



March 25, 2021

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EES Case Management Unit
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611 Washington, D.C. 20044-7611

Subject: City of Cleveland Heights 2020 Annual Report

Dear Regulators:

The City of Cleveland Heights is pleased to submit the 2020 Annual Report as required under CD Main Text Section VII Paragraph 43 of the Partial Consent Decree.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any additional questions, please do not hesitate to contact me at cclinkscale@clvhts.com or Law Director William Hanna at whanna@clvhts.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Collette Clinkscale".

Collette Clinkscale
Director of Public Works
City of Cleveland Heights

Attachment

Cc: William Hanna, Law Director, City of Cleveland Heights
Anthony Ferrone, Utilities Commissioner, City of Cleveland Heights
Louis McMahon, McMahon DeGulis LLP (Outside Legal Counsel)
Kevin Vander Tuig, Wade Trim (Outside Engineer)



**City of Cleveland Heights
Partial Consent Decree
2020 Annual Report**

Final

March 2021



2020 Annual Report

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1.0 INTRODUCTION

In 2017, the City of Cleveland Heights entered into a Partial Consent Decree (CD) with the U.S. Environmental Protection Agency (USEPA) and the U.S. Department of Justice (DOJ) to define and develop a plan to control sewer system overflows. The CD requires Cleveland Heights to submit an Annual Report to USEPA and Ohio EPA by March 31 of each year, after the effective year of the report. The report must contain all information necessary to determine Cleveland Heights’ compliance with its CD requirements.

1.1 ANNUAL REPORT REQUIREMENTS

The CD requirements for the Annual Report are summarized in **Table 1** along with their reference sections.

Table 1. Cleveland Heights Annual Report Requirements	
CD Section Reference	Reporting Requirement
VII.a	A description of project and activities conducted during the reporting period to comply with the requirements of this Decree, a projection of work to be performed pursuant to this consent decree during the next reporting period, and notice of any anticipated failures to meet future requirements of the Consent Decree or approved plans.
VII.b	A trends analysis of the number, volume, duration, and causes of the City's SSOs for a rolling 24-month period updated to reflect the SSOs that occurred during the reporting period, including identification of any newly identified and/or previously unknown SSOs and Cross Connections discovered during the reporting period.
VII.c	A compilation of the information about each SSO during the applicable reporting period, as required by the Monthly SSO Reports described in Paragraph 44.c. along with identification of any cause or condition that contributed to each SSO and all remedial actions taken to mitigate the effects of each SSO or prevent SSO recurrence.
VII.d	Information that Cleveland Heights obtained or received (e.g. customer complaints) regarding discharges from private laterals, including any information received specifying the location of the discharge, and a description of the circumstances of the discharge.
VII.e	Description of any non-compliance with the requirements of the Consent Decree.
Appendix B Paragraph 7	Include a summary list of all documented training activities completed by how many of each category of employee during the applicable reporting period.
Appendix B Paragraph 16	As part of the Annual Report, Cleveland Heights shall provide: <ol style="list-style-type: none"> a. the total miles of unique sanitary lines cleaned during the reporting period b. total miles of sanitary sewer lines cleaned during the reporting period c. an identification of whether particular sewer segments were added or removed from High Frequency Cleaning (HFC) list. d. legible map depicting the locations cleaned as part of the routine cleaning program and HFC program.

Table 1. Cleveland Heights Annual Report Requirements

CD Section Reference	Reporting Requirement
Appendix B Paragraph 20	As part of the Annual Report, Cleveland Heights shall provide: <ol style="list-style-type: none"> the location and total miles of the portions of the sanitary sewer system inspected under the sewer system internal inspection program. the locations of the manholes inspected under the sewer system manhole inspection program.
Appendix B Paragraph 43, g.	Cleveland Heights shall report the number of enforcement actions initiated and concluded during the prior calendar year.

2.0 OVERVIEW OF PROJECTS AND ACTIVITIES CONDUCTED AND PLANNED

2.1 ACTIVITIES CONDUCTED IN 2020

The CD was lodged in June 2017. All required 2020 activities were completed by Cleveland Heights in a timely manner. **Table 2** outlines the specific CD requirements, the sections, and the date completed or approved by EPA.

Table 2. 2020 Consent Decree Requirements Completed by Cleveland Heights

Requirement	CD Citation	Date Submitted
2019 Annual Report	CD Main Text Section VII Paragraph 43	March 2020
Submitted Phase 1 Report to EPA	CD Main Text Section V. B Paragraph 18	January 31, 2020
Develop and submit Capacity Assessment Report	CD Main Text Section V. E Paragraph 28	February 27, 2020
Real Time Monitoring (10 SSO) Locations	Appendix A Section III Paragraph 15	August – November 2020
Clean minimum of 25 miles of sanitary sewer	Appendix B Section E Paragraph 13.c	December 31, 2020

Other activities completed by Cleveland Heights in 2020 include the following:

- Replaced 2 invert plates found to be missing or damaged at over/under common trench manholes during manhole inspections.
- Replaced 268 linear feet of damaged sanitary sewer on Renrock Road.
- Replaced damaged sanitary sewer manhole and pipe connection at 3176 Fairmount Boulevard.
- Completed design for Delamere Drive Basement Flooding Relief Project.
- Maintained signage to inform the public that a rain-related sewer overflow may occur at locations where a waterway could be accessed by the public.

- Continued using Lucity asset management software to track and create field work orders for Sewer Department personnel.
- Continued developing Standard Operating Procedures for field activities that will allow for standardized and efficient practices.
- Placed sealed disks in the sanitary pipe access pipe in over/under piped access manholes.

2.2 ACTIVITIES PLANNED IN 2021

Cleveland Heights will continue advancing CD activities in 2021 by completing the requirements and deliverables summarized in **Table 3**.

Table 3. 2021 Consent Decree Requirements to be Completed by Cleveland Heights		
Requirement	CD Citation	Schedule
Submit Integrated Overflow Control Master Plan	CD Main Text Section V. F. Paragraph 30	June 1, 2021
Complete Phase 2 of the SSES	CD Main Text Section V. B. Paragraph 43	June 30, 2021
Complete all action required in Section V	CD Main Text Section V Paragraph 12	June 30, 2021
Submit SSES Phase 2 report to EPA	CD Main Text Section V. B. Paragraph 19	September 30, 2021
Annual real time SSO Monitoring	Appendix A Section III Paragraph 15	End of 2021
Clean minimum of 25 miles of sanitary sewer	Appendix B Section E Paragraph 13.c	End of 2021

Other activities planned for 2021 include the following:

- Identify potential project(s) for submittal under District MCIP.
- Continue CMOM implementation.
- Complete construction of the Delamere Drive Basement Flooding Relief Sewer project.
- Replace any additional missing invert plates identified.

3.0 SANITARY SEWER OVERFLOWS

Figure 1 shows the known SSO structure locations in Cleveland Heights as of the end of 2020.

3.1 2020 SSO MONITORING

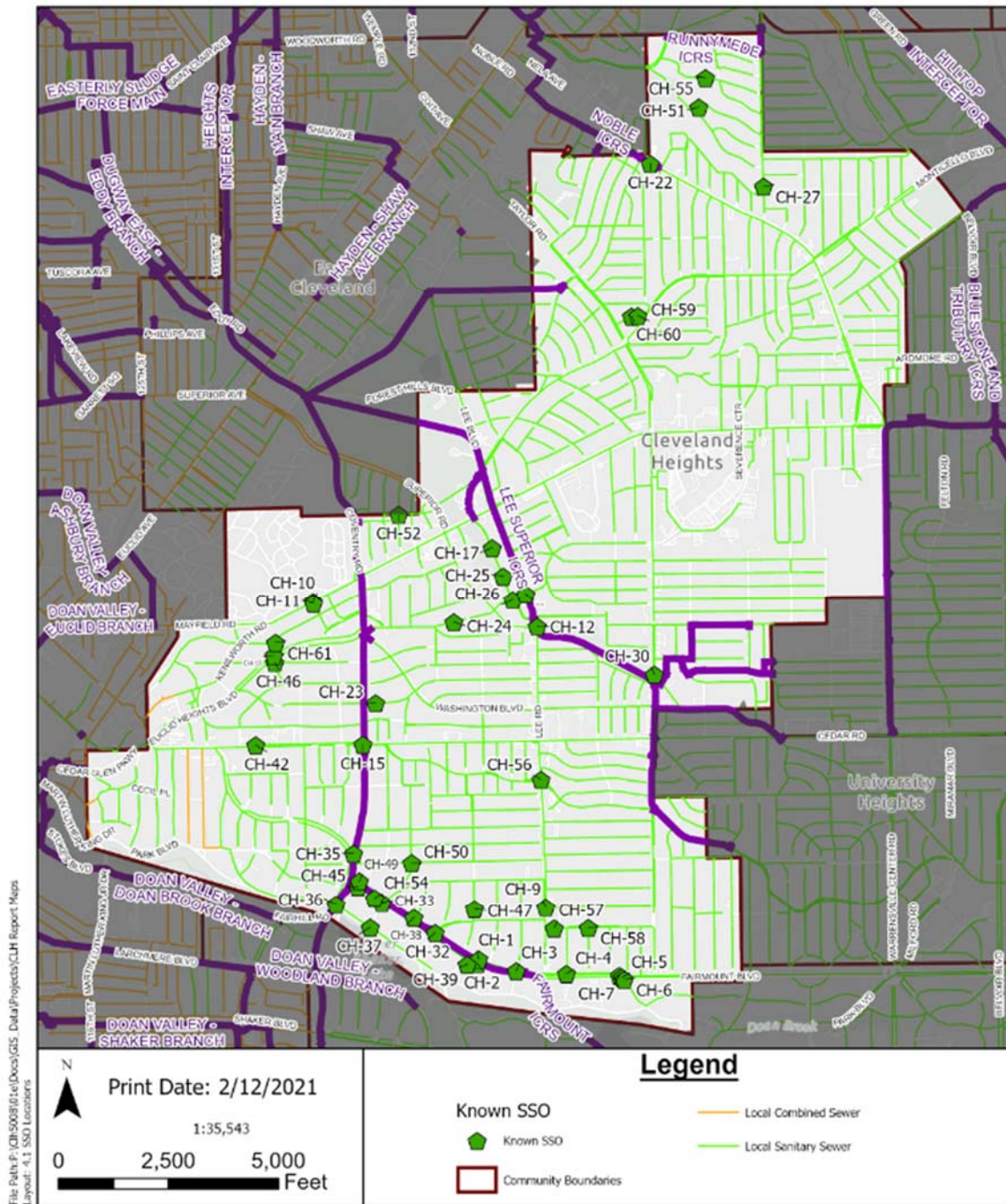
As required by the CD, Cleveland Heights provides monitoring of all known SSOs after precipitation events greater than 0.25 inches. Tethered wooden blocks are used to detect overflows. The City provides monthly monitoring reports of the tethered block monitoring results to USEPA. From August through November of 2020, Cleveland Heights performed required real time flow monitoring at 10 of the most active SSO locations using electronic recording flow meters. A summary of SSO activations

recorded during 2020 is provided in **Appendix A** of this report. Tethered block monitoring is temporarily suspended at SSOs where electronic flow monitoring is ongoing.

