6:40	0.44	6.17	0.36	5.7
86	9/28/2020 15:55	1.54	15.25	0.58	15.1
87	9/30/2020 19:05	0.04	1.17	0.03	1.5
88	10/1/2020 12:55	0.57	16.67	0.23	0.7
89	10/2/2020 23:15	0.02	0.58	0.02	0.7
90	10/4/2020 15:20	0.24	3.33	0.15	1.6
91	10/10/2020 19:35	0.04	1.08	0.03	6
92	10/12/2020 22:20	0.64	3.5	0.43	2.1
93	10/15/2020 12:15	0.18	4.75	0.06	2.4
94	10/18/2020 13:20	0.07	0.42	0.07	2.8
95	10/19/2020 2:45	0.92	31.75	0.1	0.5
96	10/20/2020 23:45	2.57	8.33	0.95	0.6
97	10/22/2020 1:35	0.28	3.42	0.18	0.7
98	10/23/2020 17:15	0.48	7.75	0.2	1.5
99	10/26/2020 2:10	0.37	23.75	0.07	2
100	10/27/2020 14:55	0.29	13.33	0.05	0.5
101	10/29/2020 3:00	0.88	33.92	0.11	0.9
102	11/1/2020 7:25	0.12	5.67	0.09	1.8
103	11/11/2020 2:05	0.04	5.5	0.02	9.5
104	11/15/2020 0:20	0.35	13.08	0.12	3.7
105	11/17/2020 5:15	0.14	10.92	0.07	1.7
106	11/22/2020 7:30	0.72	11.33	0.14	4.6
107	11/23/2020 9:05	0.01	0.08	0.01	0.6
108	11/24/2020 17:00	0.02	0.33	0.02	1.3
109	11/25/2020 10:40	0.51	20.33	0.11	0.7
110	11/30/2020 4:45	2.48	38.75	0.13	3.9
111	12/5/2020 14:15	0.01	0.08	0.01	3.8
112	12/12/2020 7:50	0.34	8.67	0.25	6.7
113	12/13/2020 5:35	0.03	4.92	0.01	0.5
114	12/16/2020 13:25	0.16	47.33	0.02	3.1

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 19:25	0.1	5.5	0.05	1.3
116	12/20/2020 15:05	0.02	0.92	0.02	0.6
117	12/21/2020 18:40	0.09	7.92	0.05	1.1
118	12/23/2020 19:10	0.91	55.33	0.09	1.7
119	12/27/2020 22:20	0.14	4.08	0.07	1.8
120	12/28/2020 17:55	0.01	0.08	0.01	0.6
121	12/29/2020 23:50	0.02	0.25	0.02	1.2
122	12/30/2020 13:35	0.32	8	0.1	0.6

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 7:15	0.46	35.83	0.06	2.3
2	1/8/2020 0:55	0.06	6.25	0.04	3.2
3	1/10/2020 0:25	1.35	52.83	0.14	1.7
4	1/15/2020 18:20	0.1	3.5	0.06	3.5
5	1/16/2020 12:00	0.08	1.42	0.07	0.6
6	1/18/2020 2:05	0.88	24.17	0.18	1.5
7	1/19/2020 19:05	0.1	15.42	0.05	0.7
8	1/22/2020 14:50	0.01	0.08	0.01	2.2
9	1/24/2020 10:05	0.66	38.75	0.11	1.8
10	1/26/2020 16:25	0.21	21.42	0.04	0.6
11	1/28/2020 19:55	0.02	1.67	0.01	1.3
12	2/1/2020 18:15	0.12	12.33	0.04	3.9
13	2/4/2020 15:10	0.09	4.83	0.05	2.4
14	2/5/2020 19:40	0.27	3.5	0.14	1
15	2/6/2020 11:15	0.45	36.92	0.15	0.5
16	2/8/2020 16:25	0.02	1.08	0.01	0.7
17	2/9/2020 17:55	0.42	13.5	0.1	1
18	2/12/2020 19:55	0.41	23.08	0.09	2.5
19	2/17/2020 23:40	0.27	6.58	0.07	4.2
20	2/24/2020 21:15	0.3	27.58	0.07	6.6
21	2/26/2020 13:50	0.4	39.08	0.05	0.5
22	2/28/2020 22:00	0.02	3.5	0.01	0.7
23	3/2/2020 10:05	0.63	33	0.16	2.4
24	3/4/2020 12:25	0.08	1.75	0.05	0.7
25	3/6/2020 8:40	0.06	8.5	0.02	1.8
26	3/10/2020 1:30	0.37	10.33	0.17	3.3
27	3/12/2020 23:40	0.28	2.92	0.18	2.5
28	3/16/2020 18:10	0.07	13.25	0.03	3.6
29	3/18/2020 15:35	1	9.58	0.25	1.3
30	3/19/2020 17:50	0.43	13.33	0.29	0.7
31	3/22/2020 21:10	0.19	12.42	0.08	2.6
32	3/26/2020 18:00	0.37	7	0.08	3.4
33	3/27/2020 23:15	2.52	35.5	1.03	0.9
34	3/30/2020 2:40	0.17	14.58	0.1	0.7
35	4/1/2020 6:15	0.03	1.5	0.02	1.5
36	4/7/2020 8:50	0.68	17	0.34	6
37	4/9/2020 0:10	0.31	8.17	0.11	0.9

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/10/2020 3:10	0.05	1	0.05	0.8
39	4/12/2020 5:50	0.03	0.75	0.03	2.1
40	4/12/2020 21:25	0.63	13.83	0.22	0.6
41	4/15/2020 2:10	0.23	26.5	0.06	1.6
42	4/17/2020 10:30	0.32	8.17	0.07	1.2
43	4/21/2020 2:15	0.15	1.5	0.1	3.3
44	4/22/2020 17:20	0.06	7.58	0.02	1.6
45	4/23/2020 15:55	0.1	10.58	0.04	0.6
46	4/26/2020 0:30	0.59	18.67	0.08	1.9
47	4/27/2020 22:50	0.06	6.08	0.03	1.2
48	4/28/2020 20:20	0.4	41.17	0.08	0.6
49	5/1/2020 6:55	0.09	4.92	0.04	0.7
50	5/2/2020 19:35	0.02	2.08	0.01	1.3
51	5/10/2020 10:40	0.91	21.67	0.27	7.5
52	5/11/2020 20:50	0.02	0.25	0.02	0.5
53	5/14/2020 10:15	2.26	41.58	0.38	2.5
54	5/17/2020 16:30	0.76	2.33	0.6	1.5
55	5/18/2020 8:20	0.33	23	0.07	0.6
56	5/22/2020 4:30	0.34	8.25	0.2	2.9
57	5/25/2020 15:05	0.05	2.5	0.04	3.1
58	5/28/2020 5:45	0.19	8.5	0.13	2.5
59	5/29/2020 13:15	0.44	13.83	0.24	1
60	6/2/2020 0:30	0.04	2.67	0.03	2.9
61	6/3/2020 6:50	0.02	0.17	0.02	1.2
62	6/10/2020 19:30	0.26	4.17	0.25	7.5
63	6/18/2020 19:50	0.19	1.92	0.18	7.8
64	6/19/2020 12:50	0.06	0.67	0.06	0.6
65	6/21/2020 23:25	0.33	14.58	0.23	2.4
66	6/23/2020 6:30	0.51	5.67	0.38	0.7
67	6/26/2020 22:40	1.33	6.08	0.78	3.4
68	6/27/2020 22:00	0.38	5.75	0.37	0.7
69	7/9/2020 16:15	0.17	4.5	0.16	11.5
70	7/10/2020 14:30	2.19	19.58	0.81	0.7
71	7/16/2020 15:30	0.05	0.42	0.05	5.2
72	7/19/2020 16:35	0.16	0.67	0.16	3
73	7/22/2020 3:00	0.21	3.5	0.11	2.4
74	7/23/2020 10:05	0.5	1.5	0.48	1.1

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/25/2020 5:50	0.01	0.08	0.01	1.8
76	7/27/2020 11:20	0.59	15.33	0.24	2.2
77	7/29/2020 19:45	0.03	0.08	0.03	1.7
78	8/1/2020 12:35	0.65	28.5	0.17	2.7
79	8/3/2020 13:20	1.15	3.17	0.94	0.8
80	8/4/2020 6:40	0.31	22.25	0.23	0.6
81	8/16/2020 11:50	0.15	2.75	0.11	11.3
82	8/26/2020 9:25	0.53	2.17	0.44	9.8
83	8/28/2020 7:15	3.2	22.33	1.19	1.8
84	8/29/2020 20:25	0.01	0.08	0.01	0.6
85	9/2/2020 3:20	0.73	9.33	0.59	3.3
86	9/7/2020 6:00	2.61	7.17	0.86	4.7
87	9/10/2020 11:25	0.01	0.08	0.01	2.9
88	9/13/2020 7:25	0.45	1	0.45	2.8
89	9/28/2020 16:55	1.78	12.17	0.89	15.4
90	9/30/2020 19:15	0.06	1.42	0.05	1.6
91	10/1/2020 12:55	0.54	15.33	0.2	0.7
92	10/2/2020 20:55	0.18	3.42	0.1	0.7
93	10/4/2020 15:40	0.28	5.67	0.14	1.6
94	10/10/2020 18:55	0.07	1.42	0.06	5.9
95	10/12/2020 22:50	0.69	4.92	0.39	2.1
96	10/15/2020 12:15	0.33	15	0.09	2.4
97	10/18/2020 13:40	0.09	0.67	0.09	2.4
98	10/19/2020 2:50	0.97	31.83	0.13	0.5
99	10/20/2020 23:55	2.32	12.08	0.91	0.6
100	10/22/2020 1:05	0.32	5.5	0.2	0.5
101	10/23/2020 17:20	0.46	8.58	0.15	1.4
102	10/26/2020 2:15	0.25	24.17	0.04	2
103	10/27/2020 14:55	0.28	16.58	0.06	0.5
104	10/29/2020 4:00	1.11	33	0.16	0.9
105	11/1/2020 7:40	0.21	18.08	0.1	1.8
106	11/11/2020 0:40	0.21	6.92	0.07	9
107	11/15/2020 0:20	0.4	13.25	0.12	3.7
108	11/16/2020 23:45	0.11	12.92	0.04	1.4
109	11/22/2020 7:20	0.73	28	0.13	4.8
110	11/24/2020 17:10	0.03	1.08	0.02	1.2
111	11/25/2020 10:45	0.87	29.83	0.2	0.7

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	11/27/2020 23:35	0.01	0.08	0.01	1.3
113	11/30/2020 5:35	3.22	40.42	0.17	2.2
114	12/5/2020 12:05	0.03	0.25	0.03	3.6
115	12/6/2020 3:30	0.01	0.08	0.01	0.6
116	12/7/2020 16:45	0.01	0.08	0.01	1.5
117	12/12/2020 8:00	0.36	26.25	0.13	4.6
118	12/17/2020 9:40	0.08	8.83	0.05	4
119	12/18/2020 9:05	0.06	6.25	0.02	0.6
120	12/19/2020 17:55	0.29	23.25	0.05	1.1
121	12/21/2020 17:10	0.19	16.25	0.08	1
122	12/23/2020 7:10	0.01	0.08	0.01	0.9
123	12/23/2020 19:55	0.51	37.25	0.05	0.5
124	12/27/2020 22:50	0.12	4	0.04	2.6
125	12/28/2020 20:45	0.06	10.58	0.03	0.7
126	12/29/2020 23:45	0.03	1	0.03	0.7
127	12/30/2020 14:20	0.37	8.08	0.11	0.6

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:50	0.55	44.75	0.06	2.2
2	1/8/2020 0:55	0.08	7.58	0.05	2.9
3	1/10/2020 0:50	1.25	52.42	0.11	1.7
4	1/15/2020 18:10	0.11	3.75	0.08	3.5
5	1/16/2020 11:10	0.01	0.08	0.01	0.6
6	1/18/2020 1:55	0.89	25.08	0.21	1.6
7	1/19/2020 19:45	0.17	15.33	0.04	0.7
8	1/24/2020 8:25	0.63	41.17	0.11	3.9
9	1/26/2020 16:50	0.2	21.08	0.04	0.6
10	1/28/2020 16:20	0.02	5.25	0.01	1.1
11	1/31/2020 12:40	0.01	0.08	0.01	2.6
12	2/1/2020 18:25	0.1	11.83	0.03	1.2
13	2/4/2020 14:55	0.16	5	0.06	2.4
14	2/5/2020 20:30	0.62	49.25	0.1	1
15	2/8/2020 13:45	0.01	0.08	0.01	0.7
16	2/9/2020 18:00	0.36	14.08	0.07	1.2
17	2/12/2020 19:30	0.47	31.42	0.1	2.5
18	2/17/2020 23:30	0.31	6.42	0.07	3.9
19	2/24/2020 20:55	0.17	4.33	0.06	6.6
20	2/25/2020 17:50	0.83	56.67	0.1	0.7
21	2/28/2020 23:10	0.12	5.08	0.05	0.9
22	3/2/2020 7:15	0.56	35.75	0.19	2.1
23	3/4/2020 12:10	0.09	2	0.06	0.7
24	3/6/2020 8:25	0.16	14.92	0.05	1.8
25	3/10/2020 2:15	0.4	10.5	0.12	3.1
26	3/12/2020 23:50	0.34	2.67	0.25	2.5
27	3/16/2020 18:10	0.07	13.25	0.03	3.7
28	3/18/2020 15:25	1.19	10.92	0.29	1.3
29	3/19/2020 17:45	0.32	17.42	0.12	0.6
30	3/22/2020 20:45	0.2	12.08	0.07	2.4
31	3/25/2020 3:40	0.01	0.08	0.01	1.8
32	3/26/2020 17:55	0.31	7.42	0.08	1.6
33	3/27/2020 22:50	2.82	27.75	1.36	0.9
34	3/30/2020 3:15	0.13	15.17	0.06	1
35	4/1/2020 3:10	0.09	5	0.06	1.4
36	4/7/2020 8:15	1.65	17.42	1.15	6
37	4/9/2020 5:15	0.33	21.58	0.1	1.1
38	4/12/2020 5:40	0.02	0.33	0.02	2.1

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:10	0.63	14.42	0.16	0.6
40	4/15/2020 14:40	0.35	14.17	0.13	2.1
41	4/17/2020 10:05	0.43	8.5	0.08	1.2
42	4/19/2020 16:50	0.03	4.58	0.02	1.9
43	4/21/2020 1:55	0.16	2	0.08	1.2
44	4/22/2020 17:10	0.13	6.58	0.05	1.6
45	4/23/2020 21:50	0.14	6.75	0.08	0.9
46	4/26/2020 0:10	0.7	19.08	0.14	1.8
47	4/27/2020 22:55	0.05	3.25	0.03	1.2
48	4/28/2020 19:20	0.5	42	0.18	0.7
49	5/1/2020 7:15	0.04	1.83	0.03	0.7
50	5/2/2020 20:05	0.07	1.67	0.05	1.5
51	5/9/2020 5:00	0.05	0.92	0.05	6.3
52	5/10/2020 10:45	0.57	26.58	0.2	1.2
53	5/14/2020 9:40	2.13	33.83	0.57	2.8
54	5/17/2020 8:20	0.99	46.67	0.45	1.5
55	5/22/2020 3:20	0.42	9.17	0.17	2.8
56	5/25/2020 17:45	0.09	2.25	0.05	3.2
57	5/28/2020 4:05	0.2	9.92	0.14	2.3
58	5/29/2020 12:25	0.39	11.17	0.27	0.9
59	6/1/2020 23:50	0.05	2.75	0.04	3
60	6/3/2020 6:50	0.08	0.17	0.08	1.2
61	6/4/2020 14:45	0.01	0.08	0.01	1.3
62	6/10/2020 19:25	0.54	1.08	0.53	6.2
63	6/21/2020 22:25	0.62	14.83	0.34	11.1
64	6/23/2020 6:25	0.62	5.92	0.51	0.7
65	6/26/2020 22:40	1.03	6.33	0.49	3.4
66	7/7/2020 13:05	0.02	0.33	0.02	10.3
67	7/9/2020 19:25	0.7	0.75	0.7	2.3
68	7/10/2020 11:20	2.48	23.25	0.87	0.6
69	7/16/2020 14:50	0.07	1	0.07	5.2
70	7/19/2020 16:35	0.41	3.5	0.4	3
71	7/22/2020 2:30	0.51	3.33	0.28	2.3
72	7/23/2020 11:35	0.13	0.83	0.13	1.2
73	7/27/2020 14:30	1.02	12.75	0.46	4.1
74	7/29/2020 22:05	0.15	6.08	0.14	1.8
75	8/1/2020 12:00	0.48	28.67	0.13	2.3
76	8/3/2020 14:35	0.2	2.17	0.11	0.9

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 6:50	0.37	18.25	0.22	0.6
78	8/16/2020 11:55	0.18	1.5	0.16	11.5
79	8/17/2020 3:00	0.01	0.08	0.01	0.6
80	8/24/2020 17:40	0.25	0.25	0.25	7.6
81	8/26/2020 8:55	0.45	2.83	0.35	1.6
82	8/27/2020 14:05	3.99	41.75	1.1	1.1
83	9/2/2020 3:45	0.15	6.75	0.07	3.8
84	9/7/2020 6:25	3.6	6.92	1.29	4.8
85	9/11/2020 5:50	0.01	0.08	0.01	3.7
86	9/12/2020 16:30	0.07	0.08	0.07	1.4
87	9/13/2020 6:00	0.47	2.5	0.45	0.6
88	9/28/2020 16:50	1.6	8.75	0.65	15.3
89	9/30/2020 16:00	0.02	4.42	0.01	1.6
90	10/1/2020 12:40	0.59	19.33	0.25	0.7
91	10/4/2020 16:30	0.26	4.83	0.16	2.4
92	10/10/2020 20:05	0.03	1.25	0.02	5.9
93	10/12/2020 22:50	0.47	4.75	0.27	2.1
94	10/15/2020 12:30	0.22	15.17	0.08	2.4
95	10/18/2020 13:40	0.02	0.25	0.02	2.4
96	10/19/2020 2:50	0.86	30.92	0.09	0.5
97	10/21/2020 0:05	1.12	12.25	0.36	0.6
98	10/22/2020 0:50	0.12	5.33	0.09	0.5
99	10/23/2020 17:15	1.14	8.33	0.85	1.5
100	10/26/2020 2:25	0.18	23.75	0.02	2
101	10/27/2020 14:45	0.29	15.92	0.05	0.5
102	10/29/2020 3:10	1.06	29.25	0.13	0.9
103	11/1/2020 7:40	0.22	21.08	0.08	2
104	11/11/2020 0:35	0.23	7.33	0.06	8.8
105	11/15/2020 0:25	0.37	17.42	0.18	3.7
106	11/17/2020 4:25	0.25	12.58	0.07	1.4
107	11/22/2020 7:15	0.67	24.58	0.22	4.6
108	11/24/2020 17:05	0.01	0.08	0.01	1.4
109	11/25/2020 10:05	0.72	26.33	0.16	0.7
110	11/27/2020 20:05	0.03	0.58	0.03	1.3
111	11/30/2020 5:15	3.53	40.08	0.16	2.4
112	12/5/2020 12:30	0.02	2.58	0.01	3.6
113	12/12/2020 7:50	0.23	27.42	0.06	6.7
114	12/16/2020 11:45	0.16	48.33	0.02	3

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 18:45	0.21	7.5	0.06	1.3
116	12/21/2020 17:00	0.19	16.5	0.1	1.6
117	12/23/2020 22:40	0.97	52.75	0.11	1.5
118	12/27/2020 23:15	0.13	32.5	0.04	1.8
119	12/30/2020 14:10	0.39	8.75	0.13	1.3

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.33	44.42	0.05	2.3
2	1/9/2020 23:45	1.28	53.58	0.14	4.9
3	1/15/2020 17:55	0.04	9	0.03	3.5
4	1/18/2020 1:25	0.69	15.17	0.15	1.9
5	1/19/2020 22:40	0.02	1.33	0.01	1.3
6	1/24/2020 6:30	0.44	37.5	0.08	4.3
7	1/26/2020 17:35	0.01	0.08	0.01	0.9
8	2/1/2020 18:55	0.03	1.67	0.02	6.1
9	2/4/2020 14:40	0.11	12.25	0.06	2.8
10	2/5/2020 18:50	0.41	43.33	0.11	0.7
11	2/8/2020 15:50	0.02	0.5	0.02	1.1
12	2/9/2020 17:55	0.27	13.08	0.07	1.1
13	2/12/2020 19:45	0.35	21.67	0.08	2.5
14	2/17/2020 23:05	0.18	6.42	0.06	4.2
15	2/24/2020 19:20	0.23	5.33	0.09	6.6
16	2/25/2020 18:45	0.38	31.67	0.06	0.8
17	2/29/2020 1:35	0.02	1.08	0.01	2
18	3/2/2020 7:15	0.39	35.25	0.1	2.2
19	3/4/2020 11:55	0.03	0.67	0.03	0.7
20	3/6/2020 8:40	0.05	3.83	0.02	1.8
21	3/10/2020 0:40	0.28	10.83	0.1	3.5
22	3/12/2020 23:05	0.29	2	0.19	2.5
23	3/14/2020 20:40	0.01	0.08	0.01	1.8
24	3/16/2020 19:05	0.03	1.25	0.02	1.9
25	3/18/2020 14:45	1.08	7.17	0.22	1.8
26	3/19/2020 17:20	0.42	17.25	0.2	0.8
27	3/22/2020 19:40	0.24	15	0.09	2.4
28	3/26/2020 18:40	0.33	6.58	0.1	3.3
29	3/27/2020 22:00	2.78	28.67	0.59	0.9
30	3/30/2020 2:40	0.03	2.17	0.02	1
31	3/30/2020 17:40	0.03	0.5	0.03	0.5
32	4/7/2020 5:45	1.68	19.58	0.99	7.5
33	4/9/2020 4:40	0.29	9.42	0.12	1.1
34	4/12/2020 5:25	0.01	0.08	0.01	2.6
35	4/12/2020 22:15	0.41	12.83	0.11	0.7
36	4/15/2020 14:15	0.2	11.17	0.06	2.1
37	4/17/2020 9:55	0.42	8.5	0.08	1.4
38	4/19/2020 20:15	0.03	0.17	0.03	2.1

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2020 2:00	0.1	1.5	0.06	1.2
40	4/22/2020 18:25	0.08	2.17	0.06	1.6
41	4/23/2020 20:40	0.09	5.33	0.06	1
42	4/25/2020 22:20	0.75	19.17	0.2	1.8
43	4/27/2020 22:15	0.05	4.08	0.03	1.2
44	4/28/2020 18:25	0.27	3.42	0.18	0.7
45	4/29/2020 16:40	0.27	23.67	0.11	0.8
46	5/1/2020 6:00	0.01	0.08	0.01	0.6
47	5/2/2020 20:50	0.05	0.33	0.05	1.6
48	5/8/2020 16:50	0.04	12.67	0.02	5.8
49	5/10/2020 15:30	0.54	19.83	0.18	1.4
50	5/14/2020 9:00	3.31	43.75	1.42	2.9
51	5/17/2020 12:15	0.86	5	0.74	1.3
52	5/18/2020 7:15	1.85	28.33	0.42	0.6
53	5/21/2020 23:15	0.52	13.25	0.2	2.5
54	5/23/2020 6:30	0.01	0.08	0.01	0.8
55	5/28/2020 5:05	0.09	8.83	0.05	4.9
56	5/29/2020 12:50	0.5	3.67	0.32	1
57	6/1/2020 23:10	0.07	1.58	0.05	3.3
58	6/3/2020 7:20	0.01	0.08	0.01	1.3
59	6/10/2020 18:30	0.3	0.83	0.3	7.5
60	6/12/2020 23:50	0.07	2.92	0.06	2.2
61	6/18/2020 20:00	0.06	2.42	0.05	5.7
62	6/21/2020 21:45	0.27	13.75	0.12	3
63	6/23/2020 6:15	0.55	4.92	0.49	0.8
64	6/26/2020 22:10	0.46	6.33	0.3	3.5
65	6/27/2020 21:40	0.05	0.17	0.05	0.7
66	7/10/2020 19:50	0.95	13.92	0.38	12.9
67	7/19/2020 16:00	0.26	0.83	0.26	8.3
68	7/22/2020 2:15	0.28	3.5	0.2	2.4
69	7/23/2020 10:50	0.9	3	0.48	1.2
70	7/27/2020 13:35	1.3	11.33	0.95	4
71	7/29/2020 21:45	0.01	0.08	0.01	1.9
72	8/1/2020 10:55	1.06	30.08	0.26	2.5
73	8/3/2020 13:15	0.36	1.58	0.35	0.8
74	8/4/2020 9:05	0.05	0.58	0.05	0.8
75	8/4/2020 22:40	0.16	5.08	0.14	0.5
76	8/15/2020 14:50	0.03	0.17	0.03	10.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 10:50	1.33	2.83	0.95	0.8
78	8/17/2020 13:25	0.05	3	0.04	1
79	8/26/2020 6:40	0.17	4.25	0.14	8.6
80	8/28/2020 7:45	2.97	22.17	1.29	1.9
81	9/2/2020 3:05	0.42	8.75	0.32	3.9
82	9/7/2020 6:05	3.52	6.83	1.12	4.8
83	9/8/2020 11:20	0.01	0.08	0.01	0.9
84	9/13/2020 6:35	0.3	1.83	0.27	4.8
85	9/28/2020 16:05	1.28	7.92	0.77	15.3
86	9/30/2020 19:55	0.01	0.08	0.01	1.8
87	10/1/2020 12:25	0.66	18.25	0.18	0.7
88	10/4/2020 14:25	0.2	2.92	0.13	2.3
89	10/10/2020 19:25	0.02	1.08	0.01	6.1
90	10/12/2020 22:00	0.52	2.08	0.39	2.1
91	10/15/2020 12:00	0.19	5.25	0.07	2.5
92	10/18/2020 13:00	0.1	0.83	0.1	2.8
93	10/19/2020 2:30	1	31.83	0.17	0.5
94	10/20/2020 23:25	2.07	11.17	0.65	0.5
95	10/22/2020 1:35	0.16	2.58	0.09	0.6
96	10/23/2020 17:15	0.51	6.75	0.27	1.5
97	10/26/2020 1:45	0.21	18.5	0.05	2.1
98	10/27/2020 14:30	0.26	15.58	0.05	0.8
99	10/29/2020 3:05	1.02	31.08	0.1	0.9
100	11/1/2020 7:20	0.1	12.42	0.07	1.9
101	11/11/2020 1:45	0.08	5.25	0.05	9.3
102	11/14/2020 23:40	0.36	14.75	0.09	3.7
103	11/17/2020 4:30	0.11	5	0.05	1.6
104	11/22/2020 7:30	0.66	11	0.13	4.9
105	11/23/2020 6:45	0.01	0.08	0.01	0.5
106	11/24/2020 16:40	0.01	0.08	0.01	1.4
107	11/25/2020 10:15	0.51	19	0.13	0.7
108	11/27/2020 19:45	0.01	0.08	0.01	1.6
109	11/30/2020 4:30	2.62	45.67	0.13	2.4
110	12/7/2020 6:15	0.02	0.33	0.02	5.2
111	12/12/2020 7:35	0.15	8.58	0.08	5
112	12/13/2020 4:35	0.1	3.42	0.04	0.5
113	12/14/2020 8:30	0.01	0.08	0.01	1
114	12/16/2020 19:30	0.02	6.75	0.01	2.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2020 17:10	0.09	16.08	0.03	0.6
116	12/19/2020 17:15	0.14	22.33	0.06	1.3
117	12/21/2020 16:05	0.16	9.75	0.07	1
118	12/23/2020 18:45	0.47	39.5	0.06	1.7
119	12/26/2020 2:15	0.01	0.08	0.01	0.7
120	12/27/2020 22:15	0.05	3.83	0.03	1.8
121	12/28/2020 17:30	0.01	0.08	0.01	0.6
122	12/29/2020 23:20	0.04	0.67	0.04	1.2
123	12/30/2020 12:55	0.38	9.58	0.09	0.5

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 5:25	0.01	0.08	0.01	0.2
2	1/3/2020 4:30	0.52	39	0.06	2
3	1/10/2020 0:35	1.25	48.75	0.11	5.2
4	1/15/2020 17:45	0.1	2.17	0.09	3.7
5	1/16/2020 15:40	0.01	0.08	0.01	0.8
6	1/18/2020 1:30	0.73	15.58	0.18	1.4
7	1/19/2020 22:25	0.12	8.75	0.03	1.2
8	1/24/2020 7:15	0.76	37.92	0.1	4
9	1/27/2020 1:55	0.02	5.08	0.01	1.2
10	1/28/2020 15:50	0.01	0.08	0.01	1.4
11	2/1/2020 19:15	0.03	2.5	0.01	4.1
12	2/4/2020 14:45	0.21	6.67	0.08	2.7
13	2/5/2020 9:40	0.62	58	0.11	0.5
14	2/9/2020 17:15	0.32	17.17	0.09	1.9
15	2/12/2020 18:55	0.41	31.33	0.12	2.4
16	2/17/2020 19:55	0.32	9.17	0.07	3.7
17	2/24/2020 20:20	0.2	4.58	0.06	6.6
18	2/25/2020 16:50	0.21	7.83	0.1	0.7
19	2/26/2020 13:40	0.23	12.92	0.04	0.5
20	2/29/2020 2:10	0.03	5	0.01	2
21	3/2/2020 9:50	0.41	32.83	0.13	2.1
22	3/4/2020 12:25	0.02	0.67	0.02	0.7
23	3/6/2020 8:45	0.21	16.42	0.04	1.8
24	3/10/2020 1:05	0.35	10.75	0.08	3
25	3/12/2020 23:45	0.36	2.58	0.25	2.5
26	3/16/2020 18:20	0.02	1.17	0.01	3.7
27	3/18/2020 14:50	1.28	7.08	0.28	1.8
28	3/19/2020 17:20	0.39	14.58	0.28	0.8
29	3/22/2020 19:30	0.2	15.83	0.06	2.5
30	3/26/2020 18:45	0.2	6.75	0.07	3.3
31	3/27/2020 21:00	2.82	29.42	0.85	0.8
32	3/30/2020 6:15	0.1	12.83	0.07	1.2
33	4/1/2020 8:00	0.02	1.33	0.01	1.5
34	4/7/2020 6:10	0.24	2.58	0.14	5.9
35	4/7/2020 22:30	0.85	2.83	0.47	0.6
36	4/9/2020 3:05	0.4	25.83	0.16	1.1
37	4/12/2020 5:45	0.01	0.08	0.01	2
38	4/12/2020 22:15	0.47	13.5	0.11	0.7

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 15:15	0.16	10.75	0.07	2.1
40	4/17/2020 10:05	0.35	8.58	0.07	1.3
41	4/19/2020 17:15	0.01	0.08	0.01	1.9
42	4/21/2020 2:25	0.04	1.17	0.03	1.4
43	4/22/2020 18:30	0.07	1.83	0.05	1.6
44	4/23/2020 15:25	0.15	13.33	0.06	0.8
45	4/26/2020 0:15	0.72	14	0.14	1.8
46	4/27/2020 22:35	0.06	4.67	0.03	1.3
47	4/28/2020 21:20	0.05	1.67	0.04	0.8
48	4/29/2020 17:35	0.34	24.92	0.08	0.8
49	5/1/2020 6:45	0.05	1.92	0.03	0.5
50	5/2/2020 19:35	0.01	0.08	0.01	1.5
51	5/9/2020 5:05	0.01	0.08	0.01	6.4
52	5/10/2020 17:15	0.47	13.33	0.23	1.5
53	5/11/2020 20:55	0.01	0.08	0.01	0.6
54	5/14/2020 9:15	2.26	34.17	0.83	2.5
55	5/17/2020 7:50	0.39	10.08	0.28	1.5
56	5/18/2020 7:40	1.6	22.58	0.5	0.6
57	5/22/2020 2:45	0.45	13.42	0.16	2.9
58	5/28/2020 3:30	0.25	10	0.13	5.5
59	5/29/2020 12:05	0.35	11.08	0.21	0.9
60	6/2/2020 0:55	0.01	0.08	0.01	3.1
61	6/4/2020 14:10	0.04	0.42	0.04	2.5
62	6/10/2020 18:45	0.38	9.58	0.36	6.2
63	6/13/2020 0:10	0.07	0.33	0.07	1.8
64	6/21/2020 22:35	0.44	13.75	0.15	8.9
65	6/23/2020 6:20	0.43	5.33	0.37	0.8
66	6/27/2020 1:55	0.26	3.08	0.2	3.6
67	6/27/2020 22:25	0.01	0.08	0.01	0.7
68	7/7/2020 12:35	0.05	0.17	0.05	9.6
69	7/10/2020 22:50	0.6	10.75	0.23	3.4
70	7/19/2020 16:30	0.66	0.92	0.66	8.3
71	7/22/2020 2:00	0.44	3.08	0.2	2.4
72	7/22/2020 21:25	0.04	1.25	0.03	0.7
73	7/23/2020 13:40	0.03	0.58	0.03	0.6
74	7/24/2020 6:45	0.01	0.08	0.01	0.7
75	7/27/2020 14:15	1.44	11.67	0.59	3.3
76	8/1/2020 11:05	1.31	28.5	0.85	4.4

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 3:35	1.22	12.83	1.06	0.5
78	8/4/2020 7:00	0.43	10.83	0.3	0.6
79	8/16/2020 11:30	0.4	2.75	0.3	11.7
80	8/17/2020 13:25	0.18	0.92	0.18	1
81	8/18/2020 5:40	0.01	0.08	0.01	0.6
82	8/23/2020 16:40	0.16	0.58	0.16	5.5
83	8/26/2020 8:35	0.08	2.58	0.07	2.6
84	8/27/2020 15:00	0.05	0.33	0.05	1.2
85	8/28/2020 9:05	2.21	20.25	0.78	0.7
86	9/2/2020 4:05	0.23	8.17	0.13	3.9
87	9/7/2020 6:30	4.46	9.67	1.52	4.8
88	9/13/2020 7:05	0.28	1.58	0.22	5.6
89	9/28/2020 16:10	1.97	13	1.05	15.3
90	9/30/2020 15:50	0.03	4.92	0.02	1.4
91	10/1/2020 13:15	0.83	17.83	0.29	0.7
92	10/4/2020 16:05	0.25	11.83	0.16	2.4
93	10/10/2020 20:40	0.01	0.08	0.01	5.7
94	10/12/2020 22:10	0.73	3.58	0.56	2.1
95	10/15/2020 12:20	0.17	5.58	0.05	2.4
96	10/18/2020 12:35	0.03	0.92	0.03	2.8
97	10/19/2020 2:25	0.79	30.17	0.1	0.5
98	10/20/2020 23:45	1	12.58	0.33	0.6
99	10/23/2020 16:45	0.55	8.67	0.2	2.2
100	10/26/2020 2:10	0.23	23.92	0.04	2
101	10/27/2020 14:50	0.3	16.33	0.04	0.5
102	10/29/2020 3:15	1.58	32.75	0.23	0.8
103	11/1/2020 7:35	0.12	12.92	0.09	1.8
104	11/11/2020 0:25	0.17	7.42	0.06	9.2
105	11/15/2020 0:10	0.27	13.83	0.09	3.7
106	11/17/2020 4:40	0.13	5.33	0.04	1.6
107	11/22/2020 7:05	0.68	11.92	0.17	4.9
108	11/24/2020 16:45	0.02	0.25	0.02	1.9
109	11/25/2020 10:10	0.72	25.08	0.19	0.7
110	11/30/2020 5:10	2.69	60.17	0.15	3.7
111	12/3/2020 12:05	0.02	1.08	0.01	0.8
112	12/5/2020 14:05	0.09	1.5	0.06	2
113	12/12/2020 7:35	0.17	9.58	0.08	6.7
114	12/13/2020 5:50	0.06	3	0.04	0.5

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 11:15	0.15	48.08	0.03	3.1
116	12/19/2020 22:10	0.1	3.17	0.04	1.5
117	12/21/2020 16:35	0.17	10.83	0.09	1.6
118	12/23/2020 19:35	0.54	54.92	0.06	1.7
119	12/27/2020 22:40	0.09	3.67	0.05	1.8
120	12/28/2020 18:10	0.01	0.08	0.01	0.7
121	12/29/2020 23:30	0.02	0.33	0.02	1.2
122	12/30/2020 14:00	0.45	8.25	0.13	0.6

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2020 10:05	0.09	2.17	0.04	0.4
2	1/3/2020 4:45	0.62	46.33	0.06	1.7
3	1/8/2020 1:05	0.01	0.08	0.01	2.9
4	1/9/2020 13:15	0.8	60.25	0.09	1.5
5	1/15/2020 18:00	0.15	4.42	0.13	3.7
6	1/18/2020 1:25	0.82	15.75	0.19	2.1
7	1/19/2020 20:50	0.14	19.58	0.03	1.2
8	1/24/2020 9:25	0.6	35.25	0.13	3.7
9	1/26/2020 16:40	0.02	1.42	0.01	0.8
10	1/27/2020 12:35	0.01	0.08	0.01	0.8
11	1/28/2020 14:25	0.02	7.92	0.01	1.1
12	2/1/2020 18:55	0.06	11.08	0.03	3.9
13	2/4/2020 14:55	0.18	4.58	0.07	2.4
14	2/5/2020 20:35	0.56	44.08	0.12	1
15	2/8/2020 13:15	0.01	0.08	0.01	0.9
16	2/9/2020 18:10	0.25	14	0.06	1.2
17	2/12/2020 19:15	0.47	31.58	0.11	2.5
18	2/17/2020 23:25	0.37	5.83	0.11	3.9
19	2/24/2020 20:45	0.19	4.42	0.05	6.6
20	2/25/2020 17:25	0.53	43.17	0.05	0.7
21	2/29/2020 1:05	0.08	6.17	0.03	1.5
22	3/2/2020 10:00	0.43	32.92	0.15	2.1
23	3/4/2020 12:25	0.06	1.75	0.05	0.7
24	3/6/2020 7:35	0.14	8.58	0.03	1.7
25	3/10/2020 2:00	0.35	10.67	0.09	3.4
26	3/12/2020 22:30	0.4	3.75	0.26	2.4
27	3/16/2020 18:15	0.09	12.83	0.04	3.7
28	3/18/2020 15:10	1.48	13.58	0.33	1.3
29	3/19/2020 17:35	0.41	14.5	0.29	0.5
30	3/22/2020 20:15	0.17	11.92	0.07	2.5
31	3/25/2020 2:00	0.03	2.25	0.02	1.7
32	3/26/2020 18:55	0.3	6.75	0.1	1.6
33	3/27/2020 22:45	2.72	28	1.05	0.9
34	3/30/2020 11:05	0.13	7.58	0.06	1.3
35	4/1/2020 0:05	0.09	8.5	0.05	1.2
36	4/7/2020 7:00	1.11	27	0.54	5.9
37	4/9/2020 5:20	0.27	18.83	0.07	0.8
38	4/12/2020 5:45	0.02	0.33	0.02	2.2

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:15	0.64	14.42	0.16	0.6
40	4/15/2020 14:35	0.25	12.5	0.08	2.1
41	4/17/2020 10:35	0.33	8.58	0.07	1.3
42	4/19/2020 18:00	0.01	0.08	0.01	2
43	4/21/2020 2:35	0.09	1.42	0.06	1.4
44	4/22/2020 18:15	0.11	2.42	0.05	1.6
45	4/23/2020 17:30	0.14	12.67	0.05	0.9
46	4/26/2020 0:10	0.59	14.17	0.12	1.8
47	4/27/2020 23:05	0.03	2.08	0.02	1.4
48	4/28/2020 18:55	0.6	63.42	0.24	0.7
49	5/2/2020 21:15	0.21	0.25	0.21	1.5
50	5/9/2020 5:05	0.01	0.08	0.01	6.3
51	5/10/2020 17:30	0.49	19.5	0.16	1.5
52	5/14/2020 9:30	2.9	34.17	0.99	2.9
53	5/17/2020 15:55	0.39	1.67	0.37	1.8
54	5/18/2020 7:25	0.79	23	0.18	0.6
55	5/22/2020 3:10	0.45	9.17	0.21	2.9
56	5/25/2020 15:20	0.26	3.83	0.17	3.1
57	5/28/2020 3:50	0.29	10	0.17	2.4
58	5/29/2020 12:20	0.46	4.58	0.35	0.9
59	5/30/2020 5:10	0.01	0.08	0.01	0.5
60	6/1/2020 23:55	0.04	1	0.04	2.8
61	6/4/2020 14:30	0.07	0.42	0.07	2.6
62	6/10/2020 19:20	0.4	1.08	0.39	6.2
63	6/13/2020 0:20	0.06	8.08	0.05	2.2
64	6/21/2020 13:00	0.79	23.92	0.26	8.2
65	6/23/2020 6:20	0.44	6.08	0.35	0.7
66	6/26/2020 22:30	0.66	6.58	0.31	3.4
67	6/30/2020 12:40	0.02	0.17	0.02	3.3
68	7/7/2020 12:20	1.68	2.08	1.62	7
69	7/9/2020 19:05	0.01	0.08	0.01	2.2
70	7/10/2020 14:10	1.41	20.33	0.41	0.8
71	7/19/2020 16:35	0.27	2.25	0.26	8.3
72	7/22/2020 2:25	0.29	2.92	0.19	2.3
73	7/23/2020 12:15	0.24	4.33	0.23	1.3
74	7/27/2020 13:00	2.95	14.83	2.01	3.9
75	8/1/2020 10:00	0.33	25.83	0.15	4.3
76	8/3/2020 15:15	0.23	1.58	0.2	1.1

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/4/2020 7:00	0.34	20.08	0.17	0.6
78	8/16/2020 11:40	0.14	2.58	0.09	11.4
79	8/17/2020 13:55	0.03	0.5	0.03	1
80	8/23/2020 17:05	0.02	0.42	0.02	6.1
81	8/26/2020 9:20	0.18	1.92	0.16	2.7
82	8/28/2020 8:35	3.8	20.92	2.06	1.9
83	9/2/2020 3:55	0.22	8.75	0.13	3.9
84	9/7/2020 6:30	4.34	7.08	1.4	4.7
85	9/13/2020 7:25	0.37	1.33	0.34	5.7
86	9/28/2020 16:40	1.56	13.42	0.63	15.3
87	9/30/2020 16:05	0.02	4.25	0.01	1.4
88	10/1/2020 13:25	0.54	18.42	0.2	0.7
89	10/4/2020 16:45	0.23	11.83	0.14	2.4
90	10/10/2020 21:15	0.01	0.08	0.01	5.7
91	10/12/2020 22:40	0.44	4.08	0.3	2.1
92	10/15/2020 12:40	0.11	5.75	0.03	2.4
93	10/18/2020 12:50	0.02	0.83	0.02	2.8
94	10/19/2020 2:45	0.76	30.58	0.1	0.5
95	10/21/2020 0:30	0.57	14.25	0.15	0.6
96	10/23/2020 17:20	0.46	8.92	0.19	2.1
97	10/26/2020 2:50	0.23	19.42	0.04	2
98	10/27/2020 14:40	0.26	15.58	0.04	0.7
99	10/29/2020 2:55	1.22	29.17	0.15	0.9
100	11/1/2020 7:45	0.14	19.08	0.07	2
101	11/11/2020 0:35	0.06	3.42	0.04	8.9
102	11/15/2020 0:25	0.21	22.42	0.06	3.9
103	11/17/2020 4:05	0.29	12.08	0.08	1.2
104	11/18/2020 9:40	0.05	3.5	0.02	0.7
105	11/22/2020 7:10	0.69	25.33	0.24	3.8
106	11/24/2020 17:00	0.02	0.33	0.02	1.4
107	11/25/2020 10:45	0.5	28.5	0.15	0.7
108	11/27/2020 20:30	0.01	0.08	0.01	1.2
109	11/30/2020 4:55	1.46	39.42	0.13	2.3
110	12/5/2020 12:10	0.02	3.92	0.01	3.7
111	12/12/2020 9:10	0.09	8.33	0.05	6.7
112	12/13/2020 6:00	0.06	6	0.02	0.5
113	12/16/2020 12:50	0.01	0.08	0.01	3
114	12/17/2020 10:00	0.2	28.17	0.06	0.9

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/19/2020 18:45	0.2	12.92	0.03	1.2
116	12/21/2020 16:35	0.21	16.75	0.07	1.4
117	12/23/2020 19:45	0.39	40.5	0.05	1.4
118	12/26/2020 2:05	0.01	1.33	0.01	0.6
119	12/27/2020 23:05	0.09	3.58	0.04	1.8
120	12/28/2020 17:40	0.01	8.25	0.01	0.6
121	12/30/2020 0:00	0.01	0.08	0.01	0.9
122	12/30/2020 14:05	0.33	8	0.11	0.6

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:35	0.37	44.25	0.06	2.3
2	1/8/2020 7:45	0.01	0.08	0.01	3.2
3	1/10/2020 0:35	1.3	48.42	0.14	1.7
4	1/15/2020 17:50	0.09	0.92	0.09	3.7
5	1/18/2020 1:10	0.73	15.33	0.16	2.3
6	1/19/2020 23:40	0.02	1.25	0.01	1.3
7	1/24/2020 7:15	0.47	37.17	0.07	4.3
8	1/26/2020 18:10	0.01	0.08	0.01	0.9
9	1/28/2020 18:55	0.01	0.08	0.01	2
10	2/1/2020 19:00	0.05	2.08	0.04	4
11	2/4/2020 14:45	0.15	12.67	0.07	2.7
12	2/5/2020 18:55	0.44	50.33	0.1	0.6
13	2/8/2020 15:30	0.03	1.08	0.02	0.8
14	2/9/2020 18:00	0.28	13.17	0.06	1.1
15	2/12/2020 19:30	0.39	22.42	0.09	2.5
16	2/17/2020 23:10	0.23	6.83	0.08	4.2
17	2/24/2020 20:00	0.24	4.67	0.11	6.6
18	2/25/2020 18:15	0.39	31.5	0.05	0.7
19	2/29/2020 1:10	0.04	3.42	0.02	2
20	3/2/2020 8:40	0.06	9.92	0.02	2.2
21	3/3/2020 10:55	0.34	7.58	0.17	0.7
22	3/4/2020 12:10	0.03	1.58	0.02	0.7
23	3/6/2020 8:15	0.1	8.25	0.03	1.8
24	3/10/2020 0:45	0.31	10.75	0.09	3.3
25	3/11/2020 6:10	0.01	0.08	0.01	0.8
26	3/12/2020 23:40	0.33	2.42	0.25	1.7
27	3/16/2020 18:10	0.02	1.42	0.01	3.7
28	3/18/2020 14:50	1.24	7.08	0.43	1.8
29	3/19/2020 18:10	0.19	13	0.08	0.8
30	3/22/2020 19:45	0.23	15.17	0.07	2.5
31	3/26/2020 18:40	0.28	6.75	0.08	3.3
32	3/27/2020 21:05	2.58	29.25	0.62	0.8
33	3/30/2020 17:55	0.06	0.42	0.06	1.6
34	4/1/2020 7:20	0.01	0.08	0.01	1.5
35	4/7/2020 5:45	0.29	2.67	0.18	5.9

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
36	4/7/2020 22:20	1.02	2.83	0.76	0.6
37	4/8/2020 23:40	0.28	28.92	0.08	0.9
38	4/12/2020 11:35	0.39	23.33	0.12	2.3
39	4/15/2020 14:35	0.17	11	0.05	2.2
40	4/17/2020 10:10	0.41	8.5	0.09	1.4
41	4/19/2020 19:35	0.01	0.08	0.01	2
42	4/21/2020 2:15	0.05	1.17	0.04	1.3
43	4/22/2020 18:25	0.06	2	0.04	1.6
44	4/23/2020 20:50	0.08	6.75	0.05	1
45	4/26/2020 1:00	0.6	8	0.2	1.9
46	4/27/2020 22:25	0.06	4.42	0.03	1.6
47	4/28/2020 18:20	0.31	46.08	0.08	0.6
48	5/2/2020 21:00	0.01	0.08	0.01	2.2
49	5/8/2020 16:45	0.05	11.83	0.02	5.8
50	5/10/2020 15:35	0.47	15.25	0.21	1.5
51	5/11/2020 20:30	0.01	0.08	0.01	0.6
52	5/14/2020 9:05	3.72	41.83	1.56	2.5
53	5/17/2020 15:55	0.75	1.25	0.71	1.5
54	5/18/2020 7:00	1.53	28.08	0.38	0.6
55	5/22/2020 3:05	0.58	11	0.17	2.7
56	5/23/2020 2:40	0.01	0.08	0.01	0.5
57	5/28/2020 4:00	0.11	9.5	0.05	5.1
58	5/29/2020 11:25	0.6	5	0.35	0.9
59	6/1/2020 23:10	0.07	1.75	0.05	3.3
60	6/10/2020 18:30	0.41	0.83	0.41	8.7
61	6/12/2020 23:55	0.04	0.58	0.04	2.2
62	6/18/2020 19:20	0.05	4.42	0.04	5.8
63	6/21/2020 21:35	0.32	13.5	0.14	2.9
64	6/23/2020 6:10	0.67	4.83	0.62	0.8
65	6/26/2020 12:25	0.01	0.08	0.01	3.1
66	6/27/2020 1:40	0.17	3.08	0.13	0.5
67	6/27/2020 21:50	0.02	0.33	0.02	0.7
68	7/10/2020 19:50	1.25	13.17	0.84	12.9
69	7/19/2020 16:25	0.18	0.33	0.18	8.3
70	7/22/2020 2:05	0.39	5.92	0.26	2.4

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
71	7/23/2020 11:35	0.83	15.25	0.55	1.1
72	7/27/2020 14:45	0.62	14.92	0.39	3.5
73	7/29/2020 22:50	0.01	0.08	0.01	1.7
74	8/1/2020 8:20	1.01	32.33	0.46	2.4
75	8/3/2020 13:10	0.31	1.83	0.25	0.9
76	8/4/2020 9:05	0.07	0.5	0.07	0.8
77	8/4/2020 23:05	0.02	3.58	0.01	0.6
78	8/15/2020 14:55	0.01	0.08	0.01	10.5
79	8/16/2020 11:00	1.1	2.58	0.83	0.8
80	8/17/2020 2:15	0.22	28.83	0.17	0.5
81	8/26/2020 6:40	0.46	4.33	0.4	8
82	8/27/2020 14:55	0.02	0.08	0.02	1.2
83	8/28/2020 8:05	3.83	21.25	1.38	0.7
84	9/2/2020 3:15	0.32	6.33	0.21	3.9
85	9/3/2020 1:30	0.01	0.08	0.01	0.7
86	9/7/2020 6:10	3.4	7.75	1.11	4.2
87	9/13/2020 6:40	0.24	1.75	0.2	5.7
88	9/28/2020 16:05	1.35	6.83	0.71	15.3
89	9/30/2020 20:00	0.02	0.25	0.02	1.9
90	10/1/2020 12:25	0.39	18.5	0.11	0.7
91	10/4/2020 14:50	0.19	2.58	0.15	2.3
92	10/10/2020 20:40	0.01	0.08	0.01	6.1
93	10/12/2020 22:00	0.46	2.33	0.35	2.1
94	10/15/2020 12:10	0.16	4.25	0.07	2.5
95	10/18/2020 12:20	0.08	1.08	0.07	2.8
96	10/19/2020 2:05	0.8	32.25	0.09	0.5
97	10/20/2020 23:25	2.47	8.5	0.87	0.5
98	10/22/2020 1:05	0.03	2.08	0.02	0.7
99	10/23/2020 17:15	0.6	7.58	0.41	1.6
100	10/26/2020 6:45	0.07	12.92	0.02	2.2
101	10/27/2020 14:50	0.18	12.25	0.07	0.8
102	10/29/2020 3:30	0.86	31.5	0.13	1
103	11/1/2020 7:40	0.07	13.17	0.05	1.9
104	11/11/2020 1:45	0.06	5.08	0.03	9.2
105	11/14/2020 23:45	0.39	13.42	0.13	3.7

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
106	11/17/2020 4:35	0.11	10.08	0.03	1.6
107	11/22/2020 7:00	0.71	10.08	0.15	4.7
108	11/24/2020 16:30	0.03	0.58	0.03	2
109	11/25/2020 10:10	0.56	24.83	0.15	0.7
110	11/27/2020 19:35	0.03	0.75	0.03	1.4
111	11/30/2020 4:30	2.94	40	0.14	2.3
112	12/5/2020 12:35	0.02	2.67	0.01	3.7
113	12/7/2020 5:30	0.02	1.5	0.01	1.6
114	12/12/2020 7:35	0.23	8.58	0.17	5
115	12/13/2020 5:30	0.06	2.33	0.04	0.6
116	12/16/2020 11:10	0.12	46	0.02	3.1
117	12/19/2020 18:55	0.14	20.83	0.04	1.4
118	12/21/2020 16:05	0.15	17.17	0.08	1
119	12/23/2020 18:50	0.45	38.08	0.07	1.4
120	12/26/2020 2:05	0.01	0.08	0.01	0.7
121	12/27/2020 22:05	0.08	4.25	0.05	1.8
122	12/29/2020 23:10	0.05	1.92	0.04	1.9
123	12/30/2020 13:30	0.34	8.08	0.08	0.5

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:10	0.45	45.42	0.05	2.2
2	1/10/2020 0:50	1.11	48.5	0.11	4.9
3	1/15/2020 18:00	0.08	1.08	0.07	3.7
4	1/18/2020 1:35	0.67	15.33	0.17	2.3
5	1/19/2020 21:50	0.18	7.58	0.07	1.2
6	1/24/2020 10:05	0.54	34.58	0.08	4.2
7	2/1/2020 19:05	0.03	1.75	0.02	6.9
8	2/4/2020 14:45	0.15	4.42	0.07	2.7
9	2/5/2020 20:20	0.22	2.58	0.1	1
10	2/6/2020 11:10	0.18	27.83	0.05	0.5
11	2/8/2020 15:55	0.01	0.08	0.01	1
12	2/9/2020 17:05	0.28	14.5	0.06	1
13	2/12/2020 19:35	0.37	22.5	0.09	2.5
14	2/17/2020 23:20	0.26	6.17	0.07	4.2
15	2/24/2020 20:25	0.19	4.67	0.06	6.6
16	2/25/2020 15:10	0.15	9.42	0.06	0.6
17	2/26/2020 13:30	0.23	18.67	0.04	0.5
18	2/29/2020 1:40	0.04	2.08	0.02	1.7
19	3/2/2020 9:55	0.09	9.75	0.03	2.3
20	3/3/2020 11:05	0.34	7.58	0.13	0.6
21	3/4/2020 12:10	0.04	0.83	0.04	0.7
22	3/6/2020 6:55	0.08	16.5	0.03	1.7
23	3/10/2020 1:05	0.31	10.92	0.11	3.1
24	3/12/2020 23:25	0.34	2.25	0.26	2.5
25	3/16/2020 18:15	0.02	1.08	0.01	3.7
26	3/18/2020 15:00	1.35	6.92	0.41	1.8
27	3/19/2020 17:40	0.16	14.17	0.05	0.8
28	3/22/2020 19:45	0.18	15.58	0.06	2.5
29	3/26/2020 18:45	0.34	6.5	0.12	3.3
30	3/27/2020 21:15	3.61	37	1.52	0.8
31	3/30/2020 17:15	0.03	1.75	0.02	1.3
32	4/7/2020 6:05	1.14	19.33	0.65	7.5
33	4/9/2020 5:00	0.23	17.25	0.09	1.1
34	4/12/2020 11:45	0.42	23.58	0.09	2.6
35	4/15/2020 14:55	0.16	10.5	0.05	2.1
36	4/17/2020 10:15	0.34	8.33	0.07	1.4
37	4/19/2020 19:50	0.01	0.08	0.01	2.1
38	4/21/2020 2:20	0.11	1.42	0.07	1.3

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/22/2020 18:35	0.1	1.83	0.06	1.6
40	4/23/2020 20:45	0.16	7.67	0.07	1
41	4/26/2020 0:35	0.54	12.33	0.15	1.8
42	4/27/2020 22:35	0.04	1	0.04	1.4
43	4/28/2020 18:40	0.34	4	0.26	0.8
44	4/29/2020 18:10	0.26	22.5	0.07	0.8
45	5/1/2020 6:15	0.05	2.33	0.03	0.6
46	5/2/2020 21:00	0.21	0.42	0.21	1.5
47	5/9/2020 4:30	0.01	0.08	0.01	6.3
48	5/10/2020 10:15	0.6	25.17	0.24	1.2
49	5/14/2020 9:15	3.01	32.92	1.04	2.9
50	5/17/2020 15:55	0.79	2.5	0.51	1.9
51	5/18/2020 8:00	1.82	22.08	0.52	0.6
52	5/22/2020 2:45	0.51	9.58	0.25	2.9
53	5/28/2020 4:35	0.16	3.92	0.11	5.7
54	5/29/2020 12:10	0.47	4.5	0.25	1.2
55	6/1/2020 23:35	0.05	0.75	0.05	3.3
56	6/10/2020 18:45	0.66	0.75	0.66	8.8
57	6/13/2020 0:00	0.08	0.5	0.08	2.2
58	6/18/2020 19:20	0.42	0.5	0.42	5.8
59	6/21/2020 15:10	0.51	21.92	0.15	2.8
60	6/23/2020 6:25	0.39	5.42	0.36	0.7
61	6/26/2020 22:10	0.33	6.58	0.19	3.4
62	7/8/2020 14:00	0.08	0.25	0.08	11.4
63	7/10/2020 18:05	0.45	15.67	0.17	2.2
64	7/19/2020 16:35	0.16	0.42	0.16	8.3
65	7/22/2020 2:10	0.47	6.08	0.24	2.4
66	7/22/2020 21:30	0.01	0.08	0.01	0.6
67	7/23/2020 12:00	0.62	2.08	0.58	0.6
68	7/27/2020 14:05	1.02	12	0.47	4
69	8/1/2020 10:20	1.11	29.83	0.67	4.3
70	8/3/2020 8:35	1.26	6.83	0.87	0.7
71	8/4/2020 6:55	0.01	0.08	0.01	0.6
72	8/5/2020 1:35	0.01	0.08	0.01	0.8
73	8/16/2020 11:20	0.38	2.58	0.24	11.4
74	8/17/2020 13:35	0.07	1.33	0.04	1
75	8/23/2020 17:35	0.1	0.33	0.1	6.1
76	8/26/2020 8:45	0.04	0.75	0.04	2.6

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/28/2020 8:15	4.26	21.08	1.72	1.9
78	9/2/2020 3:40	0.26	6.33	0.11	3.9
79	9/7/2020 6:15	3.19	7.75	1.02	4.8
80	9/10/2020 7:00	0.01	0.08	0.01	2.7
81	9/13/2020 7:20	0.14	0.92	0.14	3
82	9/28/2020 15:45	1.8	7.92	0.82	15.3
83	9/30/2020 19:55	0.03	0.5	0.03	1.8
84	10/1/2020 12:55	1	18.25	0.28	0.7
85	10/4/2020 15:15	0.25	2.92	0.17	2.3
86	10/10/2020 20:55	0.01	0.08	0.01	6.1
87	10/12/2020 22:10	0.61	2.92	0.44	2
88	10/15/2020 12:10	0.18	5.33	0.07	2.5
89	10/18/2020 13:15	0.06	0.67	0.06	2.8
90	10/19/2020 2:40	0.89	31.17	0.09	0.5
91	10/20/2020 23:40	1.46	12.75	0.4	0.6
92	10/22/2020 0:35	0.09	7.83	0.05	0.5
93	10/23/2020 17:25	0.66	7.92	0.45	1.4
94	10/26/2020 2:20	0.28	23.58	0.04	2
95	10/27/2020 14:50	0.32	16.08	0.07	0.5
96	10/29/2020 3:30	1.22	32.33	0.16	0.9
97	11/1/2020 7:30	0.11	12.92	0.09	1.8
98	11/11/2020 2:00	0.1	4.75	0.05	9.2
99	11/15/2020 0:05	0.32	13.25	0.1	3.7
100	11/17/2020 4:45	0.12	4.67	0.06	1.6
101	11/22/2020 7:15	0.71	11.75	0.13	4.9
102	11/24/2020 16:55	0.01	0.08	0.01	1.9
103	11/25/2020 10:40	0.6	21.33	0.13	0.7
104	11/27/2020 20:05	0.02	0.75	0.02	1.5
105	11/30/2020 4:55	2.57	60.75	0.15	2.3
106	12/3/2020 12:50	0.02	1.5	0.01	0.8
107	12/5/2020 14:10	0.06	1.08	0.05	2
108	12/12/2020 7:40	0.24	8.75	0.17	6.7
109	12/13/2020 5:20	0.03	5.67	0.01	0.5
110	12/16/2020 11:45	0.01	0.08	0.01	3
111	12/17/2020 0:20	0.07	27.25	0.01	0.5
112	12/19/2020 20:20	0.12	4.75	0.05	1.7
113	12/20/2020 16:15	0.01	0.08	0.01	0.6
114	12/21/2020 19:40	0.13	6.58	0.06	1.1

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:30	0.43	37.33	0.06	1.7
116	12/27/2020 22:25	0.1	4	0.06	2.6
117	12/28/2020 17:30	0.01	0.08	0.01	0.6
118	12/29/2020 23:30	0.03	0.5	0.03	1.2
119	12/30/2020 13:45	0.37	8.5	0.1	0.6

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 3:50	0.53	38.67	0.06	2.2
2	1/5/2020 6:40	0.01	0.08	0.01	0.5
3	1/10/2020 0:35	1.19	52.5	0.11	4.7
4	1/15/2020 17:25	0.15	3.5	0.14	3.5
5	1/18/2020 1:25	0.82	15.5	0.19	2.2
6	1/19/2020 23:25	0.02	6.25	0.01	1.3
7	1/24/2020 6:35	0.74	36.75	0.11	4
8	1/26/2020 17:50	0.01	0.08	0.01	0.9
9	1/27/2020 7:30	0.01	0.08	0.01	0.6
10	2/1/2020 19:20	0.03	3.92	0.02	5.5
11	2/4/2020 14:50	0.22	4.25	0.08	2.6
12	2/5/2020 20:20	0.45	47.17	0.14	1.1
13	2/9/2020 17:45	0.28	14.75	0.06	1.9
14	2/12/2020 19:10	0.47	23.5	0.13	2.4
15	2/17/2020 23:10	0.39	6.42	0.12	4.2
16	2/24/2020 20:25	0.17	4.67	0.06	6.6
17	2/25/2020 17:35	0.23	31.33	0.04	0.7
18	3/2/2020 6:50	0.44	36	0.19	4.2
19	3/4/2020 12:10	0.04	1	0.04	0.7
20	3/6/2020 9:00	0.14	13.92	0.04	1.8
21	3/10/2020 1:10	0.43	10.75	0.1	3.1
22	3/12/2020 20:10	0.48	6.08	0.3	2.3
23	3/16/2020 18:10	0.05	1.58	0.04	3.7
24	3/17/2020 8:35	0.01	0.08	0.01	0.5
25	3/18/2020 15:00	1.7	9.75	0.4	1.3
26	3/19/2020 17:40	0.31	17.58	0.08	0.7
27	3/22/2020 19:45	0.17	12.92	0.05	2.4
28	3/25/2020 3:05	0.02	1.33	0.01	1.8
29	3/26/2020 18:45	0.15	6.83	0.06	1.6
30	3/27/2020 21:05	2.81	28.92	0.77	0.8
31	3/29/2020 21:30	0.06	8.17	0.03	0.8
32	3/30/2020 18:20	0.06	1.42	0.05	0.5
33	4/1/2020 7:50	0.02	0.25	0.02	1.5
34	4/7/2020 6:15	0.32	2.58	0.17	5.9
35	4/7/2020 22:40	0.89	6.25	0.54	0.6
36	4/9/2020 3:20	0.3	25.67	0.11	0.9
37	4/12/2020 5:30	0.01	0.08	0.01	2
38	4/12/2020 20:50	0.59	14.58	0.13	0.6

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 14:40	0.17	10.58	0.07	2.1
40	4/17/2020 9:55	0.35	17.33	0.07	1.4
41	4/19/2020 17:35	0.01	0.08	0.01	1.6
42	4/21/2020 2:20	0.09	1.67	0.06	1.4
43	4/22/2020 18:50	0.07	4.17	0.03	1.6
44	4/23/2020 20:05	0.09	6.75	0.04	0.9
45	4/25/2020 22:55	1.05	14.92	0.19	1.8
46	4/27/2020 22:40	0.07	4.5	0.04	1.4
47	4/29/2020 8:20	0.41	39.67	0.1	1.2
48	5/6/2020 3:50	0.01	0.08	0.01	5.2
49	5/9/2020 4:45	0.01	0.08	0.01	3
50	5/10/2020 17:10	0.42	14	0.23	1.5
51	5/14/2020 9:15	1.47	33.25	0.39	3.1
52	5/17/2020 7:40	1.69	51	0.32	1.5
53	5/21/2020 23:55	0.55	15.33	0.15	2.6
54	5/25/2020 17:15	0.66	3.67	0.65	3.1
55	5/28/2020 3:45	0.27	9.75	0.13	2.3
56	5/29/2020 11:35	0.51	5.25	0.36	0.9
57	6/1/2020 23:40	0.07	3.42	0.06	3.3
58	6/4/2020 14:15	0.13	0.75	0.13	2.5
59	6/10/2020 19:10	0.35	1	0.35	6.2
60	6/13/2020 0:20	0.06	2.42	0.05	2.2
61	6/18/2020 19:05	0.06	6.25	0.05	5.7
62	6/19/2020 16:25	0.02	11.08	0.01	0.6
63	6/21/2020 17:05	0.56	19.42	0.22	1.6
64	6/23/2020 6:25	0.38	5.67	0.33	0.7
65	6/26/2020 12:30	0.01	0.08	0.01	3
66	6/27/2020 3:10	0.32	6.42	0.24	0.6
67	7/7/2020 12:00	0.67	3.42	0.61	10.1
68	7/10/2020 23:10	0.62	9.92	0.27	3.3
69	7/19/2020 16:40	0.31	3.17	0.3	8.3
70	7/21/2020 4:50	0.01	0.08	0.01	1.4
71	7/22/2020 1:50	0.18	3.33	0.1	0.9
72	7/27/2020 17:35	1.03	8.83	0.6	5.5
73	8/1/2020 9:25	0.55	31.75	0.18	4.3
74	8/3/2020 8:35	0.21	7.75	0.18	0.6
75	8/4/2020 7:55	0.02	3.92	0.01	0.6
76	8/5/2020 5:15	0.01	0.08	0.01	0.7

