



COMBINED SEWER OVERFLOW PUBLIC NOTIFICATION PLAN



VERSION 1.4

APRIL 2020

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1.0 PURPOSE

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 purpose of this CSO Notification Plan is to describe 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 submitted its initial CSO Notification Plan (Version 1.0) to the Ohio Environmental Protection Agency (Ohio EPA) prior to August 7, 2018 and implemented the plan prior to November 7, 2018. This current document serves as the District's most up-to-date version of its CSO Notification Plan (Version 1.4).

2.0 BACKGROUND

The District was created in 1972 and is responsible for wastewater treatment facilities, regional stormwater management, and interceptor sewers in the greater Cleveland Metropolitan Area. The District's mission is to provide progressive sewage and stormwater management through innovation, fiscal responsibility, and community partnerships. The District's service area is approximately 380 square miles, has a population of more than one million people, and encompasses the City of Cleveland and all or portions of 61 suburban municipalities in Cuyahoga, Summit, Lake, and Lorain Counties. The District owns and operates three (3) wastewater treatment plants (WWTPs) and approximately 326 miles of interceptor sewers that carry wastewater from the local sewer systems to the WWTPs. The District's entire collection system is comprised of approximately 20 percent combined sewers and 80 percent separate sanitary sewers, with the majority of the combined sewers located in the City of Cleveland. The District is responsible for CSO discharges through 117 outfalls¹ (see **Attachment A**).

3.0 COMBINED SEWER OVERFLOWS

3.1 Outfall Signage - 40 CFR 122.38(a)(1)

The CSO Notification Rule requires that Great Lakes Basin dischargers install outfall signs at all CSO discharge locations as well as comply with a number of specific outfall signage requirements. However, as required in Part II, I of the District's NPDES permit 3PA00002*HD, the District has already installed outfall signs at all of its CSO discharge locations (see **Figure 1 for an example from CSO 064**). Per the requirements of the NPDES permit, all signs contain the NPDES permit number authorizing the discharge from the outfall, a contact telephone number, the specific outfall number, and the name of the permittee. Additionally, all signs contain language advising the public of the potential risks of coming into contact with combined sewage during and after rain events.

¹ Number of active CSO outfalls owned and operated by NEORS as of April 2020.

Specifically, the language says:

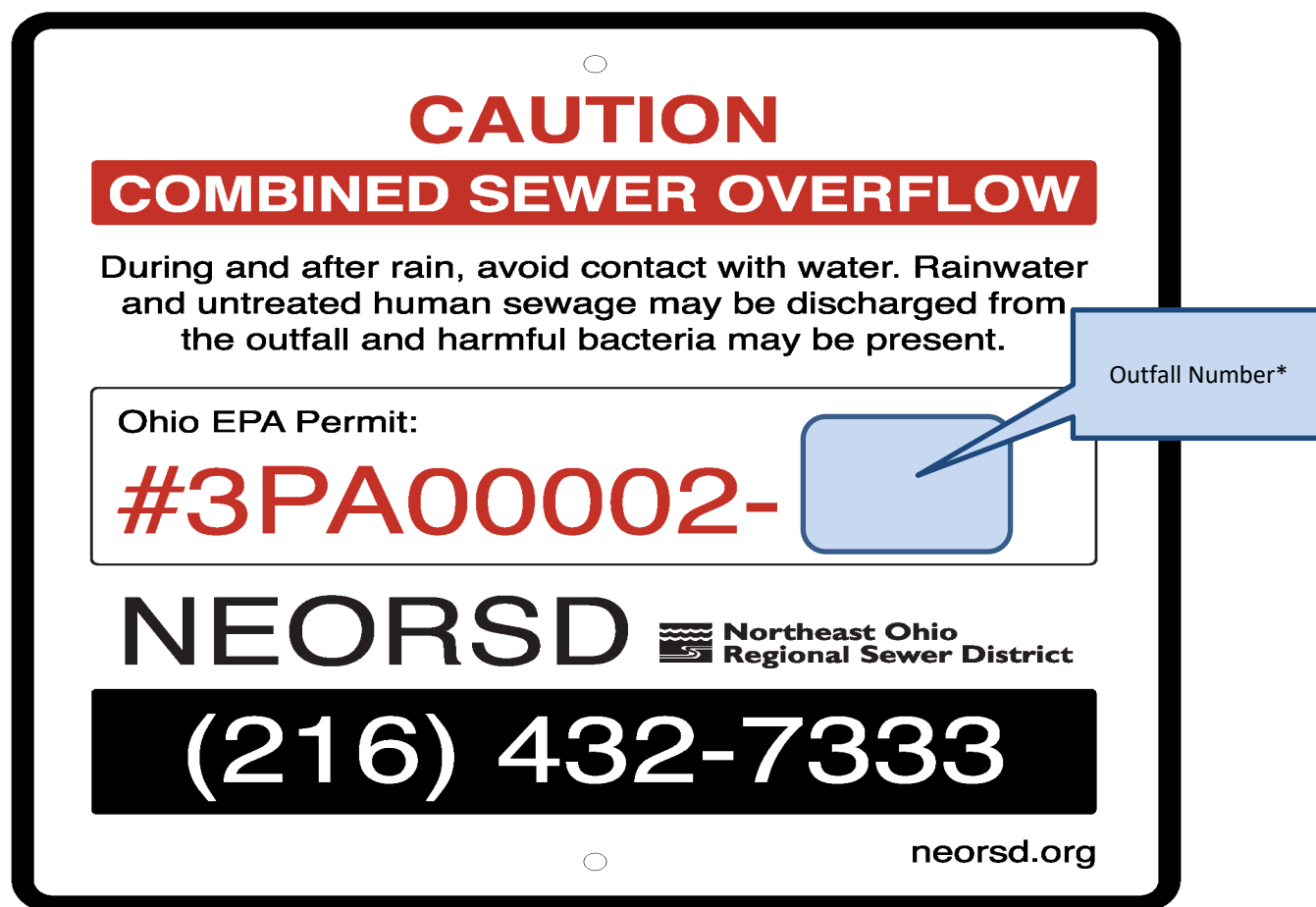
“During and after rain, avoid contact with water. Rainwater and untreated sewage may be discharged from the outfall and harmful bacteria may be present.”

Figure 1. CSO 064 Outfall Sign



Additionally, as part of the District’s outfall inspection and maintenance program, all CSO outfall signs are inspected on at least a biannual basis, with a number of them receiving more frequent inspections, as necessary. Part of maintaining the outfall signs includes ensuring they remain legible, factually correct, vegetation is kept cleared, they are facing the right way, etc. As signs are inspected and determined to be in need of replacement, they will be replaced with new signs that will be 2’ x 2’ with 2-inch lettering and will be installed a minimum of 3 feet above ground level. Signs will always face the receiving water and, in certain cases where it is necessary, be double-sided. The District’s sign template for all new replacement signs at District CSO outfalls is provided in **Figure 2**.

Figure 2. Template for Future CSO Signs



*Please note that specific CSO outfall numbers are added to each sign prior to installation.

The District's current signs, replacement signs, and sign maintenance protocol comply with the requirements of 40 CFR 122.38(a)(1).

3.2 CSO Activations – 40 CFR 122.38(c)(9)

The District will use two (2) methods to determine whether CSO events have occurred: 1) real-time monitoring; and 2) a predictive tool. Each method is further explained below.

3.2.1 Real-time Monitoring

The District currently performs real-time monitoring at 21 CSO locations using either a level monitor or a flow meter (see **Table 1**). The data generated by the field monitors is checked by District staff Monday through Friday, excluding holidays.

Table 1. Real-time Monitored CSOs

CSO	Receiving Water	Measurement
025	Mill Creek	Level
035	Burke Brook	Flow & Level
038	Cuyahoga River	Level
040	Cuyahoga River	Level
044	Treadway Creek	Level
045	Big Creek	Level
056	Big Creek	Level
058	Big Creek	Level
059	Spring Creek	Level
069	Lake Erie	Level
072	Mill Creek	Level
080	Cuyahoga River	Level
088	Big Creek	Level
200	Lake Erie	Flow & Level
202	Lake Erie	Flow & Level
206	Lake Erie	Flow & Level
211	Nine Mile Creek	Flow & Level
218	Doan Brook	Flow & Level
239	Euclid Creek	Level
242	Lake Erie	Level
258	Mill Creek	Level