3.2 SSO TRENDS ANALYSIS

Table 4 summarizes an activation trends analysis for the previous 24 months as required by the CD. Details of the information and associated 2020 rainfalls are provided in **Appendix A**. The current analysis focuses on activations. SSO volume and duration information projected using the InfoWorks ICM model is provided in the Capacity Assessment report, submitted to USEPA in March 2020 (Updated February 15, 2021). Notes for **Table 4** follow the table.

Figure 1. Known SSO Structures – 2020



File Path: F:\CH\5008\GIS\Doc\GIS Data\Projects\CH Report Maps
Layout: 4.1 SSO Locations

Table 4. SSO Activations for 2019 and 2020

SSO ID	Location (Real time monitoring locations*)	Receiving Stream	5-Yr, 1-Hr Model Activation (Yes/No)	2019 Observed Activations	2020 Observed Activations
CH-1	Fairmount at North Woodland (3041)	Doan Brook	No	1	4
CH-2	Fairmount at North Woodland (3026)	Doan Brook	Yes	1	1
CH-3	Fairmount at Wellington	Doan Brook	No	0	3
CH-4	Fairmount at Dartmoor	Doan Brook	No	1	1
CH-5	Fairmount at South Fairmount	Doan Brook	No	1	6
CH-6	Fairmount at South Fairmount	Doan Brook	No	0	4
CH-7	Fairmount at South Fairmount	Doan Brook	No	0	4
CH-9	Bradford and Lee	Doan Brook	Yes	19*	21*
CH-10	Hampshire Lane at Mayfield (18")	Dugway Brook	Yes	0	1
CH-11	Hampshire Lane at Mayfield (36")	Dugway Brook	No	3	1
CH-12	Lee at Superior	Dugway Brook	Yes	9	8*
CH-13	Hampshire Lane at Euclid Heights Blvd	Doan Brook	Yes	5	3*
CH-15	Coventry at Cedar	Doan Brook	No	1	1
CH-17	1685 Cumberland	Dugway Brook	Yes	4	4
CH-22	2225 Noble Road	9 Mile Creek	Yes	1	0
CH-23	Fairmount at North Woodland (3026)	Dugway Brook	Yes	1	2
CH-24	3003 Euclid Heights Blvd	Dugway Brook	No	1	2
CH-25	Cumberland/Somerton	Dugway Brook	No	9	6
CH-26	Euclid Heights Blvd/Cumberland	Dugway Brook	No	6	4
CH-27	Quilliams, N. of Randolph	9 Mile Creek	Yes	7	6*
CH-28	Euclid Heights Blvd and Lee	Dugway Brook	Yes	13*	10
CH-30	Taylor N of Superior	Dugway Brook	Yes	18*	18*
CH-32	Fairmount at Arlington	Doan Brook	No	4	4
CH-33	Fairmount at Fairfax	Doan Brook	Yes	10	15*
CH-35	2393 Coventry, w. of Fairmount	Doan Brook	Yes	11	10
CH-36	North Park and Coventry	Doan Brook	No	4	6

Table 4. SSO Activations for 2019 and 2020					
SSO ID	Location (Real time monitoring locations*)	Receiving Stream	5-Yr, 1-Hr Model Activation (Yes/No)	2019 Observed Activations	2020 Observed Activations
CH-37	Fairfax at North Park	Doan Brook	Yes	4	6
CH-38	Fairmount at Marlboro	Doan Brook	No	2	2
CH-39	3012 North Woodland	Doan Brook	Yes	1	1
CH-42	12537 Cedar Road	Doan Brook	No	1	6
CH-45	2764 Fairmount, in Island	Doan Brook	No	4*	3*
CH-46	Edgehill at Euclid Heights Blvd	Doan Brook	Yes	5	9
CH-47	2528 Stratford, N. of Monmouth	Doan Brook	No	2	2
CH-49	2765 Fairmount, Just E. of Church	Doan Brook	Yes	2	1
CH-50	Scarborough at Lamberton	Doan Brook	Yes	9	8
CH-51	Langton at Atherstone	Nine Mile	Yes	14*	13*
CH-52	Eddington at Avondale	Dugway Brook	No	0	2
CH-54	2806 Fairmount	Doan Brook	No	0	0
CH-55	3600 Fenley Road	Nine Mile	Yes	1*	3
CH-56	Lee at Meadowbrook	Dugway Brook	Yes	6*	10*
CH-57	E. Monmouth, W. of Dartmoor	Doan Brook	Yes	3*	1
CH-58	E. Monmouth at Exeter	Doan Brook	Yes	0	8*
CH-59	3427 Thorne Road	Dugway Brook	No	1	0
CH-60	3415 Thorne Road	Dugway Brook	No	0	1
CH-61	2600 Hampshire Road	Doan Brook	Yes	2*	7*

Notes for Table 4:

1. Activation information is based on real time flow monitoring (*), installed September-November 2019 and August-November 2020, and tethered block checks for storms greater than 0.25 inches in total volume.
2. Events monitored: 32 in 2019 and 34 in 2020. Number of events monitored for each specific SSO can be found in Appendix A.

3.3 NEWLY IDENTIFIED SSOS

No new SSOS were identified in 2020.

4.0 CUSTOMER COMPLAINTS

Cleveland Heights tracks phone calls from residents and follow-up house calls by logging them into its Lucy work order management system. In 2020, the Cleveland Heights Utilities Department received

calls from approximately 426 addresses reporting various water-related issues on private property. Most calls were related to backups in basements and, in most cases, the backups were related to unmaintained sanitary and/or storm sewer laterals on the property as opposed to mainline sewer issues. **Appendix B** of this report shows the listing of addresses of customer calls, date(s) of Cleveland Heights response, and any notes from the responding crew. Sewer main issues found as a result of customer calls were resolved in an efficient manner. The Capacity Assessment and upcoming Integrated Overflow Control Master Plan activities will identify backups caused by system capacity deficiencies and/or excessive inflow/infiltration (I/I).

5.0 NON-COMPLIANCE

The City of Cleveland Heights has met all CD requirements for the 2020 reporting period.

6.0 TRAINING ACTIVITIES

In 2020, training sessions were held in accordance with the CMOM program. **Table 5** summarizes training courses held, dates, and employees that were trained. Cleveland Heights is using Lucity to track training participation among Sewer Department employees. Gatherings were limited due to Covid-19 guidelines.

Training Topic	Date	Attendees
Operation of GAP Vac Truck	March 24	Blatnica, Claggett, Eathridge, McCoy, Owens
CCTV Truck Operations	August 25	Blatnica, Claggett, Eathridge, McCoy, Owens
Good Housekeeping/ Environmental Responsibility	December 10	Belton, Blatnica, Cardarella, Corbo, DelZoppo, Eathridge, Ferrone, Jackson, Kickel, Maltese, Manco, Mandato, McCoy, Owens

7.0 CLEANING AND INSPECTION STATISTICS

The Cuyahoga County Department of Public Works (CCDPW), C&K Industrial Services, and Cleveland Heights crews performed field activities in Cleveland Heights as summarized in **Table 6**. **Figure 2** provides a map of the SSES inspection progress. **Figure 3** shows unique cleaning, high frequency, and other maintenance cleaning locations. **Figure 4** shows the MACP inspection locations.

Table 6. Field Work Activities and Quantities in Cleveland Heights in 2020

Activity	Quantity Completed
CCTV inspection, miles	27.4
Unique sanitary sewer cleaned, miles	27.4
High frequency cleaning or other maintenance cleaning, miles	0.6
Total sewer cleaning length, miles	28
Catch basin connectivity testing, #	1
MACP inspections, #	14

The High Frequency Cleaning (HFC) list was updated by Cleveland Heights during CMOM program development in 2017. No new HFC locations were added or removed from the list.

8.0 CMOM PROGRAM IMPLEMENTATION

The Cleveland Heights CMOM program went into effect on February 1, 2018 and includes an implementation plan with timeframes to complete important milestones. **Table 7** provides an update on the 3-year milestones and completion status. Additional SOPs developed by the Sewer Department in 2020 are attached in **Appendix C**.

Table 7. CMOM Implementation Plan Status Update 2020

Program Milestone	Description	Time Frame	Completed (yes/no)
Capital Planning Enhancement	Update CIP which was last updated in 2003 and evaluate on an annual basis based on findings from IOCMP and subsequent IOCMP activities.	3 years	In progress
Computerized Work Management	Advance data collection by implementing computerized work order tracking for CMOM preventative maintenance work orders.	3 years	yes

9.0 ENFORCEMENT ACTIONS

No enforcement actions were required during the 2020 reporting period.