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:50	0.42	1.33	0.36	11.3
78	8/17/2020 14:00	0.3	0.5	0.3	1
79	8/18/2020 6:45	0.01	0.08	0.01	0.7
80	8/26/2020 7:10	0.11	2.17	0.1	8
81	8/27/2020 15:20	1.16	38	0.26	1.3
82	9/2/2020 3:05	1.16	4.83	0.98	3.9
83	9/3/2020 2:25	0.01	0.08	0.01	0.8
84	9/7/2020 7:10	3.6	8.75	1.12	4.2
85	9/10/2020 7:00	0.01	0.08	0.01	2.6
86	9/13/2020 7:45	0.09	0.67	0.09	3
87	9/28/2020 16:35	1.17	7.25	0.44	15.3
88	9/29/2020 20:50	0.01	0.08	0.01	0.9
89	9/30/2020 16:20	0.01	0.08	0.01	0.8
90	10/1/2020 14:30	0.3	17.08	0.13	0.9
91	10/4/2020 16:40	0.19	1.58	0.15	2.4
92	10/12/2020 22:30	0.55	3.83	0.45	8.2
93	10/15/2020 12:35	0.13	5.5	0.04	2.4
94	10/18/2020 12:20	0.94	43.92	0.12	2.8
95	10/21/2020 0:05	0.34	13	0.12	0.7
96	10/23/2020 17:05	0.43	8.75	0.22	2.2
97	10/26/2020 2:20	0.15	24.25	0.03	2
98	10/27/2020 14:55	0.34	15.33	0.05	0.5
99	10/29/2020 2:30	1.59	33	0.19	0.8
100	11/1/2020 7:40	0.11	12.5	0.1	1.8
101	11/11/2020 0:25	0.24	6.92	0.1	9.2
102	11/15/2020 0:05	0.26	27.33	0.11	3.7
103	11/17/2020 5:00	0.09	10.08	0.02	1.1
104	11/22/2020 7:25	0.61	11.08	0.24	4.7
105	11/23/2020 7:20	0.01	0.08	0.01	0.5
106	11/25/2020 9:55	0.67	26.58	0.17	2.1
107	11/27/2020 20:20	0.01	0.08	0.01	1.3
108	11/30/2020 2:25	1.22	41.67	0.11	2.3
109	12/5/2020 15:10	0.05	1	0.05	3.8
110	12/12/2020 7:35	0.12	4.58	0.07	6.6
111	12/13/2020 5:45	0.02	0.5	0.02	0.7
112	12/16/2020 11:20	0.08	16.67	0.03	3.2
113	12/17/2020 17:25	0.03	15.67	0.01	0.6
114	12/19/2020 21:50	0.16	3.58	0.06	1.5

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/20/2020 15:50	0.01	0.08	0.01	0.6
116	12/21/2020 19:45	0.09	8.17	0.06	1.2
117	12/23/2020 18:40	0.36	37.25	0.06	1.6
118	12/26/2020 2:30	0.01	0.08	0.01	0.8
119	12/28/2020 0:15	0.02	2.33	0.01	1.9
120	12/29/2020 23:25	0.02	0.25	0.02	1.9
121	12/30/2020 13:45	0.4	8.92	0.11	0.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:50	0.56	36.58	0.06	2.3
2	1/8/2020 0:55	0.03	6.58	0.02	3.2
3	1/10/2020 0:25	1.06	49.17	0.11	1.7
4	1/15/2020 18:10	0.09	1.83	0.07	3.7
5	1/18/2020 1:45	0.7	15.75	0.17	2.2
6	1/19/2020 21:45	0.06	13.58	0.02	1.2
7	1/24/2020 7:00	0.53	41.17	0.1	3.8
8	1/26/2020 17:00	0.04	2	0.02	0.7
9	1/27/2020 8:20	0.01	0.08	0.01	0.6
10	1/28/2020 20:25	0.07	2.67	0.04	1.5
11	2/1/2020 18:25	0.06	11.67	0.02	3.8
12	2/4/2020 15:00	0.1	4.83	0.05	2.4
13	2/5/2020 20:15	0.26	2.92	0.11	1
14	2/6/2020 11:10	0.62	34.42	0.29	0.5
15	2/8/2020 15:45	0.02	0.92	0.02	0.8
16	2/9/2020 17:50	0.3	14.67	0.07	1
17	2/12/2020 19:55	0.4	30.67	0.1	2.5
18	2/17/2020 23:35	0.26	10.17	0.07	3.9
19	2/24/2020 20:40	0.18	4.25	0.06	6.5
20	2/25/2020 18:55	0.13	5.58	0.06	0.8
21	2/26/2020 13:35	0.38	14.42	0.06	0.5
22	2/27/2020 19:20	0.01	0.08	0.01	0.6
23	2/29/2020 2:00	0.01	0.08	0.01	1.3
24	3/2/2020 10:00	0.43	32.75	0.15	2.3
25	3/4/2020 12:00	0.07	1.92	0.05	0.7
26	3/6/2020 8:45	0.1	7.08	0.05	1.8
27	3/10/2020 1:20	0.28	10.42	0.12	3.4
28	3/12/2020 23:30	0.27	2.5	0.2	2.5
29	3/16/2020 18:15	0.05	2.17	0.03	3.7
30	3/18/2020 15:20	1.46	43.58	0.38	1.8
31	3/22/2020 20:15	0.19	15.17	0.07	2.4
32	3/26/2020 17:55	0.32	7.75	0.07	3.3
33	3/27/2020 22:55	3.51	35.75	1.52	0.9
34	3/30/2020 3:00	0.04	15.08	0.02	0.7
35	4/1/2020 3:35	0.04	4.58	0.03	1.4
36	4/7/2020 7:25	1.15	17.58	0.69	6
37	4/9/2020 0:20	0.38	20.17	0.12	1
38	4/12/2020 5:40	0.51	29.58	0.14	2.4

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/15/2020 0:05	0.03	1.92	0.02	1.5
40	4/15/2020 15:00	0.27	13.67	0.09	0.5
41	4/17/2020 10:15	0.29	8.17	0.06	1.2
42	4/19/2020 21:00	0.05	0.58	0.05	2.1
43	4/21/2020 1:35	0.1	2.33	0.05	1.2
44	4/22/2020 18:40	0.09	2.08	0.05	1.6
45	4/23/2020 15:45	0.11	13.42	0.05	0.8
46	4/26/2020 0:35	0.59	18.67	0.13	1.8
47	4/27/2020 22:35	0.05	3.42	0.03	1.1
48	4/28/2020 19:10	0.19	3.25	0.12	0.7
49	4/29/2020 18:20	0.27	18.75	0.08	0.8
50	5/1/2020 6:10	0.12	3.92	0.06	0.7
51	5/2/2020 20:00	0.06	0.67	0.06	1.4
52	5/9/2020 4:55	0.03	0.58	0.03	6.3
53	5/10/2020 10:45	0.67	26.83	0.18	1.2
54	5/14/2020 9:35	2.37	32.92	0.89	2.8
55	5/17/2020 16:15	0.54	2.25	0.4	1.9
56	5/18/2020 7:55	0.66	22.17	0.18	0.6
57	5/22/2020 3:10	0.49	9.67	0.2	2.9
58	5/25/2020 16:05	0.08	0.25	0.08	3.1
59	5/28/2020 4:40	0.18	5	0.13	2.5
60	5/29/2020 13:15	0.46	12.58	0.31	1.1
61	6/1/2020 23:40	0.04	1.08	0.03	2.9
62	6/3/2020 6:45	0.04	0.08	0.04	1.3
63	6/10/2020 19:00	0.61	1.42	0.57	7.5
64	6/18/2020 19:40	0.11	0.67	0.11	8
65	6/21/2020 15:45	0.37	26.75	0.22	2.8
66	6/23/2020 6:40	0.52	5.33	0.47	0.5
67	6/26/2020 22:35	1.04	6.25	0.57	3.4
68	6/27/2020 22:00	0.02	0.17	0.02	0.7
69	7/10/2020 18:05	2.9	14.5	0.88	12.8
70	7/16/2020 15:10	0.02	0.17	0.02	5.3
71	7/19/2020 16:20	0.55	0.83	0.55	3
72	7/22/2020 2:45	0.27	3	0.16	2.4
73	7/22/2020 22:45	0.21	14.67	0.18	0.7
74	7/27/2020 13:55	1.28	13.42	0.54	4
75	7/29/2020 21:55	0.08	0.17	0.08	1.8
76	8/1/2020 11:55	0.56	28.33	0.32	2.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 4:40	1.19	11.5	0.93	0.5
78	8/4/2020 6:30	0.31	15.25	0.28	0.6
79	8/16/2020 11:30	0.41	1.75	0.38	11.6
80	8/17/2020 13:25	0.02	1.08	0.01	1
81	8/26/2020 9:45	0.51	1.67	0.41	8.8
82	8/27/2020 14:00	3.03	39.58	0.83	1.1
83	9/2/2020 3:25	0.57	14.25	0.22	3.9
84	9/7/2020 6:10	4.02	6.75	1.48	4.5
85	9/8/2020 12:50	0.01	0.08	0.01	1
86	9/13/2020 7:15	0.49	0.92	0.49	4.8
87	9/28/2020 16:30	1.82	7.67	0.88	15.3
88	9/30/2020 20:10	0.01	0.08	0.01	1.8
89	10/1/2020 13:00	0.74	16.92	0.25	0.7
90	10/4/2020 15:30	0.32	4.92	0.17	2.4
91	10/10/2020 19:45	0.02	0.25	0.02	6
92	10/12/2020 22:25	0.78	3.75	0.54	2.1
93	10/15/2020 12:15	0.16	15.08	0.05	2.4
94	10/18/2020 13:25	0.96	45.5	0.11	2.4
95	10/20/2020 23:50	2.01	12.25	0.73	0.5
96	10/22/2020 0:45	0.1	4.25	0.05	0.5
97	10/23/2020 17:10	0.56	8.42	0.27	1.5
98	10/26/2020 2:05	0.35	24.58	0.06	2
99	10/27/2020 15:00	0.32	15.33	0.06	0.5
100	10/29/2020 3:10	0.97	33	0.11	0.9
101	11/1/2020 7:35	0.13	7.92	0.08	1.8
102	11/11/2020 0:45	0.13	8.17	0.05	9.4
103	11/15/2020 0:20	0.35	13.08	0.1	3.6
104	11/17/2020 4:30	0.16	7.25	0.09	1.6
105	11/22/2020 7:15	0.72	11.83	0.14	4.8
106	11/23/2020 7:10	0.02	0.42	0.02	0.5
107	11/24/2020 16:55	0.01	0.08	0.01	1.4
108	11/25/2020 10:10	0.68	31.08	0.18	0.7
109	11/27/2020 20:15	0.01	0.08	0.01	1.1
110	11/30/2020 5:15	3.36	40.42	0.18	2.4
111	12/12/2020 7:55	0.23	9.42	0.14	10.4
112	12/13/2020 6:15	0.01	0.08	0.01	0.5
113	12/16/2020 18:00	0.01	0.08	0.01	3.5
114	12/17/2020 7:35	0.03	13.25	0.01	0.6

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2020 9:15	0.09	4.17	0.06	0.5
116	12/19/2020 22:25	0.15	3.67	0.06	1.4
117	12/20/2020 16:35	0.01	0.08	0.01	0.6
118	12/21/2020 18:45	0.09	14.42	0.05	1.1
119	12/23/2020 19:45	0.84	38.92	0.11	1.4
120	12/26/2020 2:30	0.01	0.08	0.01	0.7
121	12/27/2020 22:40	0.11	3.92	0.05	1.8
122	12/28/2020 17:10	0.01	0.08	0.01	0.6
123	12/30/2020 0:00	0.01	0.08	0.01	1.3
124	12/30/2020 13:50	0.31	7.92	0.1	0.6

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:20	0.39	43.42	0.05	2.3
2	1/8/2020 6:40	0.02	0.42	0.02	3.2
3	1/10/2020 0:45	1.1	51.75	0.13	1.7
4	1/15/2020 18:20	0.07	3.33	0.05	3.6
5	1/16/2020 12:30	0.02	0.33	0.02	0.6
6	1/18/2020 2:00	0.77	23.92	0.18	1.5
7	1/19/2020 20:00	0.12	20.08	0.05	0.8
8	1/23/2020 6:35	0.01	0.08	0.01	2.6
9	1/24/2020 9:50	0.54	38.67	0.1	1.1
10	1/26/2020 17:00	0.11	17.25	0.04	0.7
11	1/28/2020 1:25	0.01	0.08	0.01	0.6
12	2/1/2020 19:50	0.11	13.08	0.05	4.8
13	2/4/2020 15:00	0.11	3.92	0.05	2.3
14	2/5/2020 18:35	0.24	4.5	0.1	1
15	2/6/2020 11:15	0.31	54.08	0.11	0.5
16	2/9/2020 18:00	0.31	14.42	0.09	1
17	2/12/2020 20:05	0.42	21.75	0.08	2.5
18	2/17/2020 23:30	0.23	6.58	0.07	4.2
19	2/24/2020 21:05	0.17	6.67	0.06	6.6
20	2/25/2020 19:25	0.13	5.25	0.06	0.7
21	2/26/2020 13:45	0.25	11.17	0.06	0.5
22	2/28/2020 4:40	0.01	0.08	0.01	1.2
23	3/2/2020 10:10	0.53	32.83	0.16	3.2
24	3/4/2020 12:15	0.07	1.83	0.04	0.7
25	3/6/2020 9:45	0.02	9.67	0.01	1.8
26	3/10/2020 1:25	0.28	10.33	0.17	3.3
27	3/12/2020 23:40	0.31	3.75	0.19	2.5
28	3/16/2020 18:00	0.07	2.67	0.03	3.6
29	3/18/2020 15:15	1.01	10.17	0.22	1.8
30	3/19/2020 17:50	0.43	13.33	0.29	0.7
31	3/22/2020 20:40	0.19	14.92	0.08	2.6
32	3/26/2020 17:55	0.39	7.08	0.08	3.3
33	3/27/2020 23:10	2.28	35.83	0.62	0.9
34	3/30/2020 2:40	0.06	9.25	0.05	0.7
35	4/1/2020 6:45	0.03	1.08	0.02	1.8
36	4/7/2020 8:50	0.62	18.83	0.34	6
37	4/9/2020 0:10	0.36	8.08	0.14	0.9
38	4/12/2020 5:40	0.03	0.58	0.03	2.9

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 21:30	0.46	13.67	0.13	0.6
40	4/15/2020 8:00	0.19	20.92	0.07	1.9
41	4/17/2020 10:35	0.38	7.83	0.08	1.2
42	4/21/2020 2:10	0.12	1.5	0.08	3.3
43	4/22/2020 18:20	0.06	6.5	0.03	1.6
44	4/24/2020 0:50	0.04	1.5	0.03	1
45	4/26/2020 0:40	0.57	15.08	0.12	1.9
46	4/27/2020 22:30	0.08	6.42	0.04	1.3
47	4/28/2020 20:00	0.06	2.67	0.05	0.6
48	4/29/2020 11:20	0.33	26	0.15	0.5
49	5/1/2020 6:20	0.07	5.25	0.05	0.7
50	5/2/2020 19:30	0.01	0.08	0.01	1.3
51	5/10/2020 10:55	0.76	20.25	0.23	7.6
52	5/11/2020 20:45	0.01	0.08	0.01	0.6
53	5/14/2020 9:40	1.96	39	0.42	2.5
54	5/17/2020 16:30	1.04	36.33	0.29	1.7
55	5/22/2020 3:45	0.46	9.75	0.24	3
56	5/28/2020 7:15	0.18	2.92	0.15	5.7
57	5/29/2020 13:20	0.48	3.33	0.34	1.1
58	6/1/2020 23:50	0.05	3	0.03	3.3
59	6/3/2020 6:50	0.01	0.08	0.01	1.2
60	6/10/2020 19:05	0.71	9.17	0.65	7.5
61	6/18/2020 20:15	0.04	6.33	0.03	7.7
62	6/21/2020 22:30	0.18	14.33	0.09	2.8
63	6/23/2020 6:25	1	5.42	0.91	0.7
64	6/26/2020 22:30	1.5	6	0.87	3.4
65	6/27/2020 21:45	0.46	5.33	0.45	0.7
66	7/9/2020 15:40	0.02	0.17	0.02	11.5
67	7/10/2020 13:45	3.01	18.17	1.1	0.9
68	7/16/2020 14:30	0.03	0.83	0.03	5.3
69	7/19/2020 13:05	0.21	4	0.14	2.9
70	7/22/2020 2:50	0.21	3.58	0.12	2.4
71	7/23/2020 12:30	0.01	0.08	0.01	1.3
72	7/27/2020 12:30	0.38	13.25	0.14	4
73	7/29/2020 19:35	0.04	9.83	0.02	1.7
74	8/1/2020 12:25	1.2	28.92	0.67	2.3
75	8/3/2020 12:45	0.32	3.25	0.12	0.8
76	8/4/2020 5:55	1.33	22	0.95	0.6

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:30	0.48	2.58	0.4	11.3
78	8/26/2020 8:45	0.31	2.75	0.22	9.8
79	8/28/2020 7:05	2.8	23.25	1.04	1.8
80	9/2/2020 3:30	0.38	9.17	0.26	3.9
81	9/7/2020 5:55	2.55	6.67	0.8	4.7
82	9/10/2020 10:10	0.01	0.08	0.01	2.9
83	9/13/2020 6:50	0.52	1.33	0.45	2.9
84	9/28/2020 16:20	1.52	14.83	0.55	15.3
85	9/30/2020 19:10	0.09	0.33	0.09	1.5
86	10/1/2020 13:30	0.71	14.25	0.37	0.8
87	10/2/2020 20:35	0.17	3.58	0.07	0.7
88	10/4/2020 15:25	0.28	3	0.16	1.6
89	10/10/2020 19:35	0.05	0.58	0.05	6
90	10/12/2020 22:30	0.77	3.75	0.4	2.1
91	10/15/2020 12:05	0.24	14.42	0.07	2.4
92	10/17/2020 22:20	0.01	0.08	0.01	1.8
93	10/18/2020 13:30	0.1	0.5	0.1	0.6
94	10/19/2020 2:40	0.99	32	0.12	0.5
95	10/20/2020 23:50	2.83	10.92	1.13	0.5
96	10/22/2020 2:10	0.47	3.17	0.3	0.6
97	10/23/2020 17:25	0.51	7.75	0.18	1.5
98	10/24/2020 22:05	0.01	0.08	0.01	0.9
99	10/26/2020 2:20	0.41	18.42	0.07	1.2
100	10/27/2020 14:35	0.35	16.67	0.07	0.7
101	10/29/2020 3:55	1.23	32.67	0.24	0.9
102	11/1/2020 7:40	0.12	12.08	0.09	1.8
103	11/11/2020 0:30	0.14	7	0.05	9.2
104	11/15/2020 0:15	0.38	13.33	0.11	3.7
105	11/16/2020 23:50	0.07	15.17	0.02	1.4
106	11/22/2020 7:25	0.79	11.67	0.16	4.7
107	11/23/2020 7:05	0.03	0.42	0.03	0.5
108	11/24/2020 17:15	0.02	0.17	0.02	1.4
109	11/25/2020 10:35	0.8	28.42	0.16	0.7
110	11/30/2020 5:05	2.31	38.33	0.17	3.6
111	12/12/2020 7:40	0.32	26	0.18	10.5
112	12/16/2020 12:15	0.01	0.08	0.01	3.1
113	12/17/2020 0:50	0.02	0.67	0.02	0.5
114	12/17/2020 18:00	0.02	5.25	0.01	0.7

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2020 13:30	0.01	0.08	0.01	0.6
116	12/19/2020 18:40	0.2	11.25	0.06	1.2
117	12/21/2020 17:15	0.12	15.92	0.08	1.5
118	12/23/2020 19:45	1.05	50.25	0.1	1.4
119	12/27/2020 22:40	0.13	14.75	0.05	2
120	12/29/2020 4:25	0.01	0.08	0.01	0.6
121	12/30/2020 0:00	0.02	0.75	0.02	0.8
122	12/30/2020 14:25	0.31	7.25	0.12	0.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:45	0.47	44.92	0.06	2.2
2	1/8/2020 7:15	0.03	0.33	0.03	3.2
3	1/10/2020 0:50	0.9	51.67	0.1	1.7
4	1/15/2020 18:15	0.08	2.5	0.07	3.6
5	1/16/2020 10:25	0.01	0.08	0.01	0.6
6	1/18/2020 1:50	0.55	14.83	0.16	1.6
7	1/19/2020 21:30	0.09	7.75	0.03	1.2
8	1/24/2020 10:10	0.56	34.5	0.09	4.2
9	1/26/2020 17:15	0.03	0.75	0.03	0.9
10	1/28/2020 22:10	0.01	0.08	0.01	2.2
11	2/1/2020 19:00	0.02	0.92	0.02	3.9
12	2/4/2020 14:50	0.1	3.25	0.05	2.8
13	2/5/2020 19:05	0.23	3.92	0.11	1
14	2/6/2020 11:15	0.45	28	0.3	0.5
15	2/8/2020 16:00	0.02	0.58	0.02	1
16	2/9/2020 18:35	0.23	12.83	0.06	1.1
17	2/12/2020 19:55	0.36	21.83	0.1	2.5
18	2/17/2020 23:25	0.22	4.92	0.07	4.2
19	2/24/2020 20:15	0.18	4.58	0.05	6.7
20	2/25/2020 18:45	0.12	5.83	0.05	0.7
21	2/26/2020 13:40	0.35	14.17	0.05	0.5
22	2/27/2020 22:00	0.01	0.08	0.01	0.8
23	2/29/2020 0:40	0.05	3.25	0.02	1.1
24	3/2/2020 10:00	0.05	9.17	0.02	2.3
25	3/3/2020 7:45	0.31	11	0.13	0.5
26	3/4/2020 12:10	0.05	0.92	0.05	0.7
27	3/6/2020 9:15	0.05	5.17	0.02	1.8
28	3/10/2020 1:05	0.21	10.58	0.09	3.4
29	3/12/2020 23:20	0.28	2.5	0.2	2.5
30	3/16/2020 19:15	0.01	0.08	0.01	3.7
31	3/17/2020 7:30	0.01	0.08	0.01	0.5
32	3/18/2020 15:30	1.29	13.08	0.45	1.3
33	3/19/2020 17:35	0.22	17.33	0.06	0.5
34	3/22/2020 20:20	0.16	15	0.06	2.4
35	3/26/2020 18:00	0.31	7.25	0.08	3.3
36	3/27/2020 22:40	3.5	35.67	1.33	0.9
37	3/30/2020 2:55	0.01	0.08	0.01	0.7
38	3/30/2020 17:55	0.02	2.5	0.01	0.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/1/2020 8:10	0.01	0.08	0.01	1.5
40	4/7/2020 6:50	1.24	22.58	0.56	5.9
41	4/9/2020 5:00	0.25	8.92	0.08	1
42	4/12/2020 5:40	0.38	29.5	0.09	2.7
43	4/15/2020 14:25	0.22	12.17	0.06	2.1
44	4/17/2020 10:10	0.41	8.33	0.08	1.3
45	4/19/2020 20:45	0.02	0.42	0.02	2.1
46	4/21/2020 2:25	0.09	1.42	0.06	1.2
47	4/22/2020 18:25	0.12	2.33	0.06	1.6
48	4/23/2020 23:40	0.12	3.25	0.06	1.1
49	4/26/2020 0:25	0.52	13.58	0.14	1.9
50	4/27/2020 23:15	0.02	2.83	0.01	1.4
51	4/28/2020 19:00	0.28	3.67	0.15	0.7
52	4/29/2020 20:55	0.34	20.67	0.2	0.9
53	5/1/2020 7:05	0.09	1.42	0.07	0.6
54	5/2/2020 21:10	0.01	0.08	0.01	1.5
55	5/9/2020 5:15	0.01	0.08	0.01	6.3
56	5/10/2020 10:20	0.72	20.5	0.28	1.2
57	5/11/2020 20:20	0.01	0.08	0.01	0.6
58	5/14/2020 9:25	2.55	32.92	1.14	2.5
59	5/17/2020 16:00	0.73	2.58	0.57	1.9
60	5/18/2020 8:00	1.3	22.17	0.45	0.6
61	5/22/2020 2:55	0.4	9.67	0.23	2.9
62	5/28/2020 5:05	0.19	8.17	0.14	5.7
63	5/29/2020 13:10	0.48	3.58	0.31	1
64	6/1/2020 23:40	0.04	0.67	0.04	3.3
65	6/3/2020 6:40	0.01	0.08	0.01	1.3
66	6/10/2020 18:50	0.66	9.42	0.63	7.5
67	6/13/2020 0:10	0.07	0.17	0.07	1.8
68	6/18/2020 20:15	0.01	0.08	0.01	5.8
69	6/21/2020 22:05	0.24	14.33	0.09	3.1
70	6/23/2020 6:25	0.42	5.17	0.4	0.8
71	6/26/2020 22:20	0.87	6.5	0.47	3.4
72	6/27/2020 22:00	0.02	0.58	0.02	0.7
73	7/11/2020 0:00	1.11	10.25	0.53	13.1
74	7/16/2020 15:00	0.02	0.33	0.02	5.2
75	7/19/2020 16:20	0.35	0.67	0.35	3
76	7/22/2020 2:30	0.28	19.17	0.14	2.4

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/23/2020 10:55	0.78	3.58	0.6	0.6
78	7/27/2020 13:50	1.58	12.92	0.53	4
79	7/29/2020 21:55	0.05	0.25	0.05	1.8
80	8/1/2020 11:45	0.62	28.5	0.3	2.6
81	8/3/2020 12:35	0.84	3.08	0.43	0.8
82	8/4/2020 6:25	0.42	19.92	0.24	0.6
83	8/16/2020 11:25	0.49	2.58	0.37	11.4
84	8/17/2020 13:10	0.01	0.08	0.01	1
85	8/26/2020 9:00	0.15	2.58	0.12	8.8
86	8/28/2020 5:40	3.1	24	1.15	1.8
87	9/2/2020 3:45	0.35	9.08	0.18	3.9
88	9/7/2020 6:10	3.46	7.25	1.09	4.7
89	9/13/2020 7:05	0.5	1.33	0.49	5.7
90	9/28/2020 15:45	1.68	7.83	0.8	15.3
91	9/30/2020 20:15	0.02	0.42	0.02	1.9
92	10/1/2020 13:05	0.43	16.42	0.12	0.7
93	10/4/2020 15:30	0.27	3.83	0.16	2.4
94	10/10/2020 19:50	0.02	0.92	0.02	6
95	10/12/2020 22:20	0.69	3.75	0.47	2.1
96	10/15/2020 12:20	0.17	4.75	0.06	2.4
97	10/18/2020 12:15	0.06	1.42	0.05	2.8
98	10/19/2020 2:40	0.9	32.08	0.1	0.5
99	10/20/2020 23:45	1.55	12.08	0.52	0.5
100	10/22/2020 0:35	0.1	4.67	0.04	0.5
101	10/23/2020 17:35	0.49	7.58	0.31	1.5
102	10/26/2020 2:10	0.64	52.42	0.06	2
103	10/29/2020 3:25	0.98	33.67	0.1	0.9
104	10/31/2020 2:40	0.01	0.08	0.01	0.6
105	11/1/2020 7:40	0.13	12.83	0.08	1.2
106	11/11/2020 2:05	0.06	4.5	0.03	9.2
107	11/15/2020 0:15	0.35	13	0.15	3.7
108	11/17/2020 4:20	0.27	5.33	0.17	1.6
109	11/22/2020 7:15	0.69	11.75	0.14	4.9
110	11/23/2020 7:00	0.03	0.33	0.03	0.5
111	11/24/2020 17:05	0.01	0.08	0.01	1.4
112	11/25/2020 10:50	0.54	19.5	0.14	0.7
113	11/27/2020 19:55	0.02	0.58	0.02	1.6
114	11/30/2020 5:10	2.82	38.5	0.14	2.4

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/5/2020 14:15	0.01	0.08	0.01	3.8
116	12/12/2020 7:45	0.24	8.92	0.17	6.7
117	12/13/2020 5:05	0.02	6.08	0.01	0.5
118	12/16/2020 11:45	0.13	50.67	0.01	3
119	12/19/2020 22:45	0.05	2.17	0.03	1.3
120	12/20/2020 16:25	0.01	0.08	0.01	0.6
121	12/21/2020 20:25	0.1	5.92	0.07	1.2
122	12/23/2020 19:40	0.65	39.33	0.07	1.7
123	12/26/2020 2:40	0.01	0.08	0.01	0.7
124	12/27/2020 22:45	0.11	3.92	0.07	1.8
125	12/28/2020 17:15	0.02	11.42	0.01	0.6
126	12/30/2020 13:50	0.31	7.92	0.1	1.4

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:50	0.48	39.08	0.06	2.2
2	1/8/2020 7:50	0.01	0.08	0.01	3.5
3	1/10/2020 0:40	1.3	51.58	0.14	1.7
4	1/15/2020 17:50	0.06	0.75	0.06	3.6
5	1/18/2020 1:15	0.82	15.58	0.17	2.3
6	1/19/2020 21:35	0.08	4.92	0.03	1.2
7	1/24/2020 7:10	0.52	37	0.07	4.2
8	1/26/2020 17:55	0.03	18.83	0.01	0.9
9	2/1/2020 19:05	0.04	2	0.03	5.3
10	2/4/2020 14:40	0.19	5	0.07	2.7
11	2/5/2020 20:05	0.22	3.08	0.09	1
12	2/6/2020 11:20	0.21	31.75	0.04	0.5
13	2/8/2020 16:00	0.01	0.08	0.01	0.9
14	2/9/2020 17:50	0.32	14.92	0.07	1.1
15	2/12/2020 19:15	0.42	22.75	0.1	2.4
16	2/17/2020 23:05	0.28	5.75	0.07	4.2
17	2/24/2020 20:10	0.22	4.58	0.09	6.6
18	2/25/2020 15:05	0.45	35.33	0.05	0.6
19	2/27/2020 18:45	0.01	0.08	0.01	0.7
20	2/29/2020 0:20	0.07	3.67	0.03	1.2
21	3/2/2020 7:45	0.48	34.83	0.16	2.2
22	3/4/2020 12:00	0.04	1.83	0.03	0.7
23	3/6/2020 6:40	0.12	18.08	0.03	1.7
24	3/10/2020 0:55	0.34	12.42	0.1	3
25	3/12/2020 23:20	0.38	2.92	0.28	2.4
26	3/16/2020 18:20	0.03	12.67	0.01	3.7
27	3/18/2020 15:05	1.38	6.92	0.43	1.3
28	3/19/2020 17:50	0.18	14.08	0.06	0.8
29	3/22/2020 19:35	0.21	15.42	0.06	2.5
30	3/26/2020 18:45	0.33	6.67	0.12	3.3
31	3/27/2020 21:05	3.63	37.08	1.57	0.8
32	3/30/2020 10:35	0.08	8.25	0.07	1
33	4/1/2020 7:55	0.02	0.92	0.02	1.5
34	4/7/2020 5:55	0.27	2.67	0.16	5.9
35	4/7/2020 22:25	0.95	2.92	0.62	0.6
36	4/9/2020 3:45	0.26	25	0.07	1.1
37	4/12/2020 22:40	0.35	12.58	0.09	2.7
38	4/15/2020 14:45	0.22	11	0.08	2.1

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2020 10:10	0.39	8.67	0.08	1.4
40	4/19/2020 20:55	0.01	0.08	0.01	2.1
41	4/21/2020 2:20	0.06	2.58	0.04	1.2
42	4/22/2020 18:45	0.07	1.92	0.04	1.6
43	4/23/2020 20:35	0.14	6.92	0.07	1
44	4/26/2020 0:30	0.54	14	0.17	1.9
45	4/27/2020 22:30	0.07	4.5	0.03	1.3
46	4/28/2020 18:30	0.09	3.42	0.08	0.6
47	4/29/2020 17:20	0.23	23.42	0.06	0.8
48	5/1/2020 7:00	0.04	1.58	0.03	0.6
49	5/9/2020 4:15	0.02	2	0.01	7.8
50	5/10/2020 10:05	0.49	20.75	0.21	1.2
51	5/11/2020 20:40	0.01	0.08	0.01	0.6
52	5/14/2020 9:05	2.69	33.08	1.01	2.5
53	5/17/2020 15:50	0.84	3.08	0.65	1.9
54	5/18/2020 7:35	1.36	30.08	0.28	0.5
55	5/22/2020 2:55	0.42	9.17	0.17	2.6
56	5/23/2020 1:20	0.01	0.08	0.01	0.6
57	5/28/2020 3:40	0.13	4.5	0.09	5.1
58	5/29/2020 11:40	0.61	13.25	0.33	1.1
59	6/1/2020 23:20	0.06	1.5	0.05	2.9
60	6/10/2020 18:35	0.64	1.17	0.63	8.7
61	6/13/2020 0:00	0.06	6.92	0.05	2.2
62	6/18/2020 19:55	0.02	2.42	0.01	5.5
63	6/19/2020 14:30	0.39	0.67	0.39	0.7
64	6/21/2020 21:30	0.6	14.08	0.21	2.3
65	6/23/2020 6:05	0.58	5.75	0.5	0.8
66	6/27/2020 1:45	0.26	3	0.17	3.6
67	6/27/2020 22:00	0.16	0.75	0.16	0.7
68	7/11/2020 0:05	0.6	9.08	0.17	13.1
69	7/16/2020 14:45	0.02	0.33	0.02	5.2
70	7/19/2020 16:30	0.18	0.42	0.18	3.1
71	7/22/2020 2:05	0.61	3.42	0.33	2.4
72	7/22/2020 21:15	0.01	0.08	0.01	0.7
73	7/23/2020 12:05	0.56	2.42	0.42	0.6
74	7/24/2020 5:55	0.01	0.08	0.01	0.6
75	7/27/2020 12:05	0.83	13	0.44	3.3
76	8/1/2020 10:20	1.39	29.92	0.93	4.4

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/3/2020 12:00	1.76	3.08	1.3	0.8
78	8/4/2020 6:50	0.24	9.5	0.16	0.7
79	8/16/2020 11:15	0.57	2.42	0.51	11.8
80	8/17/2020 4:50	0.08	8.83	0.07	0.6
81	8/23/2020 17:45	0.09	5.17	0.08	6.2
82	8/26/2020 6:50	0.17	4.33	0.14	2.3
83	8/27/2020 15:05	0.04	0.17	0.04	1.2
84	8/28/2020 8:10	3.08	21	1	0.7
85	9/2/2020 3:25	0.2	8.83	0.09	3.9
86	9/7/2020 6:15	4.07	7.25	1.4	4.8
87	9/10/2020 7:00	0.01	0.08	0.01	2.7
88	9/12/2020 19:30	0.18	12.67	0.16	2.5
89	9/28/2020 15:00	1.72	8.67	0.8	15.3
90	9/30/2020 19:45	0.03	0.92	0.03	1.8
91	10/1/2020 12:45	0.67	20.83	0.18	0.7
92	10/4/2020 15:05	0.28	12.75	0.19	2.2
93	10/10/2020 20:55	0.02	0.17	0.02	5.7
94	10/12/2020 22:05	0.51	2.25	0.35	2
95	10/15/2020 12:05	0.21	4.92	0.07	2.5
96	10/18/2020 12:25	0.99	45.33	0.09	2.8
97	10/20/2020 23:35	1.49	12.42	0.47	0.6
98	10/22/2020 0:35	0.07	4.33	0.04	0.5
99	10/23/2020 18:20	0.75	6.67	0.56	1.6
100	10/26/2020 2:00	0.23	23.92	0.03	2
101	10/27/2020 14:55	0.34	15.92	0.06	0.5
102	10/29/2020 3:20	1.29	31.33	0.2	0.9
103	11/1/2020 7:20	0.1	13.58	0.07	1.9
104	11/11/2020 0:30	0.08	6.67	0.02	9.1
105	11/14/2020 23:45	0.34	13.58	0.09	3.7
106	11/17/2020 4:35	0.14	8.33	0.05	1.6
107	11/22/2020 6:55	0.79	11.92	0.15	4.8
108	11/24/2020 16:40	0.03	0.33	0.03	1.9
109	11/25/2020 10:15	0.68	21.5	0.18	0.7
110	11/27/2020 19:50	0.03	1.5	0.02	1.5
111	11/30/2020 4:35	3.18	40.25	0.17	2.3
112	12/5/2020 13:05	0.07	3.08	0.05	3.7
113	12/12/2020 7:30	0.38	8.92	0.28	6.6
114	12/13/2020 5:55	0.04	2.08	0.03	0.6

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/16/2020 10:45	0.12	46.83	0.02	3.1
116	12/19/2020 19:40	0.1	5.17	0.05	1.4
117	12/20/2020 15:00	0.01	0.08	0.01	0.6
118	12/21/2020 17:00	0.06	8.58	0.03	1.1
119	12/24/2020 1:00	0.51	35.08	0.08	2
120	12/26/2020 1:30	0.03	1.67	0.02	0.6
121	12/27/2020 22:05	0.12	4.42	0.05	1.8
122	12/29/2020 23:25	0.03	0.33	0.03	1.9
123	12/30/2020 13:00	0.37	9.58	0.09	0.6

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 4:25	0.45	39.67	0.06	2.2
2	1/10/2020 0:30	1.25	51.75	0.15	5.2
3	1/15/2020 17:40	0.09	3.25	0.08	3.6
4	1/18/2020 1:20	0.6	21.75	0.15	2.2
5	1/20/2020 0:15	0.02	1.33	0.01	1
6	1/24/2020 7:00	0.5	36	0.07	4.2
7	1/26/2020 18:05	0.02	7.92	0.01	1
8	1/28/2020 19:35	0.01	0.08	0.01	1.7
9	2/1/2020 19:00	0.03	1.75	0.02	4
10	2/4/2020 14:40	0.19	4.08	0.07	2.7
11	2/5/2020 19:00	0.38	48.33	0.1	1
12	2/9/2020 18:00	0.24	14.25	0.08	1.9
13	2/12/2020 19:10	0.42	22.92	0.1	2.5
14	2/17/2020 23:05	0.32	5.67	0.08	4.2
15	2/24/2020 20:15	0.24	4.33	0.1	6.6
16	2/25/2020 13:50	0.42	37.17	0.08	0.6
17	2/29/2020 4:20	0.01	0.08	0.01	2.1
18	3/2/2020 7:45	0.43	34.75	0.14	2.1
19	3/4/2020 12:20	0.02	0.58	0.02	0.7
20	3/6/2020 8:35	0.09	8	0.03	1.8
21	3/10/2020 1:00	0.29	10.58	0.09	3.4
22	3/12/2020 21:20	0.38	4.5	0.27	2.4
23	3/16/2020 18:05	0.04	14	0.01	3.7
24	3/18/2020 15:00	1.34	6.75	0.34	1.3
25	3/19/2020 17:45	0.31	14.17	0.2	0.8
26	3/22/2020 19:30	0.23	15.42	0.06	2.5
27	3/26/2020 18:35	0.24	6.75	0.13	3.3
28	3/27/2020 20:55	3.44	37.17	1.63	0.8
29	3/30/2020 17:00	0.06	2.08	0.05	1.3
30	4/1/2020 0:00	0.03	9.25	0.01	1.2
31	4/7/2020 6:00	0.31	2.42	0.16	5.9
32	4/7/2020 22:30	0.83	2.75	0.53	0.6
33	4/9/2020 2:55	0.32	12.5	0.1	1.1
34	4/10/2020 3:50	0.1	1.08	0.09	0.5

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
35	4/12/2020 22:00	0.37	12.92	0.09	2.7
36	4/15/2020 14:25	0.25	11	0.09	2.1
37	4/16/2020 15:00	0.01	0.08	0.01	0.6
38	4/17/2020 10:25	0.32	8.75	0.06	0.8
39	4/21/2020 2:10	0.06	1.17	0.05	3.3
40	4/22/2020 18:25	0.05	4.08	0.03	1.6
41	4/23/2020 16:55	0.15	10.92	0.06	0.8
42	4/25/2020 22:20	0.72	14.92	0.21	1.8
43	4/27/2020 22:20	0.07	4.5	0.04	1.4
44	4/28/2020 21:00	0.05	0.25	0.05	0.8
45	4/29/2020 17:20	0.21	23	0.06	0.8
46	5/1/2020 6:05	0.04	2.08	0.03	0.6
47	5/8/2020 17:00	0.04	11.75	0.03	7.4
48	5/10/2020 16:50	0.42	17.25	0.23	1.5
49	5/14/2020 9:00	2.08	44	0.62	3
50	5/17/2020 15:45	0.79	1.5	0.65	1.4
51	5/18/2020 7:00	1.4	28.42	0.27	0.6
52	5/22/2020 2:45	0.61	12.08	0.17	2.6
53	5/23/2020 4:25	0.01	0.08	0.01	0.6
54	5/28/2020 3:30	0.15	4.75	0.09	5
55	5/29/2020 11:35	0.48	11.83	0.31	1.1
56	6/1/2020 23:20	0.06	4	0.04	3
57	6/10/2020 18:35	0.69	9.5	0.68	8.6
58	6/13/2020 0:05	0.07	3.17	0.06	1.8
59	6/19/2020 14:45	1.06	1.42	1.04	6.5
60	6/21/2020 21:15	0.66	18.08	0.18	2.2
61	6/23/2020 6:05	0.21	5	0.17	0.6
62	6/27/2020 1:45	0.2	3.17	0.17	3.6
63	7/8/2020 18:00	1.47	1.25	1.46	11.5
64	7/11/2020 1:00	1.09	8.25	0.63	2.2
65	7/13/2020 1:45	0.01	0.08	0.01	1.7
66	7/16/2020 14:50	0.04	0.42	0.04	3.5
67	7/19/2020 16:25	0.54	3.75	0.52	3
68	7/22/2020 2:05	0.47	5.75	0.23	2.2

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
69	7/22/2020 21:00	0.54	28.33	0.47	0.5
70	7/27/2020 12:20	1.38	13.08	0.73	3.5
71	7/29/2020 22:05	0.01	0.08	0.01	1.9
72	8/1/2020 9:40	1.69	30.58	1.36	2.5
73	8/3/2020 13:00	2.85	1.92	2.21	0.9
74	8/4/2020 21:10	0.02	7	0.01	1.3
75	8/16/2020 11:15	0.72	14.17	0.58	11.3
76	8/17/2020 13:25	0.08	0.42	0.08	0.5
77	8/18/2020 7:20	0.01	0.08	0.01	0.7
78	8/26/2020 8:25	0.93	2.67	0.89	8
79	8/28/2020 8:45	1.6	20.5	0.61	1.9
80	9/2/2020 3:15	0.16	9	0.05	3.9
81	9/7/2020 6:15	3.75	7.75	1.17	4.8
82	9/10/2020 7:15	0.01	0.08	0.01	2.7
83	9/13/2020 6:55	0.21	1.42	0.19	3
84	9/28/2020 15:40	1.9	8.25	0.86	15.3
85	9/30/2020 16:30	0.02	3.42	0.01	1.7
86	10/1/2020 12:45	0.46	18.08	0.15	0.7
87	10/4/2020 14:55	0.26	12.83	0.19	2.3
88	10/10/2020 21:35	0.01	0.08	0.01	5.7
89	10/12/2020 22:05	0.48	3	0.35	2
90	10/15/2020 12:15	0.16	5.33	0.05	2.5
91	10/18/2020 13:00	0.91	44.5	0.11	2.8
92	10/20/2020 23:30	1.38	12.17	0.39	0.6
93	10/22/2020 0:35	0.04	1	0.04	0.5
94	10/23/2020 16:50	0.45	8.08	0.26	1.6
95	10/26/2020 2:45	0.17	19.92	0.03	2.1
96	10/27/2020 14:40	0.28	15.83	0.05	0.7
97	10/29/2020 2:45	1.33	30.5	0.17	0.8
98	11/1/2020 7:30	0.1	12.83	0.08	1.9
99	11/11/2020 0:25	0.11	6.75	0.03	9.2
100	11/14/2020 23:50	0.32	13.42	0.08	3.7
101	11/17/2020 5:15	0.07	9.42	0.03	1.7
102	11/22/2020 6:55	0.76	12	0.14	4.7

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
103	11/24/2020 16:35	0.02	0.25	0.02	1.9
104	11/25/2020 9:45	0.64	21.58	0.15	0.7
105	11/27/2020 20:15	0.01	0.08	0.01	1.5
106	11/30/2020 4:35	2.11	39.67	0.11	2.3
107	12/5/2020 12:45	0.04	3	0.03	3.7
108	12/7/2020 5:05	0.01	0.08	0.01	1.6
109	12/12/2020 9:05	0.3	7.92	0.23	5.2
110	12/13/2020 5:15	0.02	3.17	0.01	0.5
111	12/16/2020 11:20	0.08	46	0.01	3.1
112	12/19/2020 20:10	0.11	5	0.04	1.5
113	12/20/2020 15:15	0.02	0.75	0.02	0.6
114	12/21/2020 16:10	0.15	17	0.1	1
115	12/23/2020 18:40	0.49	47.42	0.07	1.4
116	12/27/2020 22:10	0.08	4.08	0.05	2.2
117	12/29/2020 23:15	0.02	0.25	0.02	1.9
118	12/30/2020 13:05	0.35	8.83	0.08	0.6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 6:55	0.46	42.75	0.05	2.3
2	1/8/2020 0:45	0.03	6.33	0.02	3
3	1/10/2020 0:25	1.01	51.92	0.11	1.7
4	1/15/2020 18:15	0.09	3.42	0.06	3.6
5	1/18/2020 1:55	0.62	22.75	0.14	2.2
6	1/19/2020 19:00	0.18	16.92	0.05	0.8
7	1/24/2020 9:30	0.52	39.08	0.09	3.9
8	1/26/2020 17:00	0.12	20.08	0.04	0.7
9	1/28/2020 20:15	0.01	0.08	0.01	1.3
10	1/31/2020 12:30	0.01	0.08	0.01	2.7
11	2/1/2020 19:00	0.07	11	0.03	1.3
12	2/4/2020 15:05	0.08	4.58	0.05	2.4
13	2/5/2020 19:25	0.25	3.67	0.12	1
14	2/6/2020 11:15	0.6	32.33	0.37	0.5
15	2/8/2020 16:50	0.01	0.08	0.01	0.9
16	2/9/2020 17:50	0.25	13.5	0.08	1
17	2/12/2020 19:50	0.38	22.5	0.08	2.5
18	2/17/2020 23:40	0.21	6.17	0.06	4.2
19	2/24/2020 21:00	0.15	4	0.06	6.6
20	2/25/2020 19:15	0.13	5.83	0.05	0.8
21	2/26/2020 13:50	0.35	12.67	0.06	0.5
22	2/27/2020 16:50	0.02	3.58	0.01	0.6
23	2/29/2020 3:40	0.01	0.08	0.01	1.3
24	3/2/2020 10:05	0.56	32.83	0.17	2.3
25	3/4/2020 12:10	0.07	1.75	0.04	0.7
26	3/6/2020 8:50	0.04	4.33	0.02	1.8
27	3/10/2020 1:40	0.32	11.92	0.16	3.5
28	3/12/2020 23:35	0.29	2.42	0.19	2.4
29	3/14/2020 21:40	0.01	0.08	0.01	1.8
30	3/16/2020 18:15	0.04	1.75	0.03	1.9
31	3/18/2020 15:05	0.98	10.58	0.24	1.8
32	3/19/2020 17:45	0.36	17.75	0.23	0.7
33	3/22/2020 20:50	0.16	12.67	0.07	2.4
34	3/26/2020 17:50	0.38	7.17	0.08	3.3
35	3/27/2020 23:05	2.39	35.67	0.78	0.9
36	3/30/2020 2:45	0.07	15.42	0.04	0.7
37	4/1/2020 7:05	0.02	0.42	0.02	1.5
38	4/7/2020 7:15	0.8	18	0.51	6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/9/2020 0:10	0.31	13.92	0.13	1
40	4/12/2020 5:45	0.49	29.67	0.17	2.7
41	4/15/2020 15:20	0.21	13.67	0.08	2.2
42	4/17/2020 10:15	0.26	7.92	0.06	1.2
43	4/21/2020 2:15	0.11	1.5	0.07	3.3
44	4/22/2020 17:15	0.06	3.5	0.03	1.6
45	4/23/2020 15:45	0.08	15.58	0.04	0.8
46	4/26/2020 0:35	0.6	15.42	0.12	1.7
47	4/27/2020 22:25	0.09	6.25	0.03	1.3
48	4/28/2020 19:10	0.12	3.42	0.06	0.6
49	4/29/2020 18:35	0.32	18.5	0.13	0.8
50	5/1/2020 6:00	0.09	4.33	0.05	0.7
51	5/2/2020 20:15	0.09	1.33	0.08	1.4
52	5/9/2020 5:15	0.01	0.08	0.01	6.3
53	5/10/2020 10:50	0.76	20	0.19	1.2
54	5/14/2020 9:50	2.32	34.25	0.49	3.1
55	5/17/2020 9:35	0.52	9	0.36	1.6
56	5/18/2020 8:10	0.71	21.25	0.13	0.6
57	5/22/2020 3:35	0.52	10	0.23	2.9
58	5/28/2020 5:40	0.18	8.5	0.12	5.7
59	5/29/2020 13:15	0.56	14.08	0.35	1
60	6/1/2020 23:45	0.04	2.67	0.03	2.9
61	6/3/2020 6:45	0.03	0.08	0.03	1.2
62	6/10/2020 19:05	0.64	9.33	0.58	7.5
63	6/18/2020 20:00	0.1	2.17	0.09	7.6
64	6/21/2020 22:25	0.28	14.58	0.15	3
65	6/23/2020 6:35	0.77	9.17	0.71	0.7
66	6/26/2020 22:30	1.19	6.33	0.69	3.3
67	6/27/2020 21:55	0.17	0.33	0.17	0.7
68	7/10/2020 15:50	2.12	18.08	0.54	12.7
69	7/16/2020 14:25	0.04	1	0.04	5.2
70	7/19/2020 16:35	0.38	0.5	0.38	3
71	7/22/2020 2:50	0.25	2.75	0.17	2.4
72	7/23/2020 10:30	0.52	0.75	0.52	1.2
73	7/27/2020 13:50	0.69	11.92	0.28	4.1
74	8/1/2020 12:00	0.63	28.42	0.25	4.4
75	8/3/2020 12:55	0.57	3.42	0.4	0.9
76	8/4/2020 6:20	0.94	15.5	0.6	0.6

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/16/2020 11:30	0.32	1.83	0.28	11.6
78	8/23/2020 15:15	0.01	0.08	0.01	7.1
79	8/26/2020 8:40	0.41	2.83	0.29	2.7
80	8/28/2020 7:05	2.01	23.42	0.75	1.8
81	9/2/2020 3:15	0.69	9.17	0.46	3.9
82	9/7/2020 6:05	3.59	6.67	1.22	4.7
83	9/13/2020 7:05	0.45	1.17	0.44	5.8
84	9/28/2020 16:25	1.85	7.25	0.91	15.3
85	9/30/2020 19:10	0.06	1	0.06	1.8
86	10/1/2020 13:00	0.49	14.5	0.16	0.7
87	10/2/2020 20:45	0.03	3.33	0.02	0.7
88	10/4/2020 15:30	0.28	4.5	0.15	1.6
89	10/10/2020 20:20	0.03	0.17	0.03	6
90	10/12/2020 22:35	0.82	3.42	0.47	2.1
91	10/15/2020 12:05	0.21	14.5	0.05	2.4
92	10/18/2020 13:30	0.08	1.08	0.07	2.5
93	10/19/2020 2:50	0.88	32.25	0.11	0.5
94	10/20/2020 23:55	2.14	11.75	0.76	0.5
95	10/22/2020 1:45	0.18	3.25	0.13	0.6
96	10/23/2020 17:40	0.38	7.58	0.14	1.5
97	10/26/2020 2:20	0.32	19.83	0.06	2
98	10/27/2020 14:50	0.3	16.5	0.05	0.7
99	10/29/2020 4:00	1.04	28.08	0.2	0.9
100	11/1/2020 7:35	0.15	9.25	0.08	2
101	11/11/2020 2:10	0.12	4.67	0.05	9.4
102	11/15/2020 0:25	0.29	13	0.08	3.7
103	11/17/2020 4:25	0.11	7.67	0.04	1.6
104	11/22/2020 7:20	0.7	11.75	0.14	4.8
105	11/23/2020 7:10	0.01	0.08	0.01	0.5
106	11/24/2020 17:05	0.01	0.08	0.01	1.4
107	11/25/2020 10:30	0.7	25.92	0.15	0.7
108	11/30/2020 5:20	2.9	38.08	0.19	3.7
109	12/12/2020 8:00	0.26	25.75	0.16	10.5
110	12/16/2020 11:55	0.01	0.08	0.01	3.1
111	12/17/2020 1:05	0.01	0.08	0.01	0.5
112	12/17/2020 19:20	0.07	18.33	0.02	0.8
113	12/19/2020 20:05	0.17	19.25	0.06	1.3
114	12/21/2020 17:25	0.1	15.83	0.06	1.1

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:50	1.06	40.67	0.15	1.4
116	12/26/2020 3:10	0.01	0.08	0.01	0.6
117	12/27/2020 22:40	0.09	3.92	0.04	1.8
118	12/29/2020 23:55	0.01	0.08	0.01	1.9
119	12/30/2020 14:05	0.29	7.75	0.1	0.6

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:35	0.39	44.58	0.05	2.2
2	1/8/2020 6:45	0.02	0.33	0.02	3.2
3	1/10/2020 0:20	0.98	48.92	0.11	1.7
4	1/15/2020 18:10	0.09	3.42	0.07	3.7
5	1/18/2020 1:55	0.75	15	0.18	2.2
6	1/19/2020 19:50	0.01	0.08	0.01	1.1
7	1/20/2020 14:25	0.01	0.08	0.01	0.8
8	1/24/2020 9:35	0.59	36.83	0.12	3.8
9	1/26/2020 16:50	0.06	9.33	0.03	0.8
10	1/28/2020 20:50	0.01	0.08	0.01	1.8
11	2/1/2020 19:10	0.05	10.67	0.02	3.9
12	2/4/2020 15:00	0.07	2.92	0.04	2.4
13	2/5/2020 18:55	0.25	4.33	0.12	1
14	2/6/2020 11:45	0.15	31.75	0.04	0.5
15	2/8/2020 16:30	0.02	1	0.02	0.9
16	2/9/2020 18:35	0.21	12.58	0.07	1
17	2/12/2020 20:00	0.37	23.67	0.08	2.5
18	2/17/2020 23:35	0.2	6.5	0.06	4.2
19	2/24/2020 20:55	0.17	6.83	0.07	6.6
20	2/25/2020 19:25	0.34	29.92	0.05	0.7
21	3/2/2020 10:00	0.1	9.25	0.03	4.4
22	3/3/2020 7:45	0.33	11.17	0.17	0.5
23	3/4/2020 12:20	0.04	1.33	0.03	0.7
24	3/5/2020 4:30	0.01	0.08	0.01	0.6
25	3/6/2020 10:00	0.02	4.25	0.01	1.2
26	3/10/2020 1:20	0.26	10.33	0.15	3.5
27	3/12/2020 23:40	0.26	2.67	0.16	2.5
28	3/16/2020 18:55	0.02	0.83	0.02	3.7
29	3/18/2020 15:05	0.98	7	0.22	1.8
30	3/19/2020 17:40	0.4	13.33	0.26	0.8
31	3/22/2020 20:15	0.18	14.75	0.08	2.6
32	3/26/2020 17:50	0.37	7.08	0.08	3.3
33	3/27/2020 22:55	2.59	35.5	0.86	0.9
34	3/30/2020 2:35	0.05	2.58	0.04	0.7
35	4/1/2020 7:05	0.02	0.25	0.02	2.1
36	4/7/2020 7:30	0.8	17.75	0.52	6
37	4/9/2020 0:05	0.26	13.92	0.07	1
38	4/12/2020 5:40	0.02	0.67	0.02	2.7

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/12/2020 23:15	0.34	11.75	0.08	0.7
40	4/15/2020 15:15	0.17	13.58	0.08	2.2
41	4/17/2020 10:30	0.32	7.75	0.07	1.2
42	4/19/2020 21:45	0.01	0.08	0.01	2.1
43	4/21/2020 2:05	0.14	1.5	0.09	1.2
44	4/22/2020 17:35	0.07	7.17	0.03	1.6
45	4/24/2020 0:40	0.06	2.17	0.04	1
46	4/26/2020 0:45	0.43	13.17	0.12	1.9
47	4/27/2020 22:10	0.08	6.5	0.03	1.3
48	4/28/2020 19:05	0.06	3.33	0.03	0.6
49	4/29/2020 18:35	0.42	17.25	0.26	0.8
50	5/1/2020 7:00	0.03	0.42	0.03	0.8
51	5/2/2020 19:20	0.08	1.25	0.07	1.5
52	5/10/2020 13:40	0.6	17	0.18	7.7
53	5/14/2020 9:35	1.94	32.75	0.4	3.1
54	5/17/2020 16:20	0.46	2.42	0.36	1.9
55	5/18/2020 7:40	0.74	23.5	0.17	0.5
56	5/22/2020 3:35	0.54	9.92	0.24	2.9
57	5/25/2020 16:25	0.07	0.67	0.07	3.1
58	5/28/2020 7:10	0.18	6.83	0.13	2.6
59	5/29/2020 13:15	0.44	10.58	0.26	1
60	6/1/2020 23:35	0.04	1.17	0.03	3
61	6/3/2020 6:40	0.02	0.08	0.02	1.2
62	6/10/2020 18:55	0.75	1.5	0.73	7.5
63	6/18/2020 20:10	0.02	0.42	0.02	8
64	6/21/2020 16:00	0.28	20.75	0.12	2.8
65	6/23/2020 6:25	0.75	5.5	0.7	0.7
66	6/26/2020 22:30	1.4	6.25	0.84	3.4
67	6/27/2020 21:45	0.07	0.33	0.07	0.7
68	7/10/2020 12:00	2.9	20.67	0.84	12.6
69	7/16/2020 14:00	0.05	1.17	0.03	5.2
70	7/19/2020 12:55	0.4	4.08	0.3	2.9
71	7/22/2020 2:45	0.2	3.25	0.13	2.4
72	7/27/2020 12:25	0.74	15.67	0.25	5.3
73	8/1/2020 12:20	0.53	27.83	0.24	4.3
74	8/3/2020 12:30	0.41	3	0.2	0.8
75	8/4/2020 6:00	1.14	15.58	1.08	0.6
76	8/16/2020 11:20	0.67	4.75	0.61	11.6

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2020 13:35	0.03	1.33	0.02	0.9
78	8/26/2020 9:35	0.32	2.42	0.21	8.8
79	8/28/2020 6:55	2.22	22.83	0.88	1.8
80	9/2/2020 3:25	0.35	8.67	0.28	3.9
81	9/7/2020 6:00	3.25	6.92	0.93	4.7
82	9/13/2020 6:45	0.41	1.33	0.35	5.7
83	9/28/2020 15:55	1.93	7.67	0.84	15.3
84	9/30/2020 19:05	0.07	1.42	0.06	1.8
85	10/1/2020 14:15	0.55	12.58	0.29	0.7
86	10/2/2020 20:35	0.07	4	0.03	0.7
87	10/4/2020 15:25	0.26	3.08	0.17	1.6
88	10/10/2020 19:25	0.03	0.83	0.03	6
89	10/12/2020 22:20	0.75	3.08	0.46	2.1
90	10/15/2020 12:20	0.18	4.83	0.07	2.5
91	10/18/2020 13:20	0.08	0.58	0.08	2.8
92	10/19/2020 2:45	0.9	31.83	0.11	0.5
93	10/20/2020 23:55	2.77	10.83	1.11	0.6
94	10/22/2020 2:10	0.44	2.5	0.27	0.6
95	10/23/2020 17:15	0.58	7.83	0.22	1.5
96	10/26/2020 2:25	0.34	17.58	0.08	2.1
97	10/27/2020 10:15	0.32	20.42	0.06	0.6
98	10/29/2020 3:55	0.94	31.92	0.15	0.9
99	11/1/2020 7:35	0.13	7	0.08	1.8
100	11/11/2020 2:10	0.05	3.25	0.03	9.5
101	11/15/2020 0:15	0.35	13	0.13	3.8
102	11/17/2020 4:40	0.09	7.58	0.06	1.6
103	11/22/2020 7:30	0.73	11.25	0.13	4.8
104	11/23/2020 7:25	0.01	0.08	0.01	0.5
105	11/24/2020 17:00	0.03	0.33	0.03	1.4
106	11/25/2020 10:40	0.64	20.33	0.14	0.7
107	11/30/2020 5:00	2.04	38.17	0.14	3.9
108	12/12/2020 7:55	0.28	8.58	0.18	10.5
109	12/13/2020 4:55	0.02	2.42	0.01	0.5
110	12/16/2020 23:35	0.02	1.83	0.01	3.7
111	12/17/2020 20:15	0.12	15.5	0.05	0.8
112	12/19/2020 19:15	0.18	6.67	0.07	1.3
113	12/20/2020 15:45	0.01	0.08	0.01	0.6
114	12/21/2020 17:35	0.09	4	0.07	1.1

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/23/2020 19:15	0.78	40.83	0.07	1.9
116	12/26/2020 2:20	0.01	0.08	0.01	0.6
117	12/27/2020 22:25	0.11	4.17	0.05	1.8
118	12/29/2020 23:50	0.02	0.5	0.02	1.9
119	12/30/2020 14:15	0.29	7.75	0.1	0.6

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/3/2020 5:30	0.32	44.5	0.05	2.2
2	1/9/2020 23:05	1.19	53	0.16	4.9
3	1/13/2020 7:45	0.01	0.08	0.01	1.2
4	1/15/2020 17:55	0.06	2.08	0.05	2.4
5	1/18/2020 1:20	0.81	15.33	0.17	2.2
6	1/19/2020 21:55	0.02	2	0.01	1.2
7	1/24/2020 6:30	0.45	41.75	0.07	4.3
8	1/26/2020 16:55	0.01	0.08	0.01	0.7
9	2/1/2020 18:50	0.03	1.58	0.02	6.1
10	2/4/2020 14:50	0.08	4.67	0.04	2.8
11	2/5/2020 18:55	0.39	43.33	0.12	1
12	2/8/2020 15:20	0.01	0.08	0.01	1
13	2/9/2020 17:40	0.33	13.33	0.07	1.1
14	2/12/2020 20:00	0.4	23.08	0.08	2.5
15	2/17/2020 23:20	0.15	6.17	0.05	4.2
16	2/24/2020 19:10	0.21	5.58	0.08	6.6
17	2/25/2020 18:45	0.47	31.08	0.08	0.8
18	2/29/2020 2:20	0.01	0.08	0.01	2
19	3/2/2020 3:45	0.39	38.83	0.11	2.1
20	3/4/2020 12:10	0.02	0.5	0.02	0.7
21	3/6/2020 8:50	0.04	3	0.02	1.8
22	3/10/2020 0:20	0.24	11.42	0.1	3.5
23	3/12/2020 21:30	0.25	3.67	0.16	2.4
24	3/14/2020 20:40	0.01	0.08	0.01	1.8
25	3/16/2020 18:55	0.06	1.42	0.05	1.9
26	3/18/2020 14:45	1.01	7.42	0.2	1.8
27	3/19/2020 17:25	0.35	17.17	0.18	0.8
28	3/22/2020 20:05	0.24	14.58	0.09	2.4
29	3/26/2020 17:45	0.37	7.5	0.08	3.3
30	3/27/2020 22:20	2.55	28	0.62	0.9
31	3/30/2020 2:15	0.06	16.42	0.02	1
32	4/7/2020 5:50	1.18	23.5	0.7	7.5
33	4/8/2020 23:50	0.27	13.92	0.11	0.8
34	4/12/2020 6:00	0.01	0.08	0.01	2.7
35	4/12/2020 22:30	0.32	10.58	0.08	0.7
36	4/15/2020 14:15	0.15	11.67	0.07	2.2
37	4/17/2020 10:00	0.42	8.17	0.09	1.3
38	4/19/2020 20:25	0.03	0.33	0.03	2.1

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2020 1:55	0.11	1.83	0.06	1.2
40	4/22/2020 18:40	0.1	1.67	0.06	1.6
41	4/23/2020 21:20	0.11	8.67	0.06	1
42	4/26/2020 1:10	0.77	11.25	0.19	1.8
43	4/27/2020 22:20	0.05	3.42	0.03	1.4
44	4/28/2020 18:45	0.23	3.17	0.15	0.7
45	4/29/2020 16:45	0.23	24.17	0.07	0.8
46	5/10/2020 10:10	0.64	20	0.21	9.7
47	5/11/2020 19:50	0.01	0.08	0.01	0.6
48	5/14/2020 9:00	2.02	44.75	0.76	2.5
49	5/17/2020 12:10	2.35	45.5	0.43	1.3
50	5/22/2020 0:00	0.61	12.83	0.22	2.6
51	5/28/2020 5:05	0.15	8.92	0.07	5.7
52	5/29/2020 12:35	0.5	3.92	0.27	0.9
53	5/30/2020 4:35	0.01	0.08	0.01	0.5
54	6/1/2020 23:10	0.08	1.58	0.06	2.8
55	6/10/2020 18:30	0.28	9.25	0.27	8.7
56	6/12/2020 23:50	0.07	1.75	0.06	1.8
57	6/18/2020 20:10	0.05	6.75	0.04	5.8
58	6/21/2020 22:00	0.16	12.33	0.06	2.8
59	6/23/2020 6:20	0.75	4.75	0.59	0.8
60	6/26/2020 22:00	0.69	6.5	0.41	3.5
61	6/27/2020 21:25	0.11	3.17	0.1	0.7
62	7/2/2020 7:40	0.01	0.08	0.01	4.3
63	7/10/2020 15:15	0.38	12.25	0.21	8.3
64	7/16/2020 8:50	0.03	0.08	0.03	5.2
65	7/19/2020 16:25	0.37	0.42	0.37	3.3
66	7/22/2020 2:25	0.43	2.67	0.34	2.4
67	7/23/2020 9:45	0.25	4.08	0.13	1.2
68	7/27/2020 13:35	1.59	11.83	0.63	4
69	7/29/2020 21:25	0.17	2.42	0.14	1.8
70	8/1/2020 11:35	0.92	36.67	0.21	2.5
71	8/3/2020 13:25	0.02	0.25	0.02	0.5
72	8/4/2020 8:55	0.15	20.17	0.1	0.8
73	8/16/2020 10:50	1.34	2.42	1.06	11.2
74	8/17/2020 13:40	0.06	0.08	0.06	1
75	8/26/2020 6:45	0.19	1.92	0.18	8.7
76	8/28/2020 7:55	3.58	21.75	1.65	2

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/2/2020 3:10	0.2	8.58	0.11	3.9
78	9/7/2020 5:55	3.45	6.92	0.91	4.8
79	9/13/2020 7:10	0.29	1.08	0.28	5.8
80	9/28/2020 16:15	1.25	14.33	0.71	15.3
81	9/30/2020 18:50	0.03	0.67	0.03	1.5
82	10/1/2020 12:20	0.82	18.42	0.25	0.7
83	10/4/2020 12:50	0.22	4.17	0.11	2.3
84	10/10/2020 19:30	0.01	0.08	0.01	6.1
85	10/12/2020 22:05	0.46	2.25	0.31	2.1
86	10/15/2020 12:10	0.16	4.33	0.06	2.5
87	10/18/2020 12:15	0.1	1.42	0.09	2.8
88	10/19/2020 2:10	1.08	32.33	0.22	0.5
89	10/20/2020 23:35	2.12	10.92	0.81	0.5
90	10/22/2020 1:10	0.37	3.75	0.22	0.6
91	10/23/2020 17:20	0.54	6.67	0.33	1.5
92	10/26/2020 1:45	0.28	18.42	0.05	2.1
93	10/27/2020 14:30	0.29	14.33	0.06	0.8
94	10/29/2020 3:00	0.91	28.83	0.11	0.9
95	11/1/2020 7:10	0.11	8.42	0.08	2
96	11/11/2020 1:40	0.1	5.25	0.07	9.4
97	11/14/2020 23:25	0.41	13.75	0.11	3.7
98	11/17/2020 4:20	0.06	4.83	0.03	1.6
99	11/22/2020 7:30	0.69	23.17	0.12	4.9
100	11/24/2020 16:35	0.03	0.42	0.03	1.4
101	11/25/2020 10:15	0.61	18.67	0.15	0.7
102	11/27/2020 20:50	0.01	0.08	0.01	1.7
103	11/30/2020 4:30	2.25	39.17	0.15	2.3
104	12/7/2020 5:30	0.04	1.75	0.02	5.4
105	12/12/2020 7:25	0.14	8.58	0.04	5
106	12/13/2020 4:50	0.03	2.92	0.02	0.5
107	12/16/2020 13:00	0.17	44.25	0.04	3.2
108	12/19/2020 17:05	0.09	7.08	0.03	1.3
109	12/20/2020 15:40	0.01	0.08	0.01	0.6
110	12/21/2020 18:00	0.19	14.83	0.08	1.1
111	12/23/2020 18:40	0.61	40.42	0.06	1.4
112	12/27/2020 21:50	0.07	4.25	0.03	2.4
113	12/28/2020 16:30	0.03	2.92	0.02	0.6
114	12/29/2020 23:25	0.05	0.5	0.05	1.2

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/30/2020 12:20	0.42	8.92	0.1	0.5

Appendix B: Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen polygon was constructed based on the temporary gauges, following the approach described below.