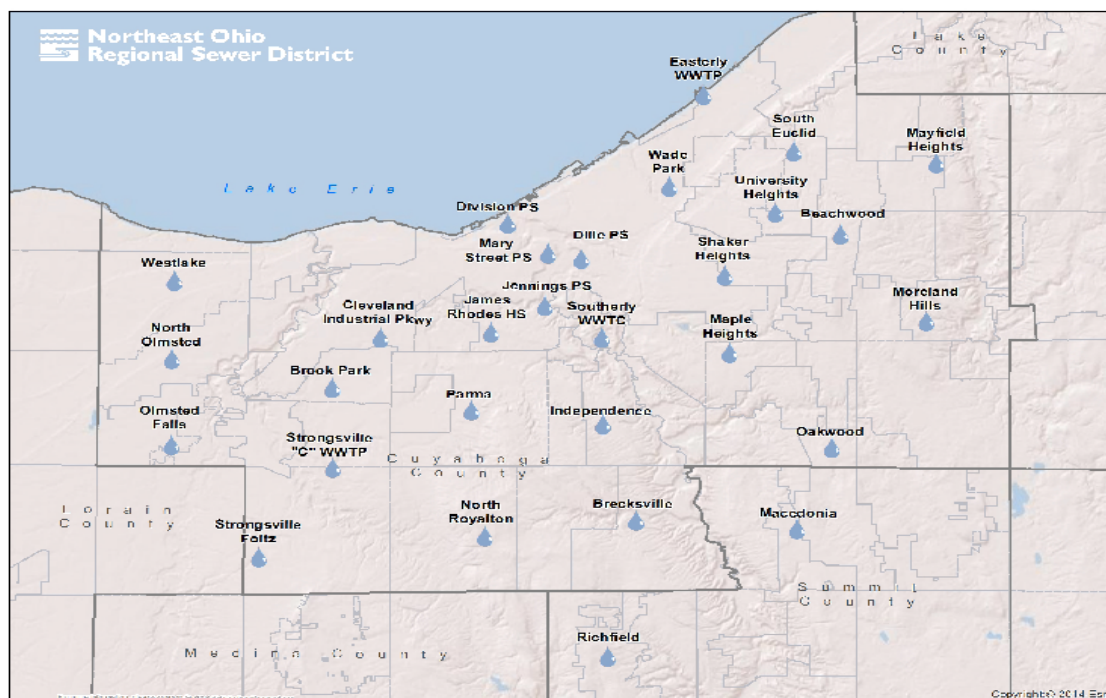
3.2.2 Predictive Tool

For the remaining 96 un-monitored CSOs, the District will use a predictive tool specifically developed for the purpose of estimating whether CSOs occurred following a precipitation event. The tool was developed by running various simulated rainfall events using the District's six (6) CSO models (see **Table 2**) that are currently maintained to reflect existing conditions in the combined sewer system, and the results exported to Microsoft Excel. The models and simulation results used in the development of the predictive tool used Innovyze's InfoWorks ICM 7.5 (Version 7.5.0.15014 November 2016) modeling software platform, using continuous simulation of hourly rainfall data. Since the District is continuously making changes to its collection system, this tool will be re-assessed at a minimum of every five (5) years to determine if recalibration is necessary.

Table 2. District's Collection System Models

Model	Model Version
Big Creek	BCBL201701MM
Easterly	ESBG201707MM-20171031
Heights-Hilltop	HHCS201701MM
Mill Creek	MCCS201701MM
Southerly	SOBG201707MM
Westerly	WEBL201701MM-20170420

The predictive tool uses rainfall data collected from the District's 29 rain gauges located throughout its service area (see **Figure 3**) as well as climatological data from Cleveland-Hopkins International Airport as inputs to generate estimates for CSO activations, volumes, and duration. Rain gauge data is geospatially distributed and correlated to the corresponding rain gauges. The rain data, along with climatological data from the Cleveland Hopkins Airport, are input into the predictive tool to determine if the rainfall caused CSO overflows. The tool generates a prediction of which CSOs activated as well as an estimated duration and volume for each CSO.