Figure 2. Sanitary Sewer Televising Performed in Cleveland Heights in 2020

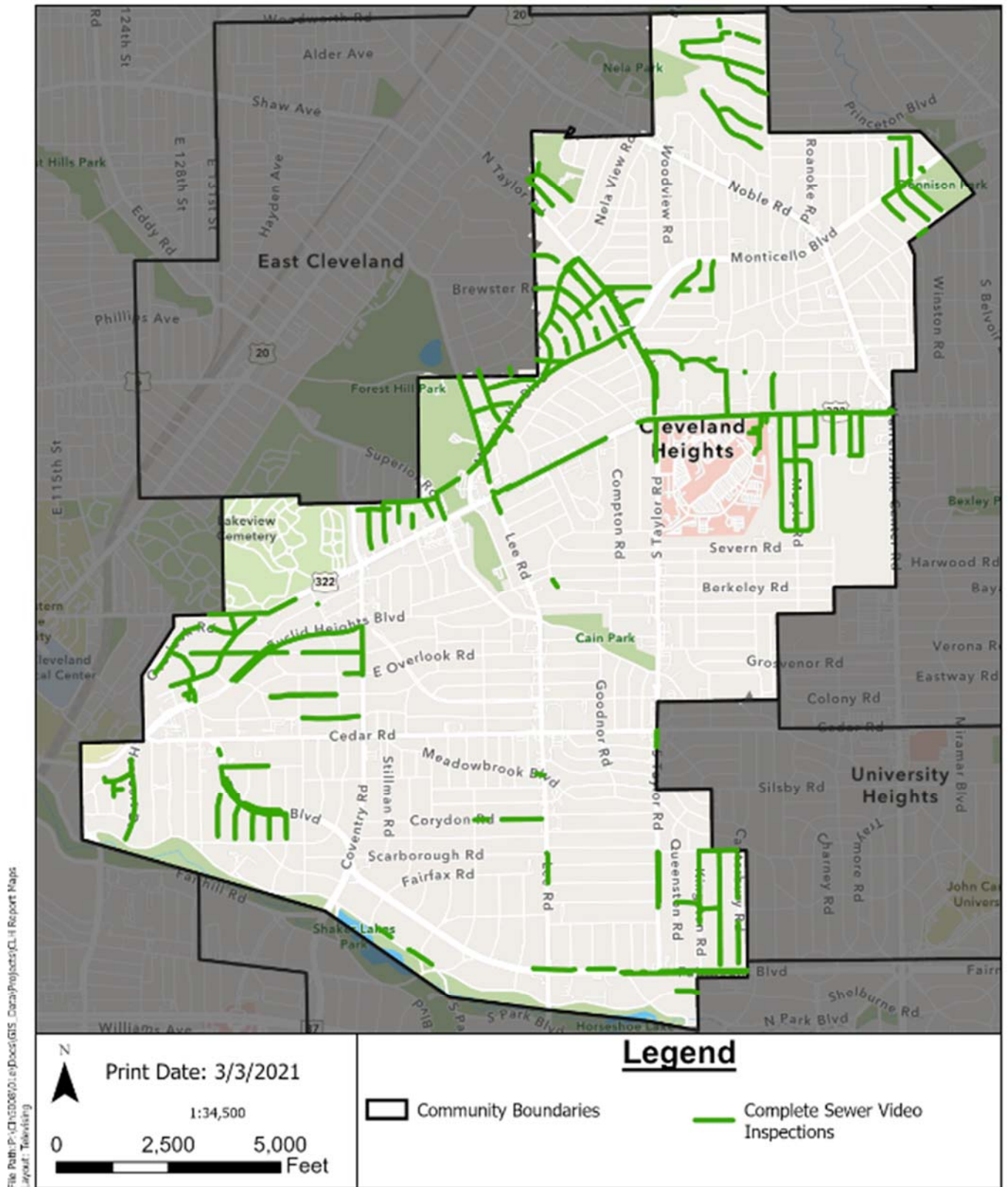


Figure 3. Sanitary Sewer Cleaning Performed in Cleveland Heights in 2020

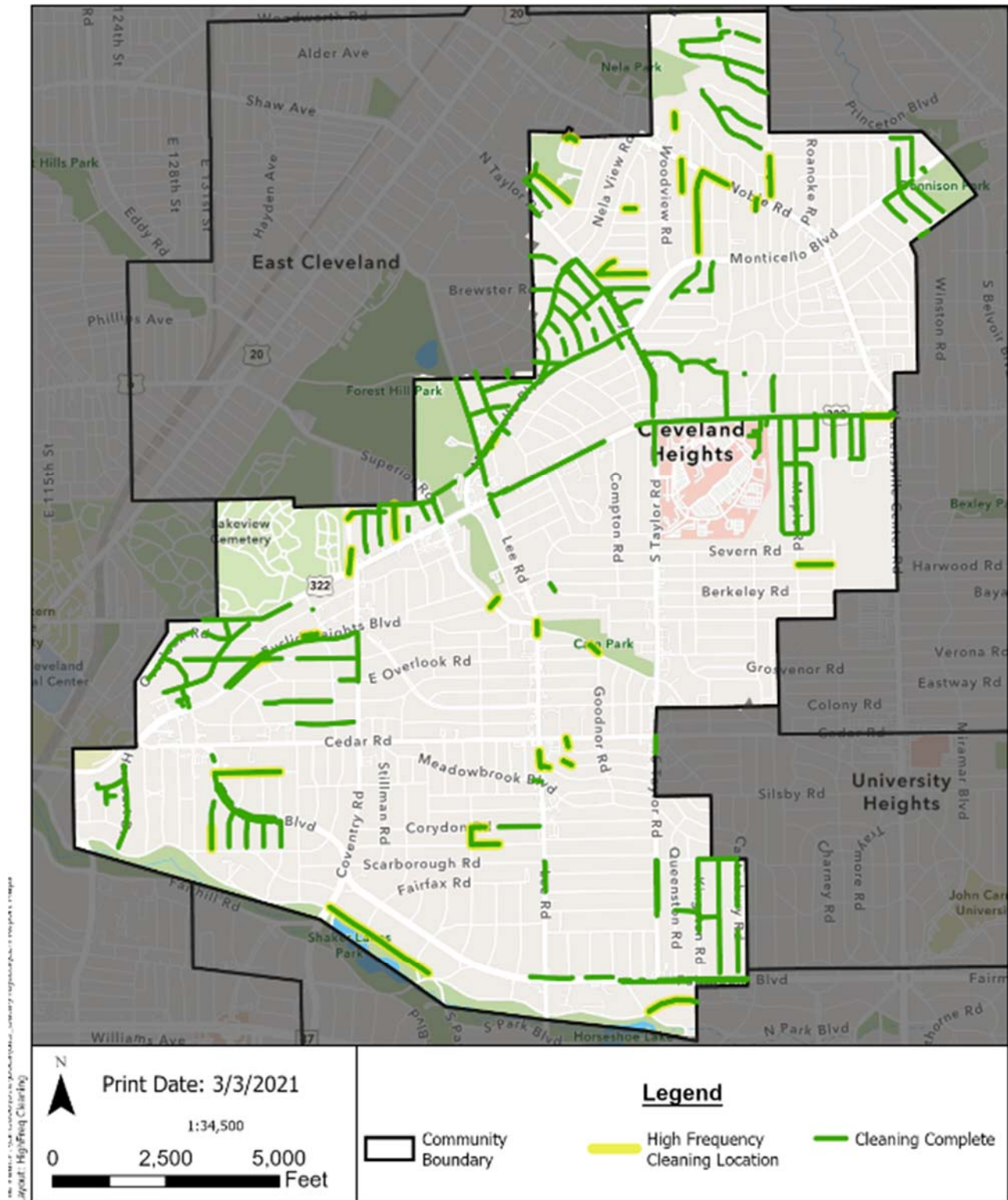
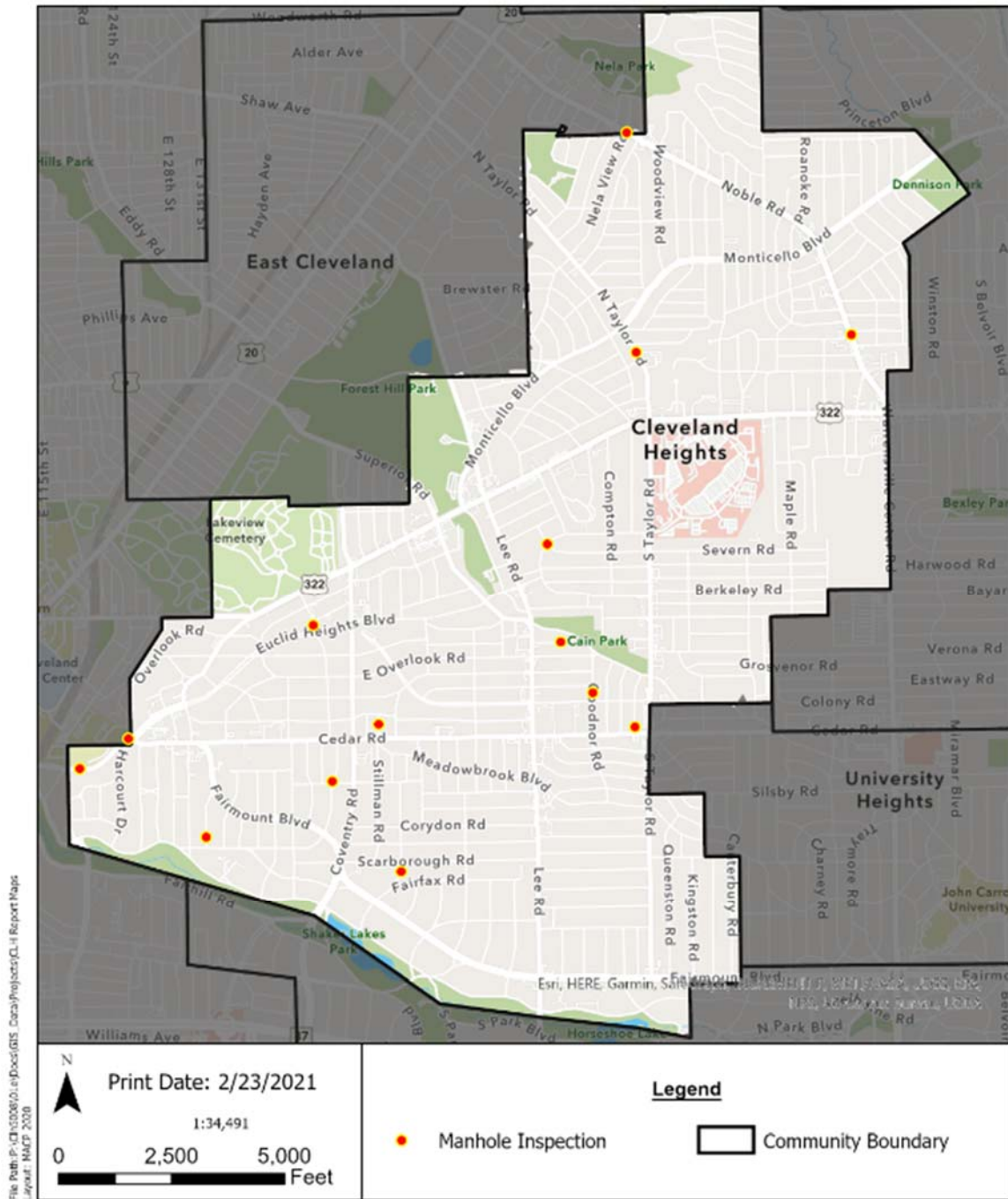