1. **Create precipitation gauge boundaries in ArcGIS via Thiessen Polygon tool**.
   A) ArcToolbox → Analysis Tools → Proximity → **Create Thiessen Polygons**
      i. Input Features: Precipitation gauge point shapefile
      ii. **OK** to generate Thiessen Polygons. The default processing extent is the same extent as the precipitation gauge point features with a 10% buffer (see **Figure B1**). The extent can be changed in the Environment settings. **NOTE: Figure B1** is representative example of the boundaries generated. Boundaries may vary depending on the number and location of precipitation gauges used.

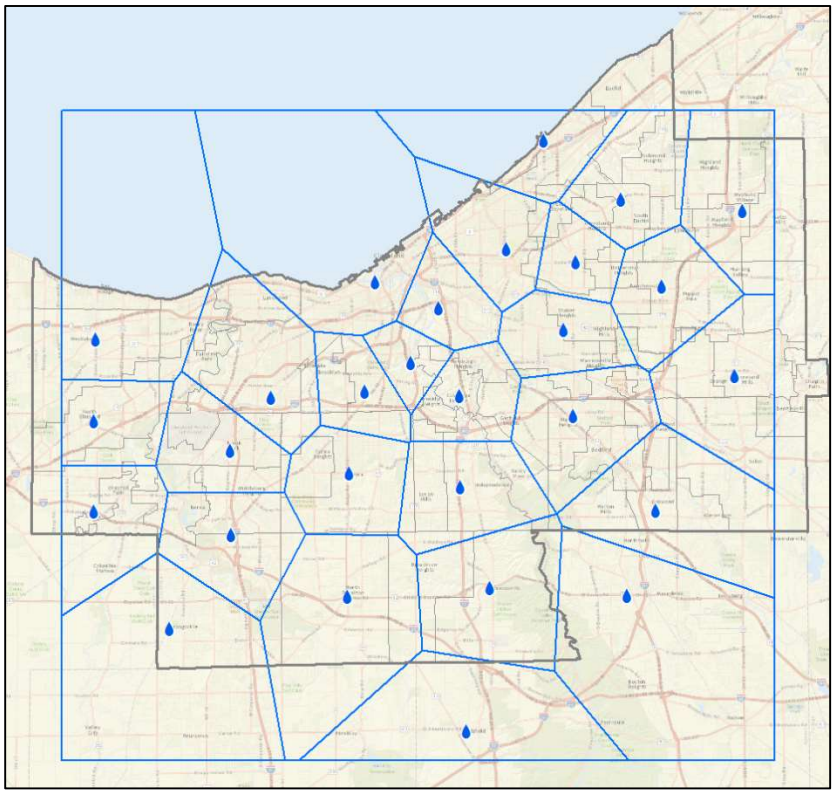


Figure B1. Precipitation Gauge Boundaries Generated Using the Thiessen Polygon Tool in ArcGIS

   B) Add Field "PROFILE" to the precipitation gauge boundary shapefile of Type: SHORT.
   C) Assign each precipitation gauge boundary with a unique ID# under the PROFILE field. This will be used by InfoWorks ICM to assign rainfall profiles to subcatchments.

2. **Add the Precipitation Gauge boundaries to the InfoWorks ICM model.2.**
   A) Import precipitation gauge boundary shapefile as a GIS layer.
   B) GeoPlan → Precipitation Gauge data → **Import from map data…**
      i. Select precipitation gauge boundary layer, then Import.

C) Verify that all the model subcatchments lie completely within the precipitation gauge boundaries. If they do not, the boundaries need to be manually adjusted in GIS, as shown in **Figure B2**, and re-imported into ICM.

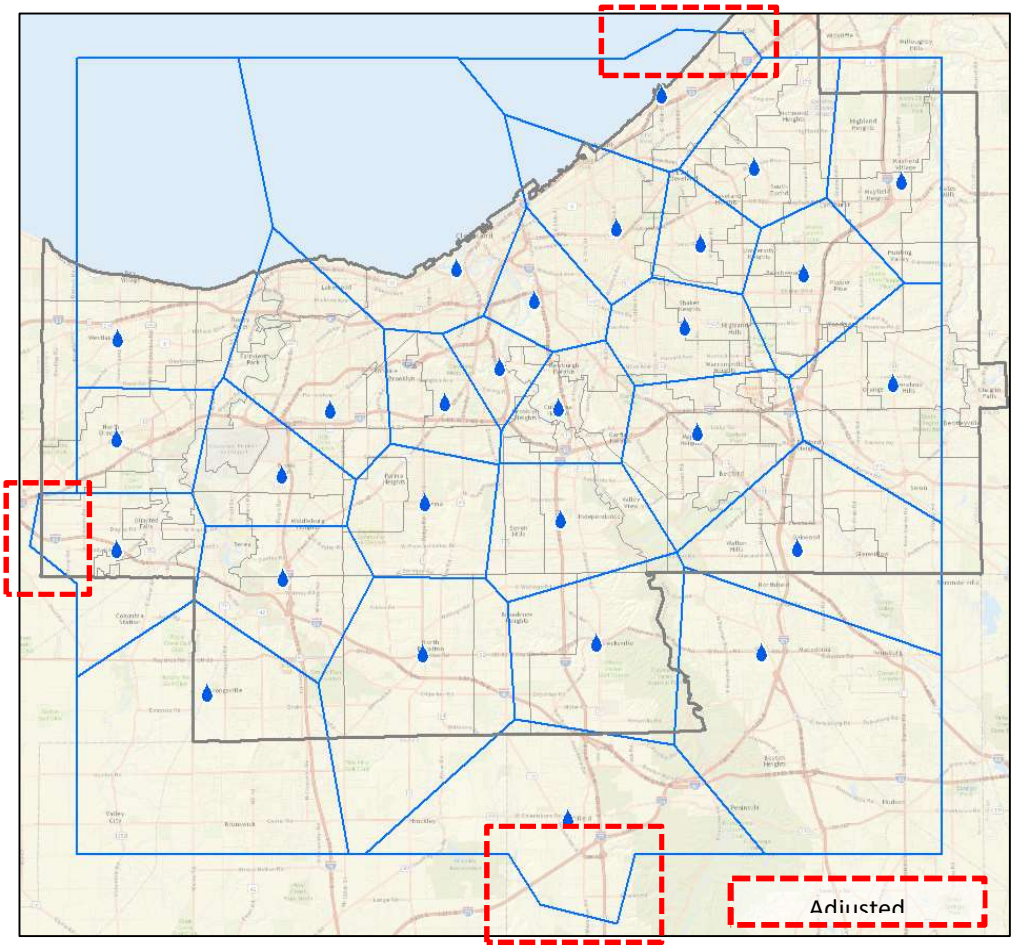


Figure B2. Precipitation Gauge Boundaries Manually Adjusted in ArcGIS to overlap model subcatchments.

3. **Format Raw Data for use in ICM**

   A) Fill BLANK data gaps in raw data with values of zero.
   B) Convert each time step in raw data into intensity/hour. If raw data is recorded every 5-minutes, multiply each time step by 12.

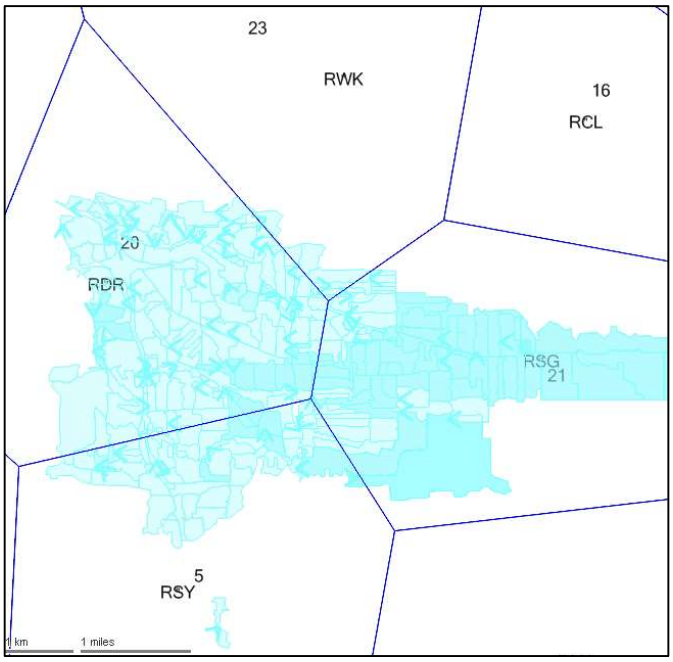
4. **Add Precipitation Gauge rainfall data to ICM.**
   A) Add new rainfall event in ICM and open Rainfall Event editor.
   B) Append profiles for each precipitation gauge boundary and rename profile titles to match precipitation gauge boundary profiles. There should only be one rainfall event file for all models being simulated.
      i. Right-click cell → Profile Properties → Change Profile Title
   C) Edit start date/time to match rainfall data
      i. Right-click cell → Sub-Event Properties
         1. Start Date: **MM/DD/YYYY**
         2. Start Time: **hh:mm:ss**

3. Timestep: **5m** (for 5-minutes – change according to rainfall timesteps)

D) Add rainfall to each profile via copy and paste from Excel rainfall data.
   i. Select "Add timesteps to this sub-event, so all data can be pasted" → OK

E) Save and exit Rainfall Event editor window.

5. **Apply Precipitation Gauge boundaries to rainfall event.** This will override the profile number entered in the Subcatchment's *Rainfall Profile* field.
   A) GeoPlan → Precipitation Gauge data → **Save to rainfall event**…
   B) Select rainfall event with precipitation gauge profiles. Make sure rainfall profile names are consistent with precipitation gauge boundary IDs as seen in the table heading on the right and the GeoPlan map on the left (**Figure B3**).

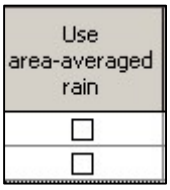


Time	20 (in/hr)	5 (in/hr)	21 (in/hr)	23 (in/hr)
SUB-EVENT 1				
08-01-2014 at 00:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:05	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:10	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:15	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:20	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:25	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:30	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:35	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:40	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:45	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:50	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 00:55	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:05	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:10	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:15	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:20	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:25	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:30	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:35	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:40	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:45	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:50	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 01:55	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 02:00	0.000000	0.000000	0.000000	0.000000
08-01-2014 at 02:05	0.000000	0.000000	0.000000	0.000000

Figure B3. Confirm Rainfall Profile Names are Consistent with Precipitation Gauge Boundary Profile IDs

6. For subcatchments that lie within two or more precipitation gauge boundaries, the user can dictate whether the boundaries are assigned (A) based on the subcatchment's centroid location or (B) using an area-averaged rainfall.

   A) In the Subcatchment Grid or Properties window, **un-check** the "**Use area-averaged rain**" option to toggle **off**. The precipitation gauge boundary that contains the centroid of the subcatchment will be used to provide rainfall data for the entire subcatchment. **This is the default and the recommended option.**



      i. The centroid is often defined by the x and y coordinates of the subcatchment.
      ii. If the subcatchment has no coordinates, ICM will use the coordinates of the drainage node.
      iii. If the drainage node has no coordinates, ICM will assume coordinates of 0, 0.
      iv. Simulations will fail if subcatchment centroids fall outside of the defined precipitation gauge boundary.

B) In the Subcatchment Grid or Properties window, **check** the "**Use area-averaged rain**" option to toggle **on**. This will use data from all precipitation gauge boundaries that the subcatchment overlaps.

   i. Simulations will fail if the subcatchment falls wholly or partly outside any precipitation gauge boundary.
   ii. If the subcatchment does not have a boundary, the option is ignored.
   iii. The following variables are not area-averaged. Instead, the values are from the rainfall boundary that covers the greatest area of subcatchment.
      - Antecedent rainfall
      - Local evaporation
      - Evaporation from multiple evaporation profiles
      - Temperature from multiple temperature profiles
      - Runoff initial conditions

7. **Run Simulation**
   A) Open the Schedule Hydraulic Run View.
   B) Add simulation components (e.g. model network, rainfall event, wastewater, etc.).
   C) The rainfall event with linked precipitation gauge boundaries will automatically override rainfall profiles defined in the subcatchment properties.

8. **QA/QC Hydrology**
   A) Verify for a few subcatchments that the rainfall volume is consistent with the corresponding precipitation gauge's observed rainfall volume.

Appendix C: 2020 Qualitative Habitat Evaluation Index Sheets

Ohio EPA — Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 76.75

Stream & Location: Euclid Creek UST St. Clair Ave **RM:** 1.65 **Date:** 8/29/20

Scorers Full Name & Affiliation: Matheson Northeast Ohio Regional Sewer District

River Code: 19-041-000 **STORET #:** 504250 **Lat./Long.:** 41.5738 -81.5470 (NAD 83 - decimal °) Office verified location ☐

1] SUBSTRATE
Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐ ☐ BLDR /SLABS [10]	X	X	☐ ☐ HARDPAN [4]		
☐ ☐ BOULDER [9]	X	X	☐ ☐ DETRITUS [-1]		
☐ ☒ COBBLE [8]	X	X	☐ ☐ MUCK [2]		
☒ ☐ GRAVEL [7]	X	X	☐ ☐ SILT [2]		
☐ ☐ SAND [6]	X	X	☐ ☐ ARTIFICIAL [0]		
☐ ☐ BEDROCK [5]	X	X			

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ☒ 4 or more [2] ☐ 3 or less [0]

ORIGIN (Check ONE (Or 2 & average)): ☐ LIMESTONE [1] ☒ TILLS [1] ☐ WETLANDS [0] ☐ HARDPAN [0] ☐ SANDSTONE [0] ☐ RIP/RAP [0] ☐ LACUSTURINE [0] ☐ SHALE [-1] ☐ COAL FINES [-2]

QUALITY: SILT ☐ HEAVY [-2] ☐ MODERATE [-1] ☒ NORMAL [0] ☐ FREE [1]; EMBEDDEDNESS ☐ EXTENSIVE [-2] ☐ MODERATE [-1] ☒ NORMAL [0] ☐ NONE [1]

Comments: 7+8+2+1+0+0

Substrate: 18 (Maximum 20)

2] INSTREAM COVER
Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

1 UNDERCUT BANKS [1]	1 POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	1 ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	___ LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT (Check ONE (Or 2 & average)): ☐ EXTENSIVE >75% [11] ☒ MODERATE 25-75% [7] ☒ SPARSE 5-<25% [3] ☐ NEARLY ABSENT <5% [1]

Comments: 6+5

Cover: 11 (Maximum 20)

3] CHANNEL MORPHOLOGY
Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	☒ NONE [6]	☒ HIGH [3]
☐ MODERATE [3]	☒ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
☒ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☐ NONE [1]	☐ POOR [1]	☐ RECENT OR LOCALIZED RECOVERY [2]	

Comments: 2+5+6+3

Channel: 16 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE
Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
☐ ☒ NONE / LITTLE [3]	☐ ☐ WIDE > 50m [4]	☐ ☐ FOREST, SWAMP [3]	☐ ☐ CONSERVATION TILLAGE [1]
☐ ☒ MODERATE [2]	☐ ☒ MODERATE 10-50m [3]	☐ ☐ SHRUB OR OLD FIELD [2]	☒ ☒ URBAN OR INDUSTRIAL [0]
☐ ☐ HEAVY / SEVERE [1]	☒ ☐ NARROW 5-10m [2]	☐ ☐ RESIDENTIAL, PARK, NEW FIELD [1]	☐ ☐ MINING / CONSTRUCTION [0]
	☐ ☐ VERY NARROW < 5m [1]	☐ ☐ FENCED PASTURE [1]	
	☐ ☐ NONE [0]	☐ ☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments: 2.75+2.5+0

Riparian: 5.25 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH (Check ONE (ONLY!)): ☒ > 1m [6] ☐ 0.7-<1m [4] ☐ 0.4-<0.7m [2] ☐ 0.2-<0.4m [1] ☐ < 0.2m [0]

CHANNEL WIDTH (Check ONE (Or 2 & average)): ☒ POOL WIDTH > RIFFLE WIDTH [2] ☐ POOL WIDTH = RIFFLE WIDTH [1] ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY (Check ALL that apply): ☐ TORRENTIAL [-1] ☐ SLOW [1] ☐ VERY FAST [1] ☐ INTERSTITIAL [-1] ☒ FAST [1] ☐ INTERMITTENT [-2] ☒ MODERATE [1] ☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential: Primary Contact / Secondary Contact (circle one and comment on back)

Comments: 6+2+3

Pool / Current: 11 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☒ BEST AREAS > 10cm [2]	☐ MAXIMUM > 50cm [2]	☒ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☒ MAXIMUM < 50cm [1]	☒ MOD. STABLE (e.g., Large Gravel) [1]	☒ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments: 2+1+1.5+1

Riffle / Run: 5.5 (Maximum 8)

6] GRADIENT
(16.2 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☐ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (21.8 mi²)

%POOL: ___ %GLIDE: ___ %RUN: ___ %RIFFLE: ___

Gradient: 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st --sample pass-- 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st _____ cm

2nd _____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

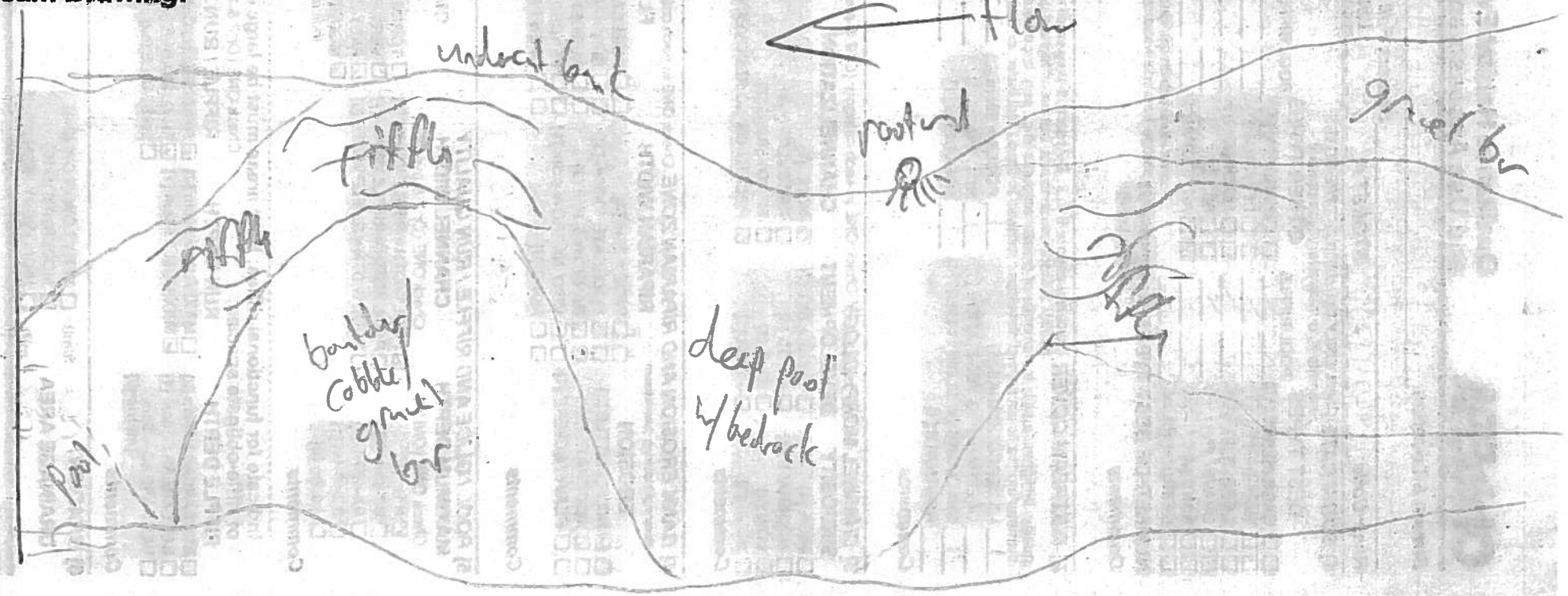
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



OhioEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 58.5

Stream & Location: Euclid Creek DST Lakeshore Blvd. Matson/Boeringer **RM:** 0.55 **Date:** 6/29/20

Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 19-041-000 **STORET #:** E01A42 **Lat./Long.:** (NAD 83 decimal) 41.5833 -81.5594 Office verified location ☐

1] SUBSTRATE

Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐☐ BLDR /SLABS [10]	✓		☐☐ HARDPAN [4]	✓	
☐☐ BOULDER [9]	✓		☐☐ DETRITUS [3]		
☐☐ COBBLE [8]	✓		☐☐ MUCK [2]		
☐☐ GRAVEL [7]	✓		☐☐ SILT [2]	✓	
☐☐ SAND [6]	✓		☐☐ ARTIFICIAL [0]		
☐☐ BEDROCK [5]					

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ☐ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN: ☐ LIMESTONE [1] ☐ TILLS [1] ☐ WETLANDS [0] ☐ HARDPAN [0] ☐ SANDSTONE [0] ☐ RIP/RAP [0] ☐ LACUSTURINE [0] ☐ SHALE [-1] ☐ COAL FINES [-2]

QUALITY: SILT ☐ HEAVY [-2] ☐ MODERATE [-1] ☐ NORMAL [0] ☐ FREE [1]; EMBEDDEDNESS ☐ EXTENSIVE [-2] ☐ MODERATE [-1] ☐ NORMAL [0] ☐ NONE [1]

Comments 7+6+2+1-0.5-0.5

Substrate 15 (Maximum 20)

2] INSTREAM COVER

Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

3 UNDERCUT BANKS [1]	3 POOLS > 70cm [2]	1 OXBOWS, BACKWATERS [1]	
3 OVERHANGING VEGETATION [1]	3 ROOTWADS [1]	1 AQUATIC MACROPHYTES [1]	
1 SHALLOWS (IN SLOW WATER) [1]	3 BOULDERS [1]	1 LOGS OR WOODY DEBRIS [1]	
ROOTMATS [1]			

AMOUNT Check ONE (Or 2 & average): ☐ EXTENSIVE >75% [11] ☑ MODERATE 25-75% [7] ☑ SPARSE 5-<25% [3] ☐ NEARLY ABSENT <5% [1]

Comments 7+5

Cover 12 (Maximum 20)

3] CHANNEL MORPHOLOGY

Check ONE in each category (Or 2 & average)

SINUOSITY: ☐ HIGH [4] ☐ MODERATE [3] ☑ LOW [2] ☐ NONE [1]

DEVELOPMENT: ☐ EXCELLENT [7] ☐ GOOD [5] ☐ FAIR [3] ☑ POOR [1]

CHANNELIZATION: ☑ NONE [6] ☐ RECOVERED [4] ☐ RECOVERING [3] ☐ RECENT OR ARTIFICIAL RECOVERY [1]

STABILITY: ☐ HIGH [3] ☑ MODERATE [2] ☐ LOW [1]

Comments 2+1+6+2

Channel 11 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE

Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	
☑☑ NONE / LITTLE [3]	☐☐ WIDE > 50m [4]	☐☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☑☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☑ NARROW 5-10m [2]	☑☑ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments 3+2.5+1

Riparian 6.5 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!): ☑ > 1m [6] ☐ 0.7-<1m [4] ☐ 0.4-<0.7m [2] ☐ 0.2-<0.4m [1] ☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average): ☐ POOL WIDTH > RIFFLE WIDTH [2] ☑ POOL WIDTH = RIFFLE WIDTH [1] ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply: ☐ TORRENTIAL [-1] ☐ VERY FAST [1] ☐ FAST [1] ☐ MODERATE [1] ☑ SLOW [1] ☐ INTERSTITIAL [-1] ☐ INTERMITTENT [-2] ☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments 6+0+1

Pool / Current 8 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☑ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☐ BEST AREAS > 10cm [2]	☐ MAXIMUM > 50cm [2]	☐ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	☐ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments

Riffle / Run 0 (Maximum 8)

6] GRADIENT

(5.9 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☐ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (23 mi²)

%POOL: ( ) %GLIDE: ( ) %RUN: ( ) %RIFFLE: ( )

Gradient 6 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st -sample pass- 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st pass _____ cm

2nd _____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

_____

_____

_____

_____

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

POOL: ☐ >100ft² ☐ >3ft (AREA DEPTH)

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

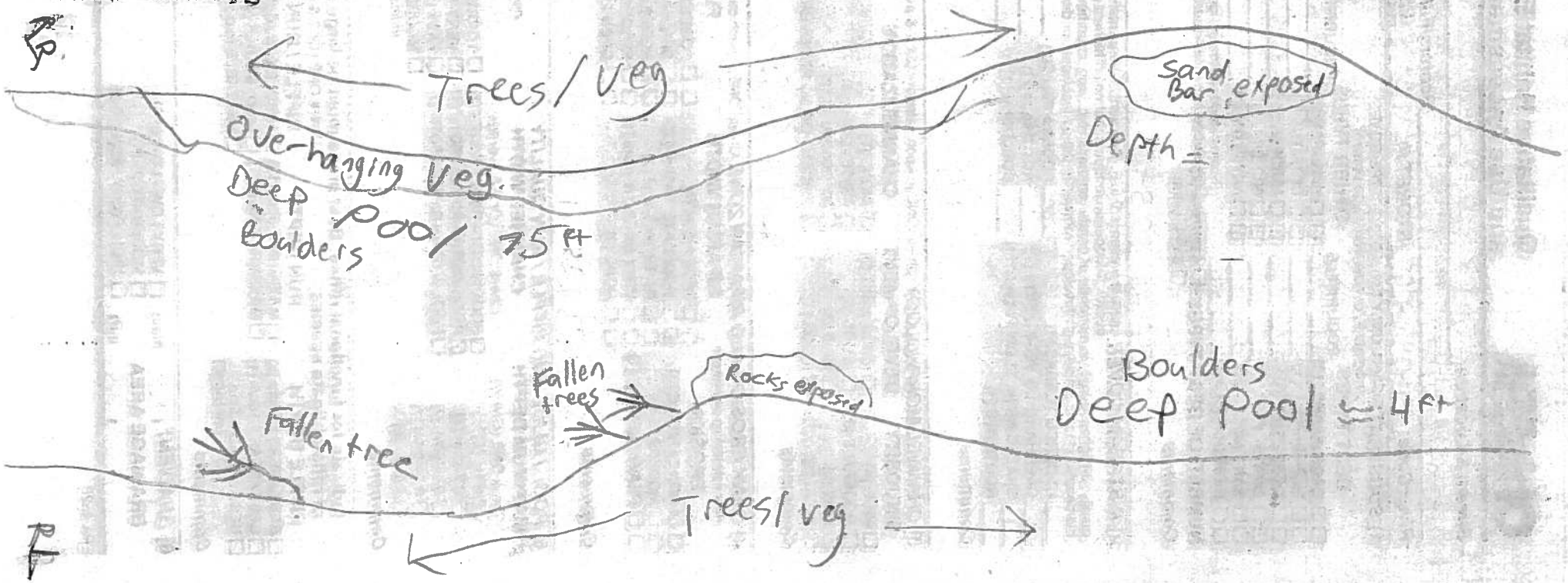
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing.



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 70

Stream & Location: Rocky River UST Puritas Ave **RM:** 8.30 **Date:** 7/16/20

Scorers Full Name & Affiliation: Matteson, Mark — Northeast Ohio Regional Sewer District

River Code: 13-001-000 **STORET #:** 501810 **Lat./ Long.:** (NAD 83 - decimal °) 41.4354 -81.8435 — Office verified location ☐

1] SUBSTRATE

Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☐☐ BLDR /SLABS [10]	✓	✓	☐☐ HARDPAN [4]		
☐☐ BOULDER [9]	✓	✓	☐☐ DETRITUS [3]		
☐■ COBBLE [8]	✓	✓	☐☐ MUCK [2]		
☐☐ GRAVEL [7]	✓	✓	☐☐ SILT [2]		
☐☐ SAND [6]	✓	✓	☐☐ ARTIFICIAL [0]		
■☐ BEDROCK [5]	✓	✓			

(Score natural substrates; ignore sludge from point-sources)

NUMBER OF BEST TYPES: ■ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN	QUALITY
☐ LIMESTONE [1]	☐ HEAVY [-2]
■ TILLS [1]	☐ MODERATE [-1]
☐ WETLANDS [0]	■ NORMAL [0]
☐ HARDPAN [0]	☐ FREE [1]
☐ SANDSTONE [0]	☐ EXTENSIVE [-2]
☐ RIP/RAP [0]	☐ MODERATE [-1]
☐ LACUSTURINE [0]	■ NORMAL [0]
■ SHALE [-1]	☐ NONE [1]
☐ COAL FINES [-2]	

SILT — EMBEDDEDNESS

Comments 5+8+2+0+0+0

Substrate 15 (Maximum 20)

2] INSTREAM COVER

Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

___ UNDERCUT BANKS [1]	___ POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	___ ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	___ LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT Check ONE (Or 2 & average)

☐ EXTENSIVE >75% [11]
■ MODERATE 25-75% [7]
■ SPARSE 5-<25% [3]
☐ NEARLY ABSENT <5% [1]

Comments 2+5

Cover 7 (Maximum 20)

3] CHANNEL MORPHOLOGY

Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	■ NONE [6]	■ HIGH [3]
☐ MODERATE [3]	■ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
■ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☐ NONE [1]	☐ POOR [1]	☐ RECENT OR NO RECOVERY [1]	

Comments 2+5+6+3

Channel 16 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE

Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
■■ NONE / LITTLE [3]	■■ WIDE > 50m [4]	☐☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☐☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☐ NARROW 5-10m [2]	■■ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments 3+4+1

Riparian 8 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!)

☐ > 1m [6]
☐ 0.7-<1m [4]
■ 0.4-<0.7m [2]
☐ 0.2-<0.4m [1]
☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average)

■ POOL WIDTH > RIFFLE WIDTH [2]
■ POOL WIDTH = RIFFLE WIDTH [1]
☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply

☐ TORRENTIAL [-1]	■ SLOW [1]
☐ VERY FAST [1]	☐ INTERSTITIAL [-1]
■ FAST [1]	■ INTERMITTENT [-2]
■ MODERATE [1]	☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments 2+1.5+3

Pool / Current 6.5 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
■ BEST AREAS > 10cm [2]	■ MAXIMUM > 50cm [2]	■ STABLE (e.g., Cobble, Boulder) [2]	■ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	■ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments 2+2+2+1.5

Riffle / Run 7.5 (Maximum 8)

6] GRADIENT

(6.13 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ■ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (282 mi²)

%POOL: ___ %GLIDE: ___
%RUN: ___ %RIFFLE: ___

Gradient 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st-sample pass-2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

1st pass _____ cm

2nd _____ cm

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

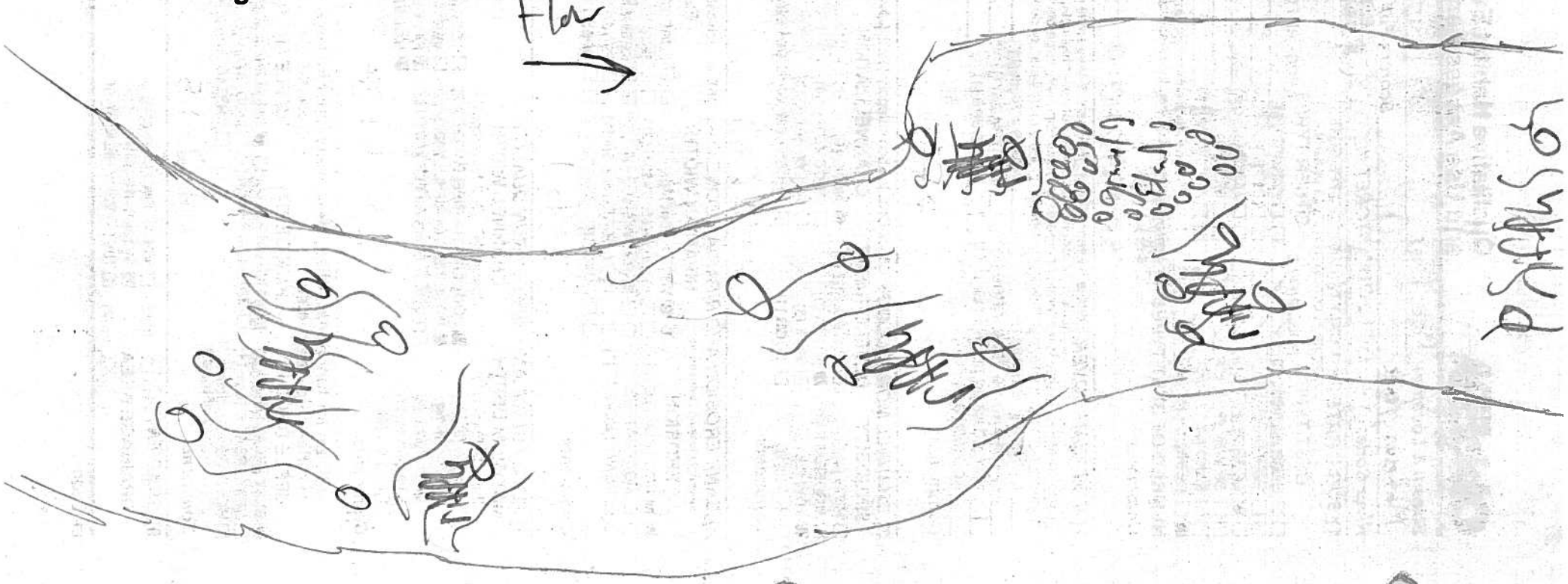
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Ohio EPA — Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 79

Stream & Location: Rocky River UST Hilliard Blvd. **RM:** 2.50 **Date:** 7/02/20

Scorers Full Name & Affiliation: Mark Matheson, Northeast Ohio Regional Sewer District

River Code: 13-001-000 **STORET #:** T01W04 **Lat./Long.:** (NAD 83 decimal°) 41.4712 / -81.8239 **Office verified location** ☐

1] SUBSTRATE
Check ONLY Two substrate TYPE BOXES, estimate % or note every type present

BEST TYPES	POOL	RIFFLE	OTHER TYPES	POOL	RIFFLE
☒☐ BLDR /SLABS [10]	X	X	☐☐ HARDPAN [4]		
☐☐ BOULDER [9]	X	X	☐☐ DETRITUS [-1]		
☐☒ COBBLE [8]	X	X	☐☐ MUCK [2]		
☐☐ GRAVEL [7]	X	X	☐☐ SILT [2]		
☐☐ SAND [6]	X	X	☐☐ ARTIFICIAL [0]		
☐☐ BEDROCK [5]	X	X	(Score natural substrates; ignore sludge from point-sources)		

NUMBER OF BEST TYPES: ☒ 4 or more [2] ☐ 3 or less [0]

Check ONE (Or 2 & average)

ORIGIN	QUALITY
☐ LIMESTONE [1]	☐ HEAVY [-2]
☒ TILLS [1]	☐ MODERATE [-1]
☐ WETLANDS [0]	☒ NORMAL [0]
☐ HARDPAN [0]	☐ FREE [1]
☐ SANDSTONE [0]	SILT
☐ RIP/RAP [0]	EMBEDDEDNESS
☐ LACUSTURINE [0]	☐ EXTENSIVE [-2]
☒ SHALE [-1]	☐ MODERATE [-1]
☐ COAL FINES [-2]	☒ NORMAL [0]
	☐ NONE [1]

Comments

Substrate 20 (Maximum 20)

2] INSTREAM COVER
Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

___ UNDERCUT BANKS [1]	1 POOLS > 70cm [2]	___ OXBOWS, BACKWATERS [1]
___ OVERHANGING VEGETATION [1]	___ ROOTWADS [1]	___ AQUATIC MACROPHYTES [1]
1 SHALLOWS (IN SLOW WATER) [1]	1 BOULDERS [1]	1 LOGS OR WOODY DEBRIS [1]
___ ROOTMATS [1]		

AMOUNT Check ONE (Or 2 & average)
- ☐ EXTENSIVE >75% [11]
- ☐ MODERATE 25-75% [7]
- ☒ SPARSE 5-<25% [3]
- ☐ NEARLY ABSENT <5% [1]

Comments

Cover 8 (Maximum 20)

3] CHANNEL MORPHOLOGY
Check ONE in each category (Or 2 & average)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY
☐ HIGH [4]	☐ EXCELLENT [7]	☒ NONE [6]	☒ HIGH [3]
☐ MODERATE [3]	☒ GOOD [5]	☐ RECOVERED [4]	☐ MODERATE [2]
☒ LOW [2]	☐ FAIR [3]	☐ RECOVERING [3]	☐ LOW [1]
☒ NONE [1]	☐ POOR [1]	☐ RECENT OR NO RECOVERY [1]	

Comments

Channel 15.5 (Maximum 20)

4] BANK EROSION AND RIPARIAN ZONE
Check ONE in each category for EACH BANK (Or 2 per bank & average)

River right looking downstream

EROSION (L R)	RIPARIAN WIDTH (L R)	FLOOD PLAIN QUALITY (L R)	(L R)
☒☒ NONE / LITTLE [3]	☒☐ WIDE > 50m [4]	☒☐ FOREST, SWAMP [3]	☐☐ CONSERVATION TILLAGE [1]
☐☐ MODERATE [2]	☐☐ MODERATE 10-50m [3]	☐☐ SHRUB OR OLD FIELD [2]	☐☐ URBAN OR INDUSTRIAL [0]
☐☐ HEAVY / SEVERE [1]	☐☐ NARROW 5-10m [2]	☒☒ RESIDENTIAL, PARK, NEW FIELD [1]	☐☐ MINING / CONSTRUCTION [0]
	☐☐ VERY NARROW < 5m [1]	☐☐ FENCED PASTURE [1]	
	☐☐ NONE [0]	☐☐ OPEN PASTURE, ROWCROP [0]	

Indicate predominant land use(s) past 100m riparian.

Comments

Riparian 8.5 (Maximum 10)

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

MAXIMUM DEPTH Check ONE (ONLY!)
- ☒ > 1m [6]
- ☐ 0.7-<1m [4]
- ☐ 0.4-<0.7m [2]
- ☐ 0.2-<0.4m [1]
- ☐ < 0.2m [0]

CHANNEL WIDTH Check ONE (Or 2 & average)
- ☐ POOL WIDTH > RIFFLE WIDTH [2]
- ☒ POOL WIDTH = RIFFLE WIDTH [1]
- ☐ POOL WIDTH < RIFFLE WIDTH [0]

CURRENT VELOCITY Check ALL that apply

☐ TORRENTIAL [-1]	☒ SLOW [1]
☐ VERY FAST [1]	☐ INTERSTITIAL [-1]
☒ FAST [1]	☐ INTERMITTENT [-2]
☒ MODERATE [1]	☐ EDDIES [1]

Indicate for reach - pools and riffles.

Recreation Potential
Primary Contact
Secondary Contact
(circle one and comment on back)

Comments

Pool / Current 10 (Maximum 12)

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (Or 2 & average). ☐ NO RIFFLE [metric=0]

RIFFLE DEPTH	RUN DEPTH	RIFFLE / RUN SUBSTRATE	RIFFLE / RUN EMBEDDEDNESS
☒ BEST AREAS > 10cm [2]	☒ MAXIMUM > 50cm [2]	☒ STABLE (e.g., Cobble, Boulder) [2]	☐ NONE [2]
☐ BEST AREAS 5-10cm [1]	☐ MAXIMUM < 50cm [1]	☐ MOD. STABLE (e.g., Large Gravel) [1]	☒ LOW [1]
☐ BEST AREAS < 5cm [metric=0]		☐ UNSTABLE (e.g., Fine Gravel, Sand) [0]	☐ MODERATE [0]
			☐ EXTENSIVE [-1]

Comments

Riffle / Run 7 (Maximum 8)

6] GRADIENT
(8.77 ft/mi) ☐ VERY LOW - LOW [2-4] ☐ MODERATE [6-10] ☒ HIGH - VERY HIGH [10-6]

DRAINAGE AREA (292 mi²)

%POOL: ___ %GLIDE: ___ %RUN: ___ %RIFFLE: ___

Gradient 10 (Maximum 10)

A] SAMPLED REACH

Check ALL that apply

METHOD

- ☐ BOAT
- ☐ WADE
- ☐ L. LINE
- ☐ OTHER

STAGE

1st sample pass 2nd

- ☐ HIGH ☐
- ☐ UP ☐
- ☐ NORMAL ☐
- ☐ LOW ☐
- ☐ DRY ☐

DISTANCE

- ☐ 0.5 Km
- ☐ 0.2 Km
- ☐ 0.15 Km
- ☐ 0.12 Km
- ☐ OTHER

_____ meters

CLARITY

1st --sample pass-- 2nd

- ☐ < 20 cm ☐
- ☐ 20-<40 cm ☐
- ☐ 40-70 cm ☐
- ☐ > 70 cm/ CTB ☐
- ☐ SECCHI DEPTH ☐

1st_____ cm
2nd_____ cm

CANOPY

- ☐ > 85%- OPEN
- ☐ 55%-<85%
- ☐ 30%-<55%
- ☐ 10%-<30%
- ☐ <10%- CLOSED

Comment RE: Reach consistency/ Is reach typical of steam?, *Recreation/* Observed - Inferred, *Other/* Sampling observations, Concerns, Access directions, etc.

B] AESTHETICS

- ☐ NUISANCE ALGAE
- ☐ INVASIVE MACROPHYTES
- ☐ EXCESS TURBIDITY
- ☐ DISCOLORATION
- ☐ FOAM / SCUM
- ☐ OIL SHEEN
- ☐ TRASH / LITTER
- ☐ NUISANCE ODOR
- ☐ SLUDGE DEPOSITS
- ☐ CSOs/SSOs/OUTFALLS

C] RECREATION

AREA DEPTH

POOL: ☐ >100ft² ☐ >3ft

D] MAINTENANCE

Circle some & *COMMENT*

PUBLIC / PRIVATE / BOTH / NA
ACTIVE / HISTORIC / BOTH / NA
YOUNG-SUCCESSION-OLD
SPRAY / SNAG / REMOVED
MODIFIED / DIPPED OUT / NA
LEVEED / ONE SIDED
RELOCATED / CUTOFFS
MOVING-BEDLOAD-STABLE
ARMOURED / SLUMPS
ISLANDS / SCOURED
IMPOUNDED / DESICCATED
FLOOD CONTROL / DRAINAGE

E] ISSUES

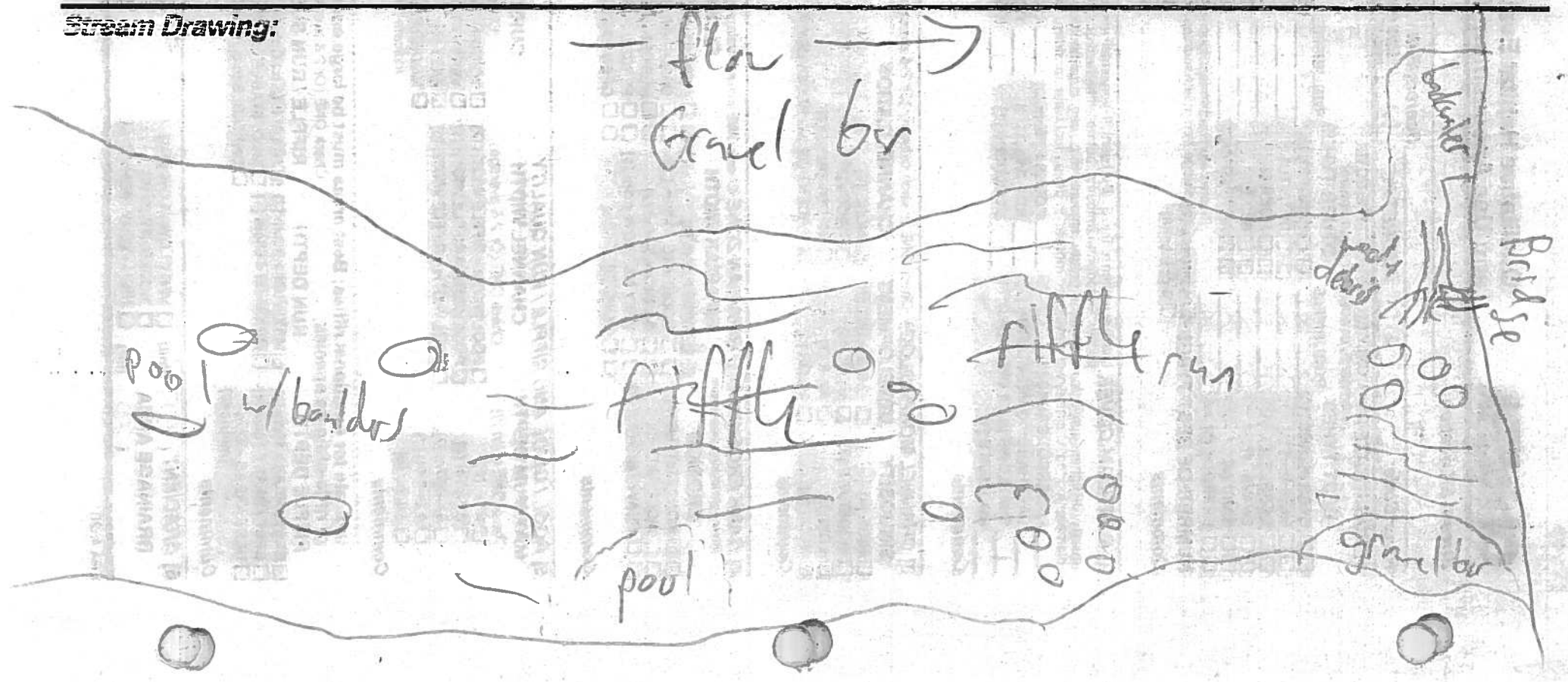
WWTP / CSO / NPDES / INDUSTRY
HARDENED / URBAN / DIRT&GRIME
CONTAMINATED / LANDFILL
BMPs-CONSTRUCTION-SEDIMENT
LOGGING / IRRIGATION / COOLING
BANK / EROSION / SURFACE
FALSE BANK / MANURE / LAGOON
WASH H_2O / TILE / H_2O TABLE
ACID / MINE / QUARRY / FLOW
NATURAL / WETLAND / STAGNANT
PARK / GOLF / LAWN / HOME
ATMOSPHERE / DATA PAUCITY

F] MEASUREMENTS

- $\bar{x}$ width
- $\bar{x}$ depth
- max. depth
- $\bar{x}$ bankfull width
- bankfull $\bar{x}$ depth
- W/D ratio
- bankfull max. depth
- floodprone x^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Appendix D: 2020 Macroinvertebrate Field Sheets and Results

NEORSD Macroinvertebrate Field Sheet

Stream: Euclid Creek River Mile: 1.65 Year: 2020

Location: US St. Clair Avenue Project: 2020 Euclid Creek Env. Mon

River Code: 19-041-000 Station ID: 504250

Drainage Area (mi^2): 21.8 Latitude (°N)/Longitude (°W): 41.5738 -81.5470

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOL P

Hester-Dendy Deployment Information

Install Date: 6/16/20 Crew (QDC Circled): E. Sachnlen H. Boesinger

Current at HD (fps): 0.82 Depth (cm): 12 Pictures Obtained: Yes No

Replicate/Reinstall Date: — Crew (QDC Circled): —

Current (fps): — Depth (cm): — Reason: —

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 7/29/20 Crew (QDC Circled): E. Sachnlen D. Neelon

OEPA Comment Field Codes: _____ Water Temp: 25.4 °C °F

HD Condition- *Current (fps):* 0.34 *Depth (cm):* 8 *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 85 X Number of Crew: 2 = Total (min): 170

Start Time: 11:20 *End Time:* 12:45 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Kornlen QDC #: 60837 Date: 9/10/2020

Company/Entity: Third Rock Consulting

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X		X			
Boulder	X		X			
Cobble/Rubble	X		X			
Gravel Course	X		X			
Gravel Fine	X		X			
Sand	X		X			
Silt						
Clay/Hardpan						
Detritus						
Peat						
Muck						
Other						
Macrophytes						
Algae	X		X			
Artifacts	X		X			
Compaction (F,M,S)	F		F			
Depth (Avg)	6in		18+			
Width (Avg)	40+		30+			

Predominant Land Use (Left, Right or Both)

Forest RR	Urban	Open Pasture
Shrub	Residential/Park	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial RL	Other _____

Predominant Riparian Vegetation

	Left	Right
Type		
Large Trees	X	X
Small Trees		
Shrubs		
Grass/Weeds		
None		
Riparian Width		

Riffle Habitat

Embedded: Yes (No)

Development:

X	Extensive
	Moderate
	Sparse
	Absent

Quality: (Good) Fair Poor

Margin Habitat

Margin Quality: (Good) Fair Poor 1 % remaining 99% clay banks

Types Present:

(Root Mats)	Undercut Banks	
(Tree Roots)	Shallows	Rip Rap
Woody Debris	(Soft Clay)	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151; A= 150-101; C= 100-11; R= 10-1)

Est Amt	
/	Porifera, Bryozoa
C / R-	Turbellaria, Oligochaeta, Hirudinea
C / C	Isopoda, Amphipoda
R-	Decapoda. Hydracarina
	Ephemeroptera
V	Baetidae
R	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
R R-	Zygoptera, Anisoptera
	Plecoptera
	Hemiptera
	Megaloptera, Neuroptera
	Trichoptera
C-	Hydropsychidae
	Hydroptilidae, Leptoceridae
A	Other Philopotamidae/Polycentropodidae
	Coleoptera
C	Elimidae
	Other _____
	Diptera
C	Chironomidae
	Tipulidae, Simuliidae
	Other _____
/	Gastropoda, Bivalvia
	Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Baetidae

Other Common Organisms: philopotamidae/polycentropodidae

Density:	High	(Moderate)	Low
Diversity:	High	(Moderate)	Low

Run:

Predominant Organism: Elmidae

Other Common Organisms: midge

Density:	High	Moderate	(Low)
Diversity:	High	Moderate	(Low)

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density:	High	Moderate	Low
Diversity:	High	Moderate	Low

Margin:

Predominant Organism: Amphipod

Other Common Organisms: Isopod

Density:	High	(Moderate)	Low
Diversity:	High	Moderate	(Low)

Other Notable Collections: _____

Field Narrative Rating: E VG (G) MG F P VP

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Euclid Creek River Mile: 0.55 Year: 2020

Location: DS Lakeshore BLVD Project: 2020 Euclid Creek Env. Mon

River Code: 19-041-000 Station ID: E01A47

Drainage Area (mi²): 23.0 Latitude (°N)/Longitude (°W): 41.5833 -81.5594

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* _____

Backflow conditions from Lake

Hester-Dendy Deployment Information

Install Date: 6/16/2020 Crew (QDC Circled): E. Sochalski H. Boesinger

Current at HD (fps): -0.04 Depth (cm): 46 Pictures Obtained: Yes No

Replicate/Reinstall Date: _____ Crew (QDC Circled): _____

Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 7/29/20 Crew (QDC Circled): E. Sochalski P. Neelon

OEPA Comment Field Codes: _____ Water Temp: 23.6 °C °F

HD Condition- *Current (fps):* 0.01 *Depth (cm):* 29 *Comments:* 90% Buried in Sand

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____ 90% buried in sand/silt

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 70 X Number of Crew: 2 = Total (min): 140

Start Time: 9:30 *End Time:* 10:40 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Kemler QDC #: 06837 Date: 9/8/2020

Company/Entity: Third Rock Consulting

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X					
Boulder	X					
Cobble/Rubble	X		X			
Gravel – Course	X		X		X	
Gravel – Fine	X		X		X	
Sand	X		X		X	
Silt	X		X		X	
Clay/Hardpan	X					
Detritus	X					
Peat	X					
Muck	X					
Other	X					
Macrophytes	X					
Algae	X					
Artifacts	X		X			
Compaction (F,M,S)	X		S		S	
Depth (Avg)	X		6 in		4 ft	
Width (Avg)	X		80 ft		40 ft	

Cobble is up to 10 in

Coarse Gravel

Fine Gravel

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park (Both)	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
		Large Trees
		Small Trees
	X	Shrubs
X		Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No N/A

Development:

	Extensive
	Moderate
	Sparse
X	Absent

Quailty: Good Fair Poor N/A

Margin Habitat

Margin Quality: Good Fair (Poor) 1% % almost all eroded clay banks

Types Present:

(Root Mats)	Undercut Banks	
Tree Roots	Shallows	Rip Rap
Woody Debris	(Soft Clay)	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151, A= 150-101; C= 100-11; R= 10-1)

Est. Amt		
		Porifera, Bryozoa
A / C-		Turbellaria, Oligochaeta, Hirudinea
C / C		Isopoda, Amphipoda
	R	Decapoda, Hydracarina
		Ephemeroptera
R		Baetidae
C- / R-		Heptageniidae, Leptohyphidae, Caenidae
		Other _____
R /		Zygoptera, Anisoptera
		Plecoptera
R		Hemiptera
/		Megaloptera, Neuroptera
		Trichoptera
		Hydropsychidae
/		Hydroptilidae, Leptoceridae
R-		Other philopotamidae/Polycentropodidae
		Coleoptera
C		Elimidae
		Other _____
		Diptera
A		Chironomidae
		Tipulidae, Simuliidae
		Other _____
R /		Gastropoda, Bivalvia
		Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:
Predominant Organism: N/A
Other Common Organisms: _____
Density: High Moderate Low
Diversity: High Moderate Low

Run:
Predominant Organism: Chironomidae
Other Common Organisms: Flatworm
Density: High Moderate (Low)
Diversity: High Moderate (Low)

Pool:
Predominant Organism: Chironomidae
Other Common Organisms: _____
Density: High Moderate (Low)
Diversity: High Moderate (Low)

Margin:
Predominant Organism: Amphipod
Other Common Organisms: Isopods
Density: High (Moderate) Low
Diversity: High Moderate (Low)

Other Notable Collections: _____

Field Narrative Rating: E VG G MG (F) P VP

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 8.30 Year: 2020

Location: US1 Bridge Project: 2020 Rocky River Environmental Monitoring

River Code: 13-001-000 Station ID: 501810

Drainage Area (mi²): 282 Latitude (°N)/Longitude (°W): 41.4354 -81.8436

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOLP

Hester-Dendy Deployment Information

Install Date: 7/21/20 Crew (QDC Circled): ES + MM

Current at HD (fps): 0.69 Depth (cm): 23 Pictures Obtained: Yes No

Replicate/Reinstall Date: 8/12/2020 Crew (QDC Circled): Eric Sechnlen + Joe Shciel

Current (fps): 0.69 Depth (cm): 23cm Reason: HD Missing

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 9/24/2020 Crew (QDC Circled): E. Sechnlen M. Matteson

OEPA Comment Field Codes: _____ Water Temp: 16.9 °C °F

HD Condition- *Current (fps):* 0.37 *Depth (cm):* 13 *Comments:* Algae on HD

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: _____

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID* _____

Dipnet- Time Sampled (min): 80 X Number of Crew: 2 = Total (min): 160

Start Time: 9:00 *End Time:* 10:20 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Remley QDC #: 00837 Date: 11-12-20

Company/Entity: Third Rock Consultants

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

	Riffle	Units	Run	Units	Pool	Units
Bedrock	X		X			
Boulder	X		X			
Cobble/Rubble	X		X			
Gravel Course	X		X			
Gravel Fine	X		X			
Sand	X		X			
Silt	X		X			
Clay/Hardpan						
Detritus						
Peat						
Muck						
Other						
Macrophytes						
Algae	X		X			
Artifacts						
Compaction (F,M,S)	F					
Depth (Avg)	1.5'		2'			
Width (Avg)	80'		120'			

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park (Both)	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
		Large Trees
		Small Trees
		Shrubs
X	X	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes (No)

Development:

X	Extensive
	Moderate
	Sparse
	Absent

Quality: (Good) Fair Poor

Margin Habitat

Margin Quality: Good Fair (Poor) 5 %

Types Present:

(Root Mats)	Undercut Banks	
Tree Roots	Shallows	Rip Rap
(Woody Debris)	Soft Clay	Bulkhead
(Macrophytes/Grass)	Other _____	

Biological Characteristics

Overall Collection

(V= >151, A= 150-101, C= 100-11, R= 10-1)

Est. Amt	
R / R	Porifera, Bryozoa
C / C	Turbellaria, Oligochaeta, Hirudinea
R / C	Isopoda. Amphipoda
/ R	Decapoda, Hydracarina
	Ephemeroptera
A	Baetidae
C C R	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
C / R	Zygoptera, Anisoptera
	Plecoptera
? R	Hemiptera
/	Megaloptera, Neuroptera
	Trichoptera
V	Hydropsychidae
/	Hydroptilidae, Leptoceridae
A	Other philopotamidae/polycentropodidae
	Coleoptera
C	Elimidae
? R	Other Haplidae
	Diptera
C	Chironomidae
R	Tipulidae, Simuliidae
	Other _____
R+ R	Gastropoda, Bivalvia
	Other _____

V= Very Abundant, A= Abundant, C= Common, R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Hydropsychidae

Other Common Organisms: philopotamidae

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Run:

Predominant Organism: Hydropsychidae

Other Common Organisms: Heptageniidae

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Leptohyphidae

Other Common Organisms: Zygoptera

Density: High (Moderate) Low

Diversity: High (Moderate) Low

Other Notable Collections: _____

Field Narrative Rating: E (VG) G MG F P VP

Abundant EPT

Last Modified 04/13/20

NEORSD Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 2.50 Year: 2020

Location: US of Hillard Road Project: 2020 Rocky River Environmental Monitoring

River Code: 13-001-000 Station ID: T01W001

Drainage Area (mi²): 292 Latitude (°N)/Longitude (°W): 41.4713 -81.8240

Site Type: WWH EWH CWH Lacustuary Other: _____ *Eco-Region:* EOLP

Hester-Dendy Deployment Information

Install Date: 7/21/20 Crew (QDC Circled): ES + MM

Current at HD (fps): 0.92 Depth (cm): 16 Pictures Obtained Yes No

Replicate/Reinstall Date: _____ Crew (QDC Circled): _____

Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____

Sampling Date: 9/1/2020 Crew (QDC Circled): E. Seelye H. Bergsieker

OEPA Comment Field Codes: _____ Water Temp: 29.8 °C °F

HD Condition- *Current (fps):* 0.66 *Depth (cm):* 20 *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Replicate: Current (fps): _____ *Depth (cm):* _____ *Comments:* _____

Number of HD Blocks Obtained: 5

Disturbed: Yes No *Debris:* Yes No

Silt/Solids: None Slight Moderate Heavy *Sample ID:* _____

Dipnet- Time Sampled (min): 55 X Number of Crew: 2 = Total (min): 110

Start Time: 2:30 *End Time:* 3:25 *Sample ID:* _____

Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____

Canopy (over HD): Open 75 % 50 % 25 % Closed

Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood

Current Velocity: Non-Detect Slow Moderate Fast

Channel Morphology: Natural Channelized Channelized (Recovered) Impounded

Bank Erosion: None Slight Moderate Extensive

Water Clarity: Clear Muddy Tea Milky Other: _____

Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Bert Ramley QDC #: 00837 Date: 11/25/2020

Company/Entity: Third Rock Consultants

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

Cobble is up to 10 in

Course Gravel

Fine Gravel

Sand

		Riffle	Units	Run	Units	Pool	Units
Bedrock							
Boulder		K					
Cobble/Rubble		K		K			
Gravel	Course	K		K			
	Fine	K		K			
Sand		K		K			
Silt		K		K			
Clay/Hardpan							
Detritus							
Peat							
Muck							
Other							
Macrophytes							
Algae		K		K			
Artifacts		K		K			
Compaction (F,M,S)		F		F			
Depth (Avg)		1'		2'			
Width (Avg)		100'		120'			

Predominant Land Use (Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
K	K	Large Trees
K	K	Small Trees
		Shrubs
K	K	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No

Development:

✓	Extensive
	Moderate
	Sparse
	Absent

Quality: Good Fair Poor

Margin Habitat

Margin Quality: Good Fair Poor < 1 %

Types Present:

Root Mats	Undercut Banks	
Tree Roots	Shallows	Rip Rap
Woody Debris	Soft Clay	Bulkhead
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

(V= >151; A= 150-101; C= 100-11; R= 10-1)

Est. Amt		
R		Porifera, Bryozoa
C		Turbellaria, Oligochaeta, Hirudinea
C A		Isopoda, Amphipoda
R		Decapoda, Hydracarina
		Ephemeroptera
C+		Baetidae
C+ / C		Heptageniidae, Leptohyphidae, Caenidae
		Other _____
C / R		Zygoptera, Anisoptera
		Plecoptera
		Hemiptera
		Megaloptera, Neuroptera
		Trichoptera
C+		Hydropsychidae
		Hydroptilidae, Leptoceridae
C		Other Philopotamidae/Polycentropodidae
		Coleoptera
C		Elimidae
		Other _____
		Diptera
R		Chironomidae
		Tipulidae, Simuliidae
		Other _____
C+		Gastropoda, Bivalvia
		Other _____

V= Very Abundant; A= Abundant; C= Common; R= Rare

Habitat Specific Organisms

Riffle:

Predominant Organism: Baetidae

Other Common Organisms: Hydropsychidae

Density: High Moderate Low

Diversity: High Moderate Low

Run:

Predominant Organism: Heptageniidae

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Pool:

Predominant Organism: N/A

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Caenidae

Other Common Organisms: Sand

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

Field Narrative Rating: E VG G MG F P VP

Last Modified 04/13/20

Euclid Creek Upstream of St. Clair Avenue

River Mile: **1.65**

Station ID: **504250**

Drainage Area: **21.8** **miles^2**

OEPA Taxa Code	Species	Number HD	Number Qual
1801	Turbellaria	28	+
3600	Oligochaeta	121	+
4960	Erpobdella sp (= Mooreobdella)		+
5800	Caecidotea sp		+
6700	Crangonyx sp		+
8601	Hydrachnidia	4	+
11120	Baetis flavistriga	11	+
11130	Baetis intercalaris	74	+
13521	Stenonema femoratum		+
17200	Caenis sp	1	
22700	Ischnura sp		+
23600	Aeshna sp		+
50301	Chimarra aterrima		+
50315	Chimarra obscura	2	+
51600	Polycentropus group	1	+
52200	Cheumatopsyche sp	13	+
52431	Ceratopsyche morosa	11	+
52450	Ceratopsyche sparna	5	
52530	Hydropsyche depravata group	2	+
53800	Hydroptila sp	5	+
59500	Oecetis sp		+
68601	Ancyronyx variegata		+
69400	Stenelmis sp	45	+
70600	Antocha sp	2	
74100	Simulium sp		+
78450	Nilotanypus fimbriatus	8	
79100	Thienemannimyia group	287	+
79720	Diamesa sp	10	+
80310	Cardiocladius obscurus		+
80420	Cricotopus (C.) bicinctus	50	
80430	Cricotopus (C.) tremulus group	109	
81825	Rheocricotopus (Psilocricotopus) robacki	10	
82100	Thienemanniella sp	32	
83040	Dicrotendipes neomodestus	89	
84210	Paratendipes albimanus or P. duplicatus	129	
84300	Phaenopsectra obediens group		+
84415	Polypedilum (P.) sp		+
84450	Polypedilum (Uresipedilum) flavum	40	
84540	Polypedilum (Tripodura) scalaenum group	149	
85500	Paratanytarsus sp	20	
85821	Tanytarsus glabrescens group sp 7	149	
87540	Hemerodromia sp	6	

Number of Organisms 1413

ICI Score 32

Euclid Creek Upstream of St. Clair Avenue

River Mile:	**1.65**
Station ID:	**504250**
Number of Quantitative Taxa	29
Number of Qualitative Taxa	27
Number of Qualitative EPT Taxa	11
Total Number of Taxa	42

Euclid Creek Downstream of Lakeshore Boulevard

River Mile: **0.55**

Station ID: **F01A47**

Drainage Area: **23.0** **miles^2**

OEPA Taxa Code	Species	Qualitative EPT Taxa	Qualitative Taxa	Coldwater Taxa	Pollution Tolerance
1801	Turbellaria		y		F
3600	Oligochaeta		y		T
4687	Placobdella parasitica		y		MT
4960	Erpobdella sp (= Mooreobdella)		y		MT
5800	Caecidotea sp		y		T
6201	Hyalella sp		y		F
6700	Crangonyx sp		y		MT
8601	Hydrachnidia		y		F
11200	Callibaetis sp	y	y		MT
13521	Stenonema femoratum	y	y		F
17200	Caenis sp	y	y		F
44501	Corixidae		y		F
51600	Polycentropus group	y	y		MI
60900	Peltodytes sp		y		MT
68601	Ancyronyx variegata		y		F
69400	Stenelmis sp		y		F
72700	Anopheles sp		y		F
77120	Ablabesmyia mallochi		y		F
78655	Procladius (Holotanypus) sp		y		MT
79100	Thienemannimyia group		y		F
79400	Zavrelimyia (Z.) sp		y	y	F
80510	Cricotopus (Isocladius) sylvestris group		y		T
82730	Chironomus (C.) decorus group		y		T
82820	Cryptochironomus sp		y		F
83040	Dicrotendipes neomodestus		y		F
84210	Paratendipes albimanus or P. duplicatus		y		F
84300	Phaenopsectra obediens group		y		F
84470	Polypedilum (P.) illinoense		y		T
84540	Polypedilum (Tripodura) scalaenum group		y		F
85500	Paratanytarsus sp		y		F
85840	Tanytarsus sepp		y		F
95100	Physella sp		y		T

Rocky River Upstream of Puritas Road

River Mile: 8.30

Station ID: 501810

Drainage Area: 282.0 miles^2

OEPA Taxa Code	Species	Number HD	Number Qual
401	Spongillidae		+
1801	Turbellaria	387	+
3600	Oligochaeta	18	+
4960	Erpobdella sp (= Mooreobdella)		+
5800	Caecidotea sp		+
6201	Hyalella azteca		+
6700	Crangonyx sp		+
8601	Hydrachnidia		+
11120	Baetis flavistriga	178	+
11130	Baetis intercalaris	791	+
13400	Stenacron sp		+
13561	Maccaffertium pulchellum	373	+
16700	Tricorythodes sp	306	+
17200	Caenis sp	1	+
21200	Calopteryx sp		+
21300	Hetaerina sp		+
22300	Argia sp	4	+
22600	Enallagma sp		+
23600	Aeshna sp		+
23909	Boyeria vinosa		+
44300	Pelocoris sp		+
50315	Chimarra obscura	451	+
52200	Cheumatopsyche sp	2305	+
52431	Ceratopsyche morosa	795	+
52530	Hydropsyche depravata group	72	
52540	Hydropsyche dicantha	420	+
59407	Nectopsyche candida		+
65800	Berosus sp	7	+
68300	Cyphon sp		+
68601	Ancyronyx variegata	12	
68901	Macronychus glabratus	45	+
69400	Stenelmis sp	24	+
74100	Simulium sp	2	+
78140	Labrundinia pilosella		+
79100	Thienemannimyia group	76	
80420	Cricotopus (C.) bicinctus	51	+
80430	Cricotopus (C.) tremulus group	38	+
81240	Nanocladius (N.) distinctus	13	
82141	Thienemanniella xena	136	
82220	Tvetenia discoloripes group	76	+
83040	Dicrotendipes neomodestus		+
83840	Microtendipes pedellus group	13	
84450	Polypedilum (Uresipedilum) flavum	266	+
84470	Polypedilum (P.) illinoense		+
84540	Polypedilum (Tripodura) scalaenum group	13	

Rocky River Upstream of Puritas Road

River Mile: 8.30

Station ID: 501810

85500	Paratanytarsus sp	25	+
85625	Rheotanytarsus sp	164	+
85821	Tanytarsus glabrescens group sp 7	354	+
93900	Elimia sp	2	+
96900	Ferrissia sp	8	+
97601	Corbicula fluminea		+
98600	Sphaerium sp		+

Number of Organisms	7426
ICI Score	44
Number of Quantitative Taxa	32
Number of Qualitative Taxa	45
Number of Qualitative EPT Taxa	11
Total Number of Taxa	52

Rocky River Upstream of Hilliard Road

River Mile: 2.50

Station ID: T01W04

Drainage Area: 292.0 miles^2

OEPA Taxa Code	Species	Number HD	Number Qual
1801	Turbellaria	900	+
3360	Plumatella sp		+
3600	Oligochaeta	16	+
5800	Caecidotea sp	1	+
6201	Hyalella azteca		+
6700	Crangonyx sp		+
8200	Orconectes sp		+
8601	Hydrachnidia	16	
11120	Baetis flavistriga	69	+
11130	Baetis intercalaris	2292	+
13400	Stenacron sp	74	+
13521	Stenonema femoratum		+
13561	Maccaffertium pulchellum	1103	+
16700	Tricorythodes sp	851	+
17200	Caenis sp	33	+
22300	Argia sp		+
22600	Enallagma sp		+
26700	Macromia sp		+
50315	Chimarra obscura	984	+
51206	Cyrnellus fraternus	1	
52200	Cheumatopsyche sp	5606	+
52431	Ceratopsyche morosa	2219	+
52540	Hydropsyche dicantha	139	+
52570	Hydropsyche simulans	1	
53800	Hydroptila sp	67	
59970	Petrophila sp	35	
65800	Berosus sp		+
68601	Ancyronyx variegata	2	
68901	Macronychus glabratus	2	
69400	Stenelmis sp	2	+
71900	Tipula sp		+
77120	Ablabesmyia mallochi		+
78655	Procladius (Holotanypus) sp		+
79100	Thienemannimyia group	41	+
80350	Corynoneura sp	16	
81240	Nanocladius (N.) distinctus	81	
82141	Thienemanniella xena	48	
82220	Tvetenia discoloripes group	81	
83040	Dicrotendipes neomodestus	41	
84450	Polypedilum (Uresipedilum) flavum	608	
85625	Rheotanytarsus sp	2838	
85821	Tanytarsus glabrescens group sp 7	446	
85840	Tanytarsus sepp	41	+
87540	Hemerodromia sp	2	
93900	Elimia sp		+

Rocky River Upstream of Hilliard Road

River Mile: 2.50

Station ID: T01W04

95900	Gyraulus sp		+

Number of Organisms	18656
ICI Score	48
Number of Quantitative Taxa	32
Number of Qualitative Taxa	30
Number of Qualitative EPT Taxa	11
Total Number of Taxa	46

Appendix E: 2020 Fish Data Sheets

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 1

Station ID 504250 River Code 19-041-000 RM 1.65 Date 6/29/20 Time 1140

Stream Euclid Creek Location UST St. Clair Ave

Comments D.A. 21.8mi² Grad 16.2

Lat 41.5738 Long -81.5470 County Cuyahoga ALP ____ Time Fished 2118

Crew Matteson* Netter Schiel Others Boesinger Sampler Type E

Distance 0.20km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)	V	10x
1	43-013 Creek chub	163	163	1.18	1.18	163	D E L T M *		
2	43-043 Bluntnose minnow	39	39	0.078	0.078	39	D E L T M *		
3	43-044 Stoneroller	94	94	0.475	0.475	94	D E L T M *		
4	77-009 Bluegill	1	1	0.003	0.003	1	D E L T M *		
5	77-008 Green sunfish	1	1	0.006	0.006	1	D E L T M *		
6	40-016 White sucker	1	1	0.020	0.02	1	D E L T M *		
7	43-011 Blacknose dace	111	111	0.325	0.02 0.305	4 107	D E L T M *		
8							D E L T M *		
9							D E L T M *		

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

Page _____ of _____

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights Counts			D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 1

Station ID 504250 River Code 19-041-0001 RM 1.65 Date 8/17/20 Time 1200

Stream Euclid Creek Location UST St. Clair Ave

Comments D.A. 24.8 mi² Grad. 16.2

Lat 41.5738 Long -81.5470 County Cuyahoga ALP ____ Time Fished 3553

Crew Boesinger Netter Neelon Others Telep* Sampler Type E

Distance 0.20 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)
1	43-013 Creek Chub	163	163	0.454	0.120 (98); 0.300 (61); 0.030 (2); 0.004 (2)	D E L T M *
2	43-011 Blacknose dace	278	278	0.365	0.19 (136); 0.195 (142)	D E L T M *
3	43-044 Central Stoneroller	387	387	0.865	0.375 (146); 0.20 (83); 0.29 (158)	D E L T M *
4	43-043 Bluntnose minnow	14	14	0.055	0.055 (14)	D E L T M *
5						D E L T M *
6						D E L T M *
7						D E L T M *
8						D E L T M *
9						D E L T M *

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

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Page _____ of _____

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights Counts			D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: ____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 2

Station ID F01A47 River Code 19-041-000 RM 0.55 Date 6/29/20 Time 9:06

Stream Euclid Creek Location DST Lakeshore Blvd.