Figure 3. Rain Gauge Locations

4.0 NOTIFICATIONS

As required in the CSO Notification Rule, the District will notify: 1) the local public health departments; 2) potentially affected public entities; and 3) the public within four hours after

Table 3. Potentially Affected Public Entities

Public Entity	Contact Information	Phone	Public Access
Canalway Partners	Canalway Partners PO Box 609420 Cleveland, OH 44109	(216) 520-1825	Parks
Channel Park Marina	Bob Ivancic, Owner 5300 Whiskey Island Drive Cleveland, OH 44102	(216) 631-5000	Marina
City of Cleveland	<u>Department of Public Health</u> Ann Snyder, Environmental Programs Manager 75 Erieview Plaza, 2 nd Floor Cleveland, OH 44114	(216) 664-4292	Parks, Trails, CSOs, Public Health Department, Public Water Intake
	<u>Department of Public Utilities</u> Robert Davis, Director 1201 Lakeside Ave. Cleveland, Ohio 44114	(216) 664-2444	
	<u>Department of Public Works</u> Michael Cox, Director 500 Lakeside Ave. Cleveland, Ohio 44114	(216) 664-2485	
	<u>Office of Capital Projects</u> Matt Spronz, Director 601 Lakeside Ave., Rm 113 Cleveland, Ohio 44114	(216) 664-2231	
City of Garfield Heights	Jim Sickels, City Engineer 5407 Turney Road Garfield Heights, Ohio 44125	(216) 475-1100	Parks, CSOs
City of Lakewood	Mark Papke, City Engineer 12650 Detroit Ave. Lakewood, OH 44107	(216) 529-6692	Parks, CSOs
City of Shaker Heights	Christian Maier, Asst. Director of Infrastructure 3400 Lee Rd. Shaker Heights, OH 44120	(216) 491-3283	Parks, CSOs
Cleveland Metroparks	<u>Planning/Engineering Department</u> John Kilgore, Manager of Facilities Engineering 4101 Fulton Pkwy. Cleveland, OH 44144	(216) 635-3251	Parks, Trails, Beaches, Marinas

Public Entity	Contact Information	Phone	Public Access
Cuyahoga County Board of Health	Domenica McClintock, Water Quality Supervisor Megan Symanski, Stormwater Program Manager 5550 Venture Dr. Parma, OH 44130	(216) 201-2000 x1223 (216) 201-2000 x1248	Public Health Department
East Shore Park Club	East Shore Park Club 17217 Dorchester Dr. Cleveland, OH 44119		Parks
Forest City Yacht Club	Forest City Yacht Club 5301 N Marginal Rd. Cleveland, OH 44114	(216) 361-9857	Yacht Club
Lakeside Yacht Club	Lakeside Yacht Club 4851 N Marginal Rd. Cleveland, OH 44114	(216) 432-3270	Yacht Club
Northeast Yacht Club	Northeast Yacht Club 14321 Lakeshore Blvd. Cleveland, OH 44110	(216) 481-9558	Yacht Club
Port of Cleveland	Jared Magyar, Director of Operations and Utilities 1100 West 9th St., Suite 300 Cleveland, OH 44113	(216) 377-1353	Nature Preserve
Village of Brooklyn Heights	Michael Henry, Village Engineer 345 Tuxedo Avenue Brooklyn Heights, Ohio 44131	(216) 749-4300	Trails, CSOs
Village of Cuyahoga Heights	Todd Sciano, Village Engineer 7979 Hub Pkwy. Valley View, OH 44125	(216) 642-1130	Parks, Trails, CSOs

4.1 Becoming Aware of CSO Discharges

For the purposes of this plan, the District will become aware of a CSO discharge by: 1) review of field monitoring data that indicates a CSO activated; or 2) review of the results of the predictive tool that indicates that a CSO activated.

4.1.2 Real-time Monitoring

Each morning, Monday through Friday, excluding holidays, District staff reviews the data generated by the field monitoring equipment for the previous 24 hours to determine if a CSO discharge event is actively occurring or has occurred at one of the monitoring locations (see **Table 1**). On Mondays, staff reviews the data collected over the weekend to