Figure 4. Sanitary MACP Inspections Performed in Cleveland Heights in 2020



APPENDIX A – 2020 SSO ACTIVATION SUMMARY

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 1		Event 2		Event 3		Event 4	
					1/10/2020		1/18/2020		1/24/2020		2/6/2020	
					0.81 in (UH)	0.11 in/hr (UH)	0.61 in (UH)	0.14 in/hr (UH)	0.35 in (UH)	0.09 in/hr (UH)	0.43 in (UH)	0.37 in/hr (UH)
					0.81 in (SH)	0.12 in/hr (SH)	0.70 in (SH)	0.17 in/hr (SH)	0.41 in (SH)	0.11 in/hr (SH)	0.35 in (SH)	0.29 in/hr (SH)
					0.89 in (SE)	0.13 in/hr (SE)	0.76 in (SE)	0.18 in/hr (SE)	0.39 in (SE)	0.1 in/hr (SE)	NA in (SE)	NA in/hr (SE)
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	Yes	Block	No
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	Yes	Block	No
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	No	Block	No
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	Yes	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	34	21	62%	Block	No	Block	No	Block	Yes	Block	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	Yes	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	Yes	Block	No	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	Yes	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	Block	Yes	Block	Yes	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	Block	Yes	Block	Yes	Block	No	Block	No
CH-30	Dugway Brook	34	18	53%	Block	No	Block	No	Block	No	Block	No
CH-32	Doan Brook	34	4	12%	Block	Yes	Block	No	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	Block	No	Block	No	Block	No	Block	No
CH-35	Doan Brook	33	10	30%	Block	No	Block	No	Block	No	Block	No
CH-36	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	33	2	6%	Block	Yes	Block	No	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	34	9	26%	Block	No	Block	No	Block	No	Block	Yes
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	34	8	24%	Block	No	Block	No	Block	Yes	Block	No
CH-51	Nine Mile	33	13	39%	Block	Yes	Block	No	Block	No	Block	Yes
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	Block	No	Block	No	Block	No	Block	Yes
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.												
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font												

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 5		Event 6		Event 7		Event 8	
					2/26/2020		3/3/2020		3/10/2020		3/18/2020	
					0.32 in (UH)	0.06 in/hr (UH)	0.40 in (UH)	0.17 in/hr (UH)	0.32 in (UH)	0.16 in/hr (UH)	0.97 in (UH)	0.24 in/hr (UH)
0.34 in (SH)	0.06 in/hr (SH)	0.33 in (SH)	0.15 in/hr (SH)	0.28 in (SH)	0.12 in/hr (SH)	1.18 in (SH)	0.38 in/hr (SH)					
0.25 in (SE)	0.06 in/hr (SE)	0.37 in (SE)	0.16 in/hr (SE)	0.28 in (SE)	0.17 in/hr (SE)	1.00 in (SE)	0.23 in/hr (SE)					
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	Yes	Block	No
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	No Block	-
CH-9	Doan Brook	34	21	62%	Block	Yes	Block	No	Block	No	Block	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	No	Block	No	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	Yes
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	Yes	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	No	Block	Yes	Block	Yes	Block	No
CH-26	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	Yes
CH-30	Dugway Brook	34	18	53%	Block	No	Block	No	Block	No	Block	No
CH-32	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	Block	No	Block	No	Block	No	Block	Yes
CH-35	Doan Brook	33	10	30%	Block	No	Block	No	Block	No	Block	Yes
CH-36	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	34	6	18%	Block	No	Block	No	Block	Yes	Block	Yes
CH-38	Doan Brook	33	2	6%	Block	No	Block	Yes	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	Yes
CH-45	Doan Brook	32	3	9%	Block	No	No Block	-	Block	No	Block	No
CH-46	Doan Brook	34	9	26%	Block	No	Block	No	Block	No	Block	No
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	34	8	24%	Block	Yes	Block	No	Block	No	Block	Yes
CH-51	Nine Mile	33	13	39%	Block	No	Block	No	Block	No	Block	Yes
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	Yes	Block	No
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	Yes
CH-58	Doan Brook	33	8	24%	Block	No	Block	Yes	Block	No	Block	No
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.												
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font												

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 9		Event 10		Event 11		Event 12	
					3/20/2020		4/7/2020		4/13/2020		4/26/2020	
					0.26 in (UH)	0.23 in/hr (UH)	0.44 in (UH)	0.41 in/hr (UH)	0.45 in (UH)	0.17 in/hr (UH)	0.60 in (UH)	0.12 in/hr (UH)
					0.16 in (SH)	0.08 in/hr (SH)	0.74 in (SH)	0.65 in/hr (SH)	0.47 in (SH)	0.14 in/hr (SH)	0.59 in (SH)	0.13 in/hr (SH)
					0.30 in (SE)	0.29 in/hr (SE)	0.29 in (SE)	0.23 in/hr (SE)	0.45 in (SE)	0.13 in/hr (SE)	0.57 in (SE)	0.12 in/hr (SE)
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	Yes
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	Yes	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	33	4	12%	Block	No	Block	Yes	Block	No	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	34	21	62%	Block	No	Block	Yes	Block	No	Block	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	No	Block	Yes	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	Block	No	Block	Yes	Block	Yes	Block	Yes
CH-30	Dugway Brook	34	18	53%	Block	No	Block	Yes	Block	No	Block	No
CH-32	Doan Brook	34	4	12%	Block	No	Block	Yes	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	Block	No	Block	No	Block	No	Block	Yes
CH-35	Doan Brook	33	10	30%	Block	No	Block	No	Block	Yes	Block	No
CH-36	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	No	Block	No
CH-37	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	34	9	26%	Block	No	Block	No	Block	No	Block	No
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	34	8	24%	Block	No	Block	Yes	Block	No	Block	No
CH-51	Nine Mile	33	13	39%	Block	No	Block	No	Block	No	Block	No
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	No	Block	Yes
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	Block	No	Block	No	Block	No	Block	No
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.												
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font												

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 13		Event 14		Event 15		Event 16	
					5/10/2020		5/15/2020		5/29/2020		6/10/2020	
					0.41 in (UH)	0.2 in/hr (UH)	1.79 in (UH)	0.49 in/hr (UH)	0.55 in (UH)	0.36 in/hr (UH)	0.62 in (UH)	0.58 in/hr (UH)
					0.28 in (SH)	0.18 in/hr (SH)	1.73 in (SH)	0.89 in/hr (SH)	0.45 in (SH)	0.31 in/hr (SH)	0.61 in (SH)	0.58 in/hr (SH)
					0.40 in (SE)	0.23 in/hr (SE)	1.46 in (SE)	0.42 in/hr (SE)	0.48 in (SE)	0.34 in/hr (SE)	0.70 in (SE)	0.65 in/hr (SE)
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	34	21	62%	Block	No	Block	No	Block	Yes	Block	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	No	Block	No	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	Block	No	Block	Yes	Block	No	Block	No
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-30	Dugway Brook	34	18	53%	Block	No	Block	Yes	Block	Yes	Block	Yes
CH-32	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	Block	Yes	Block	Yes	Block	Yes	Block	No
CH-35	Doan Brook	33	10	30%	Block	No	No Block	-	Block	No	Block	No
CH-36	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	Yes	Block	No
CH-37	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	No	Block	No
CH-38	Doan Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	34	9	26%	Block	No	Block	No	Block	Yes	Block	Yes
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	Yes	Block	No
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	34	8	24%	Block	No	Block	Yes	Block	No	Block	Yes
CH-51	Nine Mile	33	13	39%	Block	No	Block	No	Block	No	Block	No
CH-52	Dugway Brook	33	2	6%	Block	No	No Block	-	Block	No	Block	No
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	Block	No	Block	No	Block	No	Block	No
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	No	Block	No	Block	No	Block	Yes
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.												
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font												

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 17		Event 18		Event 19		Event 20	
					6/23/2020		7/11/2020		7/19/2020		7/27/2020	
					0.77 in (UH)	0.71 in/hr (UH)	NA in (UH)	NA in/hr (UH)	0.38 in (UH)	0.38 in/hr (UH)	0.49 in (UH)	0.28 in/hr (UH)
					0.52 in (SH)	0.47 in/hr (SH)	2.88 in (SH)	0.89 in/hr (SH)	0.55 in (SH)	0.55 in/hr (SH)	0.98 in (SH)	0.54 in/hr (SH)
					1.00 in (SE)	0.92 in/hr (SE)	2.84 in (SE)	1.1 in/hr (SE)	0.21 in (SE)	0.14 in/hr (SE)	0.23 in (SE)	0.11 in/hr (SE)
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	Block	No	Block	Yes	Block	Yes	Block	No
CH-2	Doan Brook	34	1	3%	Block	No	Block	Yes	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	34	21	62%	Block	No	Block	Yes	Block	Yes	Block	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	Yes	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	No	Block	Yes	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	Yes
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	No	Block	No	Block	Yes	No Block	-
CH-26	Dugway Brook	34	4	12%	Block	No	Block	Yes	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-30	Dugway Brook	34	18	53%	Block	Yes	Block	No	Block	Yes	Block	Yes
CH-32	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	Block	Yes	Block	Yes	Block	Yes	Block	No
CH-35	Doan Brook	33	10	30%	Block	Yes	Block	No	Block	Yes	Block	No
CH-36	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	Yes	Block	No
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	34	9	26%	Block	No	Block	Yes	Block	No	Block	No
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	34	8	24%	Block	Yes	Block	Yes	Block	No	Block	No
CH-51	Nine Mile	33	13	39%	Block	No	Block	No	Block	No	Block	No
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	Yes	Block	Yes	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	Block	No	Block	No	Block	No	Block	No
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	Yes	Block	No	Block	No	Block	No
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.												
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font												