Comments D.A. 23 mi² Grad 5.9

Lat 41.5833 Long -81.5594 County Cuyahoga ALP ____ Time Fished 3400

Crew Matteson* Netter Boesinger Others Schiel Sampler Type D

Distance 0.20 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	47-004 Yellow bullhead V 10x	22	22	1.418	0.085 (1) 0.860 (10) 0.473 (11)			D	E	L	T	M	*
2	47-005 Brown bullhead V2 10x	5	5	1.025	0.210 (1) 0.815 (4)			D	E	L	T	M	*
3	43-043 Bluntnose V 10x	16	16	0.085	0.020 (1) 0.065 (15)			D	E	L	T	M	*
4	40-016 White sucker V 10x	178	178	0.270	0.270 (178)			D	E	L	T	M	*
5	77-013 Pumpkinseed sunfish V 10x	14	14	0.400	0.370 (13) 0.030 (1)			D	E	L	T	M	*
6	77-009 Bluegill sunfish V 10x	17	17	0.440	0.270 (17)			D	E	L	T	M	*
7	77-008 Green sunfish V 10x	4	4	0.032	0.032 (4)			D	E	L	T	M	*
8	87-001 Round goby V 10x	27	27	0.290	0.290 (27)			D	E	L	T	M	*
9	43-013 Creek chub V 10x	41	41	0.022	0.020 (39) 0.002 (2)			D	E	L	T	M	*

* A-anchor worm; B-black spot; C-leeches; F-fungus: N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			D	E	L	T	M	*
10	43-001 Common carp	4	4	0.013	0.013	4								
	V 10x													
11	77-004 Smallmouth bass	7	7	0.020	0.018	6								
					0.002	1								
	V 10x													
12	43-044 Stoneroller	12	12	0.021	0.012	6	0.004	2						
					0.002	2								
	V 10x				0.003	2								
13	80-011 Logperch	1	1	0.008	0.008	1								
	V 10x													
14	43-031 Sand shiner	3	3	0.005	0.005	3								
	V 10x													
15	43-035 Mimic Shiner	4	4	0.008	0.006	3								
					0.002	1								
	V 10x													
16	77-003 Rock bass	5	5	0.065	0.065	5								
	V 10x													
17														
	V 10x													
18														
	V 10x													
19														
	V 10x													
20														
	V 10x													
21														
	V 10x													

OhioEPA **FISH DATA SHEET** Sheet ID For Office Use Only [ ] *New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 1 of 2

Station ID F01A47 River Code 19-041-000 RM 0.55 Date 8/17/20 Time 0845

Stream Euclid Creek Location DST Lakeshore Blvd.

Comments D.A. 23 mi² Grad. 5.9

Lat 41.5833 Long -81.5594 County Cuyahoga ALP ____ Time Fished 4333

Crew J. Telep* Netter D Neelon Others H. Boesinger Sampler Type D

Distance 0.2km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Euclid Creek

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D E L T M *
1	20-003 Gizzard Shad V 10x	143	143	1.4	1.4 (143)	D: (1)
2	80-011 Logperch V 10x	1	1	0.030	0.030 (1)	
3	43-022 Resuface Shiner V 10x	1	1	0.004	0.004 (1)	
4	43-044 Stoneroller Minnow V 10x	3	3	0.008	0.008 (3)	
5	80-003 Yellow Perch V 1 10x	1	1	0.004	0.004 (1)	
6	74-003 White Perch V 10x	1	1	0.004	0.004 (1)	
7	87-001 ~~Gob~~ Round goby V 10x	53	53	0.194	0.190 (52) 0.004 (1)	
8	43-035 Mimic Shiner V 2 10x	45	45	0.060	0.060 (45)	
9	43-034 Sand Shiner V 10x	10	10	0.020	0.020 (10)	

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated; W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	40-016 White Sucker	13	13		0.685 (13) 0.660 (13)								
	V 10x												
11	43-013 Creek Chub	19	19	0.038	0.038 (19)								
	V 10x												
12	77-013 Pumpkinseed Sunfish	87	87	1.627	0.405 (20) 0.500 (39) 0.700 (26) 0.022 (2)					1			
	V 10x												
13	77-009 Blue Gill	53	53	0.75	0.400 (24) 0.350 (29)								
	V 10x												
14	77-003 Rock Bass	8	8	0.250	0.250 (8)				(1)				
	V 10x												
15	Pumpkinseed x Blue gill												
	V 10x												
16	47-005 Brown Bullhead	1	1	0.150	0.150 (1)					(1)			
	V 10x												
17	47-004 Yellow Bullhead	26	26	1.150	1.150 (26)					(4)			
	V 10x												
18	77-006 Largemouth Bass	15	15	0.240	0.240 (15)								
	V 10x												
19	77-008 Green Sunfish	1	1	0.009	0.009 (1)								
	V 10x												
20													
	V 10x												
21													
	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 2

Station ID 501810 River Code 13-001-000 RM 8.30 Date 7/14/20 Time 11:00

Stream Rocky River Location Ust Puritas Ave

Comments D.A. 282 mi² Grad. 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP ____ Time Fished 4409

Crew Matteson* Netter Telep Others Boesinger Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D E L T M *
1	47-008 Stonecat Mad tom	36	36	0.655	0.655	36	
2	77-003 Rock Bass	11	11	0.180	0.18	11	
3	43-022 Rosyface Shiner	6	6	0.040	0.04	6	
4	43-042 Fat head minnow	1	1	0.004	0.004	1	
5	43-039 Silver Jaw minnow	7	7	0.020	0.018 0.002	6 1	
6	77-009 Bluegill	2	2	0.065	0.065	2	
7	47-004 Yellow Bullhead	17	17	0.092	0.092	17	L 1
8	47-002 Channel Catfish	1	1	0.039	0.039	1	
9	40-005 Quillback Carpsucker	12	12	0.050	0.045 0.005	11 1	

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	77-004 Small Mouth Bass	42	42	0.317	0.31 (40)								
					0.003 (1)								
	V 10x				0.004 (1)								
11	43-032 Spotfin Shiner	71	71	0.384	0.38 (70)								
					0.004 (1)								
	V 10x												
12	43-034 Sand Shiner	80	80	0.183	0.165 (76)								
					0.018 (4)								
	V 10x												
13	43-043 Bluntnose Minnow	14	14	0.075	0.075 (14)								
	V 10x												
14	43-044 Stoneroller	48	48	0.100	0.1 (48)								
	V 10x												
15	80-015 Greenside Darter	53	53	0.281	0.25 (50)								
					0.022 (2)								
	V 10x				0.009 (1)								
16	87-001 Goby	68	68	0.550	0.550 (68)								
	V 10x												
17	80-014 Johnny Darter	2	2	0.005	0.005 (2)								
	V 10x												
18	80-022 Rainbow Darter	5	5	0.011	0.011 (5)								
	V 10x												
19	43-001 Common Carp	2	2	0.010	0.01 (2)								
	V 10x												
20	43-026 Common Shiner	40	40	0.049	0.049 (40)								
	V 10x												
21													
	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 1 of 3

Station ID 501810 River Code 13-001-000 RM 8.30 Date 9/21/20 Time 1245

Stream Rocky River Location Ust of Puritas Ave

Comments DA: 282 mi² Gradient: 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP _____ Time Fished 4350

Crew Matteson* Netter Fitzgibbons Others Schiel Sampler Type E

Distance 0.20Km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Rocky River

* Crew Leader

DELT ANOMALIES: Deformities, Erosions, Lesions, Tumors — Multiple DELTs on one fish

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (D E L T M *)
1	40-015 Northern Hogsucker	4	4	0.570	0.508 (1) 0.062 (3)		
2	77-004 Small mouth Bass	13	13	0.810	0.460 (2)	0.350 (11)	
3	40-005 Quillback carpsucker	77	77	1.550	1.55 kg (77)		
4	77-003 Rock Bass	6	6	0.033	0.025 (4) 0.008 (2)		
5	43-035 Mimic Shiner	4	4	0.008	0.008 (4)		
6	43-034 Sand Shiner	207	207	0.392	0.390 (206)	0.002 (1)	
7	47-008 Stonecat madtom	12	12	0.270	0.270 (12)		
8	43-033 Bigmouth Shiner	2	2	0.005	0.005 (2)		
9	40-011 Shorthead redhorse	1	1	0.032	0.032 (1)		

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	CREEK CHUB	7	7	0.060	0.060 (7)								
	V 10x												
11	SILVER JAW MINNOW	3	3	0.020	0.020 (3)								
	V 10x												
12	BLUNTNOSE	99	99	0.600	0.600 (99)								
	V 10x												
13	ROSYFACE SHINER	91	91	0.150	0.150 (91)								
	V 10x												
14	STONEROLLER	131	131	1.070	1.07 (131)								
	V 10x												
15	JOHNNY DARTER	3	3	0.005	0.005 (3)								
	V 10x												
16	RAINO GOBY	41	41	0.300	0.230 (34) 0.070 (7)								
	V 10x												
17	RAINBOW DARTER	10	10	0.042	0.042 (10)								
	V 10x												
18	GREENSIDE DARTER	112	112	0.390	0.390 (112)								
	V 10x												
19	SPOTFIN SHINER	372	372	1.390	0.420 (98) 0.370 (103)	0.60 (171)							
	V 10x												
20	COMMON SHINER	124	124	0.390	0.390 (124)								
	V 10x												
21	Golden Redhorse	1	1	0.015	0.015 (1)								
	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 3 of 3

Station ID 501810 River Code 13-001-000 RM 8.30 Date 9/21/20 Time 1245

Stream Rocky River Location Ust of Puritas Ave

Comments DA: 282 mi² Gradient: 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP ____ Time Fished 4350

Crew Matteson* Netter Fitzgibbons Others Schiel Sampler Type E

Distance 0.20 Km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

* Crew Leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts		DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	43-025 Striped Shiner	36	36	0.150	0.150	36		D	E	L	T	M	*
	V 10x												
2	40-016 White sucke	7	7	0.215	0.215	7		D	E	L	T	M	*
	V 10x												
3	77-009 Bluegill	2	2	0.004	0.004	2		D	E	L	T	M	*
	V 10x												
4								D	E	L	T	M	*
	V 10x												
5								D	E	L	T	M	*
	V 10x												
6								D	E	L	T	M	*
	V 10x												
7								D	E	L	T	M	*
	V 10x												
8								D	E	L	T	M	*
	V 10x												
9								D	E	L	T	M	*
	V 10x												

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Page _____ of _____

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts		D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ]

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 7/2/20 Time 9:00

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 292 mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4129 sec

Crew Telep Netter Hothem Others Matteson* Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)					
1	47-004 Yellow bullhead	7	7	0.620	0.195	3			D	E	L	T	M	*
					0.425	4								
	V 10x													
2	47-008 Stonecat Madtom	19	19	0.395	0.130	6			D	E	L	T	M	*
					0.265	13								
	V 10x													
3	80-011 Logperch	53	53	0.773	0.535	38			D	E	L	T	M	*
					0.238	15								
	V 10x													
4	47-002 Channel catfish	5	5	0.085	0.050	3			D	E	L	T	M	*
					0.035	2								
	V 10x													
5	77-009 Bluegill	25	25	0.350	0.235	12			D	E	L	T	M	*
					0.115	13								
	V 10x													
6	80-015 Greenside darter	30	30	0.124	0.055	15			D	E	L	T	M	*
					0.069	15								
	V 10x													
7	43-044 Stoneroller	29	29	0.128	0.060	14			D	E	L	T	M	*
					0.065	14								
	V 10x				0.003	1								
8	40-015 Hogsucker	8	8	0.490	0.275	3			D	E	L	T	M	*
					0.215	5								
	V 10x													
9	40-011 Shorthead redhorse	2	2	0.378	0.378	2			D	E	L	T	M	*
	10x													

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Weights (Counts)

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	80-022 Rainbow darter	1	1	0.002	0.002 (1)								
	V 10x												
11	80-002 Walleye	5	5	0.115	0.095 (4)								
	V2 10x				0.020 (1)								
12	25-002 Rainbow Trout	1	1	0.035	0.035 (1)								
	V 10x												
13	80-014 Johnny darter	1	1	0.003	0.003 (1)								
	V1 10x												
14	40-016 White sucker	20	20	0.354	0.125 (5)								
	V 10x				0.225 (14)								
					0.004 (1)								
15	43-032 Spotfin shiner	128	128	0.448	0.220 (66)								
	V 10x				0.220 (61)								
					0.008 (1)								
16	77-004 Smallmouth bass	137	137	0.168	0.068 (42)								
	V 10x				0.100 (95)								
17	87-001 Round goby	32	32	0.287	0.170 (20)								
	V 10x				0.105 (11)								
					0.012 (1)								
18	43-034 Sand shiner	5	5	0.016	0.010 (4)								
	V 10x				0.006 (1)								
19	77-003 Rock bass	10	10	0.683	0.670 (5)	0.004 (1)							
	V 10x				0.005 (1)								
					0.004 (2)								
20	40-005 Quillback carpsucker	1	1	0.005	0.005 (1)								
	V 10x												
21	10-004 Longnose gar	2	2	0.012	0.012 (2)								
	V2 10x												

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OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: _____

New Station (requires lat/long & county) ☐ Mix Zone ☐ Page 3 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 7/2/20 Time 9:00

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 292mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP _____ Time Fished 4129 sec

Crew Telep Netter Hothem Others Matteson* Sampler Type E

Distance 0.2km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)	D	E	L	T	M	*
1	43-042 Fathead minnow	1	1	0.006	0.006	1							
	V 10x												
2	77-008 Green Sunfish	9	9	0.105	0.105	9							
	V 10x												
3	43-002 Goldfish	1	1	0.012	0.012	1							
	V 10x												
4	43-013 Creek Chub	4	4	0.010	0.010	4							
	V 10x												
5	43-025 Striped Shiner	25	25	0.110	0.085 0.025	8 17							
	V 10x												
6													
	V 10x												
7													
	V 10x												
8													
	V 10x												
9													
	10x												

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Weights Counts

Page ____ of ____

	Fins Code	Number Weighed	Total Counted	Total Weight				D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

MM

OhioEPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 1 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 10/12/20 Time 8:35

Stream Rocky River Location UST Hilliard Ave

Comments D.A. 292mi² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4957

Crew Matteson* Netter Soehnlen Others Teter Sampler Type E

Distance 0.2km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish)
1	20-003 Gizzard shad	8	8	0.120	0.120	8			D E L T M *
2	80-002 Walleye	3	3	0.050	0.050	3			D E L T M *
3	47-008 Stonecat Madtom	44	44	1.477	0.550	12	0.025	1	D E L T M *
					0.890	30			
					0.012	1			
4	80-011 Longperch	33	33	0.590	0.550	31			D E L T M *
					0.040	2			
5	40-015 Hogsucker	3	3	0.770	0.770	3			D E L T M *
6	77-004 Smallmouth bass	21	21	0.850	0.850	21			D E L T M *
7	77-006 Largemouth bass	2	2	0.050	0.050	2			D E L T M *
8	77-003 Rock bass	55	55	0.765	0.750	52			D E L T M *
					0.015	3			
9	47-004 Yellow bullhead	22	22	0.180	0.180	22			D E L T M *

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights (Counts)			D	E	L	T	M	*
10	40-016 White sucker	30	30	0.705	0.705 (30)								
	V 10x												
11	43-034 Sand shiner	6	6	0.014	0.002 (1) 0.012 (5)								
	V 10x												
12	80-015 Greenside darter	47	47	0.195	0.195 (47)								
	V 10x												
13	43-020 Emerald shiner	46	46	0.170	0.170 (46)								
	V 10x												
14	43-044 Stoneroller	0.53	53	0.725	0.615 (47) 0.110 (6)								
	V 10x												
15	43-001 Common carp	1	1	0.025	0.025 (1)								
	V 10x												
16	43-013 Creek chub	3	3	0.031	0.031 (3)								
	V 10x												
17	43-043 Bluntnose	3	3	0.044	0.044 (3)								
	V 10x												
18	43-032 Spotfin shiner	33	33	0.105	0.105 (33)								
	V 10x												
19	80-022 Rainbow darter	6	6	0.020	0.020 (6)								
	V 10x												
20	87-001 Goby	55	55	0.280	0.280 (55)								
	V 10x												
21	80-003 Yellow perch	1	1	0.009	0.009 (1)								
	V 10x												

Ohio EPA **FISH DATA SHEET**

Sheet ID For Office Use Only: [ ]

New Station (requires lat/long & county) [ ] Mix Zone [ ] Page 3 of 3

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 10/12/20 Time 8:35

Stream Rocky River Location UST Hilliard Blvd.

Comments D.A. 2 km² Grad. 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP ____ Time Fished 4:57

Crew Matteson* Netter Soehnlen Others Telep Sampler Type E

Distance 0.2 km Flow ____ Temp. C ____ Secchi ____ Source ____ Project Rocky River

*Crew leader

	Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts			DELT ANOMALIES (Deformities, Erosions, Lesions, Tumors; Multiple DELTs on one fish) D	E	L	T	M	*
1	40-010 Golden redhorse	5	5	0.062	0.062	5								
2	43-025 Striped shiner	12	12	0.100	0.100	12								
3	77-013 Pumpkinseed	3	3	0.062	0.062	3								
4	77-016 P-seed x green	1	1	0.028	0.028	1								
5	77-009 Bluegill	19	19	0.245	0.245	19								
6	77-008 Green sunfish	14	14	0.190	0.190	14								
7														
8														
9														

V 10x

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

EPA 4508 11/4/2005

Weights Counts

Page ____ of ____

	Fins Code	Number Weighed	Total Counted	Total Weight				D	E	L	T	M	*
10	V 10x												
11	V 10x												
12	V 10x												
13	V 10x												
14	V 10x												
15	V 10x												
16	V 10x												
17	V 10x												
18	V 10x												
19	V 10x												
20	V 10x												
21	V 10x												

MM

Euclid Creek Upstream of St. Clair Avenue
June 29, 2020
River Mile: 1.65
Station ID: 504250
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-016	*Catostomus commersonii* Common white sucker	1	0.02	Highly Tolerant	0	---
43-011	*Rhinicthys atratulus* Blacknose dace	111	0.325	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	163	1.18	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	39	0.078	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	94	0.475	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	1	0.006	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	1	0.003	Moderately Tolerant	0	---
	Totals	410	2.087		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	24	(Poor)
Modified Index of Well-Being (MIwb) =	4.8	(Poor)
Shannon Diversity Index, no.	1.326	
Shannon Diversity Index, wt.	1.142	
N	142.5	
B	0.717	

Euclid Creek Upstream of St. Clair Avenue
August 17, 2020
River Mile: 1.65
Station ID: 504250
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
43-011	*Rhinicthys atratulus* Blacknose dace	278	0.385	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	163	0.454	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	14	0.055	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	387	0.865	--	0	---
	Totals	842	1.759		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	24	(Poor)
Modified Index of Well-Being (MIwb) =	5.6	(Poor)
Shannon Diversity Index, no.	1.109	
Shannon Diversity Index, wt.	1.139	
N	580.5	
B	1.298	

Euclid Creek Downstream of Lakeshore Boulevard
June 29, 2020
River Mile: 0.55
Station ID: F01A47
Collection Method: Roller Pram Electrofishing
Drainage Area: 23 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
40-016	*Catostomus commersonii* Common white sucker	178	0.27	Highly Tolerant	0	---
43-001	*Cyprinus carpio* Common carp	4	0.013	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	41	0.022	Highly Tolerant	0	---
43-034	*Notropis stramineus* Sand shiner	3	0.005	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	4	0.008	Common Intolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	16	0.085	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	12	0.048	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	22	1.418	Highly Tolerant	0	---
47-005	*Ictalurus nebulosus* Brown bullhead	5	1.025	Highly Tolerant	2	Lesion
77-003	*Ambloplites rupestris* Northern rockbass	5	0.065	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	7	0.02	Moderately Intolerant	0	---
77-008	*Lepomis cyanellus* Green sunfish	4	0.032	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	17	0.44	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus* Pumpkinseed sunfish	14	0.4	Moderately Tolerant	0	---
80-011	*Percina caprodes*	1	0.008	Moderately	0	---

Euclid Creek Downstream of Lakeshore Boulevard
June 29, 2020
River Mile: 0.55

	Northern logperch darter			Intolerant		
87-001	*Neogobius melanostomus* Round goby	27	0.29	--	0	---
	Totals	360	4.149		2	

*DELT anomalies were observed on	0.56	% of the fish collected.
Index of Biotic Integrity (IBI) =	26	(Poor)
Modified Index of Well-Being (MIwb) =	6.2	(Fair)
Shannon Diversity Index, no.	1.885	
Shannon Diversity Index, wt.	1.877	
N	94.5	
B	1.491	

Euclid Creek Downstream of Lakeshore Boulevard
August 17, 2020
River Mile: 0.55
Station ID: F01A47
Collection Method: Roller Pram Electrofishing
Drainage Area: 23 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
20-003	*Dorosoma cepedianum* Eastern gizzard shad	143	1.4	--	1	Deformity
40-016	*Catostomus commersonii* Common white sucker	26	1.345	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	19	0.038	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	1	0.004	Intolerant	0	---
43-034	*Notropis stramineus* Sand shiner	10	0.02	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	45	0.06	Common Intolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	3	0.008	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	26	1.15	Highly Tolerant	4	Lesion
47-005	*Ictalurus nebulosus* Brown bullhead	1	0.15	Highly Tolerant	1	Lesion
74-003	*Morone americana* White perch	1	0.004	--	0	---
77-003	*Ambloplites rupestris* Northern rockbass	8	0.25	--	1	Erosion
77-006	*Micropterus salmoides* Largemouth bass	15	0.24	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	1	0.009	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	53	0.75	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus*	87	1.627	Moderately	1	Lesion

Euclid Creek Downstream of Lakeshore Boulevard
August 17, 2020
River Mile: 0.55

	Pumpkinseed sunfish			Tolerant		
80-003	*Perca flavescens* Yellow perch	1	0.004	--	0	---
80-011	*Percina caprodes* Northern logperch darter	1	0.03	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	53	0.194	--	0	---
	Totals	494	7.283		8	

*DELT anomalies were observed on	1.62	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	8.3	(Good)
Shannon Diversity Index, no.	2.155	
Shannon Diversity Index, wt.	2.028	
N	550.5	
B	6.59	

Rocky River Upstream of Puritas Avenue
July 14, 2020
River Mile: 8.30
Station ID: 501810
Collection Method: Longline Electrofishing
Drainage Area: 282 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	*Carpiodes cyprinus* Central quillback carpsucker	12	0.05	--	0	---
43-001	*Cyprinus carpio* Common carp	2	0.01	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	6	0.04	Intolerant	0	---
43-026	*Notropis cornutus* Common shiner	40	0.049	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	71	0.384	--	0	---
43-034	*Notropis stramineus* Sand shiner	80	0.183	Moderately Intolerant	0	---
43-039	*Ericymba buccata* Silverjaw minnow	7	0.02	--	0	---
43-042	*Pimephales promelas* Northern fathead minnow	1	0.004	Highly Tolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	14	0.075	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	48	0.1	--	0	---
47-002	*Ictalurus punctatus* Channel catfish	1	0.039	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	17	0.092	Highly Tolerant	1	Lesion
47-008	*Noturus flavus* Stonecat Madtom	36	0.655	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	11	0.18	--	0	---
77-004	*Micropterus dolomieui*	42	0.317	Moderately	0	---

Rocky River Upstream of Puritas Avenue
July 14, 2020
River Mile: 8.30

	Smallmouth bass			Intolerant		
77-009	*Lepomis macrochirus* Northern bluegill sunfish	2	0.065	Moderately Tolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	2	0.005	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	53	0.281	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	5	0.011	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	68	0.55	--	0	---
	Totals	518	3.110		1	

*DELT anomalies were observed on	0.19	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	8.7	(Good)
Shannon Diversity Index, no.	2.49	
Shannon Diversity Index, wt.	2.392	
N	624	
B	3.569	

Rocky River Upstream of Puritas Avenue
September 21, 2020
River Mile: 8.30
Station ID: 501810
Collection Method: Longline Electrofishing
Drainage Area: 282 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	*Carpiodes cyprinus* Central quillback carpsucker	77	1.55	--	0	---
40-010	*Moxostoma erythrurum* Golden redhorse	1	0.015	Moderately Intolerant	0	---
40-011	*Moxostoma macrolepidotum* Shorthead redhorse	1	0.032	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	4	0.57	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	7	0.215	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	7	0.06	Highly Tolerant	0	---
43-022	*Notropis rubellus* Rosyface Shiner	91	0.15	Intolerant	0	---
43-026	*Notropis cornutus* Common shiner	124	0.39	--	0	---
43-025	*Notropis chrysocephalus* Striped shiner	36	0.15	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	372	1.39	--	0	---
43-033	*Notropis dorsalis* Bigmouth Shiner	2	0.005	--	0	---
43-034	*Notropis stramineus* Sand shiner	207	0.392	Moderately Intolerant	0	---
43-035	*Notropis volucellus* Mimic Shiner	4	0.008	Common Intolerant	0	---
43-039	*Ericymba buccata* Silverjaw minnow	3	0.02	--	0	---
43-043	*Pimephales notatus*	99	0.6	Highly	0	---

Rocky River Upstream of Puritas Avenue
September 21, 2020
River Mile: 8.30

	Bluntnose minnow			Tolerant		
43-044	*Campostoma anomalum* Central stoneroller minnow	131	1.07	--	0	---
47-008	*Noturus flavus* Stonecat Madtom	12	0.27	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	6	0.033	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	13	0.81	Moderately Intolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	2	0.004	Moderately Tolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	3	0.005	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	112	0.39	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	10	0.042	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	41	0.3	--	0	---
	Totals	1365	8.471		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	50	(Exceptional)
Modified Index of Well-Being (MIwb) =	9.8	(Exceptional)
Shannon Diversity Index, no.	2.313	
Shannon Diversity Index, wt.	2.501	
N	1817	
B	10.94	

Rocky River Upstream of Hilliard Boulevard
July 2, 2020
River Mile: 2.50
Station ID: T01W04
Collection Method: Longline Electrofishing
Drainage Area: 292 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
10-004	*Lepisosteus osseus* Longnose Gar	2	0.012	--	0	---
25-002	*Oncorhynchus mykiss* Rainbow trout	1	0.035	--	0	---
40-005	*Carpiodes cyprinus* Central quillback carpsucker	1	0.005	--	0	---
40-011	*Moxostoma macrolepidotum* Shorthead redhorse	2	0.378	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	8	0.49	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	20	0.354	Highly Tolerant	0	---
43-002	*Carassius auratus* Goldfish	1	0.012	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	4	0.01	Highly Tolerant	0	---
43-025	*Notropis chrysocephalus* Striped shiner	25	0.11	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	128	0.448	--	0	---
43-034	*Notropis stramineus* Sand shiner	5	0.016	Moderately Intolerant	0	---
43-042	*Pimephales promelas* Northern fathead minnow	1	0.006	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	29	0.128	--	0	---
47-002	*Ictalurus punctatus* Channel catfish	5	0.085	--	0	---
47-004	*Ictalurus natalis*	7	0.62	Highly	0	---

Rocky River Upstream of Hilliard Boulevard
July 2, 2020
River Mile: 2.50

	Yellow bullhead			Tolerant		
47-008	*Noturus flavus* Stonecat Madtom	19	0.395	Intolerant	0	---
77-003	*Ambloplites rupestris* Northern rockbass	10	0.683	--	0	---
77-004	*Micropterus dolomieui* Smallmouth bass	137	0.168	Moderately Intolerant	0	---
77-008	*Lepomis cyanellus* Green sunfish	9	0.105	Highly Tolerant	0	---
77-009	*Lepomis macrochirus* Northern bluegill sunfish	25	0.35	Moderately Tolerant	0	---
80-002	*Sander vitreus* Walleye	5	0.115	--	0	---
80-011	*Percina caprodes* Northern logperch darter	53	0.773	Moderately Intolerant	0	---
80-014	*Ethestoma nigrum* Johnny darter	1	0.003	--	0	---
80-015	*Etheostoma blenniodes* Greenside darter	30	0.124	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	1	0.002	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	32	0.287	--	0	---
	Totals	561	5.714		0	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	48	(Very Good)
Modified Index of Well-Being (MIwb) =	9.3	(Very Good)
Shannon Diversity Index, no.	2.411	
Shannon Diversity Index, wt.	2.701	
N	729	
B	6.428	

Rocky River Upstream of Hilliard Boulevard
October 12, 2020
River Mile: 2.50
Station ID: T01W04
Collection Method: Longline Electrofishing
Drainage Area: 292 miles^2
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
20-003	*Dorosoma cepedianum* Eastern gizzard shad	8	0.12	--	0	---
40-010	*Moxostoma erythrurum* Golden redhorse	5	0.062	Moderately Intolerant	0	---
40-015	*Hypentelium nigricans* Northern hog sucker	3	0.77	Moderately Intolerant	0	---
40-016	*Catostomus commersonii* Common white sucker	30	0.705	Highly Tolerant	0	---
43-001	*Cyprinus carpio* Common carp	1	0.025	Highly Tolerant	0	---
43-013	*Semotilus atromaculatus* Creek chub	3	0.031	Highly Tolerant	0	---
43-020	*Notropis atherinoides* Common Emerald shiner	46	0.17	--	0	---
43-025	*Notropis chrysocephalus* Striped shiner	12	0.1	--	0	---
43-032	*Cyprinella spiloptera* Spotfin shiner	33	0.105	--	0	---
43-034	*Notropis stramineus* Sand shiner	6	0.014	Moderately Intolerant	0	---
43-043	*Pimephales notatus* Bluntnose minnow	3	0.044	Highly Tolerant	0	---
43-044	*Campostoma anomalum* Central stoneroller minnow	53	0.725	--	0	---
47-004	*Ictalurus natalis* Yellow bullhead	22	0.18	Highly Tolerant	0	---
47-008	*Noturus flavus* Stonecat Madtom	44	1.477	Intolerant	0	---
77-003	*Ambloplites rupestris*	55	0.765	--	0	---

Rocky River Upstream of Hilliard Boulevard
October 12, 2020
River Mile: 2.50

	Northern rockbass					
77-004	*Micropterus dolomieui* Smallmouth bass	21	0.85	Moderately Intolerant	0	---
77-006	*Micropterus salmoides* Largemouth bass	2	0.05	--	0	---
77-008	*Lepomis cyanellus* Green sunfish	14	0.19	Highly Tolerant	1	Erosion
77-009	*Lepomis macrochirus* Northern bluegill sunfish	19	0.245	Moderately Tolerant	0	---
77-013	*Lepomis gibbosus* Pumpkinseed sunfish	3	0.062	Moderately Tolerant	0	---
77-016	*HYBRID* Green SF X Pumpkinseed	1	0.028	--	0	---
80-002	*Sander vitreus* Walleye	3	0.05	--	0	---
80-003	*Perca flavescens* Yellow perch	1	0.009	--	0	---
80-011	*Percina caprodes* Northern logperch darter	33	0.59	Moderately Intolerant	1	Deformity
80-015	*Etheostoma blenniodes* Greenside darter	47	0.195	Moderately Intolerant	0	---
80-022	*Ethestoma caeruleum* Rainbow darter	6	0.02	Moderately Intolerant	0	---
87-001	*Neogobius melanostomus* Round goby	55	0.28	--	0	---
	Totals	529	7.862		2	

*DELT anomalies were observed on	0.38	% of the fish collected.
Index of Biotic Integrity (IBI) =	46	(Very Good)
Modified Index of Well-Being (MIwb) =	9.8	(Exceptional)
Shannon Diversity Index, no.	2.819	
Shannon Diversity Index, wt.	2.658	
N	600	
B	9.569	

Appendix F: 2020 Water Chemistry Results

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	*CaCO3		185.43	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	*CaCO3		132	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	*CaCO3		166	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	*CaCO3		182	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	*CaCO3		180	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	*CaCO3		169	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	*CaCO3		183.09	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	*CaCO3		153	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	*CaCO3		163	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	*CaCO3		179	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	*CaCO3		172	mg/LCaCO3		EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ag	<	0.015	ug/L	0.015	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ag	J	0.008	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ag	J	0.011	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ag	<	0.015	ug/L	0.015	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ag	<	0.016	ug/L	0.016	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ag	<	0.008	ug/L	0.00800	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Al		55.5	ug/L	6.065	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Al		63.2	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Al		65.2	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Al		676	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Al		60.6	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Al		61.1	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Al		44.77	ug/L	6.065	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Al		58.7	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Al		143	ug/L	3.03	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Al		40.7	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Al		32.4	ug/L	6.07	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Alkalinity		132.2	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Alkalinity		107.3	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Alkalinity		124	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Alkalinity		128.6	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Alkalinity		128.7	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Alkalinity		124	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Alkalinity		128.8	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Alkalinity		106.7	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Alkalinity		120.4	mg/LCaCO3	6.4	EPA310.2

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Alkalinity		125.9	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Alkalinity		120	mg/LCaCO3	6.4	EPA310.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	As	<	1.16	ug/L	1.157	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	As	J	1.38	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	As	J	2.39	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	As	J	1.31	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	As	<	1.16	ug/L	1.157	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	As	J	1.49	ug/L	0.579	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	As	<	1.16	ug/L	1.16	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ba		24.19	ug/L	0.099	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ba		26.2	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ba		24.8	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ba		29.5	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ba		22.9	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ba		24.8	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ba		21.92	ug/L	0.099	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ba		22.6	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ba		21.7	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ba		21.3	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ba		24.3	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Be	<	0.117	ug/L	0.117	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Be	<	0.059	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Be	J	0.098	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Be	<	0.117	ug/L	0.117	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Be	<	0.059	ug/L	0.0590	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Be	<	0.118	ug/L	0.118	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	BOD		2.1	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	BOD		2.5	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	BOD		2	mg/L	2	SM5210 B

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	BOD		2.1	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	BOD		2	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	BOD	<	2	mg/L	2	SM5210 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ca		52100	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ca		51500	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ca		51720	ug/L	62.845	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ca		38600	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ca		46500	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ca		48800	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ca		51300	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ca		51570	ug/L	62.845	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ca		42300	ug/L	31.4	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ca		46600	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ca		49200	ug/L	62.8	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Cd	J	0.042	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cd	J	0.04	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cd	J	0.032	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cd	J	0.029	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cd	J	0.045	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cd	J	0.028	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cd	J	0.035	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cd	J	0.031	ug/L	0.026	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cd	J	0.033	ug/L	0.0130	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Cd	J	0.041	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cd	<	0.026	ug/L	0.0260	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Chloride		141.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Chloride		149.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Chloride		127.3	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Chloride		121.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Chloride		121.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Chloride		148.6	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Chloride		128.2	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Chloride		145.3	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Chloride		123.4	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Chloride		114.7	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Chloride		147	mg/L	0.71	EPA300.0
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Co	J	0.356	ug/L	0.031	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Co	J	0.27	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Co	J	0.28	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Co	J	0.391	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Co	J	0.276	ug/L	0.0160	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Co	J	0.305	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Co	J	0.334	ug/L	0.031	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Co	J	0.315	ug/L	0.032	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Co	J	0.295	ug/L	0.0160	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Co	J	0.3	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Co	J	0.302	ug/L	0.0320	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	COD	j	12	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	COD	j	18.2	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	COD	j	11.4	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	COD	j	11.5	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	COD	j	19.9	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	COD	j	11.5	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	COD		22.8	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	COD	j	10	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	COD		22.4	mg/L	6.1	EPA410.4
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cr	J	0.432	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cr	J	0.958	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cr	J	1.08	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cr		1.37	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cr	J	1.29	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cr	J	0.776	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cr	J	1.25	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cr	J	0.67	ug/L	0.182	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cr	J	1.26	ug/L	0.364	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Cu		2.273	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Cu		2.2	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Cu		2.1	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Cu		5.83	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Cu		3.14	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Cu		2.88	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Cu		2.108	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Cu		2.65	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Cu		3.21	ug/L	0.191	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Cu		2.58	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Cu		2.66	ug/L	0.382	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	DRP	j	0.024	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	DRP		0.05	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	DRP	j	0.039	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	DRP		0.069	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	DRP		0.069	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	DRP	j	0.039	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	DRP	j	0.037	mg/L	0.014	EPA365.1

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	DRP		0.056	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	DRP		0.054	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	DRP		0.061	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	DRP		0.048	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	E. coli		923	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	E. coli		2585	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	E. coli		858	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	E. coli		1506	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	E. coli		1255	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	E. coli		864	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	E. coli		765	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	E. coli		2040	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	E. coli		1198	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	E. coli		440	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	E. coli		734	MPN/100 mL	1	SM9223 Colilert
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Fe		389.3	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Fe		337	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Fe		351	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Fe		393	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Fe		890	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Fe		373	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Fe		331	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Fe		358	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Fe		329	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Fe		323	ug/L	12.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Fe		439	ug/L	6.09	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Conductivity		803	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Conductivity		761	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Conductivity		747	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Conductivity		787	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Conductivity		764	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Conductivity		705	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Conductivity		785	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Conductivity		733	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Conductivity		708	umhos/cm		SM 2510A
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Conductivity		764	umhos/cm		SM 2510A
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field DO		7.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field DO		9.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field DO		7.6	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field DO		5.4	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field DO		7.6	mg/L		SM 4500-0 G
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field DO		81	%		

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field DO		110	%		
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field DO		87	%		
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field DO		64	%		
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field DO		86	%		
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field DO		8.7	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field DO		8.5	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field DO		8.2	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field DO		7.9	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field DO		8	mg/L		SM 4500-0 G
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field DO		90	%		
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field DO		96	%		
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field DO		91	%		
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field DO		92	%		
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field DO		90	%		
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Specific Conductance		887	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Specific Conductance		863	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Specific Conductance		807	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Specific Conductance		768	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Specific Conductance		848	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Specific Conductance		827	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Specific Conductance		848	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Specific Conductance		792	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Specific Conductance		735	umhos/cm		SM 2510B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Specific Conductance		835	umhos/cm		SM 2510B
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Field Water Temp		17.8	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Field Water Temp		21.3	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Field Water Temp		22.0	°C		EPA 170.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Field Water Temp		23.5	°C		EPA 170.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Field Water Temp		21.2	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Field Water Temp		17.5	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Field Water Temp		21.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Field Water Temp		21.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Field Water Temp		23.1	°C		EPA 170.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Field Water Temp		20.5	°C		EPA 170.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Hg	<	0.022	ug/L	0.022	EPA245.1

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Hg	<	0.022	ug/L	0.022	EPA245.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	K		3390	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	K		3390	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	K		3319	ug/L	39.348	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	K		2620	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	K		3300	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	K		3570	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	K		3270	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	K		3299	ug/L	39.348	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	K		3080	ug/L	19.7	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	K		3250	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	K		3510	ug/L	39.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mg		12800	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mg		12600	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mg		13690	ug/L	13.347	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mg		11600	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mg		8600	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mg		12100	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mg		12400	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mg		13210	ug/L	13.347	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mg		11200	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mg		11900	ug/L	13.3	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mg		11600	ug/L	6.67	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mn		31.61	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mn		25.7	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mn		25.3	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mn		58.5	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mn		16.7	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mn		15.8	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mn		17.35	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mn		13.6	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mn		18.3	ug/L	0.294	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mn		12.1	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mn		10.4	ug/L	0.588	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Mo		2.74	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Mo		3.35	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Mo		3.12	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Mo		2.23	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Mo		3.02	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Mo		3.37	ug/L	0.196	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Mo		2.649	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Mo		2.87	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Mo		2.38	ug/L	0.0980	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Mo		2.66	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Mo		3.3	ug/L	0.196	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Na		90310	ug/L	32.462	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Na		74800	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Na		74800	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Na		105000	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Na		82200	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Na		87100	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Na		81060	ug/L	32.462	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Na		68900	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Na		95700	ug/L	16.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Na		76900	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Na		86000	ug/L	32.5	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NH3	j	0.025	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NH3	j	0.023	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NH3	<	0.022	mg/L	0.022	EPA350.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ni		3.15	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ni		3.25	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ni		3.12	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ni		2.73	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ni		2.94	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ni		3.49	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ni		3.023	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ni		3.15	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ni		3.03	ug/L	0.109	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ni		3.29	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ni		3.43	ug/L	0.218	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO2	<	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO3		0.251	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO3		0.107	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO3		0.108	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO3		0.474	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO3		0.488	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO3		0.415	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO3		0.522	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO3		0.205	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO3		0.499	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO3		0.351	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO3		0.5	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	NO3+NO2		0.25	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	NO3+NO2		0.104	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	NO3+NO2		0.104	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	NO3+NO2		0.473	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	NO3+NO2		0.492	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	NO3+NO2		0.415	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	NO3+NO2		0.52	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	NO3+NO2		0.203	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	NO3+NO2		0.498	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	NO3+NO2		0.351	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	NO3+NO2		0.505	mg/L	0.014	EPA353.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Pb	J	0.308	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Pb	J	0.143	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Pb	J	0.119	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Pb		1.15	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Pb		0.856	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Pb	J	0.233	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Pb	J	0.204	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Pb	J	0.133	ug/L	0.062	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Pb		0.972	ug/L	0.0310	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Pb	J	0.155	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Pb	J	0.119	ug/L	0.0620	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	pH		7.8	S.U.		
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	pH		8.1	S.U.		

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	pH		7.7	S.U.		
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	pH		7.6	S.U.		
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	pH		7.8	S.U.		
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	pH		7.8	S.U.		
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	pH		7.9	S.U.		
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	pH		7.8	S.U.		
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sb	<	1.9	ug/L	1.9	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sb	<	0.95	ug/L	0.950	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sb	<	1.9	ug/L	1.90	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Se	<	3.77	ug/L	3.768	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Se	<	3.77	ug/L	3.768	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Se	<	1.88	ug/L	1.88	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Se	<	3.77	ug/L	3.77	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sn	<	10.2	ug/L	10.2	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sn	<	10	ug/L	10	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sn	<	10.2	ug/L	10.2	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sn	<	10	ug/L	10.0	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sn	<	5	ug/L	5.00	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	SO4		59.62	mg/L	0.886	EPA300.0

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	SO4		43.96	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	SO4		50.41	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	SO4		53.63	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	SO4		53.66	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	SO4		57.44	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	SO4		56.06	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	SO4		43.55	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	SO4		50.78	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	SO4		51.15	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	SO4		56.76	mg/L	0.886	EPA300.0
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Specific Conductance		837	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Specific Conductance		797	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Specific Conductance		756.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Specific Conductance		146.6	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Specific Conductance		834	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Specific Conductance		778	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Specific Conductance		783	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Specific Conductance		742.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Specific Conductance		716.8	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Specific Conductance		823.7	uS/cm	1.1	SM2510 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Sr		264	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Sr		256	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Sr		261.4	ug/L	0.269	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Sr		229	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Sr		238	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Sr		263	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Sr		245	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Sr		247.1	ug/L	0.269	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Sr		217	ug/L	0.134	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Sr		231	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Sr		257	ug/L	0.268	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TDS		462	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TDS		438	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TDS		414	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TDS		411	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TDS		410	mg/L	1	SM2540 C
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TDS		468	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TDS		418	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TDS		428	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TDS		408	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TDS		405	mg/L	1	SM2540 C
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TDS		462	mg/L	1	SM2540 C

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Ti		3.27	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Ti	J	3.79	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Ti	J	3.38	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Ti		24.8	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Ti		4.1	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Ti		4.11	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Ti		3.213	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Ti	J	3.67	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Ti		7.97	ug/L	0.281	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Ti	J	3.54	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Ti	J	3.98	ug/L	0.562	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TKN	j	0.362	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TKN	j	0.444	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TKN	j	0.367	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TKN	j	0.287	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TKN	j	0.378	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TKN	j	0.295	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TKN	<	0.246	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TKN		0.566	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TKN	j	0.366	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TKN	j	0.376	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TKN	<	0.246	mg/L	0.246	EPA351.2
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Tl	<	0.132	ug/L	0.132	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Tl	<	0.264	ug/L	0.264	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TP		0.046	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TP		0.078	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TP		0.058	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TP		0.084	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TP		0.086	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TP		0.053	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TP		0.049	mg/L	0.014	EPA365.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TP		0.083	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TP		0.063	mg/L	0.016	EPA365.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TP		0.076	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TP		0.055	mg/L	0.016	EPA365.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TS		518	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TS		468	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TS		447	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TS		496	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TS		476	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TS		517	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TS		475	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TS		473	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TS		447	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TS		463	mg/L	1	SM2540 B
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TS		506	mg/L	1	SM2540 B
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	TSS		3.5	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	TSS		4.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	TSS		2.7	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	TSS		3.7	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	TSS		2.4	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	TSS		3	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	TSS		1.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	TSS		14.6	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	TSS		2.1	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	TSS		2.2	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	TSS		2.3	mg/L	0.5	SM2540 D
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Turbidity		4.5	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Turbidity		2.4	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Turbidity		1.6	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Turbidity		1.5	NTU		EPA180.1
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Turbidity		2.6	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Turbidity		1.8	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Turbidity		8.8	NTU		EPA180.1
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Turbidity		2.0	NTU		EPA180.1
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	V	<	0.177	ug/L	0.177	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	V	J	1.72	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	V	J	0.289	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	V	<	0.177	ug/L	0.177	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	V	J	0.383	ug/L	0.0890	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	V	<	0.178	ug/L	0.178	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01567	Zn	J	3.33	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 0.55	7/7/2020 9:03	AB01569	Zn	<	1.65	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 0.55	6/16/2020 8:53	AB01536	Zn	J	3.513	ug/L	1.654	EPA-200.8
Euclid Creek	River Mile 0.55	6/23/2020 12:00	AB01540	Zn		6.1	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 0.55	6/30/2020 8:55	AB01547	Zn		3.62	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 0.55	7/14/2020 8:20	AB01552	Zn	J	2.93	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	7/7/2020 9:24	AB01564	Zn	J	1.98	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	6/16/2020 9:30	AB01539	Zn	J	3.229	ug/L	1.654	EPA-200.8
Euclid Creek	River Mile 1.65	6/23/2020 11:45	AB01542	Zn		4.05	ug/L	0.827	EPA-200.8
Euclid Creek	River Mile 1.65	6/30/2020 9:15	AB01548	Zn	J	2.38	ug/L	1.65	EPA-200.8
Euclid Creek	River Mile 1.65	7/14/2020 8:45	AB01555	Zn	J	2.14	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	*CaCO3		179	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	*CaCO3		139	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	*CaCO3		92.7	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	*CaCO3		195	MG/L		EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	*CaCO3		180	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	*CaCO3		193	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	*CaCO3		127	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	*CaCO3		81.0	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	*CaCO3		80.3	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	*CaCO3		203	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	*CaCO3		187	mg/LCaCO3		EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ag	J	0.0290	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ag	J	0.0280	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ag	<	0.355	UG/L	0.355	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ag	<	0.355	ug/L	0.355	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ag	<	0.016	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ag	J	0.0230	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ag	J	0.0220	ug/L	0.00800	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ag	J	0.0260	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ag	<	0.355	UG/L	0.355	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ag	<	0.355	ug/L	0.355	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Al		138	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Al		1710	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Al		4190	ug/L	6.07	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Al		124	UG/L	38.2	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Al		188	ug/L	38.2	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Al		112	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Al		2360	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Al		2950	ug/L	3.03	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Al		3330	ug/L	6.07	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Al		101	UG/L	38.2	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Al		133	ug/L	38.2	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Alkalinity		112.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Alkalinity		89.8	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Alkalinity		54.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Alkalinity		129.8	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Alkalinity		108	mg/L	6.44	EPA-310.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Alkalinity	~	135	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Alkalinity		80.2	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Alkalinity		43.7	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Alkalinity		42.9	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Alkalinity		130.6	mg/LCaCO3	6.4	EPA310.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Alkalinity		118	mg/L	6.44	EPA-310.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	As	J	1.22	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	As	J	2.55	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	As	J	4.87	ug/L	1.16	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	As	<	1.34	UG/L	1.34	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	As	J	3.68	ug/L	1.34	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	As	J	1.20	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	As	J	3.08	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	As		3.14	ug/L	0.579	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	As	J	3.24	ug/L	1.16	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	As	<	1.34	UG/L	1.34	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	As	<	1.34	ug/L	1.34	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ba		29.4	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ba		38.2	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ba		52.5	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ba		36.4	UG/L	0.31	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ba		29.9	ug/L	0.31	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ba		30.2	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ba		39.8	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ba		40.5	ug/L	0.0590	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ba		42.0	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ba		35.2	UG/L	0.31	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ba		29.7	ug/L	0.31	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Be	J	0.148	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Be	<	0.118	ug/L	0.118	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Be	<	0.29	UG/L	0.29	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Be	<	0.29	ug/L	0.29	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Be	J	0.155	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Be	<	0.059	ug/L	0.0590	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Be	<	0.118	ug/L	0.118	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Be	<	0.29	UG/L	0.29	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Be	<	0.29	ug/L	0.29	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	BOD		2.3	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	BOD		3.9	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	BOD		5.4	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	BOD		2.4	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	BOD		4.8	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	BOD		5.4	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	BOD		4.1	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	BOD	<	2	mg/L	2	SM5210 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ca		46400	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ca		40100	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ca		26400	ug/L	62.8	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ca		52400	UG/L	358	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ca		48800	ug/L	71.7	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ca		49900	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ca		34900	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ca		23100	ug/L	31.4	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ca		22800	ug/L	62.8	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ca		54500	UG/L	358	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ca		50800	ug/L	358	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cd	J	0.0750	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Cd	J	0.184	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cd	J	0.183	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cd	<	0.265	UG/L	0.265	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cd	<	0.265	ug/L	0.265	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cd	J	0.0570	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cd	J	0.193	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cd	J	0.140	ug/L	0.0130	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cd	J	0.151	ug/L	0.0260	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cd	<	0.265	UG/L	0.265	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cd	<	0.265	ug/L	0.265	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Co	J	0.790	ug/L	0.0320	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Co		2.27	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Co		4.32	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Co	J	0.566	UG/L	0.315	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Co	J	0.588	ug/L	0.315	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Co	J	0.751	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Co		2.94	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Co		3.05	ug/L	0.0160	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Co		3.23	ug/L	0.0320	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Co	J	0.533	UG/L	0.315	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Co	J	0.392	ug/L	0.315	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	COD		31.2	mg/L	6.1	EPA410.4
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	COD	~	36.4	mg/L	6.1	EPA410.4
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	COD		21.6	mg/L	6.06	EPA 410.4
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	COD		25.8	mg/L	6.1	EPA410.4
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	COD	J	19.1	mg/L	6.06	EPA 410.4
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cr	<	5.33	ug/L	5.33	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cr	J	1.61	ug/L	0.364	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cr		6.63	ug/L	0.364	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cr	<	5.33	UG/L	5.33	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cr	<	5.33	ug/L	5.33	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cr		4.38	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cr	J	1.46	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cr		4.68	ug/L	0.182	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cr		5.04	ug/L	0.364	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cr	<	5.33	UG/L	5.33	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Cu		3.63	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Cu		8.43	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Cu		11.9	ug/L	0.382	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Cu		3.66	UG/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Cu		4.15	ug/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Cu		3.44	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Cu		9.65	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Cu		8.83	ug/L	0.191	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Cu		9.26	ug/L	0.382	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Cu		3.62	UG/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Cu		3.49	ug/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	DRP	j	0.026	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	DRP		0.042	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	DRP		0.048	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	DRP	j	0.023	mg/L	0.014	EPA365.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	DRP		0.081	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	DRP		0.053	mg/L	0.014	EPA365.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	DRP		0.041	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	DRP		0.054	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	DRP		0.054	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	DRP		0.048	mg/L	0.014	EPA365.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	DRP		0.0428	mg/L	0.014	EPA 365.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	E. coli		1513	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	E. coli		4860	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	E. coli		11080	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	E. coli		135	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	E. coli		559	MPN/100ML	1	SM9223 Colilert
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	E. coli		152	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	E. coli		5980	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	E. coli		10400	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	E. coli		10420	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	E. coli		131	MPN/100 mL	1	SM9223 Colilert
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	E. coli		285	MPN/100ML	1	SM9223 Colilert
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Fe		526	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Fe		3750	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Fe		8760	ug/L	12.2	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Fe	J	428	UG/L	153	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Fe		545	ug/L	153	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Fe		512	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Fe		5110	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Fe		5760	ug/L	6.09	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Fe		6420	ug/L	12.2	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Fe	J	425	UG/L	153	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Fe	J	465	ug/L	153	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Conductivity		759	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Conductivity		587	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Conductivity		327	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Conductivity		770	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Conductivity		634	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Conductivity		746	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Conductivity		530	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Conductivity		289	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Conductivity		773	umhos/cm		SM 2510A
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Conductivity		610	umhos/cm		SM 2510A
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field DO		7.2	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field DO		89	%		
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field DO		7.5	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field DO		91	%		
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field DO		8	mg/L		SM 4500-0 G

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field DO		90	%		
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field DO		6.6	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field DO		81	%		
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field DO		9.1	mg/L		SM 4500-0 G
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field DO		104	%		
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field DO		11.8	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field DO		141	%		
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field DO		7.6	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field DO		91	%		
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field DO		8.2	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field DO		93	%		
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field DO		8.1	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field DO		97	%		
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field DO		9.8	mg/L		SM 4500-0 G
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field DO		110	%		
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Specific Conductance		750	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Specific Conductance		590	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Specific Conductance		352	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Specific Conductance		762	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		674	umhos/cm		SM 2510B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		676	umhos/cm		SM2510 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Specific Conductance		674	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Specific Conductance		757	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Specific Conductance		537	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Specific Conductance		312	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Specific Conductance		787	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Specific Conductance		664	umhos/cm		SM 2510B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Specific Conductance		667	umhos/cm		SM2510 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Field Water Temp		25.6	°C		EPA 170.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Field Water Temp		24.8	°C		EPA 170.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Field Water Temp		21.3	°C		EPA 170.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Field Water Temp		25.5	°C		EPA 170.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Water Temp		21.95	°C		EPA 170.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Field Water Temp		22	°C		EPA 170.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Field Water Temp		24.2	°C		EPA 170.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Field Water Temp		24.4	°C		EPA 170.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Field Water Temp		21.2	°C		EPA 170.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Field Water Temp		24.1	°C		EPA 170.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Field Water Temp		20.74	°C		EPA 170.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Hg	<	0.022	ug/L	0.022	EPA245.1

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Hg	<	0.022	ug/L	0.022	EPA 245.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Hg	<	0.022	ug/L	0.022	EPA245.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Hg	<	0.022	ug/L	0.022	EPA 245.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	K		7310	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	K		5350	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	K		4220	ug/L	39.3	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	K		7440	UG/L	563	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	K		8460	ug/L	563	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	K		8430	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	K		4420	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	K		4020	ug/L	19.7	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	K		4080	ug/L	39.3	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	K		7860	UG/L	563	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	K		6590	ug/L	563	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mg		15300	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mg		9550	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mg		6510	ug/L	13.3	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mg		15600	UG/L	82.7	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mg		14300	ug/L	82.7	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mg		16600	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mg		9560	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mg		5630	ug/L	6.67	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mg		5680	ug/L	13.3	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mg		16200	UG/L	82.7	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mg		14700	ug/L	82.7	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mn		37.6	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mn		139	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mn		236	ug/L	0.588	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mn		17.3	UG/L	0.425	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mn	~	24.2	ug/L	0.425	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mn		25.3	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mn		217	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mn		168	ug/L	0.294	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mn		172	ug/L	0.588	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mn		39.2	UG/L	0.425	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mn		14.6	ug/L	0.425	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Mo		6.27	ug/L	0.196	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Mo		5.02	ug/L	0.196	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Mo		2.85	ug/L	0.196	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Mo		6.88	UG/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Mo		5.51	ug/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Mo		6.98	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Mo		3.55	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Mo		2.11	ug/L	0.0980	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Mo		2.41	ug/L	0.196	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Mo		6.4	UG/L	0.26	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Mo		4.68	ug/L	0.26	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Na		76700	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Na		49200	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Na		20400	ug/L	32.5	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Na		80400	UG/L	160	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Na		63400	ug/L	160	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Na		73300	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Na		43700	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Na		18700	ug/L	16.2	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Na		18600	ug/L	32.5	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Na		83200	UG/L	160	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Na		61800	ug/L	160	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NH3		0.079	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NH3		0.084	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NH3	J	0.0396	mg/L	0.022	EPA-350.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NH3		0.12	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NH3		0.091	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NH3		0.089	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NH3	<	0.022	mg/L	0.022	EPA350.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NH3	J	0.0307	mg/L	0.022	EPA-350.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ni		5.35	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ni		8.57	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ni		12.8	ug/L	0.218	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ni		3.57	UG/L	0.58	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ni		3.66	ug/L	0.58	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ni		5.54	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ni		9.81	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ni		9.00	ug/L	0.109	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ni		9.57	ug/L	0.218	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ni		3.43	UG/L	0.58	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ni		2.87	ug/L	0.58	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO2		0.034	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO2		0.032	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO2		0.039	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO2	j	0.01	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO2		0.0239	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO2		0.029	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO2		0.036	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO2		0.044	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO2		0.044	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO2		0.025	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO2		0.0227	mg/L	0.01	SM4500-NO2 B/EPA 353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO3		2.879	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO3		2.33	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO3		1.076	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO3		1.576	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO3		3.791	mg/L	0.069	EPA353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO3		2.073	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO3		1.743	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO3		0.988	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO3		1	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO3		2.022	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO3		2.327	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	NO3+NO2		2.913	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	NO3+NO2		2.362	mg/L	0.028	EPA353.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	NO3+NO2		1.115	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	NO3+NO2		1.586	mg/L	0.014	EPA353.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	NO3+NO2		3.79	mg/L	0.014	EPA 353.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	NO3+NO2		2.102	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	NO3+NO2		1.778	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	NO3+NO2		1.036	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	NO3+NO2		1.044	mg/L	0.014	EPA353.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	NO3+NO2		2.047	mg/L	0.028	EPA353.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	NO3+NO2		2.33	mg/L	0.014	EPA 353.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Pb	J	0.343	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Pb		4.62	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Pb		8.18	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Pb	J	0.368	UG/L	0.35	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Pb	J	0.563	ug/L	0.35	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Pb	J	0.279	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Pb		5.52	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Pb		5.50	ug/L	0.0310	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Pb		5.79	ug/L	0.0620	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Pb	J	0.371	UG/L	0.35	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Pb	J	0.391	ug/L	0.35	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	pH		8.1	S.U.		
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	pH		7.8	S.U.		
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	pH		7.7	S.U.		
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	pH		8.0	S.U.		
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	pH		8.1	S.U.		
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	pH		8.5	S.U.		
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	pH		7.7	S.U.		
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	pH		7.7	S.U.		
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	pH		8.0	S.U.		
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	pH		8.2	S.U.		
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sb	J	2.04	UG/L	0.275	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sb	J	1.03	ug/L	0.275	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sb	<	0.95	ug/L	0.950	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sb	<	1.9	ug/L	1.90	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sb	J	1.97	UG/L	0.275	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sb	J	1.23	ug/L	0.275	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Se	<	7.1	UG/L	7.1	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Se	J	9.95	ug/L	7.1	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Se	<	1.88	ug/L	1.88	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Se	<	3.77	ug/L	3.77	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Se	<	7.1	UG/L	7.1	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Se	<	7.1	ug/L	7.1	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sn	<	10	UG/L	10	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sn	<	10	ug/L	10	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sn	<	10	ug/L	10.0	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sn	<	5	ug/L	5.00	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sn	<	10	ug/L	10.0	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sn	<	10	UG/L	10	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sn	<	10	ug/L	10	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Specific Conductance		718.6	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Specific Conductance		584	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Specific Conductance		351	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Specific Conductance		755	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Specific Conductance		676	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Specific Conductance		757.4	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Specific Conductance		529	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Specific Conductance		310	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Specific Conductance		291.5	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Specific Conductance		783	uS/cm	1.1	SM2510 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Specific Conductance		667	uS/cm	1.1	SM2510 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Sr		289	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Sr		241	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Sr		168	ug/L	0.268	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Sr		316	UG/L	0.995	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Sr		287	ug/L	0.199	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Sr		321	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Sr		226	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Sr		141	ug/L	0.134	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Sr		144	ug/L	0.268	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Sr		330	UG/L	0.995	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Sr		309	ug/L	0.995	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TDS		414	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TDS		306	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TDS		180	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TDS		410	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TDS		368	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TDS		462	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TDS		268	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TDS		172	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TDS		166	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TDS		430	mg/L	1	SM2540 C
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TDS		372	mg/L	1	SM2540 C
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Ti		4.74	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Ti		19.3	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Ti		27.0	ug/L	0.562	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Ti	J	2.13	UG/L	1.66	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Ti	J	3.11	ug/L	1.66	EPA-200.8

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Ti		4.80	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Ti		21.2	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Ti		21.0	ug/L	0.281	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Ti		22.5	ug/L	0.562	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Ti	J	1.98	UG/L	1.66	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Ti	J	2.46	ug/L	1.66	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TKN		0.738	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TKN		1.434	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TKN		1.952	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TKN		0.699	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TKN		0.969	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TKN		1.035	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TKN		1.566	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TKN		1.579	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TKN		1.198	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TKN		0.765	mg/L	0.246	EPA351.2
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TKN		0.859	mg/L	0.246	EPA351.2
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Tl	<	0.495	UG/L	0.495	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Tl	<	0.495	ug/L	0.495	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Tl	J	0.145	ug/L	0.132	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Tl	<	0.264	ug/L	0.264	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Tl	<	0.495	UG/L	0.495	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Tl	<	0.495	ug/L	0.495	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TP		0.069	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TP		0.191	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TP		0.371	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TP		0.054	mg/L	0.016	EPA365.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TP		0.12	mg/L	0.0156	EPA 365.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TP		0.109	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TP		0.264	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TP		0.308	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TP		0.292	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TP		0.084	mg/L	0.016	EPA365.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TP		0.0828	mg/L	0.0156	EPA 365.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TS		502	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TS		494	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TS		544	mg/L	1	SM2540 B

Waterbody	Sample Location	Sample Date	Sample ID	Sample Information Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TS		506	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TS		430	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TS		510	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TS		522	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TS		390	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TS		386	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TS		514	mg/L	1	SM2540 B
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TS		402	mg/L	1	SM2540 B
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	TSS		9.1	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	TSS		132	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	TSS		300	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	TSS		4.3	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	TSS		7.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	TSS		12.6	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	TSS		167	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	TSS		214.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	TSS		222.7	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	TSS		2.5	mg/L	0.5	SM2540 D
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	TSS		5.6	mg/L	0.5	SM2540 D
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Turbidity		7.4	NTU		EPA180.1
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Turbidity		53	NTU		EPA180.1
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Turbidity		322	NTU		EPA180.1
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Turbidity		4.1	NTU		EPA180.1
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Turbidity		8.4	NTU		EPA180.1
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Turbidity		6.6	NTU		EPA180.1
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Turbidity		83.8	NTU		EPA180.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Turbidity		243	NTU		EPA180.1
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Turbidity		251	NTU		EPA180.1
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Turbidity		2.8	NTU		EPA180.1
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Turbidity		6.7	NTU		EPA180.1
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	V	<	0.178	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	V	J	3.46	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	V	J	5.18	ug/L	0.178	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	V	<	17.9	UG/L	17.9	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	V	<	17.9	ug/L	17.9	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	V	<	0.178	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	V	J	3.82	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	V	J	3.88	ug/L	0.0890	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	V	J	4.67	ug/L	0.178	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	V	<	17.9	UG/L	17.9	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	V	<	17.9	ug/L	17.9	EPA-200.8
Rocky River	River Mile 2.50	7/21/2020 8:50	AB01597	Zn		6.51	ug/L	1.65	EPA-200.8

Sample Information									
Waterbody	Sample Location	Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
Rocky River	River Mile 2.50	7/28/2020 11:21	AB01609	Zn		31.3	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	8/4/2020 8:43	AB01614	Zn		47.3	ug/L	1.65	EPA-200.8
Rocky River	River Mile 2.50	8/11/2020 8:40	AB01616	Zn	J	10	UG/L	5.74	EPA-200.8
Rocky River	River Mile 2.50	8/18/2020 11:45	AB00807	Zn	J	14.8	ug/L	5.74	EPA-200.8
Rocky River	River Mile 8.30	7/21/2020 10:05	AB01596	Zn		6.96	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	7/28/2020 10:45	AB01608	Zn		36.9	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01613	Zn		32.2	ug/L	0.827	EPA-200.8
Rocky River	River Mile 8.30	8/4/2020 9:30	AB01615	Zn		35.0	ug/L	1.65	EPA-200.8
Rocky River	River Mile 8.30	8/11/2020 9:25	AB01617	Zn	J	20.5	UG/L	5.74	EPA-200.8
Rocky River	River Mile 8.30	8/18/2020 10:30	AB00808	Zn	J	9.89	ug/L	5.74	EPA-200.8

Appendix G: 2020 Surface Water Condition Sampling Field Sheets

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 06/16/2020 Collectors: H. Boesinger / E Sachilen

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES (NO)

Water Quality Meters Used: EXO1D

R-2006110003 Euclid Creek River Mile 0.55 (EM5) Sample Date: 6/16/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 8:53 River Mile (Site): RM 0.55

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Installed today

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 764 Sp. Cond. (µmhos/cm): 887

Dissolved Oxygen (mg/L): 7.7 D.O. (%): 81 %

Temperature (°C): 17.82 pH (s.u.): 7.8

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.1 Average (NTU): 2.0

General Comments: HD: 46 cm 0.4 FPS Backbland conditions

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

R-2006110C02 Euclid Creek River Mile 1.65 Sample Date: 6/16/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 9:30 River Mile (Site): 1.65

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Installed

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 785 Sp. Cond. (µmhos/cm): 827

Dissolved Oxygen (mg/L): 8.7 D.O. (%): 90

Temperature (°C): 17.50 pH (s.u.): 7.9

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 1.6 Average (NTU): 1.8

General Comments: HD: 12 cm, 0.82 FPS

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 6/30/20 Collectors: MM/DS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used: EXO "C"

R-2006230009 Euclid Creek River Mile 0.55 (EM5)

FB-2006240001 Field Blank Field Blank

Sample Date: 6/30/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

hrs): 8:55 River Mile (Site): 0.55

eather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

w: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

) Status: OK Other: Could not find

lor: (Clear) Muddy Tea Milky Other: _____

or: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

rface Coating: (None) Foam Oily Scum Other: _____

ld Parameters: Conductivity (µmhos/cm): 761 Sp. Cond. (µmhos/cm): 807

Dissolved Oxygen (mg/L): 7.6 D.O. (%): 87

Temperature (°C): 22.0 pH (s.u.): 7.7

Average (NTU): 2.4 (2.3 + 2.4)

Ge

AB00159 (1234601)
Euclid Creek Euclid Creek000.55
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

AB00153 (1234596)
Euclid Creek Euclid Creek000.55
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

0 Turb
2.1 + 0.2 = 0.2

Time (hrs): 9:15 River Mile (Site): 1.65

R-2006230008 Euclid Creek River Mile 1.65

Sample Date: 6/30/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Weather: (Clear) Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: OK Other: Could not find

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 733 Sp. Cond. (µmhos/cm): 792

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 91

Temperature (°C): 21.10 pH (s.u.): 7.8

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.1 Average (NTU): 2.0

General Comments: _____

AB00154 (1234597)
Euclid Creek Euclid Creek001.65
Collection Date: 1/1/0001
None HNO3 H2SO4 Na2S2O3

Modified January 28, 2015

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 6/23/20 Collectors: HB / MM

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used:

R-2006160003
AB00084 (1234545)
Euclid Creek Euclid Creek000.55
Collection Date: 6/23/2020
None HNO3 H2SO4 Na2S2O3

(hrs): 12:00 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

ID Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 803 Sp. Cond. (µmhos/cm): 863

Dissolved Oxygen (mg/L): 9.7 D.O. (%): 110

Temperature (°C): 21.32 pH (s.u.): 8.1

Turbidity 1 (NTU): 4.2 Turbidity 2 (NTU): 4.8 Average (NTU): 4.5

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

R-2006160002
AB00085 (1234546)
Euclid Creek Euclid Creek001.65
Collection Date: 6/23/2020
None HNO3 H2SO4 Na2S2O3

Time (hrs): 11:45 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

ID Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 785 Sp. Cond. (µmhos/cm): 846

Dissolved Oxygen (mg/L): 8.5 D.O. (%): 96

Temperature (°C): 21.13 pH (s.u.): 7.9

Turbidity 1 (NTU): 8.9 Turbidity 2 (NTU): 8.6 Average (NTU): 8.8

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 7/14/20 Collectors: JT/HB

Gage Station and ID: EX01 C Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES (NO)

Water Quality Meters Used:

AB00337 (1234783)
R-2007090003
Euclid Creek River Mile 0.55 (EM5)
Sample Date: 7/14/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0820 River Mile (Site): _____

Weather: Clear, (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

low: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

ID Status: (OK) Other: slightly buried

'olor: (Clear) Muddy Tea Milky Other: _____

)dor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

urface Coating: (None) Foam Oily Scum Other: _____

ield Parameters: Conductivity (µmhos/cm): 787 Sp. Cond. (µmhos/cm): 848

Dissolved Oxygen (mg/L): 7.6 D.O. (%): 86

Temperature (°C): 21.22 pH (s.u.): 7.8

Turbidity 1 (NTU): 2.8 Turbidity 2 (NTU): 2.3 Average (NTU): 2.6

ieneral Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

AB00338 (1234784)
R-2007090002
Euclid Creek River Mile 1.65
Sample Date: 7/14/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0845 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: Good

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 764 Sp. Cond. (µmhos/cm): 835

Dissolved Oxygen (mg/L): 8.0 D.O. (%): 90

Temperature (°C): 20.52 pH (s.u.): 7.8

Turbidity 1 (NTU): 2.1 Turbidity 2 (NTU): 1.8 Average (NTU): 2.0

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used:

AB00339 (1234785) R-2007090004 Euclid Creek River Mile 7.45 Sample Date: 7/14/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

me (hrs): 0920 River Mile (Site): Euclid Crk RM 7.45

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1667 Sp. Cond. (µmhos/cm): 1848

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 80

Temperature (°C): 19.87 pH (s.u.): 7.6

Turbidity 1 (NTU): 1.3 Turbidity 2 (NTU): 1.2 Average (NTU): 1.3

General Comments:

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

AB00343 (1234789) R-2007090010 Un-named Trib to PC00272 Sample Date: 7/14/2020 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0945 River Mile (Site): Unnamed Trib to Pepper-Lake Rm

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1274 Sp. Cond. (µmhos/cm): 1395

Dissolved Oxygen (mg/L): 10.3 D.O. (%): 111

Temperature (°C): 18.50 pH (s.u.): 8.1

Turbidity 1 (NTU): 3.0 Turbidity 2 (NTU): 2.9 Average (NTU): 3.0

General Comments:

R-2007060008 Euclid Creek River Mile 0.55 (EM5)
R-2007060001 Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date 7/7/2020 Collectors: Sachalen / Fitzgibbons

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: EXO1

ime (hrs): 9:03 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 747 Sp. Cond. (µmhos/cm): 768

Dissolved Oxygen (mg/L): 5.4 D.O. (%): 64

Temperature (°C): 23.5 pH (s.u.): 7.6

Turbidity 1 (NTU): 1.4 Turbidity 2 (NTU): 1.8 Average (NTU): 1.6

General Comments: Dup: 1.4 1.5 1.5

AB00316 (1234762) Euclid Creek Euclid Creek000.55
AB00311 (1234757) Collection Date: 7/7/2020
None HNO3 H2SO4 Na2S2O3

rting sig figs: (Cond and DO% - 1)(pH, DO mg/L, and Chlor BGA-PC - 0.1)(Temp: 0.01)

.e (hrs): 0924 River Mile (Site): EC 1.65

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 708 Sp. Cond. (µmhos/cm): 735

Dissolved Oxygen (mg/L): 7.9 D.O. (%): 92

Temperature (°C): 23.10 pH (s.u.): 7.9

Turbidity 1 (NTU): 1.9 Turbidity 2 (NTU): 2.0 Average (NTU): 2.0

General Comments: _____

AB00312 (1234758) Euclid Creek River Mile 1.65
R-2007060007 Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid/Trib to Pepper Lake Date: 7/7/20 Collectors: ES/KF

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used:

R-2007060009
AB00313 (1234759)
Euclid Creek Euclid Creek007.45
Collection Date: 7/7/2020
None HNO3 H2SO4 Na2S2O3

: (hrs): 1020 River Mile (Site): 7.45

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 2719 Sp. Cond. (µmhos/cm): 2826

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 84

Temperature (°C): 22.95 pH (s.u.): 7.7

Turbidity 1 (NTU): 1.7 Turbidity 2 (NTU): 1.2 Average (NTU): 1.5

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General Comments:

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 1057 River Mile (Site): PC00272

AB00323 (1234764)
R-2007060015
Un-named Trib to PC00272
Sample Date: 7/7/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other:

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other:

Color: Clear Muddy Tea Milky Other:

Odor: Normal Petroleum Anaerobic Sewage Chemical Other:

Surface Coating: None Foam Oily Scum Other:

Field Parameters: Conductivity (µmhos/cm): 1619 Sp. Cond. (µmhos/cm): 1728

Dissolved Oxygen (mg/L): 20.7 D.O. (%): 235

Temperature (°C): 21.75 pH (s.u.): 8.6

Turbidity 1 (NTU): 4.7 Turbidity 2 (NTU): 4.4 Average (NTU): 4.6

General Comments: Lots of benthic and floating algae clumps contributing to high dissolved oxygen.

AB00371 (1234816)
Rocky River RRMB008.30
Collection Date: 7/21/20
ie HNO3 H2SO4 Na2S2O3

R-2007150004
Rocky River River Mile 8.30
Sample Date: 7/21/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

R-2007150002
Rocky River River Mile 11.85
Sample Date: 7/21/2020
None-A HNO3-B H2SO4-C Na2S2O3-E

AB00381 (1234823)
Rocky River RRMB011.85
Collection Date: 7/21/20
None HNO3 H2SO4 Na2S2O3

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 7/21/20 Collectors: MM/ES

Gage Station and ID: _____ *Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo "0"

Time (hrs): 10:05 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 746 Sp. Cond. (µmhos/cm): 757

Dissolved Oxygen (mg/L): 11.8 D.O. (%): 141

Temperature (°C): 24.25 pH (s.u.): 8.5

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 10:45 River Mile (Site): 11.85

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 719 Sp. Cond. (µmhos/cm): 732

Dissolved Oxygen (mg/L): 9.1 D.O. (%): 109

Temperature (°C): 24.09 pH (s.u.): 8.2

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Modified April 3 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/21/20 Collectors: MM/ES

Gage Station and ID: _____ Daily Mean Discharge: _____ ft^3/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo "D"

Time (hrs): 8:50 River Mile (Site): 7.5

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 759 Sp. Cond. (µmhos/cm): 750

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 89

Temperature (°C): 25.62 pH (s.u.): 8.1

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

orting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chlor/BGA-PC - 0.1) (Temp- 0.01)

ne (hrs): 9:40 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Installed today

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 756 Sp. Cond. (µmhos/cm): 754

Dissolved Oxygen (mg/L): 7.0 D.O. (%): 85

Temperature (°C): 25.14 pH (s.u.): 8.0

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

None HNO3 H2SO4 Na2S2C

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River MB Date: 8/4/20 Collectors: E. Sechler / H. Baesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: EXO1 C

Time (hrs): 843 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Too muddy to check

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 327 Sp. Cond. (µmhos/cm): 352

Dissolved Oxygen (mg/L): 8.0 D.O. (%): 90

Temperature (°C): 21.30 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 32.6 (low dilution) Turbidity 2 (NTU): 31.8 Average (NTU): 322

General Comments: _____

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl/PBGA-PC - 0.1) (Temp-0.01)

Time (hrs): 0910 River Mile (Site): RR 4.8

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: too muddy

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 304 Sp. Cond. (µmhos/cm): 328

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 92

Temperature (°C): 21.14 pH (s.u.): 7.1

Sample ID: Turbidity 1 (NTU): 26.0 (low dilution) Turbidity 2 (NTU): 27.8 Average (NTU): 269

General Comments: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 8/4/20 Collectors: E. Sachs / H. Bassinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used:

Time (hrs): 9:30 River Mile (Site): 8.30

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minima. Baseline/Normal (Elevated) Flood

HD Status: OK Other: Too H. It to check

Color: Clear (Muddy) Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 289 Sp. Cond. (µmhos/cm): 312

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 93

Temperature (°C): 21.8 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 10x dilution 26.0 Turbidity 2 (NTU): 24.1 Average (NTU): 251

General Comments: Dup 10x dilution 23.7, 24.9 = 243

Reporting sig figs: (Cond and DO% - 1); pH, DO mg/L, and Chl of BGS-PC - 0.1); (Temp- 0.01)

Time (hrs): 1000 River Mile (Site): RR 10.2

Weather: Clear Partly Cloudy (Overcast) Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minima. Baseline/Normal (Elevated) Flood

HD Status: OK Other: Too Muddy

Color: (Clear) (Muddy) Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 310 Sp. Cond. (µmhos/cm): 334

Dissolved Oxygen (mg/L): 8.3 D.O. (%): 94

Temperature (°C): 21.22 pH (s.u.): 7.7

Sample ID: Turbidity 1 (NTU): 10x dilution 20.5 Turbidity 2 (NTU): 21.3 Average (NTU): 20.9 209

General Comments: _____

AB00683 (123514/) Rocky River RRMB0C Collection Date: 8/11/2020 None HNO3 H2SO4 Na2S2O3

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 8/11/20 Collectors: KF / KA

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: EXO 1C

Time (hrs): 0840 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 770 Sp. Cond. (µmhos/cm): 762

Dissolved Oxygen (mg/L): 6.6 D.O. (%): 81

Temperature (°C): 25.53 pH (s.u.): 8.0

Turbidity 1 (NTU): 4.1 Turbidity 2 (NTU): 4.1 Average (NTU): 4.1

General Comments: _____

R-2008070006 Rocky River River Mile 2.50 (EM Sample Date: 8/11/2020 None-A HNO3-B H2SO4-C Na2S2O3

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl) BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 0900 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Second HD Met

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 762 Sp. Cond. (µmhos/cm): 744

Dissolved Oxygen (mg/L): 7.4 D.O. (%): 91

Temperature (°C): 26.32 pH (s.u.): 8.5

Turbidity 1 (NTU): 3.9 Turbidity 2 (NTU): 3.8 Average (NTU): 3.9

General Comments: _____

AB00681 (123515) Rocky River River Mile 4.80 Sample Date: 8/11/2020 R-2008070005 None-A HNO3-B H2SO4-C Na2S2O3-E

Modified April 3, 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 8/11/20 Collectors: KF/KA

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

AB00682 (1235146)
R-2008070004
Rocky River River Mile 8.30
Sample Date: 8/11/2020
Vone-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0925 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Not found

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 773 Sp. Cond. (µmhos/cm): 787

Dissolved Oxygen (mg/L): 8.1 D.O. (%): 97

Temperature (°C): 27.06 pH (s.u.): 8.0

Sample ID: Turbidity 1 (NTU): 2.7 Turbidity 2 (NTU): 2.8 Average (NTU): 2.8

General Comments: _____

Reporting sig figs: (Cond and DO% - 1); (pH, DO mg/L, and Chl/ BGA-PC - 0.1); (Temp- 0.01)

AB00680 (1235144)
R-2008070003
Rocky River River Mile 10.20
Sample Date: 8/11/2020
Vone-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1010 River Mile (Site): 10.20

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: Coated not locate

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 741 Sp. Cond. (µmhos/cm): 762

Dissolved Oxygen (mg/L): 10.6 D.O. (%): 125

Temperature (°C): 22.58 pH (s.u.): 8.3

Turbidity 1 (NTU): 2.2 Turbidity 2 (NTU): 5.0 Average (NTU): 2.1

General Comments: _____

AB00807 (1235263) R-2008170006 Rocky River River Mile 2.50 (EM11) Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

AB00810 (1235265) B-2008180001 Field Blank Field Blank Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

R-2008170005 Rocky River River Mile 4.80 Sample Date: 8/18/2020 None HNO3-B H2SO4-C Na2S2O3-E

AB00812 Rocky River Collection Date: None HNO3 H

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: 8/18/20 Collectors: JT/JS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? (YES) NO

Water Quality Meters Used: EXO 1 G

me (hrs): 1145 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: _____

Color: (Clear) Muddy Tea Milky Other: _____

Odor: (Normal) Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: (None) Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 634 Sp. Cond. (µmhos/cm): 674

Dissolved Oxygen (mg/L): 9.1 D.O. (%): 104

Temperature (°C): 21.95 pH (s.u.): 8.1

Turbidity 1 (NTU): 8.2 Turbidity 2 (NTU): 8.5 Average (NTU): 8.4

General Comments: PC: 0.15 mg/L Chl: 4.02 mg/L
FB turbidity 0.3, 0.51 and 0.4

Supporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl by BGA-PC - 0.1) (Temp- 0.01)

Time (hrs): 1103 River Mile (Site): _____

Weather: Clear (Partly Cloudy) Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal (Baseline/Normal) Elevated Flood

HD Status: (OK) Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 603 Sp. Cond. (µmhos/cm): 657

Dissolved Oxygen (mg/L): 8.6 D.O. (%): 96

Temperature (°C): 20.69 pH (s.u.): 7.9

Turbidity 1 (NTU): 7.4 Turbidity 2 (NTU): 6.9 Average (NTU): 7.2

General Comments: PC: 0.26 Chl: 6.04

Modified April 3, 2018

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 8/18/20 Collectors: JT/JS

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: _____

AB00808 R-2008170004 Rocky River River Mile 8.30
Rocky River Sample Date: 8/18/2020
Collection Date None-A HNO3-B H2SO4-C Na2S2O3-E
None HNO3 None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1030 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 610 Sp. Cond. (µmhos/cm): 664

Dissolved Oxygen (mg/L): 9.8 D.O. (%): 110

Temperature (°C): 20.74 pH (s.u.): 8.2

Turbidity 1 (NTU): 7.0 Turbidity 2 (NTU): 6.3 Average (NTU): 6.7

General Comments: PC 0.28 mg/L Chl 6.46 ug/L

Reporting sig figs: (Cond and DO% - 1) (pH, DO mg/L, and Chl of BGA-PC - 0.1) (Temp- 0.01)

AB00803 (1235259) R-2008170003 Rocky River River Mile 10.20
Rocky R Sample Date: 8/18/2020
Collecti None-A HNO3-B H2SO4-C Na2S2O3-E
None HNO None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 1004 River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 628 Sp. Cond. (µmhos/cm): 688

Dissolved Oxygen (mg/L): 9.4 D.O. (%): 104

Temperature (°C): 20.39 pH (s.u.): 8.0

Turbidity 1 (NTU): 6.2 Turbidity 2 (NTU): 6.9 Average (NTU): 6.6

General Comments: PC 0.31 mg/L Chl 7.26 mg/L

CSO Public Notification Rule Annual Notice

2020

Northeast Ohio Regional Sewer District

COMBINED SEWER OVERFLOW PUBLIC NOTIFICATION RULE

ANNUAL NOTICE

2020

May 1, 2021

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APPENDICES

Appendix 1: CSO Location and Discharge Information

1.0 Introduction

On January 8, 2018, the United States Environmental Protection Agency (USEPA) promulgated the Public Notification Requirements for Combined Sewer Overflows to the Great Lakes Basin Rule (CSO Notification Rule) requiring, in part, National Pollutant Discharge Elimination System (NPDES) permittees that discharge combined sewer overflows (CSOs) to the Great Lakes Basin to develop and implement a Public Notification Plan for CSO discharges. The CSO Public Notification Plan describes how the Northeast Ohio Regional Sewer District (District) will ensure that the public receives notification of CSO occurrences and CSO impacts, as required by the CSO Notification Rule. Pursuant to the CSO Notification Rule, the District's CSO Public Notification Plan was submitted to the Ohio Environmental Protection Agency (Ohio EPA) on August 7, 2018. Implementation of the Plan was successfully initiated on November 7, 2018.

In addition to developing and implementing a CSO Public Notification Plan, the CSO Notification Rule also requires any Great Lakes Basin permittee to prepare an annual notice describing CSO discharges from its collection system during the previous calendar year. This annual notice must be made available to the public and must also be made available to the USEPA and Ohio EPA. In accordance with 40 CFR 122.38(b), this document will serve as the District's annual notice for 2020 and covers the time period of January 1, 2020 through December 31, 2020.

2.0 Annual Notice Requirements

40CFR122.38(b)(1)-(8) requires the following items to be included in the annual report:

- The location and receiving water for each CSO discharge point, and (if applicable) any treatment provided;
- The date, location, approximate duration, measured or estimated volume and cause of each wet weather CSO discharge that occurred during the past calendar year;
- The date, location, duration, volume and cause of each dry weather CSO discharge that occurred during the past calendar year;
- A summary of available monitoring data for CSO discharges from the past calendar year;
- A description of any public access areas potentially impacted by each CSO discharge;
- If precipitation was the cause of a discharge (§ 122.38(b)(2)), the representative precipitation data in total inches, to the nearest tenth of an inch (0.1") that resulted in a CSO discharge;
- Permittee contact information, if not listed elsewhere on the website where the annual notice is provided; and
- A concise summary of the implementation of the nine minimum controls and the status of the implementation of the LTCP or other plans to reduce or prevent CSO discharge including:
    - ◊ A description of key milestones remaining to complete the implementation of the plan; and
    - ◊ A description of the average annual number of CSO discharges anticipated after implementation of the LTCP.

2.1 Precipitation Data

The District owns and maintains a network of twenty-nine (29) permanent rainfall gauges which collect data in 1-minute intervals. This data is used as input in the District's CSO models and in the District's predictive tool to generate estimated CSO discharge information. **Figure 1** below shows the location of all twenty-nine (29) District rain gauges.

Figure 1. NEORSD Rain Gauge Network

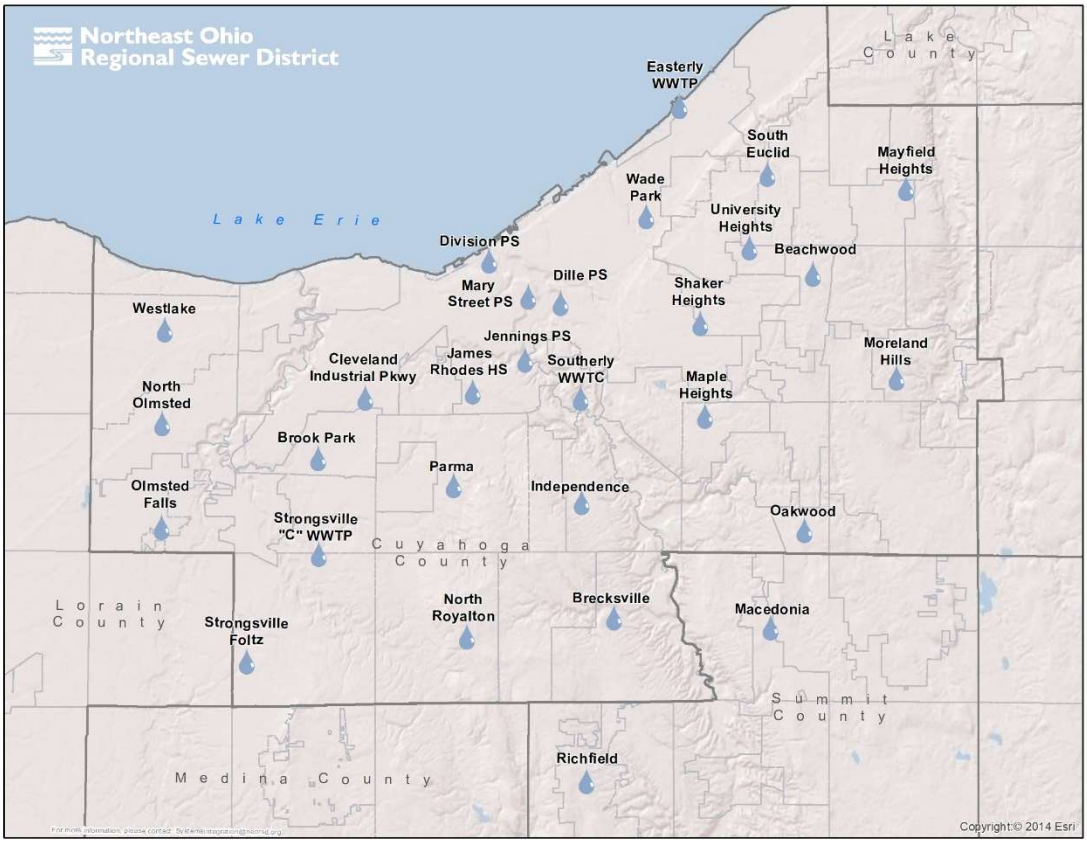

Table 1 below includes a summary of outages for the District's rain gauges from January 1, 2020 through December 31, 2020:

Table 1

District Rain Gauge	Days out of Service	Dates out of Service
Beachwood	0	-
Brecksville	15	6/10/2020 - 6/11/2020 7/19/2020 - 7/20/2020 7/22/2020 10/19/2020 - 10/20/20 10/26/2020 - 11/02/2020
Brook Park	4	1/18/2020 – 1/21/2020
Cleveland Industrial Parkway	2	6/10/2020 – 6/11/2020
Dille Ave. PS	6	3/20/2020 – 3/23/20205/10/2020 – 5/11/2020
Division Ave. PS	4	10/23/2020 – 10/26/2020
Easterly WWTP	38	4/10/2020 – 5/15/2020 11/30/2020 – 12/1/2020
Independence	0	-
James Rhodes HS	2	10/19/2020 – 10/20/2020
Jennings PS	2	12/1/2020 – 12/2/2020
Macedonia	0	-

District Rain Gauge	Days out of Service	Dates out of Service
Maple Heights	0	-
Mary St. PS	0	-
Mayfield Heights	6	12/24/2020 – 12/29/2020
Moreland Hills	0	-
North Olmsted	1	7/27/2020
North Royalton	11	2/12/2020 – 2/18/2020 2/24/2020 – 2/25/2020 6/10/2020 – 6/11/2020
Oakwood	15	1/18/2020 – 1/22/2020 8/16/2020 – 8/17/2020 11/30/2020 – 12/2/2020 12/24/2020 – 12/28/2020
Olmsted Falls	0	-
Parma	0	-
Richfield	6	7/19/2020 – 7/20/2020 7/22/2020 11/30/2020 – 12/2/2020
Shaker Heights	0	-
South Euclid	3	2/5/2020 – 2/7/2020
Southerly WWTC	0	-
Strongsville "C" WWTP	7	9/28/2020 – 9/29/2020 12/24/2020 – 12/28/2020
Strongsville Foltz	2	8/28/2020 9/7/2020
University Heights	5	7/10/2020 – 7/14/2020
Wade Park	0	-
Westlake	0	-

2.2 2020 CSO Volume and Activations

To report CSO discharge information in accordance with the 4-hour and 7-day notification requirements in the CSO Notification Rule, the District currently uses a combination of monitoring information from its 21 monitored CSO outfalls and information from its predictive tool for the remaining ninety-three (93) CSOs. The annual notice is prepared using a summary of the results from the District's annual collection system model runs for the ninety-three (93) unmonitored sites, as well as a summary of the field data collected from the twenty-one (21) monitored sites.

This approach is in accordance with the annual reporting requirements in the District's CSO NPDES permit, 3PA00002*HD. These results will also match the data being reported in the eDMRs in accordance with the District's CSO NPDES permit. **Appendix 1** contains all of the required information relating to the CSO locations, activations, estimated volume of discharges, and estimated rainfall totals that resulted in CSO discharge events. Please note that minor discrepancies in data totals in this report and in the CSO Permit annual report are a result of rounding.

In addition, the District monitors and reports on activations and estimated volume of discharges from CSO 001 and CSO 002 in accordance with the applicable NPDES Permits. CSO 001 is included as Plant Outfall 002 in the Easterly Wastewater Treatment Plant (WWTP) NPDES Permit 3PF00001*MD. In 2020, there were 32 discharges from CSO 001 for a total volume of 959.84 MG. CSO 002 is included as Plant Outfall

002 in the Westerly Wastewater Treatment Center (WWTC) NPDES Permit 3PE00001*QD. In 2020, there were 22 discharges from CSO 002 for a total volume of 758.00 MG.[1]

3.0 Nine Minimum Controls Implementation

The District administers its Nine Minimum Controls Program through its CSO Operational Plan, which was updated in 2016 as required in NPDES permit 3PA00002*HD. Since then, the District has increased its ability to remotely monitor automatic regulators in the combined sewer system. In addition, the District continues to try to reduce the frequency and magnitude of wet weather overflows as well as prevent dry weather overflows by implementing the requirements of its CSO Operational Plan.

4.0 Long-Term Control Plan Implementation

The District's Long-Term Control Plan is being implemented through Project Clean Lake, which is a 25-year program to reduce CSO discharges to the environment from approximately 4.5 billion gallons per year to less than 0.5 billion gallons per year which translates into 98% capture of all combined sewage. Project Clean Lake was developed after the District entered into a Consent Decree with USEPA and Ohio EPA in July 2011, and consists of construction of seven large-diameter tunnels (Euclid Creek Tunnel (ECT), Dugway Storage Tunnel (DST), Doan Valley Tunnel (DVT), Westerly Storage Tunnel (WST), Shoreline Storage Tunnel (SST), Southerly Tunnel (SOT) and Big Creek Tunnel (BCT)), as well as treatment plant improvements and expansions, collection system improvements, and green infrastructure practices. At the conclusion of Project Clean Lake, the number of CSOs will be significantly reduced to no more than five (5) events at any single CSO outfall, with many outfalls being controlled to zero (0) events.

The District continues to aggressively design and construct projects in accordance with the requirements of the Consent Decree, with many projects being completed ahead of the required schedule. Of note is that the majority of the first tunnel system (ECT) was operational two (2) years ahead of schedule. The final input to ECT, the London Road Relief Sewer, was completed in December 2020. The largest input to the second tunnel system (DST), the E. 140th Street Relief Sewer, was completed in August 2020. Now that the ECT/DST system is fully operational, overflows from impacted CSOs have been reduced to two or less in a Typical Year. Additionally, the majority of the tunnel boring work for DVT – the third tunnel system - was completed and will begin receiving flow in the summer of 2021. The access shafts for the fourth tunnel – WST - were completed in 2019 and the tunnel itself was completed in 2020. Additionally, work on the Westerly Tunnel Dewatering Pump Station began in 2020, with the pump station and the tunnel scheduled to become operational in 2023. The District also completed design of SST – the fifth tunnel - in 2020. Lastly, in 2020, the District issued a request for proposals for the design of the Southerly Storage Tunnel and Consolidation project, the sixth of seven large diameter CSO storage tunnels. More information on the status of Project Clean Lake can be found on the District's website at:

https://www.neorsd.org/community/about-the-project-clean-lake-program/.

[1] CSO 001 and CSO 002 activations and overflow volumes in 2020 were impacted by construction projects at Easterly and Westerly, respectively, that reduced treatment capacity during 2020.

Appendix 1: CSO Location and Discharge Information

CSO 001						Receiving Water:	Lake Erie
Location:	Easterly WWTP - Lat: 41N 34' 18"; Long: 81 W 35' 29"						
Treatment:	Influent Screening available						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/3/20	Wet	0.32	1.70	1.23	Monitored	Wet Weather Response	
3/18/20	Wet	0.92	4.67	16.30	Monitored	Wet Weather Response	
3/19/20	Wet	0.10	1.75	3.69	Monitored	Wet Weather Response	
3/28/20	Wet	0.98	5.83	35.86	Monitored	Wet Weather Response	
3/29/20	Wet	1.36	10.40	44.31	Monitored	Wet Weather Response	
4/8/20	Wet	0.35	3.95	1.53	Monitored	Wet Weather Response	
5/15/20	Wet	1.40	7.60	96.25	Monitored	Wet Weather Response	
5/17/20	Wet	0.40	2.38	1.26	Monitored	Wet Weather Response	
5/18/20	Wet	0.61	4.33	22.27	Monitored	Wet Weather Response	
5/22/20	Wet	0.42	2.00	2.00	Monitored	Wet Weather Response	
5/29/20	Wet	0.36	1.30	1.17	Monitored	Wet Weather Response	
6/10/20	Wet	0.82	0.47	0.30	Monitored	Wet Weather Response	
6/23/20	Wet	1.11	1.53	4.77	Monitored	Wet Weather Response	
6/27/20	Wet	0.95	3.64	8.10	Monitored	Wet Weather Response	
7/10/20	Wet	1.43	4.28	21.51	Monitored	Wet Weather Response	
7/11/20	Wet	2.43	15.65	186.12	Monitored	Wet Weather Response	
7/19/20	Wet	0.54	1.38	0.88	Monitored	Wet Weather Response	
7/27/20	Wet	0.11	2.27	7.14	Monitored	Wet Weather Response	
8/1/20	Wet	0.36	0.93	1.59	Monitored	Wet Weather Response	

CSO 001						Receiving Water:	Lake Erie
Location:	Easterly WWTP - Lat: 41N 34' 18"; Long: 81 W 35' 29"						
Treatment:	Influent Screening available						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/2/20	Wet	0.20	0.63	0.49	Monitored	Wet Weather Response	
8/3/20	Wet	0.70	4.88	18.17	Monitored	Wet Weather Response	
8/4/20	Wet	0.37	6.62	18.79	Monitored	Wet Weather Response	
8/16/20	Wet	0.57	0.58	0.17	Monitored	Wet Weather Response	
8/28/20	Wet	1.55	7.57	22.89	Monitored	Wet Weather Response	
8/29/20	Wet	0.19	2.86	19.08	Monitored	Wet Weather Response	
9/7/20	Wet	2.02	10.13	157.68	Monitored	Wet Weather Response	
9/13/20	Wet	0.21	1.65	2.75	Monitored	Wet Weather Response	
9/28/20	Wet	1.68	5.20	34.86	Monitored	Wet Weather Response	
9/29/20	Wet	0.01	3.43	9.39	Monitored	Wet Weather Response	
10/13/20	Wet	0.38	0.97	3.06	Monitored	Wet Weather Response	
10/21/20	Wet	2.50	9.72	158.22	Monitored	Wet Weather Response	
10/22/20	Wet	0.52	2.08	5.47	Monitored	Wet Weather Response	
10/30/20	Wet	0.30	2.93	6.08	Monitored	Wet Weather Response	
11/22/20	Wet	0.73	3.15	7.51	Monitored	Wet Weather Response	
11/30/20	Wet	1.10	10.85	29.30	Monitored	Wet Weather Response	
12/1/20	Wet	1.10	3.92	5.93	Monitored	Wet Weather Response	
12/30/20	Wet	0.33	2.77	3.72	Monitored	Wet Weather Response	
Totals		**29.43**	**156.00**	**959.84**			

CSO 002						Receiving Water:	Lake Erie
Location:	Westerly WWTC - Lat: 41N 29' 39"; Long: 81W 43' 32"						
Treatment:	Influent Screening and Primary Settling available						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Edgewater Park Boat Launch			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20	Wet	0.70	2.40	1.70	Monitored	Wet Weather Response	
3/18/20	Wet	1.06	4.50	17.30	Monitored	Wet Weather Response	
3/19/20	Wet	0.13	1.00	0.50	Monitored	Wet Weather Response	
3/28/20	Wet	1.27	6.20	36.50	Monitored	Wet Weather Response	
3/29/20	Wet	1.37	9.30	74.70	Monitored	Wet Weather Response	
4/8/20	Wet	0.38	3.70	23.80	Monitored	Wet Weather Response	
5/15/20	Wet	1.66	7.40	70.30	Monitored	Wet Weather Response	
5/18/20	Wet	1.14	7.40	46.10	Monitored	Wet Weather Response	
5/19/20	Wet	0.35	8.00	29.50	Monitored	Wet Weather Response	
6/23/20	Wet	0.86	1.70	11.00	Monitored	Wet Weather Response	
6/27/20	Wet	1.05	4.00	8.40	Monitored	Wet Weather Response	
7/11/20	Wet	1.34	1.30	3.70	Monitored	Wet Weather Response	
7/23/20	Wet	0.19	2.70	9.30	Monitored	Wet Weather Response	
7/27/20	Wet	0.73	4.00	23.00	Monitored	Wet Weather Response	
7/28/20	Wet	0.29	1.60	5.20	Monitored	Wet Weather Response	
8/16/20	Wet	0.82	2.50	5.30	Monitored	Wet Weather Response	
8/28/20	Wet	1.73	5.58	57.70	Monitored	Wet Weather Response	
8/29/20	Wet	0.65	1.78	6.80	Monitored	Wet Weather Response	
9/7/20	Wet	3.47	9.62	160.30	Monitored	Wet Weather Response	
9/28/20	Wet	1.52	5.38	29.50	Monitored	Wet Weather Response	

CSO 002						Receiving Water:	Lake Erie
Location:	Westerly WWTC - Lat: 41N 29' 39"; Long: 81W 43' 32"						
Treatment:	Influent Screening and Primary Settling available						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Edgewater Park Boat Launch			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/13/20	Wet	0.19	0.80	0.30	Monitored	Wet Weather Response	
10/21/20	Wet	2.71	9.17	130.00	Monitored	Wet Weather Response	
10/22/20	Wet	0.37	0.72	0.70	Monitored	Wet Weather Response	
10/23/20	Wet	0.31	1.70	3.70	Monitored	Wet Weather Response	
10/24/20	Wet	0.17	1.68	2.50	Monitored	Wet Weather Response	
10/29/20	Wet	0.52	1.10	0.10	Monitored	Wet Weather Response	
10/30/20	Wet	0.27	2.05	0.10	Monitored	Wet Weather Response	
Totals		**25.25**	**107.28**	**758.00**			

CSO 007						Receiving Water:	Mill Creek
Location:	Bancroft Ave. W of Warner Rd., behind 7414 Bancroft Ave., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:35	Wet	2.82	0.49	0.01	Modelled	Wet Weather Response	
Totals		**2.82**	**0.49**	**0.01**			

CSO 013						Receiving Water:	Mill Creek
Location:	100' W of W end of Maryland Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 014						Receiving Water:	Mill Creek
Location:	Laumar Ave., W of E 77th St., W of 7684 Laumar Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 017						Receiving Water:	Mill Creek
Location:	Down Gravel Rd. at Dorver Ave. & E 77th St., E of RR Tracks, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 1:30	Wet	2.82	2.33	2.77	Modelled	Wet Weather Response	
5/15/20 17:20	Wet	2.30	1.66	1.66	Modelled	Wet Weather Response	
8/28/20 9:35	Wet	2.76	7.83	1.03	Modelled	Wet Weather Response	
9/7/20 7:55	Wet	3.43	5.82	4.60	Modelled	Wet Weather Response	
9/28/20 18:40	Wet	1.70	0.67	0.31	Modelled	Wet Weather Response	
10/21/20 4:05	Wet	3.50	1.42	0.71	Modelled	Wet Weather Response	
Totals		**16.51**	**19.74**	**11.10**			

CSO 019						Receiving Water:	Mill Creek
Location:	Under Warner Rd., Bridge at Broadway Rd., access thru Webbs Terrace Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:15	Wet	2.82	1.75	0.87	Modelled	Wet Weather Response	
5/15/20 17:50	Wet	2.30	0.24	0.01	Modelled	Wet Weather Response	
8/28/20 9:45	Wet	2.76	0.33	0.01	Modelled	Wet Weather Response	
9/7/20 10:40	Wet	3.43	3.50	0.60	Modelled	Wet Weather Response	
Totals		**11.31**	**5.82**	**1.50**			

CSO 020						Receiving Water:	Mill Creek
Location:	Along Mill Creek, W of exit ramp from Warner Rd. to Broadway Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:35	Wet	2.82	0.67	0.34	Modelled	Wet Weather Response	
9/7/20 10:30	Wet	3.43	0.81	0.33	Modelled	Wet Weather Response	
Totals		**6.25**	**1.47**	**0.66**			

CSO 021						Receiving Water:	Mill Creek
Location:	W of E 94th St. & Broadway Ave. intersection, E side of creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:30	Wet	2.82	0.83	0.20	Modelled	Wet Weather Response	
Totals		**2.82**	**0.83**	**0.20**			

CSO 022						Receiving Water:	Mill Creek
Location:	E Blvd. Bridge, 130' N of Cranwood Pump Station, Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 1:36	Wet	2.82	1.89	0.44	Modelled	Wet Weather Response	
5/15/20 17:10	Wet	2.30	1.23	0.09	Modelled	Wet Weather Response	
6/27/20 0:29	Wet	1.26	0.67	0.02	Modelled	Wet Weather Response	
7/11/20 1:45	Wet	2.26	5.39	0.01	Modelled	Wet Weather Response	
7/27/20 16:01	Wet	1.09	1.21	0.06	Modelled	Wet Weather Response	
8/28/20 9:15	Wet	2.76	2.20	0.20	Modelled	Wet Weather Response	
9/7/20 8:05	Wet	3.43	3.56	0.67	Modelled	Wet Weather Response	
9/28/20 18:20	Wet	1.70	1.15	0.07	Modelled	Wet Weather Response	
Totals		**17.62**	**17.32**	**1.55**			

CSO 025						Receiving Water:	Mill Creek
Location:	E 131st St., S Outfall at Cranwood Park, Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:15	Wet	2.16	0.92	0.96	Monitored	Wet Weather Response	
5/15/20 17:25	Wet	1.73	0.58	0.19	Monitored	Wet Weather Response	
8/3/20 15:00	Wet	1.19	0.25	0.02	Monitored	Wet Weather Response	
9/7/20 10:25	Wet	4.02	0.25	0.18	Monitored	Wet Weather Response	
Totals		**9.10**	**2.00**	**1.35**			

CSO 027						Receiving Water:	Mill Creek
Location:	S side of Johnston Rd., near the Fitness Trail, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Arthur Johnston Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 028						Receiving Water:	Mill Creek
Location:	Located between ends of Kollin Ave. & E 173rd St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 030						Receiving Water:	Mill Creek
Location:	E 88th St. & S Highland Ave. behind 5138 E 88th St., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 031						Receiving Water:	Mill Creek
Location:	W of E 81st St. & Vista Ave., S of Dirt Rd., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 1:20	Wet	2.82	2.25	1.42	Modelled	Wet Weather Response	
5/15/20 17:05	Wet	2.30	1.73	0.77	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	8.00	0.26	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	5.89	1.46	Modelled	Wet Weather Response	
9/28/20 18:15	Wet	1.70	0.83	0.03	Modelled	Wet Weather Response	
Totals		**13.01**	**18.71**	**3.94**			

CSO 032						Receiving Water:	Mill Creek
Location:	Garfield Park Reservation, along Wolf Creek, across from Nature Center, Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:25	Wet	2.82	0.74	0.02	Modelled	Wet Weather Response	
Totals		**2.82**	**0.74**	**0.02**			

CSO 033						Receiving Water:	Cuyahoga River
Location:	Intersection of Harvard Ave. & Denison Ave., S of Alcoa Gate #5, Cuyahoga Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:00	Wet	2.82	1.32	0.12	Modelled	Wet Weather Response	
3/29/20 2:00	Wet	2.82	1.42	0.93	Modelled	Wet Weather Response	
4/7/20 23:00	Wet	1.27	2.31	0.38	Modelled	Wet Weather Response	
5/15/20 16:15	Wet	2.30	2.33	1.14	Modelled	Wet Weather Response	
6/10/20 19:37	Wet	0.58	1.61	0.07	Modelled	Wet Weather Response	
6/23/20 12:10	Wet	1.07	0.99	0.06	Modelled	Wet Weather Response	
7/19/20 17:15	Wet	0.41	1.00	0.16	Modelled	Wet Weather Response	
7/23/20 11:15	Wet	0.67	1.00	0.20	Modelled	Wet Weather Response	
7/27/20 16:00	Wet	1.09	11.07	0.14	Modelled	Wet Weather Response	
8/4/20 7:25	Wet	1.81	0.74	0.02	Modelled	Wet Weather Response	
8/16/20 12:20	Wet	0.56	0.91	0.08	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	8.17	2.05	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	6.25	5.99	Modelled	Wet Weather Response	
9/28/20 17:15	Wet	1.70	2.82	1.03	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	4.10	1.46	Modelled	Wet Weather Response	
Totals		**26.79**	**46.05**	**13.81**			

CSO 035						Receiving Water:	Cuyahoga River
Location:	Burke Brook at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 21:20	Wet	1.10	1.00	0.06	Monitored	Wet Weather Response	
3/28/20 5:30	Wet	1.47	1.83	0.33	Monitored	Wet Weather Response	
3/29/20 1:05	Wet	1.80	3.33	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
4/7/20 23:20	Wet	1.21	0.67	0.34	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.45	1.75	0.24	Monitored	Wet Weather Response	
5/14/20 12:30	Wet	0.63	1.00	0.05	Monitored	Wet Weather Response	
5/15/20 16:50	Wet	1.95	2.42	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
5/17/20 18:20	Wet	0.58	0.92	0.17	Monitored	Wet Weather Response	
5/18/20 18:05	Wet	1.02	2.08	0.24	Monitored	Wet Weather Response	
5/19/20 1:25	Wet	0.32	0.33	0.02	Monitored	Wet Weather Response	
5/29/20 15:40	Wet	0.53	0.58	0.03	Monitored	Wet Weather Response	
6/10/20 20:05	Wet	0.85	1.00	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
6/23/20 12:20	Wet	0.63	0.58	0.11	Monitored	Wet Weather Response	
6/27/20 0:15	Wet	0.78	1.67	0.39	Monitored	Wet Weather Response	
7/11/20 1:25	Wet	1.15	1.25	0.24	Monitored	Wet Weather Response	
7/19/20 17:35	Wet	0.72	0.58	0.11	Monitored	Wet Weather Response	
7/23/20 12:05	Wet	1.08	0.50	0.08	Monitored	Wet Weather Response	
7/27/20 15:20	Wet	0.97	0.92	0.26	Monitored	Wet Weather Response	

CSO 035						Receiving Water:	Cuyahoga River
Location:	Burke Brook at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/28/20 2:15	Wet	0.45	0.67	0.03	Monitored	Wet Weather Response	
8/1/20 21:05	Wet	0.66	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0001 MG
8/4/20 7:30	Wet	0.47	0.67	0.33	Monitored	Wet Weather Response	
8/16/20 12:45	Wet	0.74	0.42	0.06	Monitored	Wet Weather Response	
8/28/20 9:25	Wet	3.18	3.33	1.08	Monitored	Wet Weather Response	
9/2/20 10:55	Wet	0.61	0.25	0.01	Monitored	Wet Weather Response	
9/7/20 7:30	Wet	4.55	6.83	3.24	Monitored	Wet Weather Response	
9/13/20 9:10	Wet	0.33	0.25	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0036 MG
9/28/20 18:30	Wet	1.93	1.42	0.32	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.33	0.42	0.03	Monitored	Wet Weather Response	
10/21/20 3:25	Wet	2.30	3.42	0.91	Monitored	Wet Weather Response	
10/23/20 19:55	Wet	0.34	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0045 MG
12/12/20 16:05	Wet	0.35	0.25	0.02	Monitored	Wet Weather Response	
Totals		**33.48**	**40.59**	**8.68**			

CSO 036						Receiving Water:	Cuyahoga River
Location:	Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 20:30	Wet	1.09	1.73	0.18	Modelled	Wet Weather Response	
1/18/20 8:15	Wet	0.73	3.25	3.17	Modelled	Wet Weather Response	
2/5/20 22:25	Wet	0.56	1.16	0.17	Modelled	Wet Weather Response	
3/3/20 13:15	Wet	0.45	1.50	0.89	Modelled	Wet Weather Response	
3/13/20 1:35	Wet	0.29	1.58	0.21	Modelled	Wet Weather Response	
3/18/20 17:25	Wet	1.43	6.50	14.54	Modelled	Wet Weather Response	
3/20/20 7:20	Wet	1.43	1.08	0.07	Modelled	Wet Weather Response	
3/28/20 0:50	Wet	2.82	7.83	12.81	Modelled	Wet Weather Response	
3/29/20 0:25	Wet	2.82	12.33	35.64	Modelled	Wet Weather Response	
4/7/20 23:10	Wet	1.27	3.75	14.74	Modelled	Wet Weather Response	
4/26/20 3:40	Wet	0.55	104.70	1.69	Modelled	Wet Weather Response	
5/10/20 18:45	Wet	0.68	13.49	0.66	Modelled	Wet Weather Response	
5/14/20 12:45	Wet	2.30	31.91	29.02	Modelled	Wet Weather Response	
5/14/20 18:30	Wet	2.30	1.50	2.93	Modelled	Wet Weather Response	
5/17/20 18:05	Wet	1.51	2.74	5.31	Modelled	Wet Weather Response	
5/18/20 15:55	Wet	1.51	10.66	10.09	Modelled	Wet Weather Response	
5/22/20 12:20	Wet	0.46	2.33	2.50	Modelled	Wet Weather Response	
5/29/20 15:25	Wet	0.46	3.08	3.11	Modelled	Wet Weather Response	
6/10/20 19:40	Wet	0.58	2.58	8.24	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	1.83	5.84	Modelled	Wet Weather Response	

CSO 036						Receiving Water:	Cuyahoga River
Location:	Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
6/26/20 23:40	Wet	1.26	7.33	12.65	Modelled	Wet Weather Response	
7/11/20 1:10	Wet	2.26	9.66	34.66	Modelled	Wet Weather Response	
7/19/20 17:25	Wet	0.41	1.66	3.72	Modelled	Wet Weather Response	
7/23/20 11:15	Wet	0.67	3.25	4.90	Modelled	Wet Weather Response	
7/27/20 15:25	Wet	1.09	12.64	16.44	Modelled	Wet Weather Response	
8/1/20 20:35	Wet	1.81	2.50	3.90	Modelled	Wet Weather Response	
8/3/20 14:30	Wet	1.81	2.82	4.17	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	5.00	3.22	Modelled	Wet Weather Response	
8/16/20 12:20	Wet	0.56	3.00	5.35	Modelled	Wet Weather Response	
8/26/20 10:50	Wet	0.32	2.08	0.56	Modelled	Wet Weather Response	
8/28/20 9:15	Wet	2.76	22.25	41.02	Modelled	Wet Weather Response	
9/2/20 10:15	Wet	0.45	1.67	2.37	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	8.91	111.50	Modelled	Wet Weather Response	
9/13/20 8:25	Wet	0.39	2.16	3.33	Modelled	Wet Weather Response	
9/28/20 17:15	Wet	1.70	7.16	28.82	Modelled	Wet Weather Response	
10/1/20 16:15	Wet	0.59	11.98	0.12	Modelled	Wet Weather Response	
10/4/20 18:55	Wet	0.25	0.75	0.18	Modelled	Wet Weather Response	
10/12/20 23:30	Wet	0.69	3.42	7.36	Modelled	Wet Weather Response	
10/19/20 8:35	Wet	3.50	1.57	0.11	Modelled	Wet Weather Response	
10/20/20 3:20	Wet	3.50	1.33	0.40	Modelled	Wet Weather Response	

CSO 036						Receiving Water:	Cuyahoga River
Location:	Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/21/20 2:15	Wet	3.50	28.00	45.85	Modelled	Wet Weather Response	
10/23/20 19:35	Wet	0.59	5.66	0.94	Modelled	Wet Weather Response	
10/29/20 9:35	Wet	1.60	3.08	1.11	Modelled	Wet Weather Response	
11/22/20 12:40	Wet	0.74	4.83	4.11	Modelled	Wet Weather Response	
11/25/20 15:00	Wet	0.65	9.25	0.21	Modelled	Wet Weather Response	
11/30/20 9:30	Wet	2.59	294.83	17.42	Modelled	Wet Weather Response	
12/24/20 23:50	Wet	0.72	1.48	0.08	Modelled	Wet Weather Response	
Totals		**63.96**	**673.82**	**506.30**			

CSO 037						Receiving Water:	Cuyahoga River
Location:	1,500' N of Morgana Run at Cuyahoga River (Southernmost Pipe), Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:25	Wet	3.43	3.56	2.19	Modelled	Wet Weather Response	
Totals		**3.43**	**3.56**	**2.19**			

CSO 038						Receiving Water:	Cuyahoga River
Location:	600' SW of E 26th St. & Independence Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Monitored		
Totals		**0.00**	**0.00**	**0.00**			

CSO 039						Receiving Water:	Cuyahoga River
Location:	At Cuyahoga River turning basin 400' W of Independence Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20 8:10	Wet	0.73	2.11	0.07	Modelled	Wet Weather Response	
3/3/20 13:15	Wet	0.45	0.91	0.03	Modelled	Wet Weather Response	
3/13/20 1:30	Wet	0.29	0.72	0.02	Modelled	Wet Weather Response	
3/18/20 17:20	Wet	1.43	5.80	0.26	Modelled	Wet Weather Response	
3/20/20 7:10	Wet	1.43	1.11	0.07	Modelled	Wet Weather Response	
3/28/20 0:55	Wet	2.82	6.49	0.50	Modelled	Wet Weather Response	
3/29/20 0:15	Wet	2.82	12.06	0.71	Modelled	Wet Weather Response	
4/7/20 23:10	Wet	1.27	3.04	0.56	Modelled	Wet Weather Response	
4/26/20 3:45	Wet	0.55	1.40	0.03	Modelled	Wet Weather Response	
5/14/20 12:55	Wet	2.30	30.32	1.23	Modelled	Wet Weather Response	
5/17/20 17:50	Wet	1.51	1.74	0.11	Modelled	Wet Weather Response	
5/18/20 15:47	Wet	1.51	10.52	0.49	Modelled	Wet Weather Response	
5/22/20 12:15	Wet	0.46	1.89	0.05	Modelled	Wet Weather Response	
5/29/20 15:20	Wet	0.46	1.29	0.10	Modelled	Wet Weather Response	
6/10/20 19:30	Wet	0.58	1.86	0.43	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.29	0.38	Modelled	Wet Weather Response	
6/26/20 23:30	Wet	1.26	6.79	0.59	Modelled	Wet Weather Response	
7/11/20 1:05	Wet	2.26	5.58	1.43	Modelled	Wet Weather Response	
7/19/20 17:15	Wet	0.41	1.08	0.17	Modelled	Wet Weather Response	
7/23/20 11:10	Wet	0.67	1.23	0.35	Modelled	Wet Weather Response	

CSO 039						Receiving Water:	Cuyahoga River
Location:	At Cuyahoga River turning basin 400' W of Independence Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/27/20 15:15	Wet	1.09	12.06	0.62	Modelled	Wet Weather Response	
8/1/20 20:25	Wet	1.81	1.90	0.19	Modelled	Wet Weather Response	
8/4/20 7:10	Wet	1.81	5.12	0.36	Modelled	Wet Weather Response	
8/16/20 12:10	Wet	0.56	2.05	0.33	Modelled	Wet Weather Response	
8/26/20 10:40	Wet	0.32	0.57	0.01	Modelled	Wet Weather Response	
8/28/20 9:05	Wet	2.76	21.24	1.37	Modelled	Wet Weather Response	
9/2/20 10:10	Wet	0.45	1.15	0.15	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.13	5.94	Modelled	Wet Weather Response	
9/13/20 8:15	Wet	0.39	1.07	0.15	Modelled	Wet Weather Response	
9/28/20 17:10	Wet	1.70	6.06	1.22	Modelled	Wet Weather Response	
10/1/20 19:20	Wet	0.59	8.74	0.03	Modelled	Wet Weather Response	
10/12/20 23:20	Wet	0.69	2.90	0.23	Modelled	Wet Weather Response	
10/21/20 2:10	Wet	3.50	5.33	3.18	Modelled	Wet Weather Response	
10/22/20 5:15	Wet	3.50	0.99	0.05	Modelled	Wet Weather Response	
10/23/20 19:25	Wet	0.59	5.74	0.02	Modelled	Wet Weather Response	
11/22/20 12:30	Wet	0.74	3.66	0.03	Modelled	Wet Weather Response	
11/30/20 9:25	Wet	2.59	17.87	0.10	Modelled	Wet Weather Response	
12/12/20 15:25	Wet	0.29	0.75	0.02	Modelled	Wet Weather Response	
Totals		**51.09**	**201.53**	**21.57**			

CSO 040						Receiving Water:	Cuyahoga River
Location:	Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 20:10	Wet	0.81	1.92	0.31	Monitored	Wet Weather Response	
1/18/20 17:10	Wet	0.70	1.08	0.01	Monitored	Wet Weather Response	
1/24/20 12:45	Wet	0.41	4.25	0.75	Monitored	Wet Weather Response	
2/6/20 12:00	Wet	0.35	1.33	0.68	Monitored	Wet Weather Response	
3/3/20 13:05	Wet	0.33	1.92	0.84	Monitored	Wet Weather Response	
3/10/20 11:15	Wet	0.28	0.50	0.11	Monitored	Wet Weather Response	
3/13/20 2:10	Wet	0.27	0.92	0.40	Monitored	Wet Weather Response	
3/18/20 17:50	Wet	1.18	6.17	5.22	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.12	0.75	0.12	Monitored	Wet Weather Response	
3/20/20 7:30	Wet	0.16	0.58	0.08	Monitored	Wet Weather Response	
3/28/20 1:00	Wet	1.34	5.58	5.77	Monitored	Wet Weather Response	
3/29/20 1:10	Wet	2.16	7.00	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
4/7/20 23:30	Wet	0.74	0.50	1.03	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.41	3.33	3.52	Monitored	Wet Weather Response	
4/9/20 9:35	Wet	0.38	0.33	0.02	Monitored	Wet Weather Response	
4/13/20 9:20	Wet	0.47	1.00	0.30	Monitored	Wet Weather Response	
4/26/20 4:30	Wet	0.59	1.25	0.14	Monitored	Wet Weather Response	
4/30/20 13:15	Wet	0.18	0.33	0.02	Monitored	Wet Weather Response	
5/10/20 19:40	Wet	0.28	0.50	0.11	Monitored	Wet Weather Response	
5/11/20 7:00	Wet	0.39	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0014 MG

CSO 040						Receiving Water:	Cuyahoga River
Location:	Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/14/20 12:55	Wet	0.64	2.00	1.77	Monitored	Wet Weather Response	
5/15/20 14:20	Wet	1.73	7.33	20.48	Monitored	Wet Weather Response	
5/17/20 18:35	Wet	0.54	2.00	2.34	Monitored	Wet Weather Response	
5/18/20 18:45	Wet	0.60	3.00	1.73	Monitored	Wet Weather Response	
5/22/20 12:25	Wet	0.49	2.00	1.30	Monitored	Wet Weather Response	
5/25/20 17:30	Wet	0.08	0.25	0.11	Monitored	Wet Weather Response	
5/29/20 15:50	Wet	0.45	1.75	1.24	Monitored	Wet Weather Response	
6/10/20 20:30	Wet	0.61	1.08	1.00	Monitored	Wet Weather Response	
6/22/20 13:30	Wet	0.33	1.00	0.58	Monitored	Wet Weather Response	
6/23/20 12:30	Wet	0.52	1.17	1.12	Monitored	Wet Weather Response	
6/27/20 0:20	Wet	0.94	2.50	2.57	Monitored	Wet Weather Response	
7/11/20 1:30	Wet	2.88	7.67	7.22	Monitored	Wet Weather Response	
7/19/20 17:40	Wet	0.55	1.17	1.22	Monitored	Wet Weather Response	
7/22/20 5:50	Wet	0.28	0.33	0.07	Monitored	Wet Weather Response	
7/23/20 12:10	Wet	0.20	0.67	0.12	Monitored	Wet Weather Response	
7/27/20 15:25	Wet	0.98	2.50	2.11	Monitored	Wet Weather Response	
7/28/20 2:25	Wet	0.30	1.08	1.07	Monitored	Wet Weather Response	
8/1/20 21:45	Wet	0.45	1.08	1.07	Monitored	Wet Weather Response	
8/3/20 14:35	Wet	1.19	3.17	3.78	Monitored	Wet Weather Response	
8/4/20 7:40	Wet	0.31	1.33	1.32	Monitored	Wet Weather Response	

CSO 040						Receiving Water:	Cuyahoga River
Location:	Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/13/20 9:25	Dry	0.00	0.36	0.05	Monitored	Sludge force main leak due to construction accident	
8/16/20 12:55	Wet	0.41	1.33	0.89	Monitored	Wet Weather Response	
8/26/20 11:10	Wet	0.51	1.08	0.79	Monitored	Wet Weather Response	
8/27/20 22:15	Wet	0.14	0.42	0.17	Monitored	Wet Weather Response	
8/28/20 9:30	Wet	2.16	7.33	9.12	Monitored	Wet Weather Response	
8/29/20 5:10	Wet	0.73	2.58	2.50	Monitored	Wet Weather Response	
9/2/20 10:40	Wet	0.57	1.42	1.22	Monitored	Wet Weather Response	
9/7/20 7:30	Wet	4.02	9.25	90.67	Monitored	Wet Weather Response	
9/13/20 9:00	Wet	0.49	1.17	0.95	Monitored	Wet Weather Response	
9/13/20 21:20	Dry	0.00	11.25	0.03	Monitored	Gravel	
9/28/20 18:35	Wet	1.79	5.42	5.77	Monitored	Wet Weather Response	
9/29/20 0:00	Wet	0.03	0.33	0.05	Monitored	Wet Weather Response	
10/1/20 14:40	Wet	0.56	1.58	0.78	Monitored	Wet Weather Response	
10/4/20 18:50	Wet	0.32	0.67	0.16	Monitored	Wet Weather Response	
10/13/20 0:10	Wet	0.57	2.25	2.12	Monitored	Wet Weather Response	
10/20/20 4:00	Wet	0.31	0.67	0.11	Monitored	Wet Weather Response	
10/21/20 1:30	Wet	2.01	8.75	18.82	Monitored	Wet Weather Response	
10/23/20 20:10	Wet	0.40	1.58	1.14	Monitored	Wet Weather Response	
10/24/20 1:20	Wet	0.16	0.33	0.02	Monitored	Wet Weather Response	

CSO 040						Receiving Water:	Cuyahoga River
Location:	Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/29/20 10:40	Wet	0.56	2.50	0.37	Monitored	Wet Weather Response	
10/30/20 6:10	Wet	0.41	2.17	0.66	Monitored	Wet Weather Response	
11/4/20 12:00	Dry	0.00	2.08	0.01	Monitored	WPC contractor bypass pumping equipment failure	
11/12/20 14:40	Dry	0.00	9.00	0.01	Monitored	WPC contractor bypass pumping equipment failure	
11/20/20 12:00	Dry	0.00	5.00	0.01	Monitored	WPC contractor bypass pumping equipment failure	
11/22/20 14:45	Wet	0.72	1.67	0.47	Monitored	Wet Weather Response	
11/25/20 15:00	Wet	0.54	0.92	0.30	Monitored	Wet Weather Response	
11/26/20 0:35	Wet	0.14	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0002 MG
11/30/20 10:05	Wet	1.71	12.00	7.89	Monitored	Wet Weather Response	
12/1/20 0:00	Wet	1.65	0.75	0.17	Monitored	Wet Weather Response	
12/12/20 16:10	Wet	0.23	1.08	0.20	Monitored	Wet Weather Response	
12/28/20 3:00	Wet	0.07	0.50	0.01	Monitored	Wet Weather Response	
12/30/20 19:35	Wet	0.32	2.83	1.19	Monitored	Wet Weather Response	
Totals		**47.15**	**180.84**	**218.27**			

CSO 043						Receiving Water:	Treadway Creek
Location:	E of intersection of Tarlton Ave. & W 15th St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Treadway Creek Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:15	Wet	3.43	1.00	0.54	Modelled	Wet Weather Response	
Totals		**3.43**	**1.00**	**0.54**			

CSO 044						Receiving Water:	Treadway Creek
Location:	N of intersection of Irving Ave. & South Hills Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Harmody Park and Treadway Creek Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 21:35	Wet	1.10	0.50	0.01	Monitored	Wet Weather Response	
3/28/20 5:50	Wet	1.47	1.00	0.09	Monitored	Wet Weather Response	
3/29/20 1:10	Wet	1.80	2.08	0.27	Monitored	Wet Weather Response	
4/7/20 23:45	Wet	1.21	0.25	0.03	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.45	1.33	0.08	Monitored	Wet Weather Response	
5/15/20 17:00	Wet	1.95	1.92	0.27	Monitored	Wet Weather Response	
5/17/20 18:25	Wet	0.58	0.33	0.02	Monitored	Wet Weather Response	

CSO 044						Receiving Water:	Treadway Creek
Location:	N of intersection of Irving Ave. & South Hills Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Harmody Park and Treadway Creek Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/18/20 18:20	Wet	1.02	1.50	0.05	Monitored	Wet Weather Response	
5/19/20 1:30	Wet	0.32	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0043 MG
6/23/20 12:40	Wet	0.63	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.001 MG
7/23/20 12:05	Wet	1.08	0.50	0.03	Monitored	Wet Weather Response	
7/27/20 16:30	Wet	0.97	0.33	0.04	Monitored	Wet Weather Response	
8/28/20 9:25	Wet	3.18	2.42	0.15	Monitored	Wet Weather Response	
9/7/20 8:00	Wet	4.55	5.58	0.62	Monitored	Wet Weather Response	
9/28/20 18:20	Wet	1.93	1.42	0.10	Monitored	Wet Weather Response	
10/12/20 23:50	Wet	0.34	0.17	0.05	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.33	0.08	0.01	Monitored	Wet Weather Response	
Totals		**22.91**	**19.57**	**1.82**			

CSO 045						Receiving Water:	Big Creek
Location:	NE of intersection of Jennings Ave. & Valley Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 23:40	Wet	1.10	0.33	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
3/19/20 0:00	Wet	0.11	0.25	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
3/28/20 5:45	Wet	1.47	10.50	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
3/29/20 1:10	Wet	1.80	22.83	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
3/30/20 0:00	Wet	0.04	0.33	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
4/7/20 23:10	Wet	1.21	0.83	0.30	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.45	2.33	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
5/15/20 16:55	Wet	1.95	7.08	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
5/16/20	Wet	0.01	See Comment	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.