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 21		Event 22		Event 23		Event 24		Event 25	
					8/1/2020		8/16/2020		8/28/2020		9/2/2020		9/7/2020	
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
					0.34 in (UH)	0.25 in/hr (UH)	0.32 in (UH)	0.28 in/hr (UH)	1.21 in (UH)	0.48 in/hr (UH)	0.69 in (UH)	0.46 in/hr (UH)	3.59 in (UH)	1.22 in/hr (UH)
					0.45 in (SH)	0.32 in/hr (SH)	0.41 in (SH)	0.39 in/hr (SH)	2.16 in (SH)	0.83 in/hr (SH)	0.57 in (SH)	0.22 in/hr (SH)	4.02 in (SH)	1.48 in/hr (SH)
					0.28 in (SE)	0.21 in/hr (SE)	0.48 in (SE)	0.41 in/hr (SE)	2.10 in (SE)	1.04 in/hr (SE)	0.38 in (SE)	0.26 in/hr (SE)	2.55 in (SE)	0.81 in/hr (SE)
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	Yes	Block	No	Block	Yes
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	Yes	Block	No	Block	No
CH-7	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	34	21	62%	Block	No	Block	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes
CH-13	Doan Brook	34	3	9%	Block	No	Block	No	Flow Meter	No	Flow Meter	No	Flow Meter	Yes
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	Block	No	Block	No	Block	Yes	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	Block	Yes	Block	No	Block	Yes	Block	No	Block	Yes
CH-26	Dugway Brook	34	4	12%	Block	No	Block	Yes	Block	Yes	Block	No	Block	Yes
CH-27	9 Mile Creek	34	6	18%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes
CH-28	Dugway Brook	34	10	29%	Block	No	Block	No	Block	Yes	Block	No	Block	Yes
CH-30	Dugway Brook	34	18	53%	Block	No	Block	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-32	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-33	Doan Brook	33	15	45%	Block	No	Block	Yes	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes
CH-35	Doan Brook	33	10	30%	Block	Yes	Block	Yes	Block	No	Block	No	Block	Yes
CH-36	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	No	Block	No	Block	Yes
CH-37	Doan Brook	34	6	18%	Block	No	Block	Yes	Block	No	Block	No	Block	Yes
CH-38	Doan Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-46	Doan Brook	34	9	26%	Block	Yes	Block	Yes	Block	No	Block	No	Block	Yes
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No	Block	Yes
CH-50	Doan Brook	34	8	24%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-51	Nine Mile	33	13	39%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	Yes	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-57	Doan Brook	34	1	3%	Block	No	Block	No	Block	Yes	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	Block	No	Block	Yes	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	Block	No	Block	No	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.														
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font														

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Event 26		Event 27		Event 28		Event 29		Event 30		Event 31	
					9/13/2020		9/28/2020		10/1/2020		10/19/2020		10/21/2020		10/26/2020	
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
					0.45 in (UH)	0.44 in/hr (UH)	1.82 in (UH)	0.91 in/hr (UH)	0.34 in (UH)	0.16 in/hr (UH)	0.59 in (UH)	0.08 in/hr (UH)	2.14 in (UH)	0.77 in/hr (UH)	0.32 in (UH)	0.06
					0.53 in (SH)	0.13 in/hr (SH)	1.79 in (SH)	0.88 in/hr (SH)	0.56 in (SH)	0.25 in/hr (SH)	0.60 in (SH)	0.09 in/hr (SH)	2.01 in (SH)	0.73 in/hr (SH)	0.34 in (SH)	0.06
					0.67 in (SE)	0.19 in/hr (SE)	1.48 in (SE)	0.56 in/hr (SE)	0.48 in (SE)	0.37 in/hr (SE)	0.65 in (SE)	0.09 in/hr (SE)	2.83 in (SE)	1.14 in/hr (SE)	0.41 in (SE)	0.07
CH-1	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-2	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-3	Doan Brook	34	3	9%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-4	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-5	Doan Brook	34	6	18%	Block	No	Block	No	Block	Yes	Block	No	Block	Yes	Block	
CH-6	Doan Brook	33	4	12%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-7	Doan Brook	33	4	12%	Block	No	Block	Yes	Block	No	Block	No	Block	Yes	Block	
CH-9	Doan Brook	34	21	62%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-10	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-11	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-12	Dugway Brook	34	8	24%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-13	Doan Brook	34	3	9%	Flow Meter	No	Flow Meter	No	Flow Meter	No	Flow Meter	No	Flow Meter	No	Flow Meter	
CH-15	Doan Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-17	Dugway Brook	34	4	12%	Block	No	Block	Yes	Block	No	Block	Yes	Block	No	Block	
CH-22	9 Mile Creek	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-23	Dugway Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-24	Dugway Brook	34	2	6%	Block	Yes	Block	No	Block	No	Block	No	Block	No	Block	
CH-25	Dugway Brook	33	6	18%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-26	Dugway Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-27	9 Mile Creek	34	6	18%	Flow Meter	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-28	Dugway Brook	34	10	29%	Block	No	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-30	Dugway Brook	34	18	53%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-32	Doan Brook	34	4	12%	Block	No	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-33	Doan Brook	33	15	45%	Flow Meter	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-35	Doan Brook	33	10	30%	Block	Yes	Block	Yes	Block	No	Block	No	Block	Yes	Block	
CH-36	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-37	Doan Brook	34	6	18%	Block	No	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-38	Doan Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-39	Doan Brook	33	1	3%	Block	Yes	Block	No	Block	No	Block	No	Block	No	Block	
CH-42	Doan Brook	34	6	18%	Block	Yes	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-45	Doan Brook	32	3	9%	Block	No	Block	No	Block	No	Block	No	Block	Yes	Block	
CH-46	Doan Brook	34	9	26%	Block	No	Block	Yes	Block	No	Block	No	Block	Yes	Block	
CH-47	Doan Brook	34	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-49	Doan Brook	33	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-50	Doan Brook	34	8	24%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-51	Nine Mile	33	13	39%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	
CH-52	Dugway Brook	33	2	6%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-54	Doan Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-55	Nine Mile	34	3	9%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-56	Dugway Brook	34	10	29%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	
CH-57	Doan Brook	34	1	3%	Block	No	Block	Yes	Block	No	Block	No	Block	No	Block	
CH-58	Doan Brook	33	8	24%	Flow Meter	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
CH-59	Dugway Brook	34	0	0%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-60	Dugway Brook	34	1	3%	Block	No	Block	No	Block	No	Block	No	Block	No	Block	
CH-61	Doan Brook	34	7	21%	Flow Meter	No	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.																
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font																

SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	in/hr (UH) in/hr (SH) in/hr (SE) Activation Y/N?	Event 32 10/29/2020		Event 33 11/22/2020		Event 34 12/1/2020	
						0.47 in (UH) 0.56 in (SH) 0.48 in (SE)	0.09 in/hr (UH) 0.1 in/hr (SH) 0.1 in/hr (SE)	0.70 in (UH) 0.72 in (SH) 0.79 in (SE)	0.14 in/hr (UH) 0.14 in/hr (SH) 0.16 in/hr (SE)	1.62 in (UH) 1.65 in (SH) 1.15 in (SE)	0.19 in/hr (UH) 0.18 in/hr (SH) 0.17 in/hr (SE)
						Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	34	4	12%	No	Block	Yes	Block	No	Block	No
CH-2	Doan Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	34	3	9%	Yes	Block	No	Block	No	Block	No
CH-4	Doan Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	34	6	18%	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	33	4	12%	No	Block	No	Block	Yes	Block	CNL - Snow
CH-7	Doan Brook	33	4	12%	No	Block	Yes	Block	Yes	Block	No
CH-9	Doan Brook	34	21	62%	No	Flow Meter	Yes	Block	Yes	Block	Yes
CH-10	Dugway Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	34	8	24%	No	Flow Meter	No	Block	No	Block	No
CH-13	Doan Brook	34	3	9%	No	Flow Meter	No	Block	No	Block	No
CH-15	Doan Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	34	4	12%	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	34	0	0%	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	34	2	6%	No	Block	Yes	Block	No	Block	No
CH-24	Dugway Brook	34	2	6%	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	33	6	18%	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	34	4	12%	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	34	6	18%	No	Flow Meter	No	Block	No	Block	No
CH-28	Dugway Brook	34	10	29%	No	Block	No	Block	No	Block	Yes
CH-30	Dugway Brook	34	18	53%	No	Flow Meter	Yes	Block	Yes	Block	Yes
CH-32	Doan Brook	34	4	12%	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	33	15	45%	No	Flow Meter	Yes	Block	Yes	Block	CNL - Snow
CH-35	Doan Brook	33	10	30%	No	Block	No	Block	No	Block	No
CH-36	Doan Brook	34	6	18%	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	34	6	18%	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	33	2	6%	No	Block	No	Block	No	Block	CNL - Snow
CH-39	Doan Brook	33	1	3%	No	Block	No	Block	No	Block	CNL - Snow
CH-42	Doan Brook	34	6	18%	Yes	Block	No	Block	No	Block	No
CH-45	Doan Brook	32	3	9%	No	Block	Yes	Block	No	Block	CNL - Snow
CH-46	Doan Brook	34	9	26%	No	Block	No	Block	No	Block	No
CH-47	Doan Brook	34	2	6%	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	33	1	3%	No	Block	No	Block	No	Block	CNL - Snow
CH-50	Doan Brook	34	8	24%	No	Block	No	Block	No	Block	No
CH-51	Nine Mile	33	13	39%	Yes	Flow Meter	Yes	Block	No	Block	CNL - Snow
CH-52	Dugway Brook	33	2	6%	No	Block	No	Block	No	Block	No
CH-54	Doan Brook	34	0	0%	No	Block	No	Block	No	Block	No
CH-55	Nine Mile	34	3	9%	No	Block	No	Block	No	Block	No
CH-56	Dugway Brook	34	10	29%	Yes	Flow Meter	Yes	Block	No	Block	Yes
CH-57	Doan Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-58	Doan Brook	33	8	24%	No	Flow Meter	Yes	Block	No	Block	CNL - Snow
CH-59	Dugway Brook	34	0	0%	No	Block	No	Block	No	Block	No
CH-60	Dugway Brook	34	1	3%	No	Block	No	Block	No	Block	No
CH-61	Doan Brook	34	7	21%	No	Flow Meter	No	Block	No	Block	No
District's Shaker Heights (SH), South Euclid (SE) and University Heights (UH) rain gauges were used as denoted.											
2020 Real time monitoring of SSOs conducted from August 25, 2020 to November 18, 2020 at locations in bold font											

APPENDIX B – 2020 CLEVELAND HEIGHTS CUSTOMER CALLS

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Appendix B - Customer Complaints