CSO 045						Receiving Water:	Big Creek
Location:	NE of intersection of Jennings Ave. & Valley Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/17/20	Wet	0.58	See Comment	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow duration and volume cannot be calculated.
5/18/20	Wet	1.02	See Comment	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
5/19/20 0:00	Wet	0.32	10.17	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
6/10/20 20:10	Wet	0.85	0.58	0.22	Monitored	Wet Weather Response	
6/23/20 12:20	Wet	0.63	0.42	0.11	Monitored	Wet Weather Response	
7/11/20 3:05	Wet	1.15	0.25	0.01	Monitored	Wet Weather Response	
7/19/20 17:30	Wet	0.72	0.50	0.32	Monitored	Wet Weather Response	
7/23/20 12:00	Wet	1.08	0.58	0.22	Monitored	Wet Weather Response	
7/27/20 16:25	Wet	0.97	0.58	0.27	Monitored	Wet Weather Response	
8/1/20 21:20	Wet	0.66	0.25	0.03	Monitored	Wet Weather Response	
8/16/20 12:40	Wet	0.74	0.42	0.19	Monitored	Wet Weather Response	
8/28/20 9:20	Wet	3.18	12.25	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.

CSO 045						Receiving Water:	Big Creek
Location:	NE of intersection of Jennings Ave. & Valley Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 7:30	Wet	4.55	16.33	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
9/8/20 0:00	Wet	0.00	5.33	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
9/28/20 18:20	Wet	1.93	1.17	0.39	Monitored	Wet Weather Response	
10/1/20 15:25	Wet	0.74	0.25	0.01	Monitored	Wet Weather Response	
10/13/20 0:10	Wet	0.33	0.25	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0031 MG
10/21/20 3:25	Wet	2.30	6.83	See Comment	Monitored	Wet Weather Response	Site inundated by backflow from Big Creek. Overflow volume cannot be calculated.
Totals		**29.89**	**100.64**	**2.07**			

CSO 050						Receiving Water:	Big Creek
Location:	E side of old bridge, under W 25th St. bridge, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Zoo			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:15	Wet	2.82	1.96	0.07	Modelled	Wet Weather Response	
3/29/20 0:20	Wet	2.82	2.96	0.36	Modelled	Wet Weather Response	
4/7/20 23:05	Wet	1.27	2.15	0.11	Modelled	Wet Weather Response	
5/15/20 16:05	Wet	2.30	2.99	0.58	Modelled	Wet Weather Response	
5/18/20 18:07	Wet	1.51	1.02	0.01	Modelled	Wet Weather Response	
6/10/20 19:25	Wet	0.58	1.66	0.03	Modelled	Wet Weather Response	
6/23/20 12:01	Wet	1.07	1.07	0.04	Modelled	Wet Weather Response	
7/19/20 17:10	Wet	0.41	90.92	0.14	Modelled	Wet Weather Response	
7/27/20 15:26	Wet	1.09	11.64	0.12	Modelled	Wet Weather Response	
8/16/20 12:10	Wet	0.56	0.99	0.06	Modelled	Wet Weather Response	
8/28/20 9:05	Wet	2.76	8.08	0.84	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.06	2.46	Modelled	Wet Weather Response	
9/28/20 17:05	Wet	1.70	3.12	0.42	Modelled	Wet Weather Response	
10/21/20 3:00	Wet	3.50	4.16	0.54	Modelled	Wet Weather Response	
Totals		**25.82**	**139.77**	**5.78**			

CSO 051						Receiving Water:	Big Creek
Location:	Main entrance of Zoo at Brookside Dr. at mouth of triple culvert, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:20	Wet	1.43	5.00	1.62	Modelled	Wet Weather Response	
3/28/20 5:15	Wet	2.82	3.07	2.95	Modelled	Wet Weather Response	
3/29/20 0:15	Wet	2.82	12.08	5.35	Modelled	Wet Weather Response	
4/7/20 23:15	Wet	1.27	3.14	1.42	Modelled	Wet Weather Response	
5/14/20 13:00	Wet	2.30	6.49	0.36	Modelled	Wet Weather Response	
5/15/20 14:30	Wet	2.30	6.68	8.69	Modelled	Wet Weather Response	
5/17/20 17:55	Wet	1.51	1.74	0.71	Modelled	Wet Weather Response	
5/18/20 18:05	Wet	1.51	8.33	1.56	Modelled	Wet Weather Response	
5/22/20 12:55	Wet	0.46	0.17	0.07	Modelled	Wet Weather Response	
6/10/20 19:30	Wet	0.58	1.92	0.90	Modelled	Wet Weather Response	
6/18/20 20:50	Wet	0.15	0.17	0.07	Modelled	Wet Weather Response	
6/22/20 12:45	Wet	1.07	0.58	0.13	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	1.25	1.25	Modelled	Wet Weather Response	
6/27/20 5:15	Wet	1.26	1.16	0.48	Modelled	Wet Weather Response	
7/11/20 2:00	Wet	2.26	1.63	0.71	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	1.00	0.91	Modelled	Wet Weather Response	
7/23/20 12:10	Wet	0.67	3.08	1.00	Modelled	Wet Weather Response	
7/27/20 15:35	Wet	1.09	11.83	3.07	Modelled	Wet Weather Response	
8/1/20 20:25	Wet	1.81	1.99	0.67	Modelled	Wet Weather Response	
8/16/20 12:15	Wet	0.56	3.07	1.55	Modelled	Wet Weather Response	

CSO 051						Receiving Water:	Big Creek
Location:	Main entrance of Zoo at Brookside Dr. at mouth of triple culvert, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/28/20 9:10	Wet	2.76	21.25	10.06	Modelled	Wet Weather Response	
9/2/20 10:15	Wet	0.45	1.07	0.22	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	10.07	23.47	Modelled	Wet Weather Response	
9/13/20 8:40	Wet	0.39	0.17	0.09	Modelled	Wet Weather Response	
9/28/20 17:25	Wet	1.70	5.91	6.36	Modelled	Wet Weather Response	
10/1/20 15:50	Wet	0.59	0.17	0.01	Modelled	Wet Weather Response	
10/12/20 23:35	Wet	0.69	1.50	0.77	Modelled	Wet Weather Response	
10/13/20 0:10	Wet	0.59	259.75	0.29	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	6.49	8.74	Modelled	Wet Weather Response	
Totals		**41.45**	**380.75**	**83.45**			

CSO 052						Receiving Water:	Big Creek
Location:	Big Creek culvert beneath main entrance parking lot @ Zoo, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/15/20 17:05	Wet	2.76	0.99	0.06	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	3.91	0.06	Modelled	Wet Weather Response	
Totals		**6.19**	**4.91**	**0.12**			

CSO 053						Receiving Water:	Big Creek
Location:	Intersection of John Nagy Blvd. & W 57th St., S side of creek, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Brookside Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/3/20 13:15	Wet	0.45	0.91	0.02	Modelled	Wet Weather Response	
3/13/20 1:20	Wet	0.29	0.91	0.14	Modelled	Wet Weather Response	
3/18/20 17:10	Wet	1.43	6.16	1.21	Modelled	Wet Weather Response	
3/28/20 0:20	Wet	2.82	36.00	7.31	Modelled	Wet Weather Response	
4/7/20 23:09	Wet	1.27	3.18	1.69	Modelled	Wet Weather Response	
4/26/20 4:05	Wet	0.55	1.08	0.03	Modelled	Wet Weather Response	
5/10/20 18:20	Wet	0.68	0.92	0.16	Modelled	Wet Weather Response	

CSO 053						Receiving Water:	Big Creek
Location:	Intersection of John Nagy Blvd. & W 57th St., S side of creek, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Brookside Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/14/20 12:10	Wet	2.30	7.16	1.10	Modelled	Wet Weather Response	
5/15/20 14:00	Wet	2.30	7.82	8.44	Modelled	Wet Weather Response	
5/17/20 17:20	Wet	1.51	2.08	1.06	Modelled	Wet Weather Response	
5/18/20 17:10	Wet	1.51	9.16	1.62	Modelled	Wet Weather Response	
5/22/20 12:10	Wet	0.46	1.16	0.22	Modelled	Wet Weather Response	
5/29/20 15:25	Wet	0.46	1.79	0.10	Modelled	Wet Weather Response	
6/10/20 19:15	Wet	0.58	2.07	1.09	Modelled	Wet Weather Response	
6/18/20 20:25	Wet	0.15	0.83	0.24	Modelled	Wet Weather Response	
6/22/20 10:30	Wet	1.07	2.75	0.20	Modelled	Wet Weather Response	
6/23/20 11:35	Wet	1.07	1.82	1.09	Modelled	Wet Weather Response	
6/26/20 23:46	Wet	1.26	6.48	0.48	Modelled	Wet Weather Response	
7/11/20 0:25	Wet	2.26	4.74	0.65	Modelled	Wet Weather Response	
7/19/20 17:05	Wet	0.41	1.33	1.43	Modelled	Wet Weather Response	
7/23/20 11:30	Wet	0.67	3.75	1.04	Modelled	Wet Weather Response	
7/27/20 12:30	Dry	0.00	1.25	0.01	Modelled	Downstream Blockage	
7/27/20 15:15	Wet	1.09	12.07	3.34	Modelled	Wet Weather Response	
8/1/20 20:15	Wet	1.81	2.00	0.70	Modelled	Wet Weather Response	
8/3/20 15:15	Wet	1.81	0.91	0.02	Modelled	Wet Weather Response	
8/16/20 12:05	Wet	0.56	3.16	1.77	Modelled	Wet Weather Response	
8/28/20 9:00	Wet	2.76	21.33	9.36	Modelled	Wet Weather Response	

CSO 053						Receiving Water:	Big Creek
Location:	Intersection of John Nagy Blvd. & W 57th St., S side of creek, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Brookside Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/2/20 10:05	Wet	0.45	1.17	0.45	Modelled	Wet Weather Response	
9/7/20 7:03	Wet	3.43	12.18	22.89	Modelled	Wet Weather Response	
9/13/20 8:20	Wet	0.39	0.92	0.34	Modelled	Wet Weather Response	
9/28/20 17:00	Wet	1.70	6.57	5.64	Modelled	Wet Weather Response	
10/1/20 15:10	Wet	0.59	11.99	0.30	Modelled	Wet Weather Response	
10/12/20 23:15	Wet	0.69	3.00	0.96	Modelled	Wet Weather Response	
10/20/20 3:10	Wet	3.50	0.99	0.03	Modelled	Wet Weather Response	
10/21/20 2:10	Wet	3.50	7.96	7.72	Modelled	Wet Weather Response	
10/23/20 19:20	Wet	0.59	5.89	0.29	Modelled	Wet Weather Response	
10/30/20 2:15	Wet	1.60	3.99	0.09	Modelled	Wet Weather Response	
11/22/20 12:31	Wet	0.74	3.72	0.11	Modelled	Wet Weather Response	
11/30/20 9:25	Wet	2.59	22.91	0.29	Modelled	Wet Weather Response	
12/12/20 15:20	Wet	0.29	0.91	0.11	Modelled	Wet Weather Response	
Totals		**51.59**	**225.03**	**83.78**			

CSO 054						Receiving Water:	Big Creek
Location:	N of John Nagy Blvd. just W of Ridge Rd. bridge, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Brookside Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 17:53	Wet	1.43	6.11	1.97	Modelled	Wet Weather Response	
3/28/20 0:52	Wet	2.82	36.29	9.20	Modelled	Wet Weather Response	
4/7/20 23:26	Wet	1.27	3.81	2.51	Modelled	Wet Weather Response	
5/14/20 12:47	Wet	2.30	7.64	1.24	Modelled	Wet Weather Response	
5/15/20 14:05	Wet	2.30	9.98	9.71	Modelled	Wet Weather Response	
5/17/20 17:46	Wet	1.51	2.81	1.36	Modelled	Wet Weather Response	
5/18/20 17:35	Wet	1.51	9.65	2.33	Modelled	Wet Weather Response	
5/22/20 12:42	Wet	0.46	1.70	0.17	Modelled	Wet Weather Response	
5/29/20 16:33	Wet	0.46	1.51	0.07	Modelled	Wet Weather Response	
6/10/20 19:46	Wet	0.58	2.56	1.34	Modelled	Wet Weather Response	
6/22/20 12:26	Wet	1.07	1.56	0.20	Modelled	Wet Weather Response	
6/23/20 12:06	Wet	1.07	2.44	1.44	Modelled	Wet Weather Response	
6/27/20 5:08	Wet	1.26	2.02	0.56	Modelled	Wet Weather Response	
7/11/20 1:18	Wet	2.26	4.09	1.08	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	2.15	1.59	Modelled	Wet Weather Response	
7/23/20 12:07	Wet	0.67	3.70	1.61	Modelled	Wet Weather Response	
7/27/20 15:51	Wet	1.09	12.46	4.32	Modelled	Wet Weather Response	
8/1/20 20:46	Wet	1.81	2.38	0.76	Modelled	Wet Weather Response	
8/16/20 12:30	Wet	0.56	3.48	2.48	Modelled	Wet Weather Response	
8/28/20 9:20	Wet	2.76	22.13	13.19	Modelled	Wet Weather Response	

CSO 054						Receiving Water:	Big Creek
Location:	N of John Nagy Blvd. just W of Ridge Rd. bridge, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Brookside Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/2/20 10:36	Wet	0.45	1.38	0.27	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	15.81	26.93	Modelled	Wet Weather Response	
9/13/20 8:51	Wet	0.39	0.97	0.07	Modelled	Wet Weather Response	
9/28/20 17:31	Wet	1.70	8.06	7.79	Modelled	Wet Weather Response	
10/1/20 15:52	Wet	0.59	4.61	0.04	Modelled	Wet Weather Response	
10/12/20 23:41	Wet	0.69	3.22	1.27	Modelled	Wet Weather Response	
10/20/20 3:55	Wet	3.50	0.58	0.02	Modelled	Wet Weather Response	
10/21/20 2:32	Wet	3.50	9.53	9.84	Modelled	Wet Weather Response	
10/23/20 19:52	Wet	0.59	5.12	0.07	Modelled	Wet Weather Response	
10/30/20 3:05	Wet	1.60	3.74	0.14	Modelled	Wet Weather Response	
11/22/20 12:59	Wet	0.74	3.92	0.29	Modelled	Wet Weather Response	
11/30/20 9:44	Wet	2.59	23.58	0.62	Modelled	Wet Weather Response	
Totals		**47.37**	**218.99**	**104.50**			

CSO 055						Receiving Water:	Big Creek
Location:	Under bridge E of Bellaire Rd. & Kensington Rd., Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:25	Wet	2.82	0.83	0.23	Modelled	Wet Weather Response	
5/15/20 16:35	Wet	2.30	2.17	0.91	Modelled	Wet Weather Response	
7/27/20 16:25	Wet	1.09	0.83	0.43	Modelled	Wet Weather Response	
8/28/20 9:25	Wet	2.76	7.83	0.33	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	7.33	6.82	Modelled	Wet Weather Response	
9/28/20 18:25	Wet	1.70	0.75	0.08	Modelled	Wet Weather Response	
10/21/20 3:25	Wet	3.50	3.83	2.25	Modelled	Wet Weather Response	
Totals		**17.60**	**23.58**	**11.04**			

CSO 056						Receiving Water:	Big Creek
Location:	Under bridge E of Bellaire Rd. & Kensington Rd., Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 2:40	Wet	0.92	5.58	1.02	Monitored	Wet Weather Response	
1/18/20 11:30	Wet	0.77	8.00	2.19	Monitored	Wet Weather Response	
1/24/20 12:05	Wet	0.34	3.83	0.47	Monitored	Wet Weather Response	
2/5/20 23:45	Wet	0.27	0.17	0.01	Monitored	Wet Weather Response	
2/6/20 0:10	Wet	0.06	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0016 MG
2/10/20 4:30	Wet	0.15	2.25	0.34	Monitored	Wet Weather Response	
2/18/20 2:45	Wet	0.18	1.00	0.06	Monitored	Wet Weather Response	
2/24/20 23:35	Wet	0.20	0.42	0.02	Monitored	Wet Weather Response	
2/25/20 0:00	Wet	0.15	0.33	0.06	Monitored	Wet Weather Response	
3/3/20 12:40	Wet	0.30	3.75	0.64	Monitored	Wet Weather Response	
3/10/20 10:55	Wet	0.28	3.08	0.32	Monitored	Wet Weather Response	
3/13/20 1:40	Wet	0.32	3.00	0.93	Monitored	Wet Weather Response	
3/18/20 17:35	Wet	1.09	6.42	4.32	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.14	11.08	1.70	Monitored	Wet Weather Response	
3/20/20 0:00	Wet	0.29	10.25	2.64	Monitored	Wet Weather Response	
3/22/20 23:05	Wet	0.12	0.92	0.08	Monitored	Wet Weather Response	
3/23/20 0:00	Wet	0.09	0.33	0.01	Monitored	Wet Weather Response	
3/27/20 0:45	Wet	0.22	2.92	0.55	Monitored	Wet Weather Response	
3/28/20 0:45	Wet	1.50	23.25	9.63	Monitored	Wet Weather Response	
3/29/20 0:00	Wet	1.29	21.17	9.72	Monitored	Wet Weather Response	

CSO 056						Receiving Water:	Big Creek
Location:	Under bridge E of Bellaire Rd. & Kensington Rd., Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/7/20 9:30	Wet	0.65	2.92	0.70	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.38	9.33	4.57	Monitored	Wet Weather Response	
4/9/20 7:30	Wet	0.25	4.83	0.92	Monitored	Wet Weather Response	
4/13/20 7:20	Wet	0.30	2.08	0.08	Monitored	Wet Weather Response	
4/17/20 15:55	Wet	0.42	5.33	0.30	Monitored	Wet Weather Response	
4/26/20 4:15	Wet	0.59	7.08	1.15	Monitored	Wet Weather Response	
4/28/20 20:40	Wet	0.28	1.33	0.17	Monitored	Wet Weather Response	
5/10/20 19:05	Wet	0.38	3.25	0.57	Monitored	Wet Weather Response	
5/11/20 5:45	Wet	0.30	3.42	0.84	Monitored	Wet Weather Response	
5/14/20 12:20	Wet	0.84	6.42	1.97	Monitored	Wet Weather Response	
5/15/20 3:45	Wet	2.11	12.17	8.81	Monitored	Wet Weather Response	
5/16/20 0:00	Wet	0.01	13.00	3.59	Monitored	Wet Weather Response	
5/17/20 17:40	Wet	0.65	6.33	4.20	Monitored	Wet Weather Response	
5/18/20 0:00	Wet	1.66	15.58	12.16	Monitored	Wet Weather Response	
5/19/20 0:00	Wet	0.67	17.50	10.20	Monitored	Wet Weather Response	
5/22/20 12:40	Wet	0.49	3.42	1.17	Monitored	Wet Weather Response	
5/29/20 16:00	Wet	0.54	3.33	1.05	Monitored	Wet Weather Response	
6/10/20 20:10	Wet	0.62	2.08	0.78	Monitored	Wet Weather Response	
6/18/20 20:50	Wet	0.78	0.42	0.06	Monitored	Wet Weather Response	
6/22/20 12:35	Wet	0.46	1.50	0.19	Monitored	Wet Weather Response	

CSO 056						Receiving Water:	Big Creek
Location:	Under bridge E of Bellaire Rd. & Kensington Rd., Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
6/23/20 12:00	Wet	0.71	2.50	1.35	Monitored	Wet Weather Response	
6/27/20 5:10	Wet	0.58	2.25	0.65	Monitored	Wet Weather Response	
7/11/20 1:05	Wet	0.83	3.08	0.79	Monitored	Wet Weather Response	
7/19/20 17:45	Wet	0.62	1.92	0.30	Monitored	Wet Weather Response	
7/23/20 11:40	Wet	1.12	5.75	2.22	Monitored	Wet Weather Response	
7/27/20 15:50	Wet	1.46	5.25	2.68	Monitored	Wet Weather Response	
7/28/20 2:40	Wet	0.45	3.08	0.50	Monitored	Wet Weather Response	
8/1/20 21:25	Wet	0.88	2.58	0.54	Monitored	Wet Weather Response	
8/16/20 12:25	Wet	0.98	4.50	1.90	Monitored	Wet Weather Response	
8/28/20 9:15	Wet	2.62	13.50	8.73	Monitored	Wet Weather Response	
8/29/20 0:00	Wet	0.26	5.33	0.51	Monitored	Wet Weather Response	
9/2/20 10:35	Wet	0.45	1.42	0.13	Monitored	Wet Weather Response	
9/7/20 7:20	Wet	3.95	16.67	16.24	Monitored	Wet Weather Response	
9/8/20 0:00	Wet	0.00	3.08	0.17	Monitored	Wet Weather Response	
9/13/20 8:55	Wet	0.22	1.17	0.08	Monitored	Wet Weather Response	
9/28/20 17:35	Wet	1.57	6.42	3.06	Monitored	Wet Weather Response	
9/29/20 0:00	Wet	0.01	1.17	0.07	Monitored	Wet Weather Response	
10/2/20 4:45	Wet	0.46	2.50	0.14	Monitored	Wet Weather Response	
10/12/20 23:50	Wet	0.47	0.17	0.06	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.15	2.92	0.64	Monitored	Wet Weather Response	

CSO 056						Receiving Water:	Big Creek
Location:	Under bridge E of Bellaire Rd. & Kensington Rd., Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/19/20 9:55	Wet	0.62	0.50	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0002 MG
10/20/20 3:25	Wet	0.38	2.42	0.25	Monitored	Wet Weather Response	
10/21/20 2:40	Wet	2.58	17.50	11.90	Monitored	Wet Weather Response	
10/23/20 19:45	Wet	0.31	1.83	0.11	Monitored	Wet Weather Response	
10/24/20 1:05	Wet	0.16	1.58	0.08	Monitored	Wet Weather Response	
10/29/20 10:40	Wet	0.57	4.25	0.16	Monitored	Wet Weather Response	
10/30/20 2:30	Wet	0.52	6.67	0.49	Monitored	Wet Weather Response	
11/22/20 13:05	Wet	0.79	5.67	0.75	Monitored	Wet Weather Response	
11/25/20 23:55	Wet	0.39	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0005 MG
11/26/20 0:00	Wet	0.09	1.42	0.03	Monitored	Wet Weather Response	
11/30/20 10:10	Wet	1.26	13.83	1.53	Monitored	Wet Weather Response	
12/1/20 0:00	Wet	1.09	3.00	0.22	Monitored	Wet Weather Response	
12/4/20 15:50	Wet	0.00	2.33	0.01	Monitored	Wet Weather Response	Overflow caused by snow melt
12/12/20 16:20	Wet	0.24	1.00	0.01	Monitored	Wet Weather Response	
12/28/20 0:15	Wet	0.07	7.33	0.32	Monitored	Wet Weather Response	
12/30/20 15:50	Wet	0.35	5.08	0.38	Monitored	Wet Weather Response	
Totals		**48.27**	**388.90**	**145.14**			

CSO 057						Receiving Water:	Big Creek
Location:	Memphis & I-71, under interstate, Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 2:45	Wet	1.09	22.21	3.81	Modelled	Wet Weather Response	
1/18/20 3:00	Wet	0.73	15.07	4.74	Modelled	Wet Weather Response	
1/24/20 13:10	Wet	0.59	6.82	0.05	Modelled	Wet Weather Response	
2/5/20 22:20	Wet	0.56	2.06	0.62	Modelled	Wet Weather Response	
2/12/20 22:01	Wet	0.37	2.86	0.43	Modelled	Wet Weather Response	
2/24/20 23:10	Wet	0.62	1.41	0.14	Modelled	Wet Weather Response	
3/3/20 13:20	Wet	0.45	2.07	0.76	Modelled	Wet Weather Response	
3/10/20 11:00	Wet	0.28	1.15	0.11	Modelled	Wet Weather Response	
3/13/20 1:15	Wet	0.29	2.98	1.14	Modelled	Wet Weather Response	
3/18/20 17:10	Wet	1.43	12.91	11.10	Modelled	Wet Weather Response	
3/20/20 6:55	Wet	1.43	6.99	1.13	Modelled	Wet Weather Response	
3/27/20 0:30	Wet	0.35	2.57	0.55	Modelled	Wet Weather Response	
3/28/20 0:15	Wet	2.82	40.07	37.47	Modelled	Wet Weather Response	
4/7/20 9:25	Wet	1.27	1.67	0.40	Modelled	Wet Weather Response	
4/7/20 23:15	Wet	1.27	9.91	8.14	Modelled	Wet Weather Response	
4/9/20 8:40	Wet	1.27	2.32	0.33	Modelled	Wet Weather Response	
4/17/20 13:30	Wet	0.34	6.98	1.04	Modelled	Wet Weather Response	
4/26/20 3:38	Wet	0.55	8.65	3.41	Modelled	Wet Weather Response	
4/28/20 20:40	Wet	0.50	3.33	0.29	Modelled	Wet Weather Response	
5/10/20 18:20	Wet	0.68	15.40	2.82	Modelled	Wet Weather Response	

CSO 057						Receiving Water:	Big Creek
Location:	Memphis & I-71, under interstate, Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/14/20 11:55	Wet	2.30	79.41	37.40	Modelled	Wet Weather Response	
5/17/20 17:35	Wet	1.51	44.83	38.75	Modelled	Wet Weather Response	
5/22/20 12:15	Wet	0.46	4.30	1.90	Modelled	Wet Weather Response	
5/29/20 15:20	Wet	0.46	6.65	3.63	Modelled	Wet Weather Response	
6/10/20 19:30	Wet	0.58	4.73	2.89	Modelled	Wet Weather Response	
6/18/20 20:10	Wet	0.15	8.08	7.17	Modelled	Wet Weather Response	
6/22/20 11:15	Wet	1.07	5.75	2.66	Modelled	Wet Weather Response	
6/23/20 11:15	Wet	1.07	9.31	7.05	Modelled	Wet Weather Response	
6/27/20 3:20	Wet	1.26	7.63	3.31	Modelled	Wet Weather Response	
7/10/20 14:25	Wet	2.26	22.58	11.70	Modelled	Wet Weather Response	
7/19/20 17:10	Wet	0.41	6.73	4.95	Modelled	Wet Weather Response	
7/22/20 5:25	Wet	0.67	2.49	0.76	Modelled	Wet Weather Response	
7/23/20 12:10	Wet	0.67	11.65	13.43	Modelled	Wet Weather Response	
7/27/20 15:20	Wet	1.09	20.40	24.67	Modelled	Wet Weather Response	
8/1/20 20:19	Wet	1.81	9.26	7.38	Modelled	Wet Weather Response	
8/4/20 8:05	Wet	1.81	1.15	0.17	Modelled	Wet Weather Response	
8/16/20 12:10	Wet	0.56	10.25	10.27	Modelled	Wet Weather Response	
8/28/20 9:05	Wet	2.76	28.72	40.66	Modelled	Wet Weather Response	
9/2/20 9:42	Wet	0.45	5.61	1.96	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	20.81	76.28	Modelled	Wet Weather Response	

CSO 057						Receiving Water:	Big Creek
Location:	Memphis & I-71, under interstate, Linndale						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/13/20 8:30	Wet	0.39	1.91	0.51	Modelled	Wet Weather Response	
9/28/20 17:10	Wet	1.70	13.73	19.87	Modelled	Wet Weather Response	
10/1/20 20:05	Wet	0.59	14.98	3.80	Modelled	Wet Weather Response	
10/4/20 18:00	Wet	0.25	1.50	0.28	Modelled	Wet Weather Response	
10/12/20 23:15	Wet	0.69	8.22	4.61	Modelled	Wet Weather Response	
10/19/20 5:55	Wet	3.50	31.08	4.49	Modelled	Wet Weather Response	
10/21/20 2:10	Wet	3.50	19.15	42.75	Modelled	Wet Weather Response	
10/23/20 19:30	Wet	0.59	8.31	2.14	Modelled	Wet Weather Response	
10/29/20 7:45	Wet	1.60	28.74	8.40	Modelled	Wet Weather Response	
11/15/20 8:20	Wet	0.35	2.75	0.62	Modelled	Wet Weather Response	
11/22/20 9:45	Wet	0.74	13.10	5.65	Modelled	Wet Weather Response	
11/25/20 23:50	Wet	0.65	1.49	0.39	Modelled	Wet Weather Response	
11/30/20 7:00	Wet	2.59	41.06	26.91	Modelled	Wet Weather Response	
12/12/20 16:05	Wet	0.29	1.66	0.31	Modelled	Wet Weather Response	
12/24/20 23:50	Wet	0.72	1.58	0.10	Modelled	Wet Weather Response	
12/30/20 19:30	Wet	0.13	2.97	0.55	Modelled	Wet Weather Response	
Totals		**59.95**	**669.97**	**496.87**			

CSO 058						Receiving Water:	Big Creek
Location:	W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 6:35	Wet	0.92	5.75	9.20	Monitored	Wet Weather Response	
1/11/20 0:00	Wet	0.23	0.17	0.01	Monitored	Wet Weather Response	
1/18/20 13:15	Wet	0.77	7.50	13.92	Monitored	Wet Weather Response	
2/10/20 5:35	Wet	0.15	3.25	2.62	Monitored	Wet Weather Response	
3/3/20 13:30	Wet	0.30	3.17	3.99	Monitored	Wet Weather Response	
3/13/20 1:55	Wet	0.32	1.17	2.98	Monitored	Wet Weather Response	
3/18/20 17:45	Wet	1.09	6.25	21.02	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.14	2.67	2.80	Monitored	Wet Weather Response	
3/20/20 7:15	Wet	0.29	4.67	7.88	Monitored	Wet Weather Response	
3/28/20 0:55	Wet	1.50	15.25	37.23	Monitored	Wet Weather Response	
3/29/20 1:00	Wet	1.29	7.92	44.27	Monitored	Wet Weather Response	
4/7/20 23:50	Wet	0.65	0.17	1.88	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.38	4.50	13.24	Monitored	Wet Weather Response	
4/26/20 4:30	Wet	0.59	2.92	3.00	Monitored	Wet Weather Response	
5/10/20 19:20	Wet	0.38	1.00	0.70	Monitored	Wet Weather Response	
5/11/20 7:05	Wet	0.30	1.00	0.01	Monitored	Wet Weather Response	
5/14/20 18:20	Wet	0.84	1.58	4.24	Monitored	Wet Weather Response	
5/15/20 14:25	Wet	2.11	9.58	62.40	Monitored	Wet Weather Response	
5/16/20 0:00	Wet	0.01	0.67	0.05	Monitored	Wet Weather Response	
5/17/20 18:05	Wet	0.65	2.67	5.67	Monitored	Wet Weather Response	
5/18/20 14:20	Wet	1.66	9.67	43.89	Monitored	Wet Weather Response	

CSO 058						Receiving Water:	Big Creek
Location:	W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/19/20 0:00	Wet	0.67	9.08	26.05	Monitored	Wet Weather Response	
5/22/20 12:55	Wet	0.49	1.25	3.12	Monitored	Wet Weather Response	
5/29/20 16:00	Wet	0.54	2.17	4.72	Monitored	Wet Weather Response	
6/10/20 20:10	Wet	0.62	0.75	2.97	Monitored	Wet Weather Response	
6/17/20 3:00	Dry	0.00	7.00	0.48	Monitored	Water main break	
6/18/20 20:55	Wet	0.78	1.83	7.24	Monitored	Wet Weather Response	
6/22/20 12:50	Wet	0.46	1.08	1.69	Monitored	Wet Weather Response	
6/23/20 12:00	Wet	0.71	2.33	8.60	Monitored	Wet Weather Response	
6/27/20 5:15	Wet	0.58	1.08	4.04	Monitored	Wet Weather Response	
7/3/20 3:50	Dry	0.00	12.75	0.30	Monitored	Water main break	
7/10/20 16:40	Wet	0.42	0.58	1.29	Monitored	Wet Weather Response	
7/11/20 0:55	Wet	0.83	1.75	6.86	Monitored	Wet Weather Response	
7/15/20 12:15	Dry	0.00	0.42	0.01	Monitored	Unknown	
7/19/20 17:30	Wet	0.62	0.92	3.59	Monitored	Wet Weather Response	
7/23/20 12:10	Wet	1.12	5.00	22.89	Monitored	Wet Weather Response	
7/27/20 15:25	Wet	1.46	4.92	21.20	Monitored	Wet Weather Response	
7/28/20 2:30	Wet	0.45	1.33	6.34	Monitored	Wet Weather Response	
8/1/20 21:15	Wet	0.88	2.75	8.22	Monitored	Wet Weather Response	
8/16/20 12:20	Wet	0.98	3.00	14.09	Monitored	Wet Weather Response	
8/28/20 9:15	Wet	2.62	11.08	49.87	Monitored	Wet Weather Response	
8/29/20 5:45	Wet	0.26	1.50	2.68	Monitored	Wet Weather Response	

CSO 058						Receiving Water:	Big Creek
Location:	W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/2/20 10:35	Wet	0.45	0.67	1.97	Monitored	Wet Weather Response	
9/7/20 7:25	Wet	3.95	13.58	107.77	Monitored	Wet Weather Response	
9/13/20 8:55	Wet	0.22	0.75	1.31	Monitored	Wet Weather Response	
9/28/20 17:45	Wet	1.57	6.25	18.37	Monitored	Wet Weather Response	
10/2/20 4:05	Wet	0.46	2.92	5.28	Monitored	Wet Weather Response	
10/12/20 23:45	Wet	0.47	0.25	1.65	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.15	2.33	4.86	Monitored	Wet Weather Response	
10/19/20 8:20	Wet	0.62	2.50	2.90	Monitored	Wet Weather Response	
10/20/20 3:45	Wet	0.38	1.08	1.69	Monitored	Wet Weather Response	
10/21/20 2:55	Wet	2.58	9.58	79.25	Monitored	Wet Weather Response	
10/23/20 19:45	Wet	0.31	1.08	2.24	Monitored	Wet Weather Response	
10/24/20 1:15	Wet	0.16	1.17	1.48	Monitored	Wet Weather Response	
10/29/20 9:35	Wet	0.57	5.50	8.61	Monitored	Wet Weather Response	
10/30/20 2:35	Wet	0.52	5.75	9.67	Monitored	Wet Weather Response	
11/22/20 13:20	Wet	0.79	5.17	8.72	Monitored	Wet Weather Response	
11/30/20 9:35	Wet	1.26	14.42	33.51	Monitored	Wet Weather Response	
12/1/20 0:00	Wet	1.09	2.58	2.34	Monitored	Wet Weather Response	
12/4/20 17:10	Wet	0.00	3.83	1.69	Monitored	Wet Weather Response	Overflow caused by snow melt
12/14/20 13:40	Dry	0.00	4.17	0.22	Monitored	Downstream Blockage	
12/28/20 0:20	Wet	0.07	7.00	9.22	Monitored	Wet Weather Response	
12/30/20 19:30	Wet	0.35	3.67	5.21	Monitored	Wet Weather Response	
Totals		**45.03**	**258.35**	**785.19**			

CSO 059						Receiving Water:	Spring Creek
Location:	Spring Rd. at Jennings Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 21:50	Wet	1.10	0.33	0.05	Monitored	Wet Weather Response	
3/28/20 5:45	Wet	1.47	0.83	0.60	Monitored	Wet Weather Response	
3/29/20 1:05	Wet	1.80	2.00	2.86	Monitored	Wet Weather Response	
4/7/20 23:40	Wet	1.21	0.33	0.24	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.45	0.92	0.13	Monitored	Wet Weather Response	
5/14/20 18:20	Wet	0.63	0.25	0.10	Monitored	Wet Weather Response	
5/15/20 16:55	Wet	1.95	2.00	2.85	Monitored	Wet Weather Response	
5/17/20 18:25	Wet	0.58	0.17	0.23	Monitored	Wet Weather Response	
5/18/20 18:15	Wet	1.02	0.92	0.17	Monitored	Wet Weather Response	
5/19/20 1:25	Wet	0.32	0.17	0.08	Monitored	Wet Weather Response	
6/10/20 20:05	Wet	0.85	0.50	0.55	Monitored	Wet Weather Response	
6/23/20 12:20	Wet	0.63	0.25	0.19	Monitored	Wet Weather Response	
7/11/20 1:30	Wet	1.15	0.17	0.06	Monitored	Wet Weather Response	
7/19/20 17:40	Wet	0.72	0.17	0.19	Monitored	Wet Weather Response	
7/23/20 12:05	Wet	1.08	0.25	0.37	Monitored	Wet Weather Response	
7/27/20 15:20	Wet	0.97	0.42	0.58	Monitored	Wet Weather Response	
7/28/20 2:30	Wet	0.45	0.17	0.07	Monitored	Wet Weather Response	
8/1/20 21:10	Wet	0.66	0.25	0.19	Monitored	Wet Weather Response	
8/16/20 12:40	Wet	0.74	0.33	0.54	Monitored	Wet Weather Response	
8/28/20 9:20	Wet	3.18	1.08	1.50	Monitored	Wet Weather Response	

CSO 059						Receiving Water:	Spring Creek
Location:	Spring Rd. at Jennings Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 7:25	Wet	4.55	5.25	5.28	Monitored	Wet Weather Response	
9/13/20 9:10	Wet	0.33	0.08	0.03	Monitored	Wet Weather Response	
9/28/20 17:25	Wet	1.93	0.92	0.79	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.33	0.17	0.02	Monitored	Wet Weather Response	
10/21/20 3:30	Wet	2.30	2.58	2.17	Monitored	Wet Weather Response	
12/4/20 12:45	Wet	0.00	0.17	0.01	Monitored	Wet Weather Response	Overflow caused by snow melt
12/12/20 15:55	Wet	0.35	0.17	0.07	Monitored	Wet Weather Response	
Totals		**30.75**	**20.85**	**19.92**			

CSO 060						Receiving Water:	Cuyahoga River
Location:	Big Creek emergency bypass off Van Epps Blvd., Brooklyn Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 062						Receiving Water:	Rocky River
Location:	Mid-point of Puritas Rd. hill into Metroparks, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
Modelling Data Not Available					N/A		
3/10/20 13:15	Dry	0.28	0.50	0.01	N/A	Downstream Blockage	
Totals		**0.28**	**0.50**	**0.01**			

CSO 063						Receiving Water:	West Creek
Location:	Along Granger Rd., SE of the Westbound I-480 exit to Granger Rd., Brooklyn Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:25	Wet	2.82	0.83	0.21	Modelled	Wet Weather Response	
5/15/20 17:10	Wet	2.30	1.16	0.44	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	1.91	0.78	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	4.24	2.77	Modelled	Wet Weather Response	
9/28/20 18:20	Wet	1.70	1.00	0.30	Modelled	Wet Weather Response	
10/21/20 4:10	Wet	3.50	1.08	0.24	Modelled	Wet Weather Response	
Totals		**16.51**	**10.23**	**4.74**			

CSO 064						Receiving Water:	Rocky River
Location:	End of Larchwood Ave., W of intersection with Riveredge Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:45	Wet	2.82	1.40	0.01	Modelled	Wet Weather Response	
3/29/20 2:10	Wet	2.82	1.32	0.07	Modelled	Wet Weather Response	
5/15/20 16:20	Wet	2.30	3.37	0.23	Modelled	Wet Weather Response	
5/18/20 18:25	Wet	1.51	7.07	0.06	Modelled	Wet Weather Response	
6/18/20 20:25	Wet	0.15	0.83	0.05	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	0.75	0.02	Modelled	Wet Weather Response	
7/23/20 12:25	Wet	0.67	1.05	0.04	Modelled	Wet Weather Response	
7/27/20 16:10	Wet	1.09	11.07	0.16	Modelled	Wet Weather Response	
8/1/20 21:25	Wet	1.81	0.77	0.01	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	0.91	0.04	Modelled	Wet Weather Response	
8/28/20 9:20	Wet	2.76	9.15	0.15	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	8.27	0.88	Modelled	Wet Weather Response	
9/28/20 17:36	Wet	1.70	1.88	0.07	Modelled	Wet Weather Response	
10/21/20 3:15	Wet	3.50	5.55	0.43	Modelled	Wet Weather Response	
Totals		**25.53**	**53.38**	**2.21**			

CSO 065						Receiving Water:	Rocky River
Location:	N of Old Lorain Rd. bridge over Rocky River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 1:30	Wet	1.09	43.97	0.06	Modelled	Wet Weather Response	
1/18/20 1:50	Wet	0.73	19.34	0.04	Modelled	Wet Weather Response	
3/3/20 11:33	Wet	0.45	2.83	0.01	Modelled	Wet Weather Response	
3/13/20 0:49	Wet	0.29	9.35	0.01	Modelled	Wet Weather Response	
3/18/20 16:23	Wet	1.43	46.16	0.11	Modelled	Wet Weather Response	
3/27/20 23:37	Wet	2.82	59.93	0.97	Modelled	Wet Weather Response	
4/7/20 7:47	Wet	1.27	51.35	0.10	Modelled	Wet Weather Response	
4/17/20 12:00	Wet	0.34	8.20	0.01	Modelled	Wet Weather Response	
4/26/20 3:08	Wet	0.55	11.72	0.03	Modelled	Wet Weather Response	
5/10/20 18:05	Wet	0.68	20.49	0.03	Modelled	Wet Weather Response	
5/14/20 10:19	Wet	2.30	61.03	1.51	Modelled	Wet Weather Response	
5/17/20 17:06	Wet	1.51	66.24	0.98	Modelled	Wet Weather Response	
5/22/20 5:06	Wet	0.46	9.31	0.02	Modelled	Wet Weather Response	
5/29/20 15:06	Wet	0.46	5.04	0.03	Modelled	Wet Weather Response	
6/10/20 19:10	Wet	0.58	15.51	0.03	Modelled	Wet Weather Response	
6/18/20 20:05	Wet	0.15	18.72	0.09	Modelled	Wet Weather Response	
6/21/20 23:25	Wet	1.07	19.83	0.03	Modelled	Wet Weather Response	
6/23/20 8:33	Wet	1.07	26.43	0.09	Modelled	Wet Weather Response	
6/26/20 23:59	Wet	1.26	23.28	0.03	Modelled	Wet Weather Response	
7/10/20 14:08	Wet	2.26	44.60	0.11	Modelled	Wet Weather Response	

CSO 065						Receiving Water:	Rocky River
Location:	N of Old Lorain Rd. bridge over Rocky River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/19/20 17:05	Wet	0.41	18.03	0.07	Modelled	Wet Weather Response	
7/23/20 12:05	Wet	0.67	27.02	0.29	Modelled	Wet Weather Response	
7/27/20 14:22	Wet	1.09	44.30	0.69	Modelled	Wet Weather Response	
8/1/20 17:13	Wet	1.81	27.78	0.09	Modelled	Wet Weather Response	
8/16/20 12:05	Wet	0.56	26.52	0.12	Modelled	Wet Weather Response	
8/28/20 8:20	Wet	2.76	50.23	1.32	Modelled	Wet Weather Response	
9/2/20 9:11	Wet	0.45	5.17	0.02	Modelled	Wet Weather Response	
9/7/20 7:01	Wet	3.43	41.66	3.65	Modelled	Wet Weather Response	
9/28/20 17:03	Wet	1.70	41.29	0.51	Modelled	Wet Weather Response	
10/1/20 13:48	Wet	0.59	25.03	0.03	Modelled	Wet Weather Response	
10/12/20 23:05	Wet	0.69	15.31	0.05	Modelled	Wet Weather Response	
10/19/20 4:43	Wet	3.50	87.32	2.33	Modelled	Wet Weather Response	
10/23/20 19:09	Wet	0.59	15.91	0.02	Modelled	Wet Weather Response	
10/29/20 6:12	Wet	1.60	37.73	0.07	Modelled	Wet Weather Response	
11/15/20 1:39	Wet	0.35	12.70	0.01	Modelled	Wet Weather Response	
11/22/20 8:10	Wet	0.74	27.25	0.05	Modelled	Wet Weather Response	
11/25/20 11:21	Wet	0.65	23.32	0.01	Modelled	Wet Weather Response	
11/30/20 5:29	Wet	2.59	57.02	0.20	Modelled	Wet Weather Response	
12/24/20 9:33	Wet	0.72	25.67	0.01	Modelled	Wet Weather Response	
Totals		**45.67**	**1172.57**	**13.83**			

CSO 067						Receiving Water:	Rocky River
Location:	W of 3870 Rocky River Dr. at NW Corner of Kamm's Plaza, high on hillside, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:20	Wet	2.82	1.00	0.09	Modelled	Wet Weather Response	
3/29/20 2:30	Wet	2.82	1.16	0.37	Modelled	Wet Weather Response	
5/15/20 16:40	Wet	2.30	3.06	1.13	Modelled	Wet Weather Response	
5/18/20 18:50	Wet	1.51	7.40	0.37	Modelled	Wet Weather Response	
6/18/20 20:55	Wet	0.15	0.66	0.14	Modelled	Wet Weather Response	
7/19/20 18:10	Wet	0.41	0.33	0.02	Modelled	Wet Weather Response	
7/23/20 12:50	Wet	0.67	1.50	0.26	Modelled	Wet Weather Response	
7/27/20 16:30	Wet	1.09	11.05	0.81	Modelled	Wet Weather Response	
8/1/20 21:55	Wet	1.81	0.58	0.06	Modelled	Wet Weather Response	
8/16/20 13:00	Wet	0.56	0.58	0.10	Modelled	Wet Weather Response	
8/28/20 9:50	Wet	2.76	10.50	0.87	Modelled	Wet Weather Response	
9/7/20 7:40	Wet	3.43	8.82	4.57	Modelled	Wet Weather Response	
9/28/20 18:30	Wet	1.70	1.74	0.33	Modelled	Wet Weather Response	
10/21/20 3:35	Wet	3.50	5.64	2.09	Modelled	Wet Weather Response	
Totals		**25.53**	**54.04**	**11.21**			

CSO 068						Receiving Water:	Rocky River
Location:	Off Hogsback Ln., SW of Intersection with Riverside Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:06	Wet	1.43	5.07	0.07	Modelled	Wet Weather Response	
3/28/20 0:58	Wet	2.82	7.18	0.38	Modelled	Wet Weather Response	
3/29/20 0:20	Wet	2.82	4.99	1.10	Modelled	Wet Weather Response	
4/7/20 23:25	Wet	1.27	2.16	0.18	Modelled	Wet Weather Response	
5/14/20 17:35	Wet	2.30	1.73	0.08	Modelled	Wet Weather Response	
5/15/20 14:15	Wet	2.30	7.24	2.55	Modelled	Wet Weather Response	
5/17/20 17:40	Wet	1.51	1.66	0.10	Modelled	Wet Weather Response	
5/18/20 16:20	Wet	1.51	10.83	1.24	Modelled	Wet Weather Response	
5/29/20 16:00	Wet	0.46	1.24	0.02	Modelled	Wet Weather Response	
6/10/20 20:25	Wet	0.58	0.91	0.04	Modelled	Wet Weather Response	
6/18/20 20:25	Wet	0.15	1.08	0.28	Modelled	Wet Weather Response	
6/22/20 12:24	Wet	1.07	0.93	0.03	Modelled	Wet Weather Response	
6/23/20 11:21	Wet	1.07	2.05	0.18	Modelled	Wet Weather Response	
6/27/20 5:15	Wet	1.26	1.08	0.05	Modelled	Wet Weather Response	
7/11/20 0:28	Wet	2.26	2.95	0.12	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	0.93	0.17	Modelled	Wet Weather Response	
7/23/20 12:20	Wet	0.67	3.24	0.49	Modelled	Wet Weather Response	
7/27/20 16:10	Wet	1.09	11.33	1.21	Modelled	Wet Weather Response	
8/1/20 20:55	Wet	1.81	1.58	0.20	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	2.83	0.26	Modelled	Wet Weather Response	

CSO 068						Receiving Water:	Rocky River
Location:	Off Hogsback Ln., SW of Intersection with Riverside Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/28/20 9:20	Wet	2.76	21.00	1.94	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	9.41	7.29	Modelled	Wet Weather Response	
9/28/20 17:35	Wet	1.70	4.24	0.76	Modelled	Wet Weather Response	
10/12/20 23:40	Wet	0.69	0.83	0.08	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	7.08	4.34	Modelled	Wet Weather Response	
Totals		**39.43**	**113.57**	**23.17**			

CSO 069						Receiving Water:	Lake Erie
Location:	Upper Edgewater Park, approximately 300 yards W of bathing beach, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Edgewater Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:30	Wet	1.37	0.33	0.55	Monitored	Wet Weather Response	
7/27/20 16:35	Wet	0.73	0.17	0.02	Monitored	Wet Weather Response	
9/7/20 10:15	Wet	3.47	0.42	1.54	Monitored	Wet Weather Response	
10/21/20 4:20	Wet	2.71	0.25	0.13	Monitored	Wet Weather Response	
Totals		**8.28**	**1.17**	**2.24**			

CSO 071						Receiving Water:	Lake Erie
Location:	Harborview Dr. & W 117th St., behind 11644 Harborview Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 9:25	Wet	3.43	1.83	3.22	Modelled	Wet Weather Response	
Totals		**3.43**	**1.83**	**3.22**			

CSO 072						Receiving Water:	Mill Creek
Location:	Access thru Harvard Refuse Inc. at Finney Rd. & E 78th St., along Mill Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:45	Wet	1.34	0.08	0.03	Monitored	Wet Weather Response	
3/29/20 1:10	Wet	2.16	1.42	1.08	Monitored	Wet Weather Response	
4/7/20 23:15	Wet	0.74	0.50	0.11	Monitored	Wet Weather Response	
5/15/20 17:00	Wet	1.73	1.08	0.46	Monitored	Wet Weather Response	
6/10/20 20:20	Wet	0.61	0.08	0.02	Monitored	Wet Weather Response	
6/27/20 0:15	Wet	0.94	0.33	0.23	Monitored	Wet Weather Response	
7/11/20 3:00	Wet	2.88	0.50	0.27	Monitored	Wet Weather Response	
7/19/20 17:35	Wet	0.55	1.75	0.45	Monitored	Wet Weather Response	
7/27/20 15:20	Wet	0.98	0.17	0.08	Monitored	Wet Weather Response	
8/3/20 14:35	Wet	1.19	0.08	0.01	Monitored	Wet Weather Response	
8/28/20 9:25	Wet	2.16	1.33	0.55	Monitored	Wet Weather Response	
9/7/20 8:00	Wet	4.02	3.17	1.57	Monitored	Wet Weather Response	
9/28/20 18:30	Wet	1.79	0.25	0.08	Monitored	Wet Weather Response	
10/21/20 4:25	Wet	2.01	0.42	0.17	Monitored	Wet Weather Response	
Totals		**23.10**	**11.16**	**5.10**			

CSO 073						Receiving Water:	Doan Brook
Location:	Giddings Brook at Doan Brook, NE of intersection of Baldwin Rd. & Fairhill Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Ambler Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:04	Wet	1.43	5.09	0.90	Modelled	Wet Weather Response	
3/28/20 5:06	Wet	2.82	3.21	2.37	Modelled	Wet Weather Response	
3/29/20 1:02	Wet	2.82	11.14	23.84	Modelled	Wet Weather Response	
4/7/20 23:10	Wet	1.27	2.65	2.78	Modelled	Wet Weather Response	
5/14/20 18:25	Wet	2.30	1.00	0.40	Modelled	Wet Weather Response	
5/15/20 14:10	Wet	2.30	6.22	9.58	Modelled	Wet Weather Response	
5/17/20 18:22	Wet	1.51	1.38	0.32	Modelled	Wet Weather Response	
5/22/20 12:25	Wet	0.46	1.03	0.05	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	1.02	0.06	Modelled	Wet Weather Response	
6/10/20 20:00	Wet	0.58	1.64	1.73	Modelled	Wet Weather Response	
6/23/20 12:00	Wet	1.07	1.57	1.66	Modelled	Wet Weather Response	
6/26/20 23:12	Wet	1.26	7.32	1.81	Modelled	Wet Weather Response	
7/10/20 16:01	Wet	2.26	20.35	21.18	Modelled	Wet Weather Response	
7/19/20 17:20	Wet	0.41	1.14	0.83	Modelled	Wet Weather Response	
7/27/20 15:20	Wet	1.09	11.91	1.62	Modelled	Wet Weather Response	
8/1/20 21:30	Wet	1.81	0.83	0.11	Modelled	Wet Weather Response	
8/3/20 14:15	Wet	1.81	2.77	3.11	Modelled	Wet Weather Response	
8/4/20 7:00	Wet	1.81	2.10	1.94	Modelled	Wet Weather Response	
8/16/20 12:05	Wet	0.56	1.96	0.22	Modelled	Wet Weather Response	
8/26/20 11:26	Wet	0.32	0.94	0.05	Modelled	Wet Weather Response	

CSO 073						Receiving Water:	Doan Brook
Location:	Giddings Brook at Doan Brook, NE of intersection of Baldwin Rd. & Fairhill Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Ambler Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/28/20 8:28	Wet	2.76	23.79	11.50	Modelled	Wet Weather Response	
9/2/20 10:20	Wet	0.45	1.06	0.17	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	11.13	53.92	Modelled	Wet Weather Response	
9/13/20 8:25	Wet	0.39	1.08	0.36	Modelled	Wet Weather Response	
9/14/20 9:15	Dry	0.00	2.50	0.04	Modelled	Gravel	
9/28/20 17:10	Wet	1.70	8.26	9.10	Modelled	Wet Weather Response	
10/12/20 23:15	Wet	0.69	3.07	0.98	Modelled	Wet Weather Response	
10/21/20 3:00	Wet	3.50	9.57	20.69	Modelled	Wet Weather Response	
12/1/20 0:05	Wet	2.59	8.12	0.53	Modelled	Wet Weather Response	
Totals		**43.86**	**153.86**	**171.85**			

CSO 074						Receiving Water:	Cuyahoga River
Location:	W 45 St. at Old River Bed, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Channel Park Marina			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:30	Wet	2.82	1.99	0.36	Modelled	Wet Weather Response	
3/29/20 1:00	Wet	2.82	2.50	0.74	Modelled	Wet Weather Response	
4/7/20 23:30	Wet	1.27	1.83	0.40	Modelled	Wet Weather Response	
5/14/20 18:40	Wet	2.30	0.66	0.05	Modelled	Wet Weather Response	
5/15/20 14:30	Wet	2.30	3.99	0.49	Modelled	Wet Weather Response	
5/18/20 18:25	Wet	1.51	7.75	0.18	Modelled	Wet Weather Response	
6/10/20 20:05	Wet	0.58	1.08	0.03	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.33	0.48	Modelled	Wet Weather Response	
6/26/20 23:35	Wet	1.26	1.83	0.52	Modelled	Wet Weather Response	
7/11/20 1:25	Wet	2.26	5.08	0.78	Modelled	Wet Weather Response	
7/27/20 16:25	Wet	1.09	0.91	0.08	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	1.16	0.48	Modelled	Wet Weather Response	
8/28/20 10:00	Wet	2.76	7.41	0.42	Modelled	Wet Weather Response	
8/29/20 5:25	Wet	2.76	1.08	0.43	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	6.91	6.90	Modelled	Wet Weather Response	
9/13/20 8:45	Wet	0.39	0.50	0.02	Modelled	Wet Weather Response	
9/28/20 17:32	Wet	1.70	2.45	0.91	Modelled	Wet Weather Response	
10/1/20 19:45	Wet	0.59	0.50	0.02	Modelled	Wet Weather Response	
10/12/20 23:30	Wet	0.69	1.00	0.22	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	4.50	4.68	Modelled	Wet Weather Response	
Totals		**35.66**	**54.47**	**18.18**			

CSO 075						Receiving Water:	Cuyahoga River
Location:	River Rd. & Elm St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 7:10	Wet	2.82	1.16	0.07	Modelled	Wet Weather Response	
3/29/20 2:35	Wet	2.82	1.25	0.26	Modelled	Wet Weather Response	
5/15/20 17:00	Wet	2.30	2.41	0.41	Modelled	Wet Weather Response	
5/18/20 19:45	Wet	1.51	0.91	0.05	Modelled	Wet Weather Response	
6/27/20 4:35	Wet	1.26	1.83	0.16	Modelled	Wet Weather Response	
7/11/20 6:05	Wet	2.26	0.66	0.04	Modelled	Wet Weather Response	
8/28/20 17:35	Wet	2.76	2.83	0.19	Modelled	Wet Weather Response	
9/7/20 9:05	Wet	3.43	5.32	1.85	Modelled	Wet Weather Response	
9/28/20 19:30	Wet	1.70	1.91	0.13	Modelled	Wet Weather Response	
10/21/20 4:10	Wet	3.50	3.74	1.33	Modelled	Wet Weather Response	
Totals		**24.36**	**22.03**	**4.49**			

CSO 076						Receiving Water:	Cuyahoga River
Location:	Center St. & Cuyahoga River on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:35	Wet	2.82	1.58	0.31	Modelled	Wet Weather Response	
3/29/20 2:15	Wet	2.82	1.41	0.99	Modelled	Wet Weather Response	
5/15/20 16:50	Wet	2.30	2.33	0.90	Modelled	Wet Weather Response	
5/18/20 19:40	Wet	1.51	0.75	0.07	Modelled	Wet Weather Response	
6/23/20 12:45	Wet	1.07	0.58	0.19	Modelled	Wet Weather Response	
6/27/20 0:50	Wet	1.26	5.41	0.29	Modelled	Wet Weather Response	
7/11/20 5:45	Wet	2.26	0.83	0.40	Modelled	Wet Weather Response	
8/28/20 11:45	Wet	2.76	18.58	0.40	Modelled	Wet Weather Response	
9/7/20 8:20	Wet	3.43	5.83	4.72	Modelled	Wet Weather Response	
9/28/20 18:40	Wet	1.70	2.41	0.62	Modelled	Wet Weather Response	
10/21/20 3:40	Wet	3.50	3.81	3.88	Modelled	Wet Weather Response	
Totals		**25.43**	**43.53**	**12.76**			

CSO 078						Receiving Water:	Cuyahoga River
Location:	Columbus Rd. & Cuyahoga River on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rivergate Park, Heritage Park, and Settlers Landing Park Canalway Partners: Hart Crane Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:05	Wet	3.43	1.08	0.48	Modelled	Wet Weather Response	
10/21/20 4:15	Wet	3.50	1.24	0.17	Modelled	Wet Weather Response	
Totals		**6.93**	**2.32**	**0.65**			

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/4/20 2:35	Wet	0.23	0.58	0.02	Monitored	Wet Weather Response	
1/10/20 2:30	Wet	0.82	7.33	3.01	Monitored	Wet Weather Response	
1/18/20 11:50	Wet	0.70	8.08	4.67	Monitored	Wet Weather Response	
1/24/20 12:10	Wet	0.32	4.67	0.65	Monitored	Wet Weather Response	
1/25/20 5:45	Wet	0.14	0.50	0.02	Monitored	Wet Weather Response	
2/5/20 23:15	Wet	0.27	0.75	0.23	Monitored	Wet Weather Response	
2/6/20 0:00	Wet	0.04	0.42	0.03	Monitored	Wet Weather Response	

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
2/9/20 22:25	Wet	0.11	0.67	0.01	Monitored	Wet Weather Response	
2/10/20 4:55	Wet	0.15	2.17	0.56	Monitored	Wet Weather Response	
2/18/20 2:15	Wet	0.16	2.08	0.30	Monitored	Wet Weather Response	
2/24/20 23:25	Wet	0.17	0.58	0.20	Monitored	Wet Weather Response	
2/25/20 0:00	Wet	0.19	1.08	0.13	Monitored	Wet Weather Response	
3/3/20 12:30	Wet	0.29	3.08	2.22	Monitored	Wet Weather Response	
3/10/20 10:45	Wet	0.25	1.58	0.77	Monitored	Wet Weather Response	
3/13/20 1:20	Wet	0.32	2.33	2.34	Monitored	Wet Weather Response	
3/18/20 17:25	Wet	1.06	6.58	13.04	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.13	1.92	0.35	Monitored	Wet Weather Response	
3/20/20 7:10	Wet	0.19	2.25	3.35	Monitored	Wet Weather Response	
3/22/20 23:00	Wet	0.15	1.00	0.13	Monitored	Wet Weather Response	
3/27/20 0:00	Wet	0.13	2.58	0.66	Monitored	Wet Weather Response	
3/28/20 0:45	Wet	1.27	13.08	12.65	Monitored	Wet Weather Response	
3/29/20 1:00	Wet	1.37	12.25	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
4/7/20 10:30	Wet	0.69	1.25	1.11	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.38	4.17	8.81	Monitored	Wet Weather Response	
4/9/20 7:25	Wet	0.26	3.25	1.10	Monitored	Wet Weather Response	
4/13/20 11:00	Wet	0.27	0.42	0.01	Monitored	Wet Weather Response	
4/15/20 18:15	Wet	0.12	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0017 MG

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/17/20 14:55	Wet	0.42	3.83	0.14	Monitored	Wet Weather Response	
4/26/20 3:40	Wet	0.55	5.75	3.62	Monitored	Wet Weather Response	
4/28/20 21:30	Wet	0.09	0.33	0.01	Monitored	Wet Weather Response	
5/2/20 22:00	Wet	0.08	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0001 MG
5/10/20 19:05	Wet	0.40	2.67	1.89	Monitored	Wet Weather Response	
5/11/20 5:45	Wet	0.25	2.92	1.01	Monitored	Wet Weather Response	
5/14/20 12:25	Wet	0.50	3.08	4.30	Monitored	Wet Weather Response	
5/15/20 3:25	Wet	1.66	10.92	17.44	Monitored	Wet Weather Response	
5/17/20 18:00	Wet	0.40	2.75	3.80	Monitored	Wet Weather Response	
5/18/20 11:20	Wet	1.14	9.83	14.71	Monitored	Wet Weather Response	
5/19/20 0:00	Wet	0.35	8.83	4.98	Monitored	Wet Weather Response	
5/22/20 12:15	Wet	0.44	3.00	3.93	Monitored	Wet Weather Response	
5/28/20 9:30	Wet	0.14	1.00	0.13	Monitored	Wet Weather Response	
5/29/20 15:40	Wet	0.47	3.17	5.15	Monitored	Wet Weather Response	
6/10/20 20:05	Wet	0.52	1.92	3.31	Monitored	Wet Weather Response	
6/18/20 20:55	Wet	0.10	1.00	0.92	Monitored	Wet Weather Response	
6/22/20 11:10	Wet	0.39	3.17	1.77	Monitored	Wet Weather Response	
6/23/20 12:10	Wet	0.86	2.08	3.88	Monitored	Wet Weather Response	
6/26/20 23:40	Wet	0.47	0.33	0.34	Monitored	Wet Weather Response	
6/27/20 0:00	Wet	1.05	5.58	8.98	Monitored	Wet Weather Response	

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/11/20 1:10	Wet	1.34	6.25	9.47	Monitored	Wet Weather Response	
7/16/20 15:15	Wet	0.12	1.58	0.44	Monitored	Wet Weather Response	
7/19/20 17:45	Wet	0.25	1.42	2.55	Monitored	Wet Weather Response	
7/22/20 5:25	Wet	0.25	1.42	0.63	Monitored	Wet Weather Response	
7/23/20 11:30	Wet	0.19	3.42	8.16	Monitored	Wet Weather Response	
7/27/20 14:20	Wet	0.73	4.92	8.72	Monitored	Wet Weather Response	
7/28/20 1:55	Wet	0.29	2.42	4.36	Monitored	Wet Weather Response	
7/29/20 23:05	Wet	0.01	0.92	1.14	Monitored	Wet Weather Response	
7/30/20 0:00	Wet	0.00	0.17	0.01	Monitored	Wet Weather Response	
8/1/20 21:05	Wet	0.38	2.42	3.28	Monitored	Wet Weather Response	
8/2/20 17:30	Wet	0.12	0.50	0.02	Monitored	Wet Weather Response	
8/3/20 16:20	Wet	0.18	0.83	0.06	Monitored	Wet Weather Response	
8/4/20 7:35	Wet	0.06	1.42	0.60	Monitored	Wet Weather Response	
8/16/20 12:25	Wet	0.82	2.92	5.09	Monitored	Wet Weather Response	
8/17/20 14:30	Wet	0.11	1.00	1.06	Monitored	Wet Weather Response	
8/26/20 10:30	Wet	0.24	1.17	0.89	Monitored	Wet Weather Response	
8/28/20 9:25	Wet	1.73	9.42	19.67	Monitored	Wet Weather Response	
8/29/20 5:10	Wet	0.65	2.50	4.96	Monitored	Wet Weather Response	
9/2/20 10:15	Wet	0.27	2.67	2.95	Monitored	Wet Weather Response	
9/7/20 7:20	Wet	3.47	11.08	38.23	Monitored	Wet Weather Response	

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/13/20 8:25	Wet	0.34	1.83	3.30	Monitored	Wet Weather Response	
9/28/20 17:15	Wet	1.52	6.75	12.77	Monitored	Wet Weather Response	
10/1/20 14:40	Wet	0.35	2.75	1.52	Monitored	Wet Weather Response	
10/2/20 2:55	Wet	0.25	2.08	0.86	Monitored	Wet Weather Response	
10/4/20 18:00	Wet	0.19	1.50	0.94	Monitored	Wet Weather Response	
10/12/20 23:35	Wet	0.50	0.42	0.80	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.19	2.75	4.68	Monitored	Wet Weather Response	
10/18/20 15:20	Wet	0.04	0.42	0.02	Monitored	Wet Weather Response	
10/19/20 5:55	Wet	0.71	5.17	1.58	Monitored	Wet Weather Response	
10/20/20 3:00	Wet	0.36	3.33	1.85	Monitored	Wet Weather Response	
10/21/20 2:15	Wet	2.71	11.08	24.71	Monitored	Wet Weather Response	
10/22/20 4:25	Wet	0.37	2.58	1.95	Monitored	Wet Weather Response	
10/23/20 19:10	Wet	0.35	2.92	2.74	Monitored	Wet Weather Response	
10/24/20 0:50	Wet	0.18	2.33	1.81	Monitored	Wet Weather Response	
10/27/20 18:50	Wet	0.21	1.42	0.13	Monitored	Wet Weather Response	
10/29/20 8:30	Wet	0.52	6.42	3.24	Monitored	Wet Weather Response	
10/30/20 2:20	Wet	0.27	4.75	2.28	Monitored	Wet Weather Response	
11/1/20 8:45	Wet	0.14	0.75	0.11	Monitored	Wet Weather Response	
11/15/20 8:50	Wet	0.38	2.67	0.36	Monitored	Wet Weather Response	
11/17/20 7:10	Wet	0.12	0.25	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0033 MG

CSO 080						Receiving Water:	Cuyahoga River
Location:	University Rd., SE of 2065 Scranton Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
11/22/20 9:35	Wet	0.84	6.58	5.44	Monitored	Wet Weather Response	
11/25/20 15:35	Wet	0.48	1.42	0.58	Monitored	Wet Weather Response	
11/26/20 0:00	Wet	0.12	2.17	0.68	Monitored	Wet Weather Response	
11/30/20 7:00	Wet	0.94	12.58	5.38	Monitored	Wet Weather Response	
12/1/20 0:00	Wet	1.18	2.42	0.91	Monitored	Wet Weather Response	
12/4/20 14:40	Wet	0.00	2.83	0.23	Monitored	Wet Weather Response	Overflow caused by snow melt
12/12/20 15:50	Wet	0.25	2.00	2.30	Monitored	Wet Weather Response	
12/21/20 21:35	Wet	0.07	0.67	0.07	Monitored	Wet Weather Response	
12/27/20 23:15	Wet	0.09	0.75	0.31	Monitored	Wet Weather Response	
12/28/20 0:00	Wet	0.07	7.67	3.43	Monitored	Wet Weather Response	
12/30/20 15:10	Wet	0.36	6.50	2.77	Monitored	Wet Weather Response	
Totals		**45.77**	**323.27**	**336.74**			

CSO 081						Receiving Water:	Cuyahoga River
Location:	Downstream of W 3rd St. bridge, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:25	Wet	2.82	0.66	0.01	Modelled	Wet Weather Response	
9/7/20 8:38	Wet	3.43	2.61	0.98	Modelled	Wet Weather Response	
10/21/20 4:05	Wet	3.50	1.17	0.31	Modelled	Wet Weather Response	
Totals		**9.75**	**4.44**	**1.31**			

CSO 082						Receiving Water:	Cuyahoga River
Location:	W 3rd St. & Cuyahoga River under bridge on S side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:31	Wet	1.43	4.03	0.02	Modelled	Wet Weather Response	
3/20/20 7:31	Wet	1.43	0.80	0.03	Modelled	Wet Weather Response	
3/28/20 5:40	Wet	2.82	2.05	0.30	Modelled	Wet Weather Response	
3/29/20 1:10	Wet	2.82	2.57	0.80	Modelled	Wet Weather Response	
4/7/20 23:20	Wet	1.27	2.37	0.19	Modelled	Wet Weather Response	
5/14/20 18:35	Wet	2.30	0.82	0.03	Modelled	Wet Weather Response	

CSO 082						Receiving Water:	Cuyahoga River
Location:	W 3rd St. & Cuyahoga River under bridge on S side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/15/20 14:40	Wet	2.30	4.58	0.88	Modelled	Wet Weather Response	
5/17/20 18:25	Wet	1.51	1.31	0.08	Modelled	Wet Weather Response	
5/18/20 18:30	Wet	1.51	7.83	0.25	Modelled	Wet Weather Response	
5/29/20 15:45	Wet	0.46	1.27	0.03	Modelled	Wet Weather Response	
6/10/20 20:10	Wet	0.58	1.31	0.11	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	1.32	0.20	Modelled	Wet Weather Response	
6/27/20 0:10	Wet	1.26	6.16	0.17	Modelled	Wet Weather Response	
7/11/20 1:25	Wet	2.26	5.25	0.68	Modelled	Wet Weather Response	
7/23/20 11:25	Wet	0.67	1.15	0.14	Modelled	Wet Weather Response	
7/27/20 15:35	Wet	1.09	11.82	0.24	Modelled	Wet Weather Response	
8/16/20 12:30	Wet	0.56	1.60	0.10	Modelled	Wet Weather Response	
8/28/20 9:26	Wet	2.76	21.22	0.70	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	6.87	3.48	Modelled	Wet Weather Response	
9/8/20 2:05	Dry	0.00	10.83	0.01	Modelled	Gravel	Overflow volume calculated using level monitoring equipment at the site.
9/13/20 8:35	Wet	0.39	0.83	0.04	Modelled	Wet Weather Response	
9/28/20 17:40	Wet	1.70	3.62	0.42	Modelled	Wet Weather Response	
10/12/20 23:55	Wet	0.69	2.01	0.04	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	4.41	2.39	Modelled	Wet Weather Response	
Totals		**37.81**	**106.03**	**11.34**			

CSO 084						Receiving Water:	Big Creek
Location:	1,000 feet E of Ridge Rd. & Associate Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 086						Receiving Water:	Cuyahoga River
Location:	Mary St. E of W 3rd St. at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 3:10	Wet	2.82	0.50	0.04	Modelled	Wet Weather Response	
5/15/20 18:10	Wet	2.30	0.58	0.03	Modelled	Wet Weather Response	
9/7/20 8:35	Wet	3.43	4.91	3.21	Modelled	Wet Weather Response	
10/21/20 4:20	Wet	3.50	3.08	1.70	Modelled	Wet Weather Response	
Totals		**12.05**	**9.07**	**4.99**			

CSO 087						Receiving Water:	Cuyahoga River
Location:	E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20 8:05	Wet	0.73	2.23	0.04	Modelled	Wet Weather Response	
3/3/20 13:15	Wet	0.45	1.07	0.02	Modelled	Wet Weather Response	
3/13/20 1:25	Wet	0.29	0.98	0.02	Modelled	Wet Weather Response	
3/18/20 17:20	Wet	1.43	5.91	0.17	Modelled	Wet Weather Response	
3/20/20 6:40	Wet	1.43	1.73	0.08	Modelled	Wet Weather Response	
3/28/20 0:55	Wet	2.82	6.58	0.40	Modelled	Wet Weather Response	
3/29/20 0:20	Wet	2.82	11.97	1.20	Modelled	Wet Weather Response	
4/7/20 23:10	Wet	1.27	3.07	0.67	Modelled	Wet Weather Response	
4/26/20 3:26	Wet	0.55	1.90	0.03	Modelled	Wet Weather Response	
5/10/20 18:40	Wet	0.68	11.57	0.02	Modelled	Wet Weather Response	
5/14/20 13:01	Wet	2.30	30.22	1.18	Modelled	Wet Weather Response	
5/17/20 18:05	Wet	1.51	2.15	0.25	Modelled	Wet Weather Response	
5/18/20 15:45	Wet	1.51	10.63	0.25	Modelled	Wet Weather Response	
5/22/20 12:15	Wet	0.46	1.98	0.04	Modelled	Wet Weather Response	
5/29/20 15:15	Wet	0.46	2.15	0.13	Modelled	Wet Weather Response	
6/10/20 19:30	Wet	0.58	1.98	0.40	Modelled	Wet Weather Response	
6/23/20 12:10	Wet	1.07	1.33	0.66	Modelled	Wet Weather Response	
6/26/20 23:30	Wet	1.26	6.83	0.55	Modelled	Wet Weather Response	
7/11/20 1:10	Wet	2.26	8.05	1.01	Modelled	Wet Weather Response	
7/19/20 17:20	Wet	0.41	1.07	0.12	Modelled	Wet Weather Response	

CSO 087						Receiving Water:	Cuyahoga River
Location:	E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/23/20 11:10	Wet	0.67	1.40	0.61	Modelled	Wet Weather Response	
7/27/20 15:10	Wet	1.09	12.16	0.62	Modelled	Wet Weather Response	
8/1/20 20:30	Wet	1.81	1.86	0.06	Modelled	Wet Weather Response	
8/4/20 7:30	Wet	1.81	4.71	0.03	Modelled	Wet Weather Response	
8/16/20 12:15	Wet	0.56	2.07	0.42	Modelled	Wet Weather Response	
8/28/20 9:15	Wet	2.76	21.25	1.58	Modelled	Wet Weather Response	
9/2/20 10:10	Wet	0.45	1.22	0.07	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	8.38	7.30	Modelled	Wet Weather Response	
9/13/20 8:10	Wet	0.39	1.24	0.15	Modelled	Wet Weather Response	
9/28/20 17:15	Wet	1.70	6.04	0.99	Modelled	Wet Weather Response	
10/1/20 19:20	Wet	0.59	8.81	0.05	Modelled	Wet Weather Response	
10/12/20 23:20	Wet	0.69	2.97	0.15	Modelled	Wet Weather Response	
10/21/20 2:15	Wet	3.50	7.65	3.99	Modelled	Wet Weather Response	
10/22/20 5:10	Wet	3.50	1.15	0.03	Modelled	Wet Weather Response	
10/23/20 19:16	Wet	0.59	6.05	0.04	Modelled	Wet Weather Response	
10/24/20 13:15	Dry	0.00	0.25	0.01	Modelled	Debris - Grit, Wood, Grease, Bottles, ect.	Overflow volume calculated using level monitoring equipment at the site.
11/22/20 12:25	Wet	0.74	3.90	0.05	Modelled	Wet Weather Response	
11/30/20 6:55	Wet	2.59	24.13	0.10	Modelled	Wet Weather Response	
12/12/20 15:20	Wet	0.29	1.17	0.03	Modelled	Wet Weather Response	
Totals		**51.45**	**229.81**	**23.54**			

CSO 088						Receiving Water:	Cuyahoga River
Location:	Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 7:00	Wet	0.84	1.08	0.01	Monitored	Wet Weather Response	
1/18/20 15:00	Wet	0.82	2.75	0.03	Monitored	Wet Weather Response	
2/5/20 23:05	Wet	0.26	0.25	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0001 MG
3/3/20 13:45	Wet	0.33	0.75	0.03	Monitored	Wet Weather Response	
3/10/20 10:50	Wet	0.27	0.50	0.01	Monitored	Wet Weather Response	
3/13/20 1:35	Wet	0.30	1.17	0.04	Monitored	Wet Weather Response	
3/18/20 17:25	Wet	1.10	6.17	0.25	Monitored	Wet Weather Response	
3/20/20 7:10	Wet	0.24	0.67	0.04	Monitored	Wet Weather Response	
3/28/20 0:35	Wet	1.47	4.33	0.71	Monitored	Wet Weather Response	
3/29/20 1:00	Wet	1.80	4.75	1.73	Monitored	Wet Weather Response	
4/7/20 10:10	Wet	1.21	1.08	0.46	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.45	2.75	0.24	Monitored	Wet Weather Response	
4/9/20 8:35	Wet	0.36	0.42	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0039 MG
4/19/20 22:20	Wet	0.07	0.33	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0031 MG
4/26/20 4:00	Wet	0.54	1.67	0.03	Monitored	Wet Weather Response	
4/28/20 20:50	Wet	0.32	0.50	0.01	Monitored	Wet Weather Response	
5/10/20 18:55	Wet	0.37	0.92	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
5/11/20 5:50	Wet	0.37	0.58	0.01	Monitored	Wet Weather Response	
5/14/20 12:20	Wet	0.63	1.83	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.

CSO 088						Receiving Water:	Cuyahoga River
Location:	Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/15/20 14:05	Wet	1.95	4.92	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
5/17/20 18:00	Wet	0.58	1.58	0.22	Monitored	Wet Weather Response	
5/18/20 15:55	Wet	1.02	5.25	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
5/19/20 1:20	Wet	0.32	1.17	0.14	Monitored	Wet Weather Response	
5/22/20 12:20	Wet	0.44	1.75	0.09	Monitored	Wet Weather Response	
5/29/20 15:45	Wet	0.53	2.08	0.10	Monitored	Wet Weather Response	
6/10/20 20:05	Wet	0.85	0.92	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
6/22/20 11:05	Wet	0.44	0.75	0.03	Monitored	Wet Weather Response	
6/23/20 12:10	Wet	0.63	0.92	0.37	Monitored	Wet Weather Response	
6/26/20 23:45	Wet	0.12	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0006 MG
6/27/20 0:20	Wet	0.78	1.75	0.28	Monitored	Wet Weather Response	
7/11/20 1:10	Wet	1.15	2.08	0.39	Monitored	Wet Weather Response	
7/19/20 17:30	Wet	0.72	1.00	0.59	Monitored	Wet Weather Response	
7/23/20 11:45	Wet	1.08	1.83	0.60	Monitored	Wet Weather Response	
7/27/20 15:20	Wet	0.97	1.42	0.47	Monitored	Wet Weather Response	
7/28/20 2:10	Wet	0.45	1.08	0.21	Monitored	Wet Weather Response	
7/29/20 23:00	Wet	0.13	0.42	0.01	Monitored	Wet Weather Response	
8/1/20 20:55	Wet	0.66	1.33	0.31	Monitored	Wet Weather Response	
8/16/20 12:30	Wet	0.74	1.42	0.41	Monitored	Wet Weather Response	

CSO 088						Receiving Water:	Cuyahoga River
Location:	Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/17/20 14:15	Wet	0.08	0.42	0.05	Monitored	Wet Weather Response	
8/26/20 10:15	Wet	0.22	0.42	0.04	Monitored	Wet Weather Response	
8/28/20 9:20	Wet	3.18	6.08	2.15	Monitored	Wet Weather Response	
8/29/20 5:30	Wet	0.30	1.08	0.11	Monitored	Wet Weather Response	
9/2/20 10:10	Wet	0.61	1.42	0.12	Monitored	Wet Weather Response	
9/7/20 7:20	Wet	4.55	7.67	5.26	Monitored	Wet Weather Response	
9/13/20 8:45	Wet	0.33	0.67	0.11	Monitored	Wet Weather Response	
9/28/20 17:15	Wet	1.93	4.00	0.85	Monitored	Wet Weather Response	
10/1/20 14:05	Wet	0.74	1.50	0.21	Monitored	Wet Weather Response	
10/2/20 3:50	Wet	0.21	0.58	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0048 MG
10/4/20 18:10	Wet	0.24	0.33	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0016 MG
10/12/20 23:50	Wet	0.34	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0012 MG
10/13/20 0:00	Wet	0.33	1.50	0.28	Monitored	Wet Weather Response	
10/20/20 3:30	Wet	0.36	0.67	0.01	Monitored	Wet Weather Response	
10/21/20 2:45	Wet	2.30	6.67	2.43	Monitored	Wet Weather Response	
10/23/20 19:45	Wet	0.34	0.75	0.07	Monitored	Wet Weather Response	
10/24/20 0:55	Wet	0.19	0.58	0.04	Monitored	Wet Weather Response	
10/29/20 10:35	Wet	0.57	0.50	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0043 MG
10/30/20 2:20	Wet	0.56	2.00	0.11	Monitored	Wet Weather Response	
11/22/20 12:55	Wet	0.84	3.00	0.08	Monitored	Wet Weather Response	

CSO 088						Receiving Water:	Cuyahoga River
Location:	Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
11/30/20 9:55	Wet	1.42	3.50	0.07	Monitored	Wet Weather Response	
12/12/20 15:50	Wet	0.35	0.58	0.08	Monitored	Wet Weather Response	
12/28/20 2:35	Wet	0.10	0.50	0.01	Monitored	Wet Weather Response	
12/30/20 19:45	Wet	0.38	0.58	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0029 MG
Totals		**45.78**	**109.51**	**19.89**			

CSO 089						Receiving Water:	Cuyahoga River
Location:	E of W 3rd St. Pump Station, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:05	Wet	2.82	1.07	0.01	Modelled	Wet Weather Response	
3/29/20 2:05	Wet	2.82	1.26	0.05	Modelled	Wet Weather Response	
4/7/20 23:15	Wet	1.27	1.88	0.02	Modelled	Wet Weather Response	
5/15/20 16:20	Wet	2.30	2.10	0.04	Modelled	Wet Weather Response	
6/23/20 12:10	Wet	1.07	1.14	0.04	Modelled	Wet Weather Response	
6/27/20 0:05	Wet	1.26	1.08	0.02	Modelled	Wet Weather Response	
7/11/20 1:20	Wet	2.26	4.97	0.06	Modelled	Wet Weather Response	

CSO 089						Receiving Water:	Cuyahoga River
Location:	E of W 3rd St. Pump Station, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/23/20 11:15	Wet	0.67	0.98	0.02	Modelled	Wet Weather Response	
7/27/20 15:35	Wet	1.09	1.56	0.01	Modelled	Wet Weather Response	
8/28/20 9:20	Wet	2.76	1.92	0.04	Modelled	Wet Weather Response	
8/29/20 5:10	Wet	2.76	0.99	0.01	Modelled	Wet Weather Response	
9/7/20 7:15	Wet	3.43	6.06	0.35	Modelled	Wet Weather Response	
9/28/20 17:45	Wet	1.70	2.36	0.04	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	4.14	0.20	Modelled	Wet Weather Response	
Totals		**29.71**	**31.52**	**0.90**			

CSO 091						Receiving Water:	Cuyahoga River
Location:	Old River Rd. & Main Ave. on E side of river, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 092						Receiving Water:	Cuyahoga River
Location:	Intersection of Old River Rd. & Front Ave. at Cuyahoga River, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Wendy Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:10	Wet	3.43	0.91	0.08	Modelled	Wet Weather Response	
Totals		**3.43**	**0.91**	**0.08**			

CSO 093						Receiving Water:	Lake Erie
Location:	N of Municipal Stadium, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:05	Wet	3.43	1.17	0.88	Modelled	Wet Weather Response	
10/21/20 4:05	Wet	3.50	1.15	0.18	Modelled	Wet Weather Response	
Totals		**6.93**	**2.32**	**1.07**			

CSO 094						Receiving Water:	Lake Erie
Location:	N of E 12th St. & Lakeside Ave. at USS COD, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:03	Wet	1.43	4.18	0.03	Modelled	Wet Weather Response	
3/28/20 5:20	Wet	2.82	2.24	1.24	Modelled	Wet Weather Response	
3/29/20 0:40	Wet	2.82	3.00	3.04	Modelled	Wet Weather Response	
4/7/20 23:20	Wet	1.27	2.06	1.52	Modelled	Wet Weather Response	
5/14/20 18:25	Wet	2.30	0.91	0.27	Modelled	Wet Weather Response	
5/15/20 14:20	Wet	2.30	4.74	2.74	Modelled	Wet Weather Response	
5/17/20 18:20	Wet	1.51	1.08	0.35	Modelled	Wet Weather Response	
5/18/20 18:20	Wet	1.51	7.91	0.69	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	0.91	0.21	Modelled	Wet Weather Response	
6/10/20 19:45	Wet	0.58	1.66	0.58	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.41	1.67	Modelled	Wet Weather Response	
6/26/20 23:25	Wet	1.26	5.74	1.47	Modelled	Wet Weather Response	
7/11/20 1:15	Wet	2.26	5.33	2.89	Modelled	Wet Weather Response	
7/19/20 17:40	Wet	0.41	0.58	0.06	Modelled	Wet Weather Response	
7/23/20 11:30	Wet	0.67	0.92	0.56	Modelled	Wet Weather Response	
7/27/20 15:35	Wet	1.09	10.71	0.80	Modelled	Wet Weather Response	
8/16/20 12:15	Wet	0.56	1.33	1.36	Modelled	Wet Weather Response	
8/28/20 9:30	Wet	2.76	21.00	3.32	Modelled	Wet Weather Response	
9/2/20 10:40	Wet	0.45	0.49	0.01	Modelled	Wet Weather Response	
9/7/20 7:15	Wet	3.43	6.83	18.04	Modelled	Wet Weather Response	

CSO 094						Receiving Water:	Lake Erie
Location:	N of E 12th St. & Lakeside Ave. at USS COD, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/13/20 8:25	Wet	0.39	0.92	0.32	Modelled	Wet Weather Response	
9/28/20 17:20	Wet	1.70	3.07	2.79	Modelled	Wet Weather Response	
10/1/20 19:35	Wet	0.59	0.67	0.08	Modelled	Wet Weather Response	
10/12/20 23:25	Wet	0.69	1.08	0.48	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	4.50	11.96	Modelled	Wet Weather Response	
Totals		**37.83**	**93.29**	**56.48**			

CSO 095						Receiving Water:	Lake Erie
Location:	N of E 20th St. & Lakeside Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:15	Wet	2.82	0.92	0.13	Modelled	Wet Weather Response	
3/29/20 2:10	Wet	2.82	1.17	1.19	Modelled	Wet Weather Response	
4/7/20 23:25	Wet	1.27	0.92	0.43	Modelled	Wet Weather Response	
5/15/20 16:31	Wet	2.30	1.81	0.64	Modelled	Wet Weather Response	
6/10/20 20:25	Wet	0.58	0.72	0.02	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	1.00	0.79	Modelled	Wet Weather Response	
6/27/20 0:10	Wet	1.26	1.08	0.38	Modelled	Wet Weather Response	
7/11/20 1:25	Wet	2.26	4.91	1.09	Modelled	Wet Weather Response	
7/23/20 11:30	Wet	0.67	0.75	0.20	Modelled	Wet Weather Response	
7/27/20 16:20	Wet	1.09	0.83	0.05	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	0.83	0.48	Modelled	Wet Weather Response	
8/28/20 9:35	Wet	2.76	1.58	0.26	Modelled	Wet Weather Response	
8/29/20 5:20	Wet	2.76	0.92	0.50	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	4.58	11.02	Modelled	Wet Weather Response	
9/28/20 17:40	Wet	1.70	1.66	0.87	Modelled	Wet Weather Response	
10/21/20 3:15	Wet	3.50	3.25	7.24	Modelled	Wet Weather Response	
Totals		**30.85**	**26.94**	**25.29**			

CSO 096						Receiving Water:	Lake Erie
Location:	N of E 26th St. & Lakeside Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:05	Wet	1.43	4.57	0.13	Modelled	Wet Weather Response	
3/20/20 7:25	Wet	1.43	1.08	0.14	Modelled	Wet Weather Response	
3/28/20 5:30	Wet	2.82	2.16	0.62	Modelled	Wet Weather Response	
3/29/20 0:55	Wet	2.82	2.90	1.15	Modelled	Wet Weather Response	
4/7/20 23:25	Wet	1.27	2.47	0.85	Modelled	Wet Weather Response	
5/14/20 18:35	Wet	2.30	0.91	0.14	Modelled	Wet Weather Response	
5/15/20 14:25	Wet	2.30	4.82	1.30	Modelled	Wet Weather Response	
5/17/20 18:20	Wet	1.51	1.58	0.36	Modelled	Wet Weather Response	
5/18/20 18:25	Wet	1.51	7.99	0.35	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	1.47	0.18	Modelled	Wet Weather Response	
6/10/20 19:55	Wet	0.58	1.74	0.53	Modelled	Wet Weather Response	
6/23/20 12:20	Wet	1.07	1.41	0.80	Modelled	Wet Weather Response	
6/27/20 0:00	Wet	1.26	6.33	0.75	Modelled	Wet Weather Response	
7/11/20 1:25	Wet	2.26	5.33	1.56	Modelled	Wet Weather Response	
7/19/20 17:45	Wet	0.41	0.75	0.08	Modelled	Wet Weather Response	
7/23/20 11:20	Wet	0.67	1.41	0.68	Modelled	Wet Weather Response	
7/27/20 15:30	Wet	1.09	11.91	0.91	Modelled	Wet Weather Response	
8/1/20 21:10	Wet	1.81	1.16	0.04	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	1.83	0.52	Modelled	Wet Weather Response	
8/28/20 9:25	Wet	2.76	21.25	1.69	Modelled	Wet Weather Response	

CSO 096						Receiving Water:	Lake Erie
Location:	N of E 26th St. & Lakeside Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/2/20 10:35	Wet	0.45	0.83	0.08	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	6.83	6.51	Modelled	Wet Weather Response	
9/13/20 8:25	Wet	0.39	1.16	0.23	Modelled	Wet Weather Response	
9/28/20 17:30	Wet	1.70	3.31	1.24	Modelled	Wet Weather Response	
10/1/20 19:50	Wet	0.59	0.58	0.03	Modelled	Wet Weather Response	
10/12/20 23:40	Wet	0.69	2.22	0.20	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	4.50	3.93	Modelled	Wet Weather Response	
Totals		**41.07**	**102.50**	**24.98**			

CSO 097						Receiving Water:	Lake Erie
Location:	N of I-71 & I-90, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20 2:35	Wet	0.73	7.72	0.04	Modelled	Wet Weather Response	
3/3/20 13:05	Wet	0.45	1.15	0.03	Modelled	Wet Weather Response	
3/13/20 1:05	Wet	0.29	1.23	0.03	Modelled	Wet Weather Response	
3/18/20 17:05	Wet	1.43	6.24	0.24	Modelled	Wet Weather Response	
3/20/20 6:30	Wet	1.43	1.83	0.10	Modelled	Wet Weather Response	
3/28/20 0:31	Wet	2.82	7.54	0.48	Modelled	Wet Weather Response	
3/29/20 0:15	Wet	2.82	11.99	0.83	Modelled	Wet Weather Response	
4/7/20 23:05	Wet	1.27	3.24	0.50	Modelled	Wet Weather Response	
4/26/20 3:04	Wet	0.55	2.25	0.04	Modelled	Wet Weather Response	
5/10/20 18:25	Wet	0.68	11.80	0.03	Modelled	Wet Weather Response	
5/14/20 12:20	Wet	2.30	31.06	1.12	Modelled	Wet Weather Response	
5/17/20 17:40	Wet	1.51	2.52	0.18	Modelled	Wet Weather Response	
5/18/20 15:22	Wet	1.51	11.01	0.38	Modelled	Wet Weather Response	
5/22/20 12:05	Wet	0.46	2.08	0.05	Modelled	Wet Weather Response	
5/29/20 15:10	Wet	0.46	2.15	0.14	Modelled	Wet Weather Response	
6/10/20 19:15	Wet	0.58	2.15	0.26	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.66	0.42	Modelled	Wet Weather Response	
6/26/20 23:20	Wet	1.26	7.08	0.55	Modelled	Wet Weather Response	
7/11/20 1:05	Wet	2.26	8.16	0.96	Modelled	Wet Weather Response	
7/19/20 17:15	Wet	0.41	1.08	0.09	Modelled	Wet Weather Response	

CSO 097						Receiving Water:	Lake Erie
Location:	N of I-71 & I-90, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/23/20 11:05	Wet	0.67	1.57	0.31	Modelled	Wet Weather Response	
7/27/20 15:05	Wet	1.09	12.33	0.58	Modelled	Wet Weather Response	
8/1/20 20:15	Wet	1.81	2.07	0.08	Modelled	Wet Weather Response	
8/4/20 7:20	Wet	1.81	4.82	0.05	Modelled	Wet Weather Response	
8/16/20 12:10	Wet	0.56	2.08	0.24	Modelled	Wet Weather Response	
8/26/20 10:30	Wet	0.32	0.88	0.02	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	21.65	1.21	Modelled	Wet Weather Response	
9/2/20 10:00	Wet	0.45	1.31	0.08	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.29	3.58	Modelled	Wet Weather Response	
9/13/20 8:01	Wet	0.39	1.31	0.14	Modelled	Wet Weather Response	
9/28/20 17:05	Wet	1.70	6.24	0.85	Modelled	Wet Weather Response	
10/1/20 19:11	Wet	0.59	8.94	0.07	Modelled	Wet Weather Response	
10/4/20 17:21	Wet	0.25	1.04	0.02	Modelled	Wet Weather Response	
10/12/20 23:15	Wet	0.69	2.99	0.16	Modelled	Wet Weather Response	
10/21/20 2:01	Wet	3.50	7.22	2.24	Modelled	Wet Weather Response	
10/22/20 5:00	Wet	3.50	1.23	0.03	Modelled	Wet Weather Response	
10/23/20 19:01	Wet	0.59	6.23	0.06	Modelled	Wet Weather Response	
11/22/20 12:15	Wet	0.74	4.05	0.06	Modelled	Wet Weather Response	
11/30/20 6:20	Wet	2.59	24.98	0.21	Modelled	Wet Weather Response	
12/12/20 15:15	Wet	0.29	1.15	0.04	Modelled	Wet Weather Response	
Totals		**52.02**	**243.33**	**16.51**			

CSO 098						Receiving Water:	Lake Erie
Location:	N of E 33rd St. & Lakeside Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:35	Wet	2.82	1.91	0.46	Modelled	Wet Weather Response	
3/29/20 2:05	Wet	2.82	1.50	0.99	Modelled	Wet Weather Response	
4/7/20 23:20	Wet	1.27	2.08	0.58	Modelled	Wet Weather Response	
5/14/20 18:35	Wet	2.30	0.67	0.06	Modelled	Wet Weather Response	
5/15/20 14:45	Wet	2.30	4.16	1.16	Modelled	Wet Weather Response	
5/17/20 18:20	Wet	1.51	1.00	0.14	Modelled	Wet Weather Response	
5/18/20 18:25	Wet	1.51	7.72	0.19	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	0.75	0.05	Modelled	Wet Weather Response	
6/10/20 20:05	Wet	0.58	1.25	0.34	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	1.25	0.63	Modelled	Wet Weather Response	
6/27/20 0:05	Wet	1.26	6.07	0.48	Modelled	Wet Weather Response	
7/11/20 1:20	Wet	2.26	5.25	1.35	Modelled	Wet Weather Response	
7/19/20 17:40	Wet	0.41	0.58	0.04	Modelled	Wet Weather Response	
7/23/20 11:20	Wet	0.67	1.08	0.49	Modelled	Wet Weather Response	
7/27/20 15:30	Wet	1.09	11.64	0.43	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	1.08	0.33	Modelled	Wet Weather Response	
8/28/20 9:20	Wet	2.76	21.08	1.21	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	6.33	6.88	Modelled	Wet Weather Response	
9/13/20 8:30	Wet	0.39	0.82	0.10	Modelled	Wet Weather Response	
9/28/20 17:30	Wet	1.70	2.92	1.03	Modelled	Wet Weather Response	

CSO 098						Receiving Water:	Lake Erie
Location:	N of E 33rd St. & Lakeside Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/12/20 23:45	Wet	0.69	0.65	0.03	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	4.25	4.09	Modelled	Wet Weather Response	
Totals		**35.36**	**84.03**	**21.04**			

CSO 099						Receiving Water:	Lake Erie
Location:	N of E 38th St. & King Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 9:00	Wet	3.43	2.67	2.91	Modelled	Wet Weather Response	
10/21/20 4:10	Wet	3.50	2.08	1.60	Modelled	Wet Weather Response	
Totals		**6.93**	**4.75**	**4.51**			

CSO 200						Receiving Water:	Lake Erie
Location:	N of E 40th St. & King Ave., N of Aviation High School, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Lakeside Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/4/20 1:50	Wet	0.26	0.92	0.04	Monitored	Wet Weather Response	
1/10/20 2:15	Wet	0.80	7.25	0.76	Monitored	Wet Weather Response	
1/18/20 10:15	Wet	0.68	8.75	0.68	Monitored	Wet Weather Response	
1/24/20 11:55	Wet	0.35	3.58	0.22	Monitored	Wet Weather Response	
1/25/20 5:30	Wet	0.22	1.25	0.08	Monitored	Wet Weather Response	
2/5/20 22:45	Wet	0.23	1.17	0.04	Monitored	Wet Weather Response	
2/6/20 0:00	Wet	0.03	0.25	0.01	Monitored	Wet Weather Response	
2/10/20 4:25	Wet	0.13	2.33	0.17	Monitored	Wet Weather Response	
2/18/20 1:45	Wet	0.18	2.08	0.12	Monitored	Wet Weather Response	
2/24/20 23:05	Wet	0.15	0.83	0.05	Monitored	Wet Weather Response	
2/25/20 0:00	Wet	0.13	1.83	0.07	Monitored	Wet Weather Response	
3/3/20 7:35	Wet	0.31	2.92	0.28	Monitored	Wet Weather Response	
3/10/20 10:35	Wet	0.24	1.67	0.18	Monitored	Wet Weather Response	
3/13/20 1:00	Wet	0.28	2.00	0.31	Monitored	Wet Weather Response	
3/18/20 17:10	Wet	0.96	6.83	2.05	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.13	1.00	0.06	Monitored	Wet Weather Response	
3/20/20 7:10	Wet	0.42	1.33	0.57	Monitored	Wet Weather Response	
3/22/20 22:50	Wet	0.13	0.83	0.04	Monitored	Wet Weather Response	
3/26/20 22:15	Wet	0.22	1.75	0.05	Monitored	Wet Weather Response	
3/27/20 0:00	Wet	0.12	2.42	0.16	Monitored	Wet Weather Response	
3/28/20 0:55	Wet	1.20	7.50	2.99	Monitored	Wet Weather Response	

CSO 200						Receiving Water:	Lake Erie
Location:	N of E 40th St. & King Ave., N of Aviation High School, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Lakeside Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 0:50	Wet	1.24	5.00	6.21	Monitored	Wet Weather Response	
4/7/20 23:30	Wet	0.72	0.50	0.34	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.38	2.83	2.14	Monitored	Wet Weather Response	
4/9/20 7:25	Wet	0.32	2.75	0.20	Monitored	Wet Weather Response	
4/13/20 1:45	Wet	0.29	2.33	0.05	Monitored	Wet Weather Response	
4/15/20 17:25	Wet	0.10	1.08	0.06	Monitored	Wet Weather Response	
4/17/20 14:15	Wet	0.35	2.42	0.02	Monitored	Wet Weather Response	
4/21/20 3:25	Wet	0.13	1.17	0.04	Monitored	Wet Weather Response	
4/26/20 3:15	Wet	0.51	3.08	0.38	Monitored	Wet Weather Response	
4/29/20 0:05	Wet	0.08	0.08	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0012 MG
4/30/20 12:00	Wet	0.17	1.25	0.14	Monitored	Wet Weather Response	
5/2/20 21:50	Wet	0.09	0.75	0.07	Monitored	Wet Weather Response	
5/10/20 18:50	Wet	0.35	2.50	0.32	Monitored	Wet Weather Response	
5/11/20 5:35	Wet	0.27	2.17	0.11	Monitored	Wet Weather Response	
5/14/20 12:30	Wet	0.50	2.25	0.96	Monitored	Wet Weather Response	
5/15/20 3:15	Wet	1.63	8.00	5.50	Monitored	Wet Weather Response	
5/17/20 18:10	Wet	0.61	2.67	1.58	Monitored	Wet Weather Response	
5/18/20 11:35	Wet	0.94	6.33	2.86	Monitored	Wet Weather Response	
5/19/20 1:45	Wet	0.29	1.33	1.00	Monitored	Wet Weather Response	
5/22/20 12:10	Wet	0.41	2.67	0.68	Monitored	Wet Weather Response	
5/25/20 17:30	Wet	0.03	1.42	0.98	Monitored	Wet Weather Response	

CSO 200						Receiving Water:	Lake Erie
Location:	N of E 40th St. & King Ave., N of Aviation High School, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Lakeside Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/28/20 9:15	Wet	0.13	1.17	0.12	Monitored	Wet Weather Response	
5/29/20 15:30	Wet	0.54	2.83	1.11	Monitored	Wet Weather Response	
6/10/20 20:05	Wet	0.69	1.67	2.03	Monitored	Wet Weather Response	
6/22/20 11:05	Wet	0.30	2.25	0.12	Monitored	Wet Weather Response	
6/23/20 12:10	Wet	0.76	1.75	3.01	Monitored	Wet Weather Response	
6/26/20 23:40	Wet	0.23	0.17	0.01	Monitored	Wet Weather Response	
6/27/20 0:00	Wet	1.11	5.42	4.20	Monitored	Wet Weather Response	
7/10/20 14:30	Wet	0.05	1.75	0.78	Monitored	Wet Weather Response	
7/11/20 1:20	Wet	1.68	6.83	4.88	Monitored	Wet Weather Response	
7/16/20 15:10	Wet	0.07	1.08	0.04	Monitored	Wet Weather Response	
7/19/20 14:00	Wet	0.30	2.00	0.98	Monitored	Wet Weather Response	
7/22/20 5:00	Wet	0.20	1.58	0.14	Monitored	Wet Weather Response	
7/23/20 12:00	Wet	0.74	0.67	0.09	Monitored	Wet Weather Response	
7/27/20 15:00	Wet	0.93	3.67	1.60	Monitored	Wet Weather Response	
7/28/20 1:55	Wet	0.45	1.67	0.43	Monitored	Wet Weather Response	
8/1/20 17:55	Wet	0.45	2.83	0.75	Monitored	Wet Weather Response	
8/2/20 16:50	Wet	0.13	0.42	0.01	Monitored	Wet Weather Response	
8/3/20 14:00	Wet	0.12	2.25	0.12	Monitored	Wet Weather Response	
8/4/20 7:05	Wet	0.37	1.92	0.56	Monitored	Wet Weather Response	
8/16/20 12:30	Wet	0.69	2.33	1.86	Monitored	Wet Weather Response	
8/17/20 15:55	Wet	0.11	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0015 MG

CSO 200						Receiving Water:	Lake Erie
Location:	N of E 40th St. & King Ave., N of Aviation High School, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Lakeside Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/26/20 11:05	Wet	0.24	2.25	0.67	Monitored	Wet Weather Response	
8/28/20 8:05	Wet	1.72	8.58	2.67	Monitored	Wet Weather Response	
8/29/20 5:15	Wet	0.64	2.00	2.28	Monitored	Wet Weather Response	
9/2/20 10:25	Wet	0.43	1.33	0.44	Monitored	Wet Weather Response	
9/7/20 7:15	Wet	3.72	7.50	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
9/13/20 8:35	Wet	0.44	1.42	0.38	Monitored	Wet Weather Response	
9/28/20 17:15	Wet	1.51	6.58	3.53	Monitored	Wet Weather Response	
10/1/20 19:40	Wet	0.32	1.50	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
10/2/20 3:20	Wet	0.25	1.58	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
10/4/20 17:50	Wet	0.24	1.50	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
10/12/20 23:35	Wet	0.31	0.42	0.06	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.33	2.50	1.57	Monitored	Wet Weather Response	
10/18/20 15:15	Wet	0.07	0.42	0.03	Monitored	Wet Weather Response	
10/19/20 5:10	Wet	0.59	5.58	0.41	Monitored	Wet Weather Response	
10/20/20 2:45	Wet	0.33	2.58	0.33	Monitored	Wet Weather Response	
10/21/20 2:05	Wet	2.57	7.33	12.65	Monitored	Wet Weather Response	
10/22/20 4:10	Wet	0.28	2.50	0.92	Monitored	Wet Weather Response	
10/23/20 18:50	Wet	0.31	2.92	0.60	Monitored	Wet Weather Response	
10/24/20 0:45	Wet	0.17	1.33	0.38	Monitored	Wet Weather Response	

CSO 200						Receiving Water:	Lake Erie
Location:	N of E 40th St. & King Ave., N of Aviation High School, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Lakeside Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/27/20 18:35	Wet	0.22	1.17	0.06	Monitored	Wet Weather Response	
10/29/20 8:30	Wet	0.50	5.00	0.35	Monitored	Wet Weather Response	
10/30/20 0:40	Wet	0.38	4.08	0.30	Monitored	Wet Weather Response	
11/1/20 8:35	Wet	0.12	0.67	0.03	Monitored	Wet Weather Response	
11/15/20 2:25	Wet	0.35	2.33	0.11	Monitored	Wet Weather Response	
11/17/20 7:35	Wet	0.14	0.42	0.01	Monitored	Wet Weather Response	
11/22/20 9:10	Wet	0.72	6.17	0.64	Monitored	Wet Weather Response	
11/25/20 12:35	Wet	0.39	2.67	0.13	Monitored	Wet Weather Response	
11/26/20 0:00	Wet	0.12	2.50	0.15	Monitored	Wet Weather Response	
11/30/20 6:45	Wet	1.08	9.42	0.54	Monitored	Wet Weather Response	
12/1/20 0:20	Wet	1.40	2.17	0.13	Monitored	Wet Weather Response	
12/12/20 15:50	Wet	0.34	1.58	0.24	Monitored	Wet Weather Response	
12/20/20 0:10	Wet	0.05	1.67	0.07	Monitored	Wet Weather Response	
12/21/20 21:30	Wet	0.06	0.58	0.02	Monitored	Wet Weather Response	
12/27/20 23:10	Wet	0.08	0.42	0.02	Monitored	Wet Weather Response	
12/28/20 0:00	Wet	0.07	5.42	0.26	Monitored	Wet Weather Response	
12/30/20 15:05	Wet	0.33	4.00	0.22	Monitored	Wet Weather Response	
Totals		**47.45**	**265.59**	**85.63**			

CSO 201						Receiving Water:	Lake Erie
Location:	Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Forest City Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 3:00	Wet	1.09	20.51	0.37	Modelled	Wet Weather Response	
1/18/20 7:10	Wet	0.73	5.21	0.94	Modelled	Wet Weather Response	
1/24/20 13:00	Wet	0.59	18.46	0.13	Modelled	Wet Weather Response	
2/5/20 22:22	Wet	0.56	1.74	0.14	Modelled	Wet Weather Response	
2/12/20 22:25	Wet	0.37	2.43	0.09	Modelled	Wet Weather Response	
3/3/20 13:25	Wet	0.45	2.06	0.26	Modelled	Wet Weather Response	
3/10/20 10:50	Wet	0.28	1.89	0.10	Modelled	Wet Weather Response	
3/13/20 1:41	Wet	0.29	2.18	0.18	Modelled	Wet Weather Response	
3/18/20 17:31	Wet	1.43	6.72	1.84	Modelled	Wet Weather Response	
3/20/20 7:15	Wet	1.43	1.99	0.40	Modelled	Wet Weather Response	
3/26/20 22:41	Wet	0.35	4.06	0.21	Modelled	Wet Weather Response	
3/28/20 1:20	Wet	2.82	8.15	1.61	Modelled	Wet Weather Response	
3/29/20 0:35	Wet	2.82	12.73	2.84	Modelled	Wet Weather Response	
4/7/20 23:26	Wet	1.27	3.68	1.33	Modelled	Wet Weather Response	
4/9/20 8:06	Wet	1.27	2.35	0.07	Modelled	Wet Weather Response	
4/13/20 8:45	Wet	0.43	2.71	0.06	Modelled	Wet Weather Response	
4/17/20 14:25	Wet	0.34	3.05	0.06	Modelled	Wet Weather Response	
4/26/20 3:55	Wet	0.55	3.57	0.27	Modelled	Wet Weather Response	
4/30/20 11:30	Wet	0.50	2.41	0.41	Modelled	Wet Weather Response	
5/10/20 19:30	Wet	0.68	13.14	0.39	Modelled	Wet Weather Response	

CSO 201						Receiving Water:	Lake Erie
Location:	Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Forest City Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/14/20 18:25	Wet	2.30	26.15	3.16	Modelled	Wet Weather Response	
5/17/20 18:20	Wet	1.51	2.73	0.68	Modelled	Wet Weather Response	
5/18/20 16:40	Wet	1.51	5.98	0.83	Modelled	Wet Weather Response	
5/22/20 11:53	Wet	0.46	3.43	0.75	Modelled	Wet Weather Response	
5/28/20 9:46	Wet	0.18	0.93	0.01	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	3.24	0.61	Modelled	Wet Weather Response	
6/10/20 20:15	Wet	0.58	2.64	1.22	Modelled	Wet Weather Response	
6/22/20 13:00	Wet	1.07	1.81	0.09	Modelled	Wet Weather Response	
6/23/20 12:15	Wet	1.07	2.46	1.21	Modelled	Wet Weather Response	
6/26/20 23:30	Wet	1.26	7.74	2.62	Modelled	Wet Weather Response	
7/10/20 16:15	Wet	2.26	18.48	5.51	Modelled	Wet Weather Response	
7/19/20 17:25	Wet	0.41	1.96	0.50	Modelled	Wet Weather Response	
7/22/20 5:41	Wet	0.67	1.42	0.05	Modelled	Wet Weather Response	
7/27/20 15:10	Wet	1.09	12.66	0.98	Modelled	Wet Weather Response	
8/1/20 21:25	Wet	1.81	2.15	0.40	Modelled	Wet Weather Response	
8/2/20 16:52	Wet	1.81	0.95	0.02	Modelled	Wet Weather Response	
8/3/20 13:40	Wet	1.81	4.16	0.52	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	2.65	2.01	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	3.07	1.13	Modelled	Wet Weather Response	
8/26/20 11:25	Wet	0.32	2.49	0.34	Modelled	Wet Weather Response	

CSO 201						Receiving Water:	Lake Erie
Location:	Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Forest City Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/28/20 8:40	Wet	2.76	23.32	4.03	Modelled	Wet Weather Response	
9/2/20 10:30	Wet	0.45	1.80	0.37	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	7.91	7.55	Modelled	Wet Weather Response	
9/13/20 8:20	Wet	0.39	2.22	0.57	Modelled	Wet Weather Response	
9/28/20 17:25	Wet	1.70	6.90	3.53	Modelled	Wet Weather Response	
10/1/20 19:30	Wet	0.59	9.57	0.65	Modelled	Wet Weather Response	
10/4/20 18:05	Wet	0.25	2.24	0.17	Modelled	Wet Weather Response	
10/12/20 23:35	Wet	0.69	3.91	1.36	Modelled	Wet Weather Response	
10/19/20 5:35	Wet	3.50	5.64	0.35	Modelled	Wet Weather Response	
10/20/20 2:25	Wet	3.50	9.43	0.22	Modelled	Wet Weather Response	
10/21/20 2:20	Wet	3.50	7.90	6.66	Modelled	Wet Weather Response	
10/22/20 4:25	Wet	3.50	2.80	0.72	Modelled	Wet Weather Response	
10/23/20 19:05	Wet	0.59	7.63	0.71	Modelled	Wet Weather Response	
10/26/20 20:35	Wet	1.60	1.15	0.03	Modelled	Wet Weather Response	
10/27/20 18:35	Wet	1.60	1.23	0.03	Modelled	Wet Weather Response	
10/29/20 8:54	Wet	1.60	22.99	0.75	Modelled	Wet Weather Response	
11/15/20 9:31	Wet	0.35	5.50	0.14	Modelled	Wet Weather Response	
11/22/20 9:45	Wet	0.74	8.23	0.90	Modelled	Wet Weather Response	
11/25/20 13:05	Wet	0.65	17.01	0.37	Modelled	Wet Weather Response	
11/30/20 8:55	Wet	2.59	30.53	2.36	Modelled	Wet Weather Response	

CSO 201						Receiving Water:	Lake Erie
Location:	Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Forest City Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
12/12/20 15:40	Wet	0.29	1.91	0.17	Modelled	Wet Weather Response	
12/24/20 17:13	Wet	0.72	13.24	0.21	Modelled	Wet Weather Response	
12/30/20 19:35	Wet	0.13	2.81	0.12	Modelled	Wet Weather Response	
Totals		**76.32**	**422.02**	**66.30**			

CSO 202						Receiving Water:	Lake Erie
Location:	E 55th St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 55th St. Marina			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/10/20 10:35	Wet	0.26	0.17	0.02	Monitored	Wet Weather Response	
3/13/20 1:55	Wet	0.26	0.42	0.02	Monitored	Wet Weather Response	
3/18/20 21:30	Wet	0.98	0.50	0.05	Monitored	Wet Weather Response	
3/20/20 7:10	Wet	0.27	0.75	0.40	Monitored	Wet Weather Response	
3/28/20 5:25	Wet	1.07	2.50	1.78	Monitored	Wet Weather Response	
3/29/20 0:55	Wet	1.51	4.17	6.12	Monitored	Wet Weather Response	
4/7/20 23:35	Wet	0.44	0.42	0.06	Monitored	Wet Weather Response	
4/8/20 0:00	Wet	0.36	1.67	1.63	Monitored	Wet Weather Response	

CSO 202						Receiving Water:	Lake Erie
Location:	E 55th St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 55th St. Marina			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/30/20 11:55	Wet	0.34	0.50	0.14	Monitored	Wet Weather Response	
5/14/20 18:25	Wet	0.44	1.00	0.71	Monitored	Wet Weather Response	
5/15/20 3:25	Wet	1.50	3.83	3.72	Monitored	Wet Weather Response	
5/17/20 18:25	Wet	0.46	1.25	0.83	Monitored	Wet Weather Response	
5/18/20 16:00	Wet	0.64	2.17	0.66	Monitored	Wet Weather Response	
5/19/20 2:00	Wet	0.10	0.33	0.07	Monitored	Wet Weather Response	
5/22/20 12:15	Wet	0.54	0.17	0.01	Monitored	Wet Weather Response	
5/25/20 17:40	Wet	0.07	0.83	0.21	Monitored	Wet Weather Response	
5/29/20 15:40	Wet	0.43	1.08	0.40	Monitored	Wet Weather Response	
6/10/20 20:10	Wet	0.75	1.25	1.95	Monitored	Wet Weather Response	
6/23/20 12:15	Wet	0.75	1.17	2.81	Monitored	Wet Weather Response	
6/26/20 23:55	Wet	0.32	0.08	0.03	Monitored	Wet Weather Response	
6/27/20 0:00	Wet	1.15	2.33	3.58	Monitored	Wet Weather Response	
7/10/20 14:25	Wet	0.89	1.25	1.28	Monitored	Wet Weather Response	
7/11/20 1:25	Wet	2.01	3.92	6.19	Monitored	Wet Weather Response	
7/16/20 15:15	Wet	0.05	0.33	0.03	Monitored	Wet Weather Response	
7/19/20 14:05	Wet	0.40	1.75	0.80	Monitored	Wet Weather Response	
7/22/20 5:25	Wet	0.20	0.58	0.05	Monitored	Wet Weather Response	
7/27/20 15:15	Wet	0.49	1.92	0.62	Monitored	Wet Weather Response	
7/28/20 1:55	Wet	0.25	0.67	0.07	Monitored	Wet Weather Response	
8/1/20 18:00	Wet	0.37	1.00	0.08	Monitored	Wet Weather Response	

CSO 202						Receiving Water:	Lake Erie
Location:	E 55th St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 55th St. Marina			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/2/20 16:45	Wet	0.16	0.33	0.05	Monitored	Wet Weather Response	
8/3/20 14:00	Wet	0.41	1.08	0.22	Monitored	Wet Weather Response	
8/4/20 7:10	Wet	1.14	1.25	1.44	Monitored	Wet Weather Response	
8/16/20 12:40	Wet	0.67	1.50	1.93	Monitored	Wet Weather Response	
8/17/20 16:05	Wet	0.03	0.17	0.01	Monitored	Wet Weather Response	
8/26/20 11:15	Wet	0.32	0.75	0.49	Monitored	Wet Weather Response	
8/28/20 8:05	Wet	1.30	3.08	1.44	Monitored	Wet Weather Response	
8/29/20 5:20	Wet	0.92	1.25	1.84	Monitored	Wet Weather Response	
9/2/20 10:30	Wet	0.35	0.25	0.02	Monitored	Wet Weather Response	
9/7/20 7:10	Wet	3.25	6.92	21.65	Monitored	Wet Weather Response	
9/13/20 8:55	Wet	0.41	0.92	0.39	Monitored	Wet Weather Response	
9/28/20 17:15	Wet	1.91	3.33	3.40	Monitored	Wet Weather Response	
10/1/20 19:50	Wet	0.37	0.83	0.45	Monitored	Wet Weather Response	
10/2/20 3:45	Wet	0.23	0.17	0.02	Monitored	Wet Weather Response	
10/12/20 23:30	Wet	0.30	0.42	0.03	Monitored	Wet Weather Response	
10/13/20 0:00	Wet	0.45	1.50	1.41	Monitored	Wet Weather Response	
10/21/20 3:25	Wet	2.77	4.42	29.03	Monitored	Wet Weather Response	
10/22/20 4:35	Wet	0.44	0.50	0.07	Monitored	Wet Weather Response	
10/23/20 18:55	Wet	0.39	1.17	0.33	Monitored	Wet Weather Response	
12/12/20 16:00	Wet	0.28	0.25	0.02	Monitored	Wet Weather Response	
Totals		**33.40**	**68.10**	**98.56**			

CSO 203						Receiving Water:	Lake Erie
Location:	E of E 55th St., N of Cleveland Lakefront State Park Marina, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 55th St. Marina			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 6:20	Wet	2.82	1.16	0.12	Modelled	Wet Weather Response	
3/29/20 2:05	Wet	2.82	1.91	3.01	Modelled	Wet Weather Response	
4/8/20 0:05	Wet	1.27	1.42	0.38	Modelled	Wet Weather Response	
5/15/20 17:00	Wet	2.30	1.83	0.74	Modelled	Wet Weather Response	
6/10/20 20:35	Wet	0.58	1.25	1.07	Modelled	Wet Weather Response	
6/23/20 12:35	Wet	1.07	1.25	1.09	Modelled	Wet Weather Response	
6/27/20 0:15	Wet	1.26	1.50	1.11	Modelled	Wet Weather Response	
7/10/20 16:30	Wet	2.26	15.58	4.33	Modelled	Wet Weather Response	
8/4/20 7:25	Wet	1.81	1.50	2.86	Modelled	Wet Weather Response	
8/16/20 12:50	Wet	0.56	1.08	0.32	Modelled	Wet Weather Response	
8/28/20 9:35	Wet	2.76	1.08	0.38	Modelled	Wet Weather Response	
8/29/20 5:30	Wet	2.76	1.42	2.11	Modelled	Wet Weather Response	
9/7/20 7:40	Wet	3.43	5.92	12.89	Modelled	Wet Weather Response	
9/28/20 18:05	Wet	1.70	3.00	4.07	Modelled	Wet Weather Response	
10/21/20 3:25	Wet	3.50	4.08	10.73	Modelled	Wet Weather Response	
Totals		**30.90**	**43.97**	**45.22**			

CSO 204						Receiving Water:	Lake Erie
Location:	Gordon Park W of E 72nd St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 72nd Fishing Area			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/3/20 22:25	Wet	0.45	5.01	0.02	Modelled	Wet Weather Response	
1/4/20 17:58	Wet	0.45	1.70	0.01	Modelled	Wet Weather Response	
1/10/20 1:33	Wet	1.09	44.10	0.25	Modelled	Wet Weather Response	
1/18/20 2:15	Wet	0.73	15.21	1.16	Modelled	Wet Weather Response	
1/24/20 11:22	Wet	0.59	20.83	0.15	Modelled	Wet Weather Response	
2/5/20 21:06	Wet	0.56	3.30	0.09	Modelled	Wet Weather Response	
2/10/20 4:18	Wet	0.28	2.45	0.03	Modelled	Wet Weather Response	
2/12/20 20:26	Wet	0.37	7.72	0.08	Modelled	Wet Weather Response	
2/18/20 1:10	Wet	0.22	3.71	0.04	Modelled	Wet Weather Response	
2/24/20 21:38	Wet	0.62	3.78	0.03	Modelled	Wet Weather Response	
2/26/20 16:26	Wet	0.62	4.71	0.03	Modelled	Wet Weather Response	
3/3/20 11:42	Wet	0.45	7.89	0.32	Modelled	Wet Weather Response	
3/10/20 10:10	Wet	0.28	3.34	0.09	Modelled	Wet Weather Response	
3/13/20 1:05	Wet	0.29	3.17	0.18	Modelled	Wet Weather Response	
3/18/20 16:32	Wet	1.43	7.86	3.11	Modelled	Wet Weather Response	
3/19/20 19:51	Wet	1.43	13.54	0.60	Modelled	Wet Weather Response	
3/22/20 22:16	Wet	0.19	11.05	0.01	Modelled	Wet Weather Response	
3/26/20 20:28	Wet	0.35	6.36	0.12	Modelled	Wet Weather Response	
3/28/20 0:16	Wet	2.82	9.35	3.51	Modelled	Wet Weather Response	
3/28/20 21:37	Wet	2.82	15.80	10.65	Modelled	Wet Weather Response	

CSO 204						Receiving Water:	Lake Erie
Location:	Gordon Park W of E 72nd St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 72nd Fishing Area			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/7/20 23:10	Wet	1.27	4.13	3.58	Modelled	Wet Weather Response	
4/9/20 1:56	Wet	1.27	8.77	0.06	Modelled	Wet Weather Response	
4/13/20 1:34	Wet	0.43	10.66	0.08	Modelled	Wet Weather Response	
4/15/20 17:16	Wet	0.22	13.04	0.01	Modelled	Wet Weather Response	
4/17/20 12:17	Wet	0.34	7.89	0.09	Modelled	Wet Weather Response	
4/21/20 3:31	Wet	0.11	2.38	0.03	Modelled	Wet Weather Response	
4/26/20 2:35	Wet	0.55	12.71	0.20	Modelled	Wet Weather Response	
4/30/20 0:32	Wet	0.50	13.51	0.61	Modelled	Wet Weather Response	
5/10/20 18:20	Wet	0.68	14.48	0.22	Modelled	Wet Weather Response	
5/14/20 11:37	Wet	2.30	33.04	6.96	Modelled	Wet Weather Response	
5/17/20 17:25	Wet	1.51	3.71	1.54	Modelled	Wet Weather Response	
5/18/20 11:22	Wet	1.51	17.51	0.99	Modelled	Wet Weather Response	
5/22/20 9:42	Wet	0.46	5.80	1.33	Modelled	Wet Weather Response	
5/28/20 8:20	Wet	0.18	2.62	0.04	Modelled	Wet Weather Response	
5/29/20 15:05	Wet	0.46	3.85	0.98	Modelled	Wet Weather Response	
6/10/20 19:32	Wet	0.58	3.31	3.57	Modelled	Wet Weather Response	
6/22/20 12:10	Wet	1.07	2.82	0.06	Modelled	Wet Weather Response	
6/23/20 11:42	Wet	1.07	2.97	3.54	Modelled	Wet Weather Response	
6/26/20 23:10	Wet	1.26	8.15	5.52	Modelled	Wet Weather Response	
7/10/20 16:05	Wet	2.26	18.70	17.05	Modelled	Wet Weather Response	

CSO 204						Receiving Water:	Lake Erie
Location:	Gordon Park W of E 72nd St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 72nd Fishing Area			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/19/20 14:20	Wet	0.41	5.14	1.11	Modelled	Wet Weather Response	
7/22/20 4:20	Wet	0.67	3.25	0.05	Modelled	Wet Weather Response	
7/27/20 14:11	Wet	1.09	13.69	1.29	Modelled	Wet Weather Response	
8/1/20 16:46	Wet	1.81	6.95	0.76	Modelled	Wet Weather Response	
8/2/20 11:47	Wet	1.81	6.52	0.03	Modelled	Wet Weather Response	
8/3/20 13:10	Wet	1.81	4.79	0.45	Modelled	Wet Weather Response	
8/4/20 7:05	Wet	1.81	2.69	6.91	Modelled	Wet Weather Response	
8/16/20 12:05	Wet	0.56	3.46	2.87	Modelled	Wet Weather Response	
8/26/20 10:21	Wet	0.32	3.73	0.44	Modelled	Wet Weather Response	
8/28/20 8:10	Wet	2.76	23.72	10.77	Modelled	Wet Weather Response	
9/2/20 10:05	Wet	0.45	4.21	0.79	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.86	38.33	Modelled	Wet Weather Response	
9/13/20 7:27	Wet	0.39	3.21	1.50	Modelled	Wet Weather Response	
9/28/20 17:05	Wet	1.70	8.29	10.89	Modelled	Wet Weather Response	
10/1/20 15:32	Wet	0.59	13.66	1.05	Modelled	Wet Weather Response	
10/4/20 17:10	Wet	0.25	3.44	0.12	Modelled	Wet Weather Response	
10/12/20 23:10	Wet	0.69	4.37	3.26	Modelled	Wet Weather Response	
10/15/20 13:43	Wet	0.20	5.38	0.03	Modelled	Wet Weather Response	
10/19/20 4:22	Wet	3.50	32.14	0.29	Modelled	Wet Weather Response	
10/21/20 1:26	Wet	3.50	10.81	33.98	Modelled	Wet Weather Response	

CSO 204						Receiving Water:	Lake Erie
Location:	Gordon Park W of E 72nd St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: E. 72nd Fishing Area			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/22/20 3:38	Wet	3.50	3.66	1.20	Modelled	Wet Weather Response	
10/23/20 18:15	Wet	0.59	8.98	0.89	Modelled	Wet Weather Response	
10/26/20 13:23	Wet	1.60	8.53	0.07	Modelled	Wet Weather Response	
10/27/20 16:28	Wet	1.60	13.06	0.04	Modelled	Wet Weather Response	
10/29/20 6:40	Wet	1.60	26.70	0.39	Modelled	Wet Weather Response	
11/15/20 1:35	Wet	0.35	13.60	0.09	Modelled	Wet Weather Response	
11/22/20 8:16	Wet	0.74	10.82	0.62	Modelled	Wet Weather Response	
11/25/20 11:22	Wet	0.65	19.75	0.21	Modelled	Wet Weather Response	
11/30/20 6:11	Wet	2.59	38.00	1.34	Modelled	Wet Weather Response	
12/12/20 12:34	Wet	0.29	5.19	0.14	Modelled	Wet Weather Response	
12/19/20 23:25	Wet	0.17	3.08	0.03	Modelled	Wet Weather Response	
12/24/20 15:17	Wet	0.72	20.13	0.20	Modelled	Wet Weather Response	
12/30/20 17:43	Wet	0.13	4.94	0.08	Modelled	Wet Weather Response	
Totals		**76.35**	**724.67**	**187.12**			