Address	Street Name	Date 1	Date 2
1038	ALLSTON RD	8/10/2020	
1191	ALPINE RD	7/21/2020	
2489	ARLINGTON RD	5/21/2020	
2576	ASHTON RD	11/2/2020	
2592	ASHTON RD	10/27/2020	
2611	ASHTON RD	9/23/2020	
3661	ATHERSTONE RD	7/14/2020	
2863	AVONDALE AVE	5/26/2020	5/29/2020
3513	BAINBRIDGE RD	6/9/2020	
3525	BAINBRIDGE RD	3/9/2020	
3531	BAINBRIDGE RD	10/26/2020	
3587	BAINBRIDGE RD	9/14/2020	9/30/2020
3603	BAINBRIDGE RD	9/2/2020	
3643	BAINBRIDGE RD	8/21/2020	
3692	BAINBRIDGE RD	11/24/2020	
3755	BAINBRIDGE RD	6/23/2020	11/24/2020
3768	BAINBRIDGE RD	4/28/2020	
3305	BEECHWOOD AVE	10/22/2020	
3410	BEECHWOOD AVE	10/30/2020	
1533	BELMAR RD	9/10/2020	
3534	BENDEMEER RD	5/20/2020	
3562	BENDEMEER RD	11/6/2020	
3594	BENDEMEER RD	4/7/2020	
3614	BENDEMEER RD	7/13/2020	
3689	BENDEMEER RD	3/10/2020	11/6/2020
3320	BERKELEY AVE	10/22/2020	
3379	BERKELEY AVE	10/27/2020	
3562	BERKELEY AVE	5/13/2020	
3621	BERKELEY AVE	4/22/2020	
3673	BERKELEY AVE	3/11/2020	
3719	BERKELEY AVE	2/7/2020	
2847	BERKSHIRE RD	2/20/2020	6/22/2020
3064	BERKSHIRE RD	9/15/2020	12/14/2020
3174	BERKSHIRE RD	5/27/2020	7/20/2020
1404	BLACKMORE RD	8/4/2020	
3373	BLANCHE AVE	2/3/2020	
3407	BLANCHE AVE	3/20/2020	
3437	BLANCHE AVE	4/15/2020	
3481	BLANCHE AVE	3/30/2020	
3527	BLANCHE AVE	5/19/2020	
3628	BLANCHE AVE	9/3/2020	
4045	BLUESTONE RD	1/30/2020	
4099	BLUESTONE RD	10/8/2020	10/12/2020
2522	BOLTON RD	5/21/2020	

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Address	Street Name	Date 1	Date 2
2529	BOLTON RD	4/29/2020	
3561	BOYNTON RD	5/8/2020	
3631	BRADFORD RD	1/22/2020	5/26/2020
1123	BRANDON RD	9/14/2020	10/7/2020
1164	BRANDON RD	7/29/2020	
3585	BRINKMORE RD	12/10/2020	
992	BRUNSWICK RD	12/1/2020	12/7/2020
989	BRUNSWICK RD	12/9/2020	
979	BRUNSWICK RD	12/29/2020	
1379	BURLINGTON RD	1/24/2020	
1468	BURLINGTON RD	1/21/2020	
1474	BURLINGTON RD	4/28/2020	
1482	BURLINGTON RD	8/18/2020	
945	CALEDONIA AVE	10/15/2020	
2569	CANTERBURY RD	9/15/2020	9/25/2020
2588	CANTERBURY RD	7/2/2020	
2599	CANTERBURY RD	9/30/2020	
2618	CANTERBURY RD	7/21/2020	
2623	CANTERBURY RD	6/1/2020	9/23/2020
2632	CANTERBURY RD	7/22/2020	
2648	CANTERBURY RD	11/2/2020	
2653	CANTERBURY RD	9/16/2020	9/21/2020
1069	CARVER RD	2/28/2020	
1088	CARVER RD	10/1/2020	
1127	CARVER RD	10/2/2020	
1158	CASTLETON RD	1/16/2020	9/18/2020
1178	CASTLETON RD	6/26/2020	
1255	CASTLETON RD	1/24/2020	
12775	CEDAR RD	5/20/2020	12/22/2020
12777	CEDAR RD	1/22/2020	
13037	CEDAR RD	1/16/2020	
13100	CEDAR RD	1/22/2020	2/26/2020
2171	CHATFIELD DR	3/18/2020	
3159	CHELSEA DR	10/13/2020	11/18/2020
3342	CHELSEA DR	8/11/2020	
3303	CLARENDON RD	9/10/2020	
1159	CLEVELAND HTS BLVD	3/9/2020	
1281	CLEVELAND HTS BLVD	5/18/2020	
1325	CLEVELAND HTS BLVD	4/6/2020	
1335	CLEVELAND HTS BLVD	10/22/2020	
2937	COLERIDGE RD	1/10/2020	
3151	COLERIDGE RD	11/16/2020	
1658	COMPTON RD	12/7/2020	
3011	CORYDON RD	5/28/2020	

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Address	Street Name	Date 1	Date 2
3085	CORYDON RD	7/16/2020	
2185	COTTAGE GROVE DR	6/26/2020	
1688	COVENTRY RD	9/23/2020	
1710	COVENTRY RD	9/30/2020	
1714	COVENTRY RD	9/17/2020	
2135	COVENTRY RD	10/26/2020	11/2/2020
2258	COVENTRY RD	9/30/2020	
2324	COVENTRY RD	11/16/2020	
1596	CREST RD	3/20/2020	
1604	CREST RD	10/20/2020	
1667	CUMBERLAND RD	3/16/2020	
2330	DELAMERE DR	8/21/2020	
2296	DELAWARE DR	3/2/2020	
3267	DELLWOOD RD	8/18/2020	
2160	DEMINGTON DR	12/3/2020	
2214	DEMINGTON DR	10/5/2020	
3390	DESOTA AVE	6/24/2020	12/9/2020
22215	DEVONSHIRE DR	10/16/2020	
2918	E DERBYSHIRE RD	11/13/2020	
2924	E DERBYSHIRE RD	1/6/2020	
2928	E DERBYSHIRE RD	4/3/2020	
2953	E DERBYSHIRE RD	9/1/2020	
2957	E DERBYSHIRE RD	5/4/2020	10/7/2020
3023	E DERBYSHIRE RD	5/8/2020	
3047	E DERBYSHIRE RD	6/29/2020	
3057	E DERBYSHIRE RD	1/2/2020	
3433	E FAIRFAX RD	3/10/2020	
3301	E MONMOUTH RD	3/31/2020	9/10/2020
3401	E MONMOUTH RD	5/15/2020	10/8/2020
2712	E OVERLOOK RD	6/30/2020	
2814	E OVERLOOK RD	1/22/2020	
2854	E OVERLOOK RD	5/20/2020	
2940	E OVERLOOK RD	6/29/2020	
3099	E OVERLOOK RD	2/11/2020	9/18/2020
3199	E OVERLOOK RD	9/18/2020	
3115	E OVERLOOK RD	12/28/2020	
3247	E. SCARBOROUGH RD	9/11/2020	
1375	EDENDALE ST	3/9/2020	10/23/2020
2813	EDGEHILL RD	8/25/2020	
2973	EDGEHILL RD	2/14/2020	8/14/2020
650	EDGERLY RD	7/16/2020	
634	EDGERLY RD	12/29/2020	
3526	EDISON DR	10/23/2020	
3509	EDISON RD	4/22/2020	

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Address	Street Name	Date 1	Date 2
3957	ELMWOOD RD	8/27/2020	
871	ELOISE DR	6/30/2020	
1131	ERIEVIEW RD	2/10/2020	
1175	ERIEVIEW RD	2/11/2020	
3084	ESSEX RD	9/18/2020	
3135	ESSEX RD	6/22/2020	
3131	ESSEX RD	12/9/2020	
2893	EUCLID HTS BLVD	12/7/2020	12/17/2020
2915	EUCLID HTS BLVD	11/24/2020	
2987	EUCLID HTS BLVD	2/3/2020	
3079	EUCLID HTS BLVD	5/26/2020	
3216	EUCLID HTS BLVD	5/20/2020	
3228	EUCLID HTS BLVD	8/14/2020	
3284	EUCLID HTS BLVD	5/18/2020	
3356	EUCLID HTS BLVD	5/22/2020	
3414	EUCLID HTS BLVD	5/19/2020	
3443	EUCLID HTS BLVD	6/30/2020	
3065	FAIRFAX RD	5/28/2020	
12411	FAIRHILL RD	3/23/2020	
2521	FAIRMOUNT BLVD	5/26/2020	
2764	FAIRMOUNT BLVD	5/19/2020	7/16/2020
2862	FAIRMOUNT BLVD	4/2/2020	
2876	FAIRMOUNT BLVD	11/6/2020	
3041	FAIRMOUNT BLVD	7/30/2020	
3085	FAIRMOUNT BLVD	1/15/2020	
3428	FAIRMOUNT BLVD	4/28/2020	
3545	FAIRMOUNT BLVD	6/4/2020	
3593	FENLEY RD	2/19/2020	
3636	FENLEY RD	4/6/2020	
3643	FENLEY RD	1/15/2020	
3654	FENLEY RD	6/2/2020	
3696	FENLEY RD	8/21/2020	
3709	FENLEY RD	8/25/2020	
1345	FOREST HILLS BLVD	8/27/2020	10/2/2020
3879	GLENWOOD RD	2/25/2020	
3888	GLENWOOD RD	7/29/2020	
2308	GRANDVIEW AVE	11/16/2020	
2333	GRANDVIEW AVE	6/26/2020	
2239	GRANDVIEW AVE	12/9/2020	
2356	GRANDVIEW AVE	12/29/2020	
867	GREYTON RD	4/1/2020	
878	GREYTON RD	11/18/2020	
895	GREYTON RD	3/13/2020	
1046	GREYTON RD	8/10/2020	