CSO 205						Receiving Water:	Lake Erie
Location:	NW of E 88th St. & Carr Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 19:45	Wet	1.09	0.83	0.02	Modelled	Wet Weather Response	
1/18/20 3:00	Wet	0.73	7.72	0.28	Modelled	Wet Weather Response	
2/5/20 22:20	Wet	0.56	1.08	0.04	Modelled	Wet Weather Response	
3/3/20 13:20	Wet	0.45	1.24	0.11	Modelled	Wet Weather Response	
3/10/20 10:35	Wet	0.28	0.99	0.06	Modelled	Wet Weather Response	
3/13/20 1:34	Wet	0.29	1.09	0.08	Modelled	Wet Weather Response	
3/18/20 17:25	Wet	1.43	5.98	0.70	Modelled	Wet Weather Response	
3/20/20 7:20	Wet	1.43	1.24	0.17	Modelled	Wet Weather Response	
3/28/20 1:10	Wet	2.82	7.16	0.71	Modelled	Wet Weather Response	
3/29/20 0:36	Wet	2.82	11.98	3.94	Modelled	Wet Weather Response	
4/7/20 23:20	Wet	1.27	2.41	0.91	Modelled	Wet Weather Response	
4/26/20 3:40	Wet	0.55	1.81	0.06	Modelled	Wet Weather Response	
4/30/20 11:30	Wet	0.50	1.32	0.17	Modelled	Wet Weather Response	
5/10/20 19:15	Wet	0.68	3.24	0.07	Modelled	Wet Weather Response	
5/14/20 18:25	Wet	2.30	25.00	1.83	Modelled	Wet Weather Response	
5/17/20 18:10	Wet	1.51	2.06	0.38	Modelled	Wet Weather Response	
5/18/20 18:15	Wet	1.51	2.31	0.22	Modelled	Wet Weather Response	
5/22/20 12:00	Wet	0.46	2.48	0.29	Modelled	Wet Weather Response	
5/29/20 15:25	Wet	0.46	2.15	0.26	Modelled	Wet Weather Response	
6/10/20 20:10	Wet	0.58	1.58	1.27	Modelled	Wet Weather Response	

CSO 205						Receiving Water:	Lake Erie
Location:	NW of E 88th St. & Carr Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
6/22/20 12:45	Wet	1.07	0.83	0.02	Modelled	Wet Weather Response	
6/23/20 12:10	Wet	1.07	1.56	1.26	Modelled	Wet Weather Response	
6/26/20 23:25	Wet	1.26	7.08	1.68	Modelled	Wet Weather Response	
7/10/20 16:10	Wet	2.26	17.49	6.24	Modelled	Wet Weather Response	
7/19/20 17:20	Wet	0.41	1.32	0.30	Modelled	Wet Weather Response	
7/27/20 14:55	Wet	1.09	11.75	0.33	Modelled	Wet Weather Response	
8/1/20 21:20	Wet	1.81	1.32	0.21	Modelled	Wet Weather Response	
8/3/20 13:35	Wet	1.81	3.08	0.20	Modelled	Wet Weather Response	
8/4/20 7:10	Wet	1.81	2.16	3.26	Modelled	Wet Weather Response	
8/16/20 12:20	Wet	0.56	2.23	0.85	Modelled	Wet Weather Response	
8/26/20 11:15	Wet	0.32	1.65	0.13	Modelled	Wet Weather Response	
8/28/20 8:32	Wet	2.76	22.86	3.97	Modelled	Wet Weather Response	
9/2/20 10:20	Wet	0.45	1.25	0.23	Modelled	Wet Weather Response	
9/7/20 7:15	Wet	3.43	6.92	14.51	Modelled	Wet Weather Response	
9/13/20 8:15	Wet	0.39	1.41	0.40	Modelled	Wet Weather Response	
9/28/20 17:20	Wet	1.70	6.16	4.13	Modelled	Wet Weather Response	
10/1/20 19:25	Wet	0.59	9.08	0.32	Modelled	Wet Weather Response	
10/4/20 17:50	Wet	0.25	1.57	0.05	Modelled	Wet Weather Response	
10/12/20 23:25	Wet	0.69	3.16	0.73	Modelled	Wet Weather Response	
10/21/20 2:25	Wet	3.50	6.91	13.28	Modelled	Wet Weather Response	

CSO 205						Receiving Water:	Lake Erie
Location:	NW of E 88th St. & Carr Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/22/20 4:20	Wet	3.50	2.16	0.31	Modelled	Wet Weather Response	
10/23/20 18:55	Wet	0.59	6.66	0.27	Modelled	Wet Weather Response	
10/30/20 5:30	Wet	1.60	1.16	0.06	Modelled	Wet Weather Response	
11/15/20 13:40	Wet	0.35	0.82	0.04	Modelled	Wet Weather Response	
11/22/20 12:35	Wet	0.74	3.97	0.17	Modelled	Wet Weather Response	
11/25/20 14:45	Wet	0.65	9.74	0.04	Modelled	Wet Weather Response	
11/30/20 9:40	Wet	2.59	19.98	0.28	Modelled	Wet Weather Response	
12/12/20 15:35	Wet	0.29	0.99	0.07	Modelled	Wet Weather Response	
Totals		**59.26**	**238.96**	**64.89**			

CSO 206						Receiving Water:	Lake Erie
Location:	N end of E 156th St. at Lake Erie, Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:25	Wet	0.92	2.83	0.75	Monitored	Wet Weather Response	
3/19/20 0:00	Wet	0.10	2.00	0.03	Monitored	Wet Weather Response	
Totals		**1.02**	**4.83**	**0.78**			

CSO 207						Receiving Water:	Lake Erie
Location:	NW of E 156th St. & Lakeshore Blvd. (Green Creek), Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 208						Receiving Water:	Lake Erie
Location:	N of Neff Rd. & East Park Dr. intersection, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				East Shore Park Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 209						Receiving Water:	Euclid Creek
Location:	W side of Euclid Creek at Lakeshore Blvd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach, and Euclid Beach)			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 210						Receiving Water:	Lake Erie
Location:	Under St. Clair Ave. bridge, E of Nottingham Rd. & St. Clair Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/11/20 7:45	Wet	2.26	0.50	0.12	Modelled	Wet Weather Response	
9/7/20 13:20	Wet	3.43	6.50	0.56	Modelled	Wet Weather Response	
10/21/20 4:45	Wet	3.50	11.25	2.17	Modelled	Wet Weather Response	
Totals		**9.19**	**18.24**	**2.84**			

CSO 211						Receiving Water:	Nine Mile Creek
Location:	Nine-Mile Creek, E of Coit Rd., between RR tracks, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/9/20 18:40	Dry	0.00	9.00	0.21	Monitored	Downstream Blockage	
3/16/20 11:10	Dry	0.00	3.42	0.01	Monitored	Water main break	
3/28/20 7:25	Wet	0.98	2.17	1.31	Monitored	Wet Weather Response	
3/29/20 2:15	Wet	1.36	5.75	9.92	Monitored	Wet Weather Response	
4/9/20 11:00	Wet	0.14	1.67	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0005 MG
5/15/20 17:15	Wet	1.40	3.92	3.02	Monitored	Wet Weather Response	
6/23/20 12:25	Wet	1.11	1.08	0.70	Monitored	Wet Weather Response	
7/10/20 16:55	Wet	1.43	0.33	0.89	Monitored	Wet Weather Response	
7/11/20 2:25	Wet	2.43	2.17	1.93	Monitored	Wet Weather Response	
8/3/20 15:35	Wet	0.70	0.42	0.96	Monitored	Wet Weather Response	
8/4/20 6:50	Wet	0.37	1.75	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
8/28/20 9:30	Wet	1.55	0.08	0.01	Monitored	Wet Weather Response	
8/29/20 6:30	Wet	0.19	0.17	0.00	Monitored	Wet Weather Response	Actual Overflow Volume = 0.0028 MG
9/7/20 7:25	Wet	2.02	7.58	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
9/28/20 19:05	Wet	1.68	2.42	0.85	Monitored	Wet Weather Response	
10/21/20 4:00	Wet	2.50	7.00	39.85	Monitored	Wet Weather Response	
Totals		**17.86**	**48.93**	**59.68**			

CSO 212						Receiving Water:	Nine Mile Creek
Location:	Belvoir Blvd. opposite Quilliams Ave. , E side of Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:06	Wet	1.43	4.66	0.03	Modelled	Wet Weather Response	
3/28/20 5:15	Wet	2.82	2.74	0.03	Modelled	Wet Weather Response	
3/29/20 1:05	Wet	2.82	11.59	0.30	Modelled	Wet Weather Response	
4/7/20 23:51	Wet	1.27	1.60	0.02	Modelled	Wet Weather Response	
5/14/20 18:21	Wet	2.30	1.11	0.01	Modelled	Wet Weather Response	
5/15/20 14:31	Wet	2.30	7.17	0.17	Modelled	Wet Weather Response	
5/17/20 18:30	Wet	1.51	1.47	0.01	Modelled	Wet Weather Response	
5/29/20 15:33	Wet	0.46	1.53	0.01	Modelled	Wet Weather Response	
6/10/20 20:15	Wet	0.58	1.43	0.07	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.55	0.14	Modelled	Wet Weather Response	
6/26/20 23:51	Wet	1.26	7.33	0.17	Modelled	Wet Weather Response	
6/27/20 22:25	Wet	1.26	2.23	0.05	Modelled	Wet Weather Response	
7/11/20 1:25	Wet	2.26	14.05	0.95	Modelled	Wet Weather Response	
8/2/20 11:05	Wet	1.81	6.14	0.08	Modelled	Wet Weather Response	
8/4/20 7:10	Wet	1.81	7.78	0.31	Modelled	Wet Weather Response	
8/16/20 12:30	Wet	0.56	1.40	0.02	Modelled	Wet Weather Response	
8/28/20 8:30	Wet	2.76	25.72	0.54	Modelled	Wet Weather Response	
9/7/20 7:15	Wet	3.43	11.21	0.73	Modelled	Wet Weather Response	
9/13/20 8:15	Wet	0.39	1.23	0.04	Modelled	Wet Weather Response	
9/28/20 18:05	Wet	1.70	5.05	0.14	Modelled	Wet Weather Response	
10/1/20 19:25	Wet	0.59	8.79	0.02	Modelled	Wet Weather Response	

CSO 212						Receiving Water:	Nine Mile Creek
Location:	Belvoir Blvd. opposite Quilliams Ave. , E side of Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/13/20 0:12	Wet	0.69	2.17	0.05	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	12.26	1.38	Modelled	Wet Weather Response	
10/22/20 4:16	Wet	3.50	2.86	0.05	Modelled	Wet Weather Response	
10/30/20 5:27	Wet	1.60	4.04	0.03	Modelled	Wet Weather Response	
12/1/20 2:11	Wet	2.59	13.09	0.09	Modelled	Wet Weather Response	
Totals		**46.27**	**160.19**	**5.45**			

CSO 214						Receiving Water:	Green Creek
Location:	Behind American Steel Supplies at Saranac Rd. & E 170th St., along RR, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20 7:21	Wet	0.73	3.08	0.01	Modelled	Wet Weather Response	
3/18/20 17:46	Wet	1.43	5.47	0.07	Modelled	Wet Weather Response	
3/28/20 4:29	Wet	2.82	4.72	0.10	Modelled	Wet Weather Response	
3/29/20 0:20	Wet	2.82	11.98	1.01	Modelled	Wet Weather Response	
4/7/20 23:36	Wet	1.27	1.80	0.09	Modelled	Wet Weather Response	
5/14/20 18:07	Wet	2.30	26.22	0.61	Modelled	Wet Weather Response	
5/17/20 18:12	Wet	1.51	1.90	0.03	Modelled	Wet Weather Response	
5/22/20 12:15	Wet	0.46	1.74	0.02	Modelled	Wet Weather Response	

CSO 214						Receiving Water:	Green Creek
Location:	Behind American Steel Supplies at Saranac Rd. & E 170th St., along RR, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/29/20 15:26	Wet	0.46	1.77	0.03	Modelled	Wet Weather Response	
6/10/20 20:05	Wet	0.58	1.57	0.43	Modelled	Wet Weather Response	
6/23/20 12:00	Wet	1.07	1.74	0.87	Modelled	Wet Weather Response	
6/26/20 23:46	Wet	1.26	24.52	0.72	Modelled	Wet Weather Response	
7/10/20 16:00	Wet	2.26	22.26	3.77	Modelled	Wet Weather Response	
8/2/20 11:04	Wet	1.81	6.16	0.30	Modelled	Wet Weather Response	
8/3/20 15:05	Wet	1.81	2.03	0.05	Modelled	Wet Weather Response	
8/4/20 7:05	Wet	1.81	6.16	0.97	Modelled	Wet Weather Response	
8/16/20 12:16	Wet	0.56	1.86	0.09	Modelled	Wet Weather Response	
8/28/20 8:14	Wet	2.76	23.69	1.81	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	10.11	2.66	Modelled	Wet Weather Response	
9/13/20 8:10	Wet	0.39	1.24	0.12	Modelled	Wet Weather Response	
9/28/20 17:15	Wet	1.70	7.84	0.81	Modelled	Wet Weather Response	
10/1/20 19:21	Wet	0.59	8.88	0.06	Modelled	Wet Weather Response	
10/12/20 23:52	Wet	0.69	2.45	0.18	Modelled	Wet Weather Response	
10/21/20 2:19	Wet	3.50	11.45	4.80	Modelled	Wet Weather Response	
10/22/20 4:06	Wet	3.50	2.25	0.08	Modelled	Wet Weather Response	
10/30/20 5:08	Wet	1.60	4.04	0.05	Modelled	Wet Weather Response	
11/22/20 12:19	Wet	0.74	3.96	0.01	Modelled	Wet Weather Response	
11/30/20 9:24	Wet	2.59	23.58	0.05	Modelled	Wet Weather Response	
Totals		**46.45**	**224.48**	**19.81**			

CSO 215						Receiving Water:	Doan Brook
Location:	W side of Doan Brook at St. Clair Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:06	Wet	2.82	1.06	0.05	Modelled	Wet Weather Response	
7/11/20 6:27	Wet	2.26	0.71	0.02	Modelled	Wet Weather Response	
8/4/20 7:17	Wet	1.81	0.87	0.04	Modelled	Wet Weather Response	
8/29/20 5:20	Wet	2.76	0.82	0.03	Modelled	Wet Weather Response	
9/7/20 8:35	Wet	3.43	2.74	0.16	Modelled	Wet Weather Response	
10/21/20 3:41	Wet	3.50	2.47	0.22	Modelled	Wet Weather Response	
Totals		**16.58**	**8.67**	**0.51**			

CSO 216						Receiving Water:	Doan Brook
Location:	W of Parkgate Ave. & East Blvd., E side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:05	Wet	3.43	1.08	0.10	Modelled	Wet Weather Response	
10/21/20 4:10	Wet	3.50	1.32	0.14	Modelled	Wet Weather Response	
Totals		**6.93**	**2.40**	**0.23**			

CSO 217						Receiving Water:	Doan Brook
Location:	W of Martin Luther King Blvd. & E 98th St., E side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:00	Wet	2.82	1.74	0.55	Modelled	Wet Weather Response	
5/15/20 17:05	Wet	2.30	1.24	0.07	Modelled	Wet Weather Response	
6/10/20 20:20	Wet	0.58	0.83	0.10	Modelled	Wet Weather Response	
6/23/20 12:20	Wet	1.07	0.83	0.11	Modelled	Wet Weather Response	
6/27/20 0:05	Wet	1.26	1.08	0.07	Modelled	Wet Weather Response	
7/10/20 16:20	Wet	2.26	16.40	0.71	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	1.33	0.47	Modelled	Wet Weather Response	
8/16/20 12:35	Wet	0.56	0.57	0.02	Modelled	Wet Weather Response	
8/28/20 9:20	Wet	2.76	0.74	0.01	Modelled	Wet Weather Response	
8/29/20 5:15	Wet	2.76	1.33	0.37	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	6.16	2.45	Modelled	Wet Weather Response	
9/28/20 18:00	Wet	1.70	3.12	0.45	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	4.50	2.42	Modelled	Wet Weather Response	
Totals		**26.81**	**39.89**	**7.80**			

CSO 218						Receiving Water:	Doan Brook
Location:	E side of Doan Brook, S of Superior Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 20:25	Wet	0.76	0.92	0.07	Monitored	Wet Weather Response	
1/18/20 17:15	Wet	0.75	0.75	0.05	Monitored	Wet Weather Response	
1/24/20 13:15	Wet	0.36	1.17	0.09	Monitored	Wet Weather Response	
3/13/20 2:30	Wet	0.26	0.33	0.01	Monitored	Wet Weather Response	
3/18/20 18:10	Wet	0.98	4.33	0.17	Monitored	Wet Weather Response	
3/20/20 7:30	Wet	0.27	0.58	0.03	Monitored	Wet Weather Response	
3/28/20 5:40	Wet	1.07	2.92	0.18	Monitored	Wet Weather Response	
3/29/20 1:20	Wet	1.51	3.58	0.56	Monitored	Wet Weather Response	
5/15/20 17:10	Wet	1.50	1.42	0.07	Monitored	Wet Weather Response	
6/10/20 20:25	Wet	0.75	0.50	0.04	Monitored	Wet Weather Response	
6/23/20 12:30	Wet	0.75	0.50	0.06	Monitored	Wet Weather Response	
6/27/20 0:10	Wet	1.15	0.50	0.14	Monitored	Wet Weather Response	
7/10/20 16:55	Wet	0.89	0.42	0.20	Monitored	Wet Weather Response	
7/11/20 1:40	Wet	2.01	1.00	0.15	Monitored	Wet Weather Response	
8/4/20 7:20	Wet	1.14	0.67	0.24	Monitored	Wet Weather Response	
8/28/20 9:15	Wet	1.30	0.33	0.12	Monitored	Wet Weather Response	
8/29/20 5:30	Wet	0.92	0.50	0.15	Monitored	Wet Weather Response	
9/7/20 7:50	Wet	3.25	3.17	0.19	Monitored	Wet Weather Response	
9/28/20 18:45	Wet	1.91	0.92	0.10	Monitored	Wet Weather Response	
10/21/20 3:45	Wet	2.77	3.00	0.69	Monitored	Wet Weather Response	
Totals		**24.30**	**27.51**	**3.30**			

CSO 219						Receiving Water:	Doan Brook
Location:	W side of Doan Brook, N of Superior Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:05	Wet	2.82	2.05	0.01	Modelled	Wet Weather Response	
3/29/20 1:02	Wet	2.82	11.03	0.22	Modelled	Wet Weather Response	
4/7/20 23:05	Wet	1.27	1.99	0.02	Modelled	Wet Weather Response	
5/15/20 14:12	Wet	2.30	4.86	0.08	Modelled	Wet Weather Response	
6/10/20 20:00	Wet	0.58	1.14	0.04	Modelled	Wet Weather Response	
6/23/20 12:00	Wet	1.07	1.08	0.04	Modelled	Wet Weather Response	
6/26/20 23:05	Wet	1.26	1.99	0.04	Modelled	Wet Weather Response	
7/10/20 16:00	Wet	2.26	17.14	0.31	Modelled	Wet Weather Response	
8/4/20 7:00	Wet	1.81	1.83	0.19	Modelled	Wet Weather Response	
8/16/20 12:05	Wet	0.56	1.07	0.03	Modelled	Wet Weather Response	
8/28/20 9:00	Wet	2.76	1.08	0.02	Modelled	Wet Weather Response	
8/29/20 5:00	Wet	2.76	1.87	0.16	Modelled	Wet Weather Response	
9/7/20 7:00	Wet	3.43	6.44	0.69	Modelled	Wet Weather Response	
9/28/20 17:05	Wet	1.70	4.29	0.18	Modelled	Wet Weather Response	
10/21/20 3:00	Wet	3.50	4.42	0.71	Modelled	Wet Weather Response	
Totals		**30.90**	**62.29**	**2.75**			

CSO 220						Receiving Water:	Doan Brook
Location:	Across from intersection of East Blvd. & Ashbury Blvd. on E side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:05	Wet	2.82	1.67	2.22	Modelled	Wet Weather Response	
3/30/20 9:00	Dry	0.05	0.25	0.01	Modelled	Bypass pumping hoses leaked	
4/7/20 23:50	Wet	1.27	1.02	0.09	Modelled	Wet Weather Response	
5/15/20 17:05	Wet	2.30	1.42	0.41	Modelled	Wet Weather Response	
6/10/20 20:25	Wet	0.58	1.00	0.68	Modelled	Wet Weather Response	
6/23/20 12:25	Wet	1.07	1.00	0.69	Modelled	Wet Weather Response	
6/27/20 0:10	Wet	1.26	1.17	0.53	Modelled	Wet Weather Response	
7/10/20 16:25	Wet	2.26	15.91	3.07	Modelled	Wet Weather Response	
8/4/20 7:20	Wet	1.81	1.33	2.16	Modelled	Wet Weather Response	
8/16/20 12:40	Wet	0.56	0.67	0.16	Modelled	Wet Weather Response	
8/28/20 9:30	Wet	2.76	0.83	0.17	Modelled	Wet Weather Response	
8/29/20 5:20	Wet	2.76	1.33	1.68	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	6.08	8.82	Modelled	Wet Weather Response	
9/28/20 18:00	Wet	1.70	3.08	2.39	Modelled	Wet Weather Response	
10/21/20 3:20	Wet	3.50	4.17	7.81	Modelled	Wet Weather Response	
Totals		**28.13**	**40.93**	**30.90**			

CSO 221						Receiving Water:	Doan Brook
Location:	E 105th St. & Hough Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 20:00	Wet	1.09	2.65	0.14	Modelled	Wet Weather Response	
1/18/20 7:45	Wet	0.73	3.91	0.35	Modelled	Wet Weather Response	
2/5/20 22:35	Wet	0.56	1.08	0.06	Modelled	Wet Weather Response	
3/3/20 13:25	Wet	0.45	1.50	0.11	Modelled	Wet Weather Response	
3/10/20 10:55	Wet	0.28	0.91	0.05	Modelled	Wet Weather Response	
3/13/20 1:50	Wet	0.29	1.41	0.08	Modelled	Wet Weather Response	
3/18/20 17:40	Wet	1.43	6.50	0.71	Modelled	Wet Weather Response	
3/20/20 7:30	Wet	1.43	1.31	0.12	Modelled	Wet Weather Response	
3/28/20 1:20	Wet	2.82	8.08	0.51	Modelled	Wet Weather Response	
3/29/20 0:50	Wet	2.82	12.33	1.17	Modelled	Wet Weather Response	
4/7/20 23:30	Wet	1.27	3.53	0.42	Modelled	Wet Weather Response	
4/9/20 8:35	Wet	1.27	0.90	0.02	Modelled	Wet Weather Response	
4/13/20 9:20	Wet	0.43	0.81	0.02	Modelled	Wet Weather Response	
4/26/20 4:07	Wet	0.55	1.79	0.10	Modelled	Wet Weather Response	
4/30/20 11:45	Wet	0.50	1.66	0.09	Modelled	Wet Weather Response	
5/10/20 19:45	Wet	0.68	12.24	0.16	Modelled	Wet Weather Response	
5/14/20 18:30	Wet	2.30	27.24	1.20	Modelled	Wet Weather Response	
5/17/20 18:25	Wet	1.51	2.50	0.25	Modelled	Wet Weather Response	
5/18/20 18:15	Wet	1.51	3.16	0.27	Modelled	Wet Weather Response	
5/22/20 12:10	Wet	0.46	2.66	0.27	Modelled	Wet Weather Response	

CSO 221						Receiving Water:	Doan Brook
Location:	E 105th St. & Hough Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/29/20 15:35	Wet	0.46	2.91	0.26	Modelled	Wet Weather Response	
6/10/20 20:10	Wet	0.58	2.58	0.32	Modelled	Wet Weather Response	
6/22/20 13:35	Wet	1.07	1.15	0.04	Modelled	Wet Weather Response	
6/23/20 12:10	Wet	1.07	2.41	0.31	Modelled	Wet Weather Response	
6/26/20 23:35	Wet	1.26	7.66	0.87	Modelled	Wet Weather Response	
7/10/20 16:10	Wet	2.26	20.99	2.04	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	1.71	0.16	Modelled	Wet Weather Response	
7/22/20 6:00	Wet	0.67	0.75	0.03	Modelled	Wet Weather Response	
7/27/20 15:45	Wet	1.09	12.16	0.41	Modelled	Wet Weather Response	
8/1/20 21:30	Wet	1.81	1.58	0.14	Modelled	Wet Weather Response	
8/3/20 13:55	Wet	1.81	4.16	0.30	Modelled	Wet Weather Response	
8/4/20 7:05	Wet	1.81	3.24	0.64	Modelled	Wet Weather Response	
8/16/20 12:25	Wet	0.56	2.58	0.32	Modelled	Wet Weather Response	
8/26/20 11:15	Wet	0.32	2.33	0.19	Modelled	Wet Weather Response	
8/28/20 8:50	Wet	2.76	24.48	1.62	Modelled	Wet Weather Response	
9/2/20 10:25	Wet	0.45	1.66	0.16	Modelled	Wet Weather Response	
9/7/20 7:10	Wet	3.43	13.49	2.47	Modelled	Wet Weather Response	
9/13/20 8:25	Wet	0.39	2.25	0.20	Modelled	Wet Weather Response	
9/28/20 17:30	Wet	1.70	8.32	1.30	Modelled	Wet Weather Response	
10/1/20 15:55	Wet	0.59	12.83	0.22	Modelled	Wet Weather Response	

CSO 221						Receiving Water:	Doan Brook
Location:	E 105th St. & Hough Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/4/20 18:15	Wet	0.25	1.58	0.09	Modelled	Wet Weather Response	
10/12/20 23:40	Wet	0.69	3.74	0.44	Modelled	Wet Weather Response	
10/19/20 7:45	Wet	3.50	2.48	0.05	Modelled	Wet Weather Response	
10/20/20 3:15	Wet	3.50	1.48	0.07	Modelled	Wet Weather Response	
10/21/20 2:25	Wet	3.50	10.41	2.15	Modelled	Wet Weather Response	
10/22/20 4:25	Wet	3.50	2.49	0.25	Modelled	Wet Weather Response	
10/23/20 19:25	Wet	0.59	6.41	0.24	Modelled	Wet Weather Response	
10/29/20 10:20	Wet	1.60	2.41	0.13	Modelled	Wet Weather Response	
10/30/20 5:25	Wet	1.60	2.32	0.15	Modelled	Wet Weather Response	
11/15/20 14:00	Wet	0.35	0.58	0.02	Modelled	Wet Weather Response	
11/22/20 12:52	Wet	0.74	4.57	0.34	Modelled	Wet Weather Response	
11/25/20 14:45	Wet	0.65	9.91	0.08	Modelled	Wet Weather Response	
11/30/20 9:40	Wet	2.59	30.98	1.88	Modelled	Wet Weather Response	
12/12/20 15:55	Wet	0.29	0.83	0.04	Modelled	Wet Weather Response	
12/24/20 23:00	Wet	0.72	1.91	0.06	Modelled	Wet Weather Response	
12/30/20 20:10	Wet	0.13	0.50	0.01	Modelled	Wet Weather Response	
Totals		**71.08**	**308.03**	**24.10**			

CSO 222						Receiving Water:	Doan Brook
Location:	E 105th St. & Doan Brook on S side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 20:00	Wet	1.09	2.41	0.40	Modelled	Wet Weather Response	
1/18/20 7:45	Wet	0.73	3.75	3.01	Modelled	Wet Weather Response	
2/5/20 22:40	Wet	0.56	0.92	0.26	Modelled	Wet Weather Response	
3/3/20 13:25	Wet	0.45	1.42	0.94	Modelled	Wet Weather Response	
3/10/20 10:55	Wet	0.28	0.82	0.25	Modelled	Wet Weather Response	
3/13/20 1:50	Wet	0.29	1.24	0.50	Modelled	Wet Weather Response	
3/18/20 17:40	Wet	1.43	6.33	9.81	Modelled	Wet Weather Response	
3/20/20 7:30	Wet	1.43	1.17	0.96	Modelled	Wet Weather Response	
3/28/20 1:20	Wet	2.82	7.96	8.52	Modelled	Wet Weather Response	
3/29/20 0:52	Wet	2.82	12.13	19.41	Modelled	Wet Weather Response	
4/7/20 23:30	Wet	1.27	3.42	8.13	Modelled	Wet Weather Response	
4/13/20 9:25	Wet	0.43	0.41	0.01	Modelled	Wet Weather Response	
4/26/20 4:11	Wet	0.55	1.56	0.46	Modelled	Wet Weather Response	
4/30/20 11:45	Wet	0.50	0.91	0.37	Modelled	Wet Weather Response	
5/10/20 19:45	Wet	0.68	12.00	0.54	Modelled	Wet Weather Response	
5/14/20 18:30	Wet	2.30	27.08	19.10	Modelled	Wet Weather Response	
5/17/20 18:25	Wet	1.51	2.41	3.82	Modelled	Wet Weather Response	
5/18/20 18:20	Wet	1.51	2.83	2.42	Modelled	Wet Weather Response	
5/22/20 12:15	Wet	0.46	2.50	3.03	Modelled	Wet Weather Response	
5/29/20 15:35	Wet	0.46	2.75	2.86	Modelled	Wet Weather Response	

CSO 222						Receiving Water:	Doan Brook
Location:	E 105th St. & Doan Brook on S side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
6/10/20 20:20	Wet	0.58	2.33	5.89	Modelled	Wet Weather Response	
6/22/20 13:40	Wet	1.07	1.00	0.24	Modelled	Wet Weather Response	
6/23/20 12:20	Wet	1.07	2.08	5.70	Modelled	Wet Weather Response	
6/26/20 23:40	Wet	1.26	7.50	12.06	Modelled	Wet Weather Response	
7/10/20 16:20	Wet	2.26	20.50	36.21	Modelled	Wet Weather Response	
7/19/20 17:30	Wet	0.41	1.58	2.88	Modelled	Wet Weather Response	
7/22/20 6:00	Wet	0.67	0.58	0.08	Modelled	Wet Weather Response	
7/27/20 15:40	Wet	1.09	12.16	5.46	Modelled	Wet Weather Response	
8/1/20 21:30	Wet	1.81	1.50	1.99	Modelled	Wet Weather Response	
8/3/20 14:00	Wet	1.81	3.99	4.69	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	2.83	8.52	Modelled	Wet Weather Response	
8/16/20 12:30	Wet	0.56	2.41	4.62	Modelled	Wet Weather Response	
8/26/20 11:15	Wet	0.32	2.25	2.16	Modelled	Wet Weather Response	
8/28/20 8:55	Wet	2.76	24.16	26.48	Modelled	Wet Weather Response	
9/2/20 10:25	Wet	0.45	1.56	2.09	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	12.56	48.00	Modelled	Wet Weather Response	
9/13/20 8:30	Wet	0.39	2.08	3.04	Modelled	Wet Weather Response	
9/28/20 17:30	Wet	1.70	8.08	23.32	Modelled	Wet Weather Response	
10/1/20 15:50	Wet	0.59	12.79	1.85	Modelled	Wet Weather Response	
10/4/20 18:15	Wet	0.25	1.42	0.49	Modelled	Wet Weather Response	

CSO 222						Receiving Water:	Doan Brook
Location:	E 105th St. & Doan Brook on S side of Doan Brook, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/12/20 23:40	Wet	0.69	3.58	7.11	Modelled	Wet Weather Response	
10/20/20 3:20	Wet	3.50	1.25	0.25	Modelled	Wet Weather Response	
10/21/20 2:25	Wet	3.50	10.08	36.49	Modelled	Wet Weather Response	
10/22/20 4:30	Wet	3.50	2.25	2.02	Modelled	Wet Weather Response	
10/23/20 19:30	Wet	0.59	6.17	1.85	Modelled	Wet Weather Response	
10/29/20 10:30	Wet	1.60	2.08	0.46	Modelled	Wet Weather Response	
10/30/20 5:30	Wet	1.60	2.08	0.94	Modelled	Wet Weather Response	
11/15/20 14:00	Wet	0.35	0.50	0.08	Modelled	Wet Weather Response	
11/22/20 12:55	Wet	0.74	4.33	2.49	Modelled	Wet Weather Response	
11/25/20 14:45	Wet	0.65	9.75	0.49	Modelled	Wet Weather Response	
11/30/20 9:45	Wet	2.59	30.58	18.72	Modelled	Wet Weather Response	
12/12/20 15:55	Wet	0.29	0.74	0.17	Modelled	Wet Weather Response	
12/24/20 23:05	Wet	0.72	1.58	0.11	Modelled	Wet Weather Response	
Totals		**66.18**	**292.35**	**351.74**			

CSO 223						Receiving Water:	Doan Brook
Location:	N of E 107th St. & Parklane Rd. behind art museum, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park and Harrison-Dillard Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:00	Wet	2.82	1.08	0.06	Modelled	Wet Weather Response	
6/10/20 20:00	Wet	0.58	1.08	0.02	Modelled	Wet Weather Response	
6/23/20 12:00	Wet	1.07	1.08	0.02	Modelled	Wet Weather Response	
6/27/20 0:00	Wet	1.26	1.08	0.01	Modelled	Wet Weather Response	
7/10/20 16:00	Wet	2.26	15.08	0.10	Modelled	Wet Weather Response	
8/4/20 7:00	Wet	1.81	1.08	0.09	Modelled	Wet Weather Response	
8/29/20 5:00	Wet	2.76	1.08	0.06	Modelled	Wet Weather Response	
9/7/20 7:00	Wet	3.43	4.08	0.17	Modelled	Wet Weather Response	
9/28/20 18:00	Wet	1.70	2.08	0.05	Modelled	Wet Weather Response	
10/21/20 3:00	Wet	3.50	3.08	0.15	Modelled	Wet Weather Response	
Totals		**21.19**	**30.80**	**0.74**			

CSO 224						Receiving Water:	Doan Brook
Location:	N of E 107th St. & Parklane Rd. behind art museum, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park and Harrison-Dillard Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:16	Wet	2.82	1.89	0.05	Modelled	Wet Weather Response	
3/29/20 1:12	Wet	2.82	10.96	2.12	Modelled	Wet Weather Response	
4/7/20 23:15	Wet	1.27	1.91	0.19	Modelled	Wet Weather Response	
5/14/20 18:40	Wet	2.30	0.50	0.02	Modelled	Wet Weather Response	
5/15/20 16:20	Wet	2.30	2.28	0.43	Modelled	Wet Weather Response	
5/17/20 18:33	Wet	1.51	0.61	0.02	Modelled	Wet Weather Response	
6/10/20 20:05	Wet	0.58	1.25	0.60	Modelled	Wet Weather Response	
6/23/20 12:05	Wet	1.07	1.25	0.71	Modelled	Wet Weather Response	
6/26/20 23:40	Wet	1.26	1.65	0.46	Modelled	Wet Weather Response	
7/10/20 16:06	Wet	2.26	17.95	3.00	Modelled	Wet Weather Response	
7/19/20 17:40	Wet	0.41	0.50	0.02	Modelled	Wet Weather Response	
8/4/20 7:05	Wet	1.81	1.58	1.82	Modelled	Wet Weather Response	
8/16/20 12:20	Wet	0.56	1.03	0.23	Modelled	Wet Weather Response	
8/28/20 9:05	Wet	2.76	1.22	0.22	Modelled	Wet Weather Response	
8/29/20 5:05	Wet	2.76	1.58	1.59	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.38	9.93	Modelled	Wet Weather Response	
9/13/20 8:25	Wet	0.39	0.82	0.05	Modelled	Wet Weather Response	
9/28/20 17:25	Wet	1.70	3.99	2.22	Modelled	Wet Weather Response	
10/21/20 3:05	Wet	3.50	6.07	7.64	Modelled	Wet Weather Response	
Totals		**35.51**	**64.42**	**31.33**			

CSO 225						Receiving Water:	Doan Brook
Location:	N of Kemper Rd. & Fairhill Rd. at Doan Brook, Shaker Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Shaker Lakes Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:30	Wet	2.82	0.74	0.22	Modelled	Wet Weather Response	
9/7/20 10:10	Wet	3.43	1.15	0.45	Modelled	Wet Weather Response	
Totals		**6.25**	**1.89**	**0.67**			

CSO 226						Receiving Water:	Doan Brook
Location:	Along creek N of Larchmere & Coventry Rd., downstream of bridge over Creek, Shaker Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Shaker Lakes Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:00	Wet	2.82	2.65	0.22	Modelled	Wet Weather Response	
5/15/20 17:15	Wet	2.30	2.11	0.05	Modelled	Wet Weather Response	
6/8/20 19:15	Dry	0.00	14.75	0.04	Modelled	Water main break	
7/11/20 6:20	Wet	2.26	3.53	0.06	Modelled	Wet Weather Response	
8/29/20 5:27	Wet	2.76	0.96	0.01	Modelled	Wet Weather Response	
9/7/20 8:10	Wet	3.43	6.73	0.83	Modelled	Wet Weather Response	
10/21/20 3:32	Wet	3.50	4.15	0.19	Modelled	Wet Weather Response	
12/19/20 12:30	Dry	0.00	70.58	0.07	Modelled	Water main break	
Totals		**17.07**	**105.47**	**1.48**			

CSO 230						Receiving Water:	Dugway Brook
Location:	West Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:05	Wet	2.82	1.08	0.08	Modelled	Wet Weather Response	
6/10/20 20:25	Wet	0.58	0.74	0.02	Modelled	Wet Weather Response	
6/23/20 12:22	Wet	1.07	0.79	0.02	Modelled	Wet Weather Response	
7/10/20 16:20	Wet	2.26	0.83	0.06	Modelled	Wet Weather Response	
7/11/20 6:20	Wet	2.26	0.83	0.04	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	0.99	0.13	Modelled	Wet Weather Response	
8/29/20 5:15	Wet	2.76	0.91	0.07	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	8.85	3.91	Modelled	Wet Weather Response	
9/28/20 18:05	Wet	1.70	1.32	0.07	Modelled	Wet Weather Response	
10/21/20 3:20	Wet	3.50	10.16	5.89	Modelled	Wet Weather Response	
Totals		**22.19**	**26.52**	**10.29**			

CSO 231						Receiving Water:	Dugway Brook
Location:	East Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd., Cleveland						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/20/20 11:15	Dry	0.00	4.75	0.01	Modelled	Unknown obstruction	
9/7/20 7:36	Wet	3.43	7.56	4.87	Modelled	Wet Weather Response	
10/21/20 3:24	Wet	3.50	5.95	7.25	Modelled	Wet Weather Response	
Totals		**6.93**	**18.26**	**12.13**			

CSO 232						Receiving Water:	Shaw Brook
Location:	S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/3/20 7:46	Wet	0.45	54.34	0.32	Modelled	Wet Weather Response	The modeled number of activation and overflows are significantly overestimated. The majority of these events are stormwater only – not CSO discharges.
1/9/20 23:55	Wet	1.09	64.50	1.04	Modelled	Wet Weather Response	
1/15/20 18:27	Wet	0.09	19.97	0.07	Modelled	Wet Weather Response	

CSO 232						Receiving Water:	Shaw Brook
Location:	S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/18/20 2:09	Wet	0.73	70.37	0.92	Modelled	Wet Weather Response	
1/24/20 10:32	Wet	0.59	75.13	0.59	Modelled	Wet Weather Response	
2/1/20 19:26	Wet	0.06	17.88	0.04	Modelled	Wet Weather Response	
2/4/20 16:19	Wet	0.09	12.16	0.05	Modelled	Wet Weather Response	
2/5/20 18:56	Wet	0.56	56.23	0.46	Modelled	Wet Weather Response	
2/8/20 17:53	Wet	0.56	6.00	0.01	Modelled	Wet Weather Response	
2/9/20 18:27	Wet	0.28	30.67	0.23	Modelled	Wet Weather Response	
2/12/20 20:13	Wet	0.37	31.93	0.33	Modelled	Wet Weather Response	
2/17/20 23:23	Wet	0.22	25.22	0.19	Modelled	Wet Weather Response	
2/24/20 21:10	Wet	0.62	74.49	0.50	Modelled	Wet Weather Response	
3/2/20 10:22	Wet	0.45	63.47	0.52	Modelled	Wet Weather Response	
3/6/20 12:08	Wet	0.06	6.59	0.01	Modelled	Wet Weather Response	
3/10/20 5:29	Wet	0.28	23.13	0.25	Modelled	Wet Weather Response	
3/13/20 0:13	Wet	0.29	24.54	0.30	Modelled	Wet Weather Response	
3/16/20 19:03	Wet	0.04	7.62	0.02	Modelled	Wet Weather Response	
3/18/20 16:20	Wet	1.43	58.63	1.66	Modelled	Wet Weather Response	
3/22/20 21:24	Wet	0.19	27.47	0.15	Modelled	Wet Weather Response	
3/26/20 18:19	Wet	2.82	101.20	3.93	Modelled	Wet Weather Response	
4/1/20 10:05	Wet	0.02	6.54	0.01	Modelled	Wet Weather Response	
4/7/20 9:19	Wet	1.27	65.73	1.18	Modelled	Wet Weather Response	

CSO 232						Receiving Water:	Shaw Brook
Location:	S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/12/20 8:56	Wet	0.43	43.04	0.38	Modelled	Wet Weather Response	
4/15/20 16:58	Wet	0.22	31.30	0.17	Modelled	Wet Weather Response	
4/17/20 12:39	Wet	0.34	26.69	0.27	Modelled	Wet Weather Response	
4/21/20 3:11	Wet	0.11	21.42	0.13	Modelled	Wet Weather Response	
4/22/20 17:56	Wet	0.09	18.13	0.05	Modelled	Wet Weather Response	
4/24/20 3:25	Wet	0.09	15.45	0.04	Modelled	Wet Weather Response	
4/26/20 1:57	Wet	0.55	26.72	0.46	Modelled	Wet Weather Response	
4/27/20 23:08	Wet	0.50	97.29	0.61	Modelled	Wet Weather Response	
5/2/20 22:15	Wet	0.06	17.26	0.06	Modelled	Wet Weather Response	
5/10/20 11:25	Wet	0.68	38.97	0.72	Modelled	Wet Weather Response	
5/14/20 10:22	Wet	2.30	60.24	2.59	Modelled	Wet Weather Response	
5/17/20 17:05	Wet	1.51	55.66	1.41	Modelled	Wet Weather Response	
5/22/20 8:25	Wet	0.46	29.45	0.60	Modelled	Wet Weather Response	
5/25/20 18:14	Wet	0.04	9.83	0.04	Modelled	Wet Weather Response	
5/28/20 8:21	Wet	0.46	56.87	0.70	Modelled	Wet Weather Response	
6/2/20 2:20	Wet	0.04	11.95	0.03	Modelled	Wet Weather Response	
6/3/20 9:07	Wet	0.02	7.99	0.02	Modelled	Wet Weather Response	
6/10/20 20:00	Wet	0.58	27.95	1.29	Modelled	Wet Weather Response	
6/18/20 22:37	Wet	0.15	14.42	0.04	Modelled	Wet Weather Response	
6/21/20 19:01	Wet	1.07	67.59	1.96	Modelled	Wet Weather Response	

CSO 232						Receiving Water:	Shaw Brook
Location:	S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
6/26/20 23:02	Wet	1.26	44.30	1.78	Modelled	Wet Weather Response	
7/10/20 13:02	Wet	2.26	40.17	6.07	Modelled	Wet Weather Response	
7/16/20 15:15	Wet	0.04	11.48	0.04	Modelled	Wet Weather Response	
7/19/20 14:01	Wet	0.41	27.67	0.54	Modelled	Wet Weather Response	
7/22/20 3:48	Wet	0.67	48.44	0.38	Modelled	Wet Weather Response	
7/27/20 15:02	Wet	1.09	33.82	0.70	Modelled	Wet Weather Response	
8/1/20 14:49	Wet	1.81	96.16	2.42	Modelled	Wet Weather Response	
8/16/20 12:00	Wet	0.56	36.60	0.78	Modelled	Wet Weather Response	
8/26/20 10:01	Wet	0.32	24.26	0.46	Modelled	Wet Weather Response	
8/28/20 8:01	Wet	2.76	43.55	2.75	Modelled	Wet Weather Response	
9/2/20 4:33	Wet	0.45	29.43	0.38	Modelled	Wet Weather Response	
9/7/20 6:08	Wet	3.43	33.75	6.20	Modelled	Wet Weather Response	
9/13/20 8:05	Wet	0.39	20.14	0.43	Modelled	Wet Weather Response	
9/28/20 16:12	Wet	1.70	32.28	3.04	Modelled	Wet Weather Response	
9/30/20 19:57	Wet	0.59	66.65	0.65	Modelled	Wet Weather Response	
10/4/20 16:28	Wet	0.25	25.00	0.27	Modelled	Wet Weather Response	
10/10/20 20:05	Wet	0.04	7.80	0.03	Modelled	Wet Weather Response	
10/12/20 23:01	Wet	0.69	26.37	0.94	Modelled	Wet Weather Response	
10/15/20 13:20	Wet	0.20	24.90	0.18	Modelled	Wet Weather Response	
10/18/20 14:06	Wet	3.50	108.10	8.19	Modelled	Wet Weather Response	

CSO 232						Receiving Water:	Shaw Brook
Location:	S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl						
Treatment:	Floatables Control						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
10/23/20 18:00	Wet	0.59	30.48	0.68	Modelled	Wet Weather Response	
10/26/20 6:59	Wet	1.60	115.90	1.59	Modelled	Wet Weather Response	
11/1/20 7:33	Wet	0.14	19.57	0.10	Modelled	Wet Weather Response	
11/11/20 2:17	Wet	0.10	21.02	0.06	Modelled	Wet Weather Response	
11/15/20 0:27	Wet	0.35	29.06	0.35	Modelled	Wet Weather Response	
11/17/20 7:38	Wet	0.13	17.27	0.06	Modelled	Wet Weather Response	
11/22/20 7:33	Wet	0.74	33.67	0.90	Modelled	Wet Weather Response	
11/24/20 18:39	Wet	0.65	54.75	0.80	Modelled	Wet Weather Response	
11/30/20 5:22	Wet	2.59	58.66	2.69	Modelled	Wet Weather Response	
12/12/20 8:13	Wet	0.29	32.45	0.29	Modelled	Wet Weather Response	
12/17/20 22:09	Wet	0.11	27.75	0.08	Modelled	Wet Weather Response	
12/19/20 19:18	Wet	0.17	28.71	0.18	Modelled	Wet Weather Response	
12/21/20 20:25	Wet	0.11	20.67	0.07	Modelled	Wet Weather Response	
12/23/20 19:06	Wet	0.72	56.51	0.82	Modelled	Wet Weather Response	
12/27/20 22:07	Wet	0.13	23.43	0.10	Modelled	Wet Weather Response	
12/30/20 14:18	Wet	0.13	30.01	0.33	Modelled	Wet Weather Response	
Totals		**53.23**	**2982.81**	**69.74**			

CSO 233						Receiving Water:	Big Creek
Location:	W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
1/10/20 1:45	Wet	1.09	21.06	0.30	Modelled	Wet Weather Response	
1/18/20 2:10	Wet	0.73	9.65	0.44	Modelled	Wet Weather Response	
1/24/20 11:45	Wet	0.59	7.89	0.06	Modelled	Wet Weather Response	
2/5/20 21:10	Wet	0.56	2.64	0.12	Modelled	Wet Weather Response	
2/10/20 4:30	Wet	0.28	1.22	0.02	Modelled	Wet Weather Response	
2/12/20 21:01	Wet	0.37	3.86	0.10	Modelled	Wet Weather Response	
2/18/20 1:25	Wet	0.22	2.14	0.03	Modelled	Wet Weather Response	
2/24/20 22:20	Wet	0.62	2.42	0.06	Modelled	Wet Weather Response	
3/3/20 12:10	Wet	0.45	2.61	0.14	Modelled	Wet Weather Response	
3/10/20 10:20	Wet	0.28	3.05	0.05	Modelled	Wet Weather Response	
3/13/20 1:05	Wet	0.29	2.30	0.20	Modelled	Wet Weather Response	
3/18/20 16:40	Wet	1.43	7.16	1.06	Modelled	Wet Weather Response	
3/19/20 20:05	Wet	1.43	16.63	0.15	Modelled	Wet Weather Response	
3/22/20 22:26	Wet	0.19	1.03	0.01	Modelled	Wet Weather Response	
3/26/20 21:31	Wet	0.35	5.02	0.09	Modelled	Wet Weather Response	
3/28/20 0:00	Wet	2.82	35.48	2.83	Modelled	Wet Weather Response	
4/7/20 8:18	Wet	1.27	2.35	0.09	Modelled	Wet Weather Response	
4/7/20 23:15	Wet	1.27	3.57	0.81	Modelled	Wet Weather Response	
4/9/20 6:45	Wet	1.27	3.73	0.06	Modelled	Wet Weather Response	
4/13/20 6:28	Wet	0.43	4.18	0.03	Modelled	Wet Weather Response	

CSO 233						Receiving Water:	Big Creek
Location:	W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
4/16/20 0:45	Wet	0.22	1.57	0.01	Modelled	Wet Weather Response	
4/17/20 12:30	Wet	0.34	7.19	0.14	Modelled	Wet Weather Response	
4/26/20 3:20	Wet	0.55	7.07	0.36	Modelled	Wet Weather Response	
4/28/20 19:45	Wet	0.50	3.82	0.09	Modelled	Wet Weather Response	
5/10/20 18:15	Wet	0.68	13.65	0.34	Modelled	Wet Weather Response	
5/14/20 11:05	Wet	2.30	33.04	3.62	Modelled	Wet Weather Response	
5/17/20 17:15	Wet	1.51	3.39	0.65	Modelled	Wet Weather Response	
5/18/20 10:30	Wet	1.51	16.98	2.27	Modelled	Wet Weather Response	
5/22/20 5:25	Wet	0.46	9.21	0.27	Modelled	Wet Weather Response	
5/28/20 8:55	Wet	0.18	1.09	0.01	Modelled	Wet Weather Response	
5/29/20 15:15	Wet	0.46	3.40	0.48	Modelled	Wet Weather Response	
6/10/20 19:21	Wet	0.58	2.63	0.43	Modelled	Wet Weather Response	
6/18/20 20:10	Wet	0.15	2.22	0.88	Modelled	Wet Weather Response	
6/21/20 23:43	Wet	1.07	14.40	0.36	Modelled	Wet Weather Response	
6/23/20 11:10	Wet	1.07	2.91	0.70	Modelled	Wet Weather Response	
6/27/20 2:30	Wet	1.26	4.57	0.43	Modelled	Wet Weather Response	
7/10/20 14:20	Wet	2.26	16.35	1.07	Modelled	Wet Weather Response	
7/19/20 17:10	Wet	0.41	2.13	0.67	Modelled	Wet Weather Response	
7/22/20 4:40	Wet	0.67	2.23	0.14	Modelled	Wet Weather Response	
7/23/20 12:10	Wet	0.67	4.22	1.26	Modelled	Wet Weather Response	

CSO 233						Receiving Water:	Big Creek
Location:	W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/27/20 14:50	Wet	1.09	13.23	2.41	Modelled	Wet Weather Response	
8/1/20 17:31	Wet	1.81	6.13	0.83	Modelled	Wet Weather Response	
8/4/20 7:30	Wet	1.81	1.21	0.06	Modelled	Wet Weather Response	
8/16/20 12:10	Wet	0.56	3.73	1.09	Modelled	Wet Weather Response	
8/28/20 8:50	Wet	2.76	22.49	3.22	Modelled	Wet Weather Response	
9/2/20 9:25	Wet	0.45	4.52	0.27	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	8.32	7.26	Modelled	Wet Weather Response	
9/13/20 8:15	Wet	0.39	1.64	0.12	Modelled	Wet Weather Response	
9/28/20 17:10	Wet	1.70	6.48	1.78	Modelled	Wet Weather Response	
10/1/20 14:20	Wet	0.59	16.22	0.42	Modelled	Wet Weather Response	
10/4/20 17:25	Wet	0.25	1.57	0.08	Modelled	Wet Weather Response	
10/12/20 23:12	Wet	0.69	3.46	0.58	Modelled	Wet Weather Response	
10/19/20 5:05	Wet	3.50	5.64	0.25	Modelled	Wet Weather Response	
10/20/20 2:11	Wet	3.50	9.69	0.17	Modelled	Wet Weather Response	
10/21/20 1:41	Wet	3.50	7.95	4.16	Modelled	Wet Weather Response	
10/23/20 19:20	Wet	0.59	6.71	0.29	Modelled	Wet Weather Response	
10/27/20 18:10	Wet	1.60	5.30	0.02	Modelled	Wet Weather Response	
10/29/20 6:45	Wet	1.60	6.78	0.32	Modelled	Wet Weather Response	
10/30/20 1:40	Wet	1.60	5.24	0.34	Modelled	Wet Weather Response	
11/15/20 2:00	Wet	0.35	12.12	0.12	Modelled	Wet Weather Response	

CSO 233						Receiving Water:	Big Creek
Location:	W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
11/22/20 8:35	Wet	0.74	9.07	0.54	Modelled	Wet Weather Response	
11/25/20 11:55	Wet	0.65	12.73	0.09	Modelled	Wet Weather Response	
11/30/20 5:47	Wet	2.59	37.77	1.39	Modelled	Wet Weather Response	
12/12/20 15:25	Wet	0.29	1.99	0.08	Modelled	Wet Weather Response	
12/24/20 15:40	Wet	0.72	9.32	0.06	Modelled	Wet Weather Response	
12/30/20 18:21	Wet	0.13	3.88	0.09	Modelled	Wet Weather Response	
Totals		**69.68**	**513.31**	**46.89**			

CSO 234						Receiving Water:	Doan Brook
Location:	Doan Brook between Martin Luther King Blvd. & E 105th St. (E side of culvert), Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/18/20 18:15	Wet	1.43	4.16	0.12	Modelled	Wet Weather Response	
3/28/20 5:25	Wet	2.82	2.33	0.53	Modelled	Wet Weather Response	
3/29/20 1:15	Wet	2.82	11.08	2.19	Modelled	Wet Weather Response	
4/7/20 23:35	Wet	1.27	1.91	0.64	Modelled	Wet Weather Response	
5/14/20 18:40	Wet	2.30	0.75	0.11	Modelled	Wet Weather Response	
5/15/20 14:30	Wet	2.30	4.91	1.21	Modelled	Wet Weather Response	
5/17/20 18:30	Wet	1.51	1.00	0.16	Modelled	Wet Weather Response	

CSO 234						Receiving Water:	Doan Brook
Location:	Doan Brook between Martin Luther King Blvd. & E 105th St. (E side of culvert), Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Rockefeller Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/22/20 12:35	Wet	0.46	0.82	0.04	Modelled	Wet Weather Response	
5/29/20 15:45	Wet	0.46	0.66	0.04	Modelled	Wet Weather Response	
6/10/20 20:20	Wet	0.58	1.33	0.74	Modelled	Wet Weather Response	
6/23/20 12:20	Wet	1.07	1.33	0.75	Modelled	Wet Weather Response	
6/26/20 23:45	Wet	1.26	6.50	0.87	Modelled	Wet Weather Response	
7/10/20 16:20	Wet	2.26	17.74	4.40	Modelled	Wet Weather Response	
7/19/20 17:40	Wet	0.41	0.75	0.12	Modelled	Wet Weather Response	
7/27/20 16:30	Wet	1.09	0.83	0.04	Modelled	Wet Weather Response	
8/1/20 21:45	Wet	1.81	0.58	0.04	Modelled	Wet Weather Response	
8/4/20 7:15	Wet	1.81	1.75	1.61	Modelled	Wet Weather Response	
8/16/20 12:30	Wet	0.56	1.66	0.44	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	22.08	1.99	Modelled	Wet Weather Response	
9/2/20 10:35	Wet	0.45	0.75	0.07	Modelled	Wet Weather Response	
9/7/20 7:25	Wet	3.43	7.41	7.67	Modelled	Wet Weather Response	
9/13/20 8:35	Wet	0.39	0.83	0.18	Modelled	Wet Weather Response	
9/28/20 17:35	Wet	1.70	5.75	2.75	Modelled	Wet Weather Response	
10/1/20 19:45	Wet	0.59	0.58	0.04	Modelled	Wet Weather Response	
10/12/20 23:45	Wet	0.69	2.58	0.36	Modelled	Wet Weather Response	
10/21/20 3:10	Wet	3.50	6.33	6.39	Modelled	Wet Weather Response	
10/22/20 4:35	Wet	3.50	1.57	0.06	Modelled	Wet Weather Response	
Totals		**43.23**	**107.99**	**33.57**			

CSO 238						Receiving Water:	Rocky River
Location:	N side of apartment parking lot at Rocky River Rd. & Fairway Ave., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:20	Wet	2.82	1.07	0.13	Modelled	Wet Weather Response	
5/15/20 16:25	Wet	2.30	2.82	0.97	Modelled	Wet Weather Response	
5/18/20 18:40	Wet	1.51	6.49	0.03	Modelled	Wet Weather Response	
6/18/20 20:30	Wet	0.15	0.72	0.04	Modelled	Wet Weather Response	
7/23/20 12:40	Wet	0.67	0.57	0.01	Modelled	Wet Weather Response	
7/27/20 16:10	Wet	1.09	1.63	0.66	Modelled	Wet Weather Response	
8/16/20 12:36	Wet	0.56	0.56	0.02	Modelled	Wet Weather Response	
8/28/20 9:29	Wet	2.76	7.90	0.18	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	7.49	5.69	Modelled	Wet Weather Response	
9/28/20 18:15	Wet	1.70	1.40	0.12	Modelled	Wet Weather Response	
10/21/20 3:25	Wet	3.50	4.07	2.03	Modelled	Wet Weather Response	
Totals		**20.49**	**34.72**	**9.88**			

CSO 239						Receiving Water:	Euclid Creek
Location:	E shore of Euclid Creek at Lakeshore Blvd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach and Euclid Beach)			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Monitored		
Totals		**0.00**	**0.00**	**0.00**			

CSO 240						Receiving Water:	Cuyahoga River
Location:	Jefferson Ave., E of W 3rd St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:09	Wet	2.82	2.46	0.02	Modelled	Wet Weather Response	
3/29/20 1:47	Wet	2.82	2.13	0.09	Modelled	Wet Weather Response	
5/15/20 14:10	Wet	2.30	5.03	0.10	Modelled	Wet Weather Response	
5/18/20 18:07	Wet	1.51	7.99	0.01	Modelled	Wet Weather Response	
5/27/20 14:15	Dry	0.00	1.50	0.01	Modelled	Debris - Grit, Wood, Grease, Bottles, ect.	
7/11/20 1:06	Wet	2.26	5.48	0.05	Modelled	Wet Weather Response	

CSO 240						Receiving Water:	Cuyahoga River
Location:	Jefferson Ave., E of W 3rd St., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/28/20 9:09	Wet	2.76	21.43	0.03	Modelled	Wet Weather Response	
9/7/20 7:05	Wet	3.43	7.02	0.57	Modelled	Wet Weather Response	
9/28/20 17:08	Wet	1.70	5.96	0.02	Modelled	Wet Weather Response	
10/2/20 12:30	Dry	0.18	4.50	0.01	Modelled	Debris - Grit, Wood, Grease, Bottles, ect.	
10/21/20 3:01	Wet	3.50	4.70	0.38	Modelled	Wet Weather Response	
Totals		**23.28**	**68.19**	**1.29**			

CSO 241						Receiving Water:	Big Creek
Location:	I-71 under Eaton Corp. sign, Brooklyn						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
5/15/20 17:30	Wet	2.30	1.50	0.32	Modelled	Wet Weather Response	
9/7/20 8:10	Wet	3.43	6.75	6.64	Modelled	Wet Weather Response	
10/21/20 4:20	Wet	3.50	3.06	1.51	Modelled	Wet Weather Response	
Totals		**9.23**	**11.30**	**8.47**			

CSO 242						Receiving Water:	Lake Erie
Location:	E 142nd St. & Lakeshore Blvd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Northeast Yacht Club			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
7/10/20 17:10	Wet	1.43	0.50	0.22	Monitored	Wet Weather Response	
7/11/20 7:55	Wet	2.43	1.83	0.54	Monitored	Wet Weather Response	
10/21/20 4:20	Wet	2.50	3.00	0.47	Monitored	Wet Weather Response	
Totals		**6.36**	**5.33**	**1.23**			

CSO 243						Receiving Water:	Mill Creek
Location:	In ravine, W of Warner Rd., S of Garfield Rd., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 1:15	Wet	2.82	1.99	0.06	Modelled	Wet Weather Response	
5/15/20 17:06	Wet	2.30	1.05	0.04	Modelled	Wet Weather Response	
8/28/20 9:10	Wet	2.76	7.91	0.04	Modelled	Wet Weather Response	
9/7/20 7:20	Wet	3.43	6.90	0.13	Modelled	Wet Weather Response	
9/28/20 18:15	Wet	1.70	0.83	0.02	Modelled	Wet Weather Response	
Totals		**13.01**	**18.67**	**0.29**			

CSO 245						Receiving Water:	Wolf Creek
Location:	Edgepark Dr. at E 117 St. (North), Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 246						Receiving Water:	Mill Creek
Location:	Broadway Ave. at Mill Creek, E wall of bridge, Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 247						Receiving Water:	Mill Creek
Location:	East Blvd. at Cranwood Creek, N of Thornhurst Ave., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:00	Wet	2.82	1.16	0.06	Modelled	Wet Weather Response	
8/28/20 9:21	Wet	2.76	0.87	0.01	Modelled	Wet Weather Response	
9/7/20 8:05	Wet	3.43	3.07	0.06	Modelled	Wet Weather Response	
Totals		**9.01**	**5.10**	**0.14**			

CSO 249						Receiving Water:	Wolf Creek
Location:	450 feet E of E 119th St. & 250 feet N of McCracken Rd., Garfield Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Garfield Park Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
Modelling Data Not Available					N/A		
Totals		**0.00**	**0.00**	**0.00**			

CSO 250						Receiving Water:	Cuyahoga River
Location:	Along Cuyahoga River, 370 feet S of Canal Rd., E side of I-77 bridge, Cuyahoga Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Towpath Trail			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 252						Receiving Water:	Ohio Canal
Location:	Between E 71st St. & I-77, S of building at 4620 E 71st St., Cuyahoga Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 1:30	Wet	2.82	2.33	0.76	Modelled	Wet Weather Response	
5/15/20 17:10	Wet	2.30	1.91	0.47	Modelled	Wet Weather Response	
8/28/20 9:25	Wet	2.76	7.75	0.41	Modelled	Wet Weather Response	
9/7/20 7:50	Wet	3.43	6.33	1.66	Modelled	Wet Weather Response	
9/28/20 18:30	Wet	1.70	1.04	0.09	Modelled	Wet Weather Response	
Totals		**13.01**	**19.36**	**3.39**			

CSO 254						Receiving Water:	Rocky River
Location:	Sunset & Metropolitan, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				Cleveland Metroparks: Rocky River Reservation			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
No Discharge					Modelled		
Totals		**0.00**	**0.00**	**0.00**			

CSO 255						Receiving Water:	Big Creek
Location:	Cooley Ave. relief under bridge, E of Bellaire & Kensington, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/28/20 5:55	Wet	2.82	1.60	0.11	Modelled	Wet Weather Response	
3/29/20 0:51	Wet	2.82	2.80	0.65	Modelled	Wet Weather Response	
4/7/20 23:40	Wet	1.27	1.16	0.16	Modelled	Wet Weather Response	
5/15/20 16:35	Wet	2.30	2.66	1.35	Modelled	Wet Weather Response	
5/18/20 18:40	Wet	1.51	7.08	0.43	Modelled	Wet Weather Response	
6/23/20 11:35	Wet	1.07	1.25	0.51	Modelled	Wet Weather Response	
6/27/20 0:00	Wet	1.26	0.66	0.07	Modelled	Wet Weather Response	
7/11/20 1:00	Wet	2.26	0.66	0.05	Modelled	Wet Weather Response	
7/23/20 10:50	Wet	0.67	0.83	0.17	Modelled	Wet Weather Response	
7/27/20 15:45	Wet	1.09	1.91	0.66	Modelled	Wet Weather Response	

CSO 255						Receiving Water:	Big Creek
Location:	Cooley Ave. relief under bridge, E of Bellaire & Kensington, Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
8/16/20 12:35	Wet	0.56	1.07	0.17	Modelled	Wet Weather Response	
8/28/20 9:25	Wet	2.76	8.41	0.51	Modelled	Wet Weather Response	
9/7/20 7:15	Wet	3.43	7.75	9.10	Modelled	Wet Weather Response	
9/28/20 17:35	Wet	1.70	2.18	0.52	Modelled	Wet Weather Response	
10/12/20 23:55	Wet	0.69	0.75	0.08	Modelled	Wet Weather Response	
10/21/20 3:00	Wet	3.50	4.57	4.32	Modelled	Wet Weather Response	
10/23/20 19:45	Wet	0.59	0.91	0.09	Modelled	Wet Weather Response	
Totals		**30.30**	**46.25**	**18.94**			

CSO 256						Receiving Water:	Green Creek
Location:	2053 Green Rd., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:26	Wet	2.82	0.97	0.05	Modelled	Wet Weather Response	
6/23/20 12:35	Wet	1.07	0.67	0.04	Modelled	Wet Weather Response	
7/11/20 2:40	Wet	2.26	6.74	0.30	Modelled	Wet Weather Response	
8/4/20 7:35	Wet	1.81	0.91	0.08	Modelled	Wet Weather Response	
8/28/20 9:25	Wet	2.76	0.96	0.07	Modelled	Wet Weather Response	
8/29/20 5:45	Wet	2.76	0.58	0.03	Modelled	Wet Weather Response	
9/7/20 8:05	Wet	3.43	5.16	0.15	Modelled	Wet Weather Response	
10/21/20 3:45	Wet	3.50	4.95	0.55	Modelled	Wet Weather Response	
Totals		**20.41**	**20.93**	**1.27**			

CSO 257						Receiving Water:	Spring Creek
Location:	Jennings Rd. near Georgette Ln., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:20	Wet	3.43	0.73	0.02	Modelled	Wet Weather Response	
Totals		**3.43**	**0.73**	**0.02**			

CSO 258						Receiving Water:	Mill Creek
Location:	Mill Creek Tunnel Silo, Cuyahoga Heights						
Treatment:	None						
Potentially Impacted Public Access Area:				N/A			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
3/29/20 2:25	Wet	2.18	7.42	29.10	Monitored	Wet Weather Response	
5/15/20 18:45	Wet	1.94	5.25	24.11	Monitored	Wet Weather Response	
5/16/20 0:00	Wet	0.00	0.50	0.40	Monitored	Wet Weather Response	
8/28/20 20:25	Wet	3.17	0.83	0.64	Monitored	Wet Weather Response	
9/7/20 10:20	Wet	3.74	7.75	43.39	Monitored	Wet Weather Response	
10/21/20 6:15	Wet	1.72	4.17	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
Totals		**12.75**	**25.92**	**97.64**			

CSO SAPS						Receiving Water:	Cuyahoga River
Location:	425' SW of Intersection of Superior Ave. & Robert Lockwood Jr. Dr., Cleveland						
Treatment:	None						
Potentially Impacted Public Access Area:				City of Cleveland: Settler's Landing Park			
CSO Event Date	**Dry or Wet Weather**	**Estimated Rainfall Total (in)**	**Event Duration (hr)**	**Overflow Volume (MG)**	**Site Modelled or Monitored**	**Cause**	**Comments**
9/7/20 10:15	Wet	3.43	1.40	1.15	Modelled	Wet Weather Response	
10/21/20 4:25	Wet	3.50	1.83	0.54	Modelled	Wet Weather Response	
Totals		**6.93**	**3.22**	**1.69**			