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Address	Street Name	Date 1	Date 2
1105	GREYTON RD	2/4/2020	
3664	GROSVENOR RD	10/13/2020	
2997	HAMPSHIRE RD	1/15/2020	
2099	HAMPSTEAD RD	7/6/2020	
2051	HANOVER DR	1/22/2020	
36	HARVEY RD	3/27/2020	
3571	HARVEY RD	9/16/2020	
3599	HARVEY RD	8/19/2020	
3620	HARVEY RD	3/26/2020	
841	HELMSDALE RD	10/22/2020	
861	HELMSDALE RD	1/23/2020	
909	HELMSDALE RD	5/14/2020	
924	HELMSDALE RD	2/4/2020	
1025	HELMSDALE RD	8/31/2020	
1056	HEREFORD RD	2/14/2020	
1666	HILLCREST RD	6/22/2020	
1043	HILLSTONE RD	5/22/2020	
3234	HYDE PARK AVE	12/17/2020	
2591	IDLEWOOD RD	7/9/2020	
2630	IDLEWOOD RD	7/7/2020	11/18/2020
1390	INGLEWOOD DR	10/29/2020	
1566	IVYDALE RD	11/13/2020	
2404	KENILWORTH RD	4/2/2020	
2512	KENILWORTH RD	5/29/2020	
1000	KEYSTONE DR	6/11/2020	
3255	KILDARE RD	9/25/2020	
2458	KINGSTON RD	5/29/2020	
2588	KINGSTON RD	3/10/2020	
3816	KIRKWOOD RD	6/29/2020	
2135	LAMBERTON RD	3/19/2020	
3606	LANGTON RD	8/4/2020	
3633	LANGTON RD	10/14/2020	
3671	LANGTON RD	9/2/2020	
3677	LANGTON RD	9/17/2020	
835	LECONA RD	7/30/2020	
836	LECONA RD	6/22/2020	
1663	LEE RD	6/4/2020	
1664	LEE RD	1/16/2020	
2383	LEE RD	5/28/2020	
2431	LEE RD	7/27/2020	
2615	LEE RD	12/1/2020	
2618	LEE RD	4/8/2020	
3350	LOWNESDALE RD	11/9/2020	
1425	LYNN PARK DR	7/20/2020	

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Address	Street Name	Date 1	Date 2
1473	MAPLE RD	3/30/2020	
1585	MAPLE RD	1/29/2020	
1591	MAPLE RD	8/11/2020	
1603	MAPLE RD	9/21/2020	
1628	MAPLE RD	9/16/2020	
1669	MAPLE RD	6/26/2020	
2744	MAYFIELD RD	7/2/2020	
3211	MAYFIELD RD	9/17/2020	
3880	MAYFIELD RD	3/14/2020	
2871	MEADOWBROOK BLVD	5/18/2020	
2945	MEADOWBROOK BLVD	9/28/2020	
3049	MEADOWBROOK BLVD	10/5/2020	
3117	MEADOWBROOK BLVD	12/7/2020	
3278	MEADOWBROOK BLVD	2/20/2020	
3305	MEADOWBROOK BLVD	8/10/2020	
3344	MEADOWBROOK BLVD	5/15/2020	
3373	MEADOWBROOK BLVD	1/10/2020	
3388	MEADOWBROOK BLVD	7/2/2020	
3515	MEADOWBROOK BLVD	5/1/2020	
3544	MEADOWBROOK BLVD	11/6/2020	
3548	MEADOWBROOK BLVD	8/7/2020	
3556	MEADOWBROOK BLVD	9/3/2020	
1779	MIDDLEHURST RD	8/19/2020	
1494	MIDDLETON RD	1/8/2020	
3797	MONTEVISTA RD	7/20/2020	
3861	MONTEVISTA RD	7/20/2020	
868	MONTFORD RD	3/5/2020	10/2/2020
3296	MONTICELLO BLVD	2/25/2020	
3308	MONTICELLO BLVD	2/13/2020	
3320	MONTICELLO BLVD	4/2/2020	
3321	MONTICELLO BLVD	3/23/2020	
3357	MONTICELLO BLVD	8/20/2020	
3455	MONTICELLO BLVD	6/2/2020	
3494	MONTICELLO BLVD	3/31/2020	
3748	MONTICELLO BLVD	11/3/2020	
3948	MONTICELLO BLVD	8/4/2020	
3970	MONTICELLO BLVD	4/14/2020	
4022	MONTICELLO BLVD	7/15/2020	
2811	N PARK BLVD	10/26/2020	
2280	N TAYLOR RD	12/1/2020	
1068	NELA VIEW RD	2/13/2020	2/27/2020
871	NELAVIEW RD	7/30/2020	
2428	NEWBURY DR	6/4/2020	
2515	NEWBURY DR	6/29/2020	

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Address	Street Name	Date 1	Date 2
2552	NEWBURY DR	10/6/2020	
2304	NOBLE RD	9/21/2020	
2319	NOBLE RD	5/27/2020	
2391	NOBLE RD	10/29/2020	
2396	NOBLE RD	11/13/2020	
2460	NOBLE RD	9/25/2020	10/5/2020
2462	NOBLE RD	8/21/2020	
2589	NORFOLK RD	11/6/2020	
2595	NORFOLK RD	10/15/2020	
2917	NORTH PARK	11/9/2020	
3779	NORTHAMPTON RD	3/25/2020	11/18/2020
3791	NORTHAMPTON RD	7/13/2020	
3736	NORTHAMPTON RD	12/23/2020	
3579	NORTHVALE BLVD	10/26/2020	
3668	NORTHVALE BLVD	1/27/2020	10/23/2020
3146	OAK RD	2/27/2020	
3198	OAK RD	1/14/2020	
3244	OAK RD	7/7/2020	
3197	OAK RD	12/30/2020	
1319	OAK RIDGE	9/15/2020	
16243	OAKHILL RD	9/9/2020	
3915	ORCHARD RD	2/13/2020	
3316	ORMOND RD	9/10/2020	
3317	ORMOND RD	10/23/2020	
1031	OXFORD RD	10/27/2020	
1219	OXFORD RD	8/7/2020	
3904	PARKDALE RD	7/29/2020	
1479	PARKHILL RD	4/14/2020	
1496	PARKHILL RD	11/25/2020	
930	PEMBROOK RD	4/24/2020	
962	PEMBROOK RD	12/7/2020	
1072	PEMBROOK RD	2/25/2020	4/14/2020
1151	POMONA RD	7/30/2020	
2588	PRINCETON RD	9/17/2020	
2603	PRINCETON RD	3/23/2020	
2643	PRINCETON RD	6/9/2020	
854	QUARRY DR	11/2/2020	
902	QUARRY DR	12/30/2020	
2419	QUEENSTON RD	7/22/2020	
2445	QUEENSTON RD	6/24/2020	
2516	QUEENSTON RD	11/9/2020	
2573	QUEENSTON RD	3/2/2020	
2582	QUEENSTON RD	1/27/2020	
2591	QUEENSTON RD	10/5/2020	

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Address	Street Name	Date 1	Date 2
676	QUILLIAMS RD	6/19/2020	
782	QUILLIAMS RD	1/28/2020	
1135	QUILLIAMS RD	4/3/2020	8/7/2020
1256	QUILLIAMS RD	3/26/2020	
3542	RANDOLPH RD	2/19/2020	
892	RAVINE DR	3/16/2020	
3240	REDWOOD RD	3/4/2020	
3277	REDWOOD RD	5/22/2020	
1037	RENFIELD RD	9/18/2020	
2100	RENROCK RD	1/15/2020	3/30/2020
2115	RENROCK RD	12/10/2020	
1979	REVERE RD	10/1/2020	
1961	REVERE RD	12/29/2020	
951	ROANOKE RD	8/4/2020	
971	ROANOKE RD	4/29/2020	
1032	ROANOKE RD	7/16/2020	
3410	ROSEDALE RD	4/6/2020	
2357	ROXBORO RD	11/24/2020	
2362	ROXBORO RD	3/9/2020	
3181	RUMSON RD	6/30/2020	
3199	RUMSON RD	7/29/2020	
3304	RUMSON RD	5/21/2020	
3578	RUNNYMEDE BLVD	5/22/2020	
3611	RUNNYMEDE BLVD	5/7/2020	
3650	RUNNYMEDE BLVD	10/6/2020	
3674	RUNNYMEDE BLVD	10/14/2020	
3658	RUNNYMEDE BLVD	12/15/2020	
1103	RUTHERFORD RD	5/20/2020	
1139	RUTHERFORD RD	6/19/2020	12/4/2020
1530	RYDALMOUNT RD	8/21/2020	
1640	RYDALMOUNT RD	4/2/2020	
1609	RYDALMOUNT RD	12/9/2020	
1529	S NOBLE RD	3/18/2020	
2177	S OVERLOOK RD	2/18/2020	
2233	S OVERLOOK RD	8/31/2020	
2310	S OVERLOOK RD	2/14/2020	
2373	S TAYLOR RD	5/6/2020	
2580	S TAYLOR RD	9/25/2020	
2644	S TAYLOR RD	7/22/2020	
3006	SCARBOROUGH RD	9/23/2020	
3027	SCARBOROUGH RD	9/14/2020	
3376	SEATON RD	12/22/2020	
3471	SEVERN RD	9/9/2020	10/13/2020
3747	SEVERN RD	10/2/2020	

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Address	Street Name	Date 1	Date 2
2580	SHAKER RD	2/7/2020	
3513	SHANNON RD	5/26/2020	
3564	SHANNON RD	9/23/2020	
3595	SHANNON RD	9/1/2020	
3657	SHANNON RD	9/3/2020	
3682	SHANNON RD	9/9/2020	
3698	SHANNON RD	9/14/2020	
17415	SHELBURNE RD	5/29/2020	
17420	SHELBURNE RD	11/16/2020	
3258	SILSBY RD	10/29/2020	
3448	SILSBY RD	8/7/2020	10/1/2020
2981	SOMERTON RD	9/1/2020	
2982	SOMERTON RD	12/17/2020	
2289	STILLMAN RD	4/3/2020	
2265	STILLMAN RD	12/17/2020	
3638	STONELEIGH RD	7/13/2020	
2528	STRATFORD RD	4/1/2020	
14299	SUPERIOR RD	3/16/2020	10/21/2020
14422	SUPERIOR RD	4/10/2020	7/29/2020
14431	SUPERIOR RD	4/28/2020	
3170	SYCAMORE RD	2/13/2020	
3192	SYCAMORE RD	4/6/2020	
3379	SYLVANHURST RD	10/1/2020	
1172	SYLVANIA RD	5/4/2020	
1199	SYLVANIA RD	5/13/2020	9/28/2020
1203	SYLVANIA RD	7/15/2020	
1213	SYLVANIA RD	10/6/2020	
3415	THORNE RD	4/7/2020	
2340	TUDOR DR	5/15/2020	
2346	TUDOR DR	10/13/2020	
2375	TUDOR DR	1/14/2020	7/21/2020
3266	TULLAMORE RD	9/11/2020	
3352	TULLAMORE RD	3/20/2020	
928	VINESHIRE RD	5/4/2020	
2688	W ST JAMES PKWY	9/11/2020	
2972	WASHINGTON BLVD	10/30/2020	
3014	WASHINGTON BLVD	10/27/2020	
3023	WASHINGTON BLVD	4/14/2020	
3044	WASHINGTON BLVD	4/7/2020	8/27/2020
3045	WASHINGTON BLVD	5/28/2020	
3063	WASHINGTON BLVD	9/11/2020	
3065	WASHINGTON BLVD	1/3/2020	
3583	WASHINGTON BLVD	3/31/2020	
3587	WASHINGTON BLVD	1/27/2020	

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Address	Street Name	Date 1	Date 2
2584	WELLINGTON RD	9/14/2020	
1423	WESTOVER RD	12/28/2020	
928	WHITBY RD	1/23/2020	
3193	WHITETHORN RD	10/15/2020	
1472	WILMAR RD	6/9/2020	
1495	WILMAR RD	5/27/2020	
1857	WILTON RD	11/9/2020	
3276	WINSFORD RD	3/11/2020	12/4/2020
1545	WOOD RD	6/5/2020	
1549	WOOD RD	10/21/2020	
1619	WOOD RD	4/29/2020	
1661	WOOD RD	4/7/2020	
2411	WOODMERE DR	5/29/2020	7/27/2020
3470	WOODRIDGE RD	11/6/2020	
3800	WOODRIDGE RD	9/1/2020	
3463	WOODRIDGE RD	12/10/2020	
769	WOODVIEW RD	5/19/2020	
828	WOODVIEW RD	5/18/2020	
985	WOODVIEW RD	3/13/2020	
973	YELLOWSTONE RD	9/1/2020	
1004	YELLOWSTONE RD	7/16/2020	8/25/2020
1012	YELLOWSTONE RD	8/18/2020	
1132	YELLOWSTONE RD	7/15/2020	
1360	YELLOWSTONE RD	5/15/2020	
2968	YORKSHIRE RD	9/21/2020	
2998	YORKSHIRE RD	11/16/2020	
3155	YORKSHIRE RD	3/25/2020	
3239	YORKSHIRE RD	7/28/2020	
3310	YORKSHIRE RD	4/28/2020	
3282	YORKSHIRE RD	12/14/2020	

APPENDIX C – NEW SEWER DEPARTMENT SOPS



Administrative Support Field Operations

Area: Stormwater Sampling **SOP No.:** SM-11
Title: Stormwater Sampling
Status: Draft Final **Original Date:** 12/4/20 **Revision Date:** _____
Reviewers: Anthony Ferrone – Utilities Commissioner
Author: Utilities Department **Revision Number:** 0

INTRODUCTION / PURPOSE:

The purpose of this procedure is to provide instructions on how to take stormwater grab samples.

GENERAL FREQUENCY:

Quarterly

RESOURCES:

Crew

1 – Utility Person

MATERIALS:

Sampling equipment

PPE (gloves, hardhat, safety glasses, rain gear, rubber boots, hearing protection, steel toed boots)

Tablet, charger and tools

GENERAL WORK METHOD:

Every quarter we have to take a water sample of the catch basin by the gas pumps at Station 3. The sample is actually taken from the manhole on Superior at the rear parking lot. We are examining the color, odor, floatables, deposits, etc. of the water. The following steps are to be filled out in Lucity when taking a sample and recording it:

1. Get a sample bottle and rope = SEE YOUR SUPERVISOR
2. In Lucity, go to EPA Compliance
3. Press Storm Samplings



4. Press the green button
5. Structure Rec. # *CB265-62*
6. Date and Time will record automatically
7. Discharge source = *PUBLIC WORKS SERVICE CENTER*
8. Sample Crew = *YOUR CREW*
9. Inspected By = *THE OPERATOR*
10. Last Rainfall = *HOW MANY DAYS HAS IT BEEN FROM THE LAST RAINFALL*
11. Rainfall Amount = *LEAVE BLANK – IT WILL BE RECORDED WHEN THE COUNTY SENDS THE RAIN*

12. DATA

13. Sample Type = *ST16ZEVCO THIS IS THE MANHOLE THAT YOU ARE GOING TO TAKE THE SAMPLE*

14. Set up safety zone.

15. Open manhole cover = *ST16ZEVCO (SUPERIOR & REAR PARKING LOT).*



16.

17. Lower bottle in manhole. We want samples coming out of the lateral.

18. Observe water and fill out DS (Down Stream) Results

19. Odor Type

20. Odor Severity

21. Color Type

22. Record if there are Floatables

23. Record any comments at the bottom

24. Press Save

25. Dump water back into the manhole

26. Secure manhole and disassemble safety zone



Administrative Support Field Operations

Area: Sewer Cleaning Operation **SOP No.:** SM-12

Title: GAP VAX Operation

Status: Draft Final **Original Date:** 6/9/20 **Revision Date:** _____

Reviewers: Anthony Ferrone – Utilities Commissioner

Author: Utilities Department **Revision Number:** 0

INTRODUCTION / PURPOSE:

The purpose of this procedure is for proper and safe operation of the GAP VAX truck.

GENERAL FREQUENCY:

Daily

RESOURCES:

Crew

1 – Operator

1 – Utility Person

MATERIALS:

GAP VAX Truck

PPE (gloves, hardhat, safety glasses, rain gear, rubber boots, hearing protection, steel toed boots)

Tablet, charger and tools

Traffic Control

GENERAL WORK METHOD:

MAKE SURE Transmission is **ALWAYS** in **NEUTRAL**, Engine at **IDLE** before engaging ANY function!

MAKE SURE Parking Brake is **SET!**

MAKE SURE Chassis air pressure is a **MINIMUM 120 PSI!**

It is recommended that Engine Fan switch be turned **ON**.

MAKE SURE to follow **ENGAGE** and **DIS-ENGAGE** directions!

ATTENTION: Read and Understand the Exhaust Aftertreatment System Information. If the DPF Indicator Illuminates-**IMMEDIATELY** Dis-engage GapVax Equipment Operation and follow instructions on the visor or in the chassis owner’s manual.

Equipment Damage/Personal Injury. NEVER step on the Brake Pedal while Blower, Water Pump, and/or Hydraulics are **ENGAGED AND OPERATING** under load! Equipment damage and/or personal injury or death **WILL OCCUR!**

ENGAGE:

HYDRAULICS:

1. Turn ON PTO switch on the dash
2. DEPRESS the Brake Pedal
3. PUSH “D” (Drive Button on Transmission Selector)
4. Turn ON Cruise Control and Engine Speed Fan

5. Use Cruise Control(s) to set Engine Speed to 1000 RPM MIN

WATER PUMP: MAKE SURE curbside main water valve is OPEN and system is purged.

1. Turn ON PTP Pump switch on dash
2. Turn ON Cruise Control. Turn Fan switch to Manual position
3. Turn ON Power switch in control box
4. Turn water pressure switch to ON position
5. PRESS water pump button on display screen in control box to engage water pump
6. Use engine speed control(s), inside control box, to increase Water Pump speed

HYDRAULICS & WATER PUMP

1. Turn ON PTO switch on dash
2. DEPRESS Brake Pedal
3. PUSH "D" (Drive) Button on Transmission Selector
4. Turn ON Cruise Control. Turn Fan switch to Manual position
5. Turn ON Power switch to ON position
6. Press water pump button on display screen in control box to engage water pump
7. Use engine speed control (s), inside control box to increase Water Pump speed

HYDRAULIC, BLOWER & WATER PUMP

CAUTION: When engaging Blower, PULL Blower air-shift PRIOR to pulling Hydraulics air-shift button

DANGER: NEVER PULL BLOWER air-shift ALONE! Hydraulics Air-shift button MUST also be PULLED

MAKE SURE VAC BREAK SWITCH IS IN THE OPEN POSITION (CONTROL BOX)

1. Turn ON Blower switch on dash
2. Turn ON PTO Pump switch on dash
3. DEPRESS Brake Pedal
4. PUSH "D" (Drive) Button on Transmission Selector
5. Turn ON Cruise Control. Turn Fan switch to Manual position
6. Turn on Power switch in control box
7. Turn water pressure switch to ON position
8. PRESS water pump button on display screen in control box to engage water pump
9. Use engine speed control(s) inside control box to increase Water Pump speed

NOTE: Failure to follow Pre-op, Engage and Disengage directions may result in Personal injury/death and/or Drive System damage!

DISENGAGE

HYDRAULICS:

1. Use Cruise Control to reduce Engine Speed to 800 RPM
2. Turn OFF cruise control and turn engine fan switch to AUTO position
3. PUSH "N" (Neutral) Button on Transmission Selector
4. Wait one (1) FULL Minute for system(s) to return to IDLE
5. Turn OFF PTO Pump switch on dash

WATER PUMP:

1. Relieve Water Pressure
2. Use Throttle Control(s) in control box to reduce Engine Speed
3. Turn water pressure switch OFF
4. PRESS Water pump button in front control box to disengage water pump
5. CLOSE front hose reel water supply valve
6. Turn OFF Power Switch in control pump
7. Use Cruise Control inside cab and reduce engine speed to 800RPM and engine fan switch back to AUTO
8. Turn OFF Cruise Control
9. Turn OFF PTO Pump switch on dash

HYDRAULICS & WATER PUMP:

1. Relieve Water Pressure
2. Use Throttle Control(s) in control box to reduce Engine Speed
3. Turn water pressure to OFF
4. PRESS water pump button on display screen to disengage water pump
5. Turn OFF Power Switch in control box
6. Use Cruise Control inside cab and reduce engine speed to 800 RPM
7. Turn OFF Cruise Control and turn engine fan switch to AUTO position
8. PUSH "N" (Neutral) Button on Transmission Selector
9. Wait one (1) FULL Minute for system(s) to return to IDLE
10. Turn OFF PTO Power Pump switch on dash

HYDRAULICS, BLOWER & WATER PUMP:

1. Relieve Water Pressure
2. Use Throttle Control(s) in control box to reduce Engine Speed
3. Turn water pressure switch OFF
4. PRESS water pump button on display screen to disengage the water pump
5. Turn OFF Power Switch in control box
6. Use Cruise Control inside cab and reduce engine speed to 800 RPM
7. Turn OFF Cruise Control and turn engine fan switch to AUTO position
8. PUSH "N" (Neutral) Button on Transmission Selector
9. Wait one (1) FULL Minute for system(s) to return to IDLE
10. Turn OFF Blower switch on dash
11. Turn OFF PTO Pump switch on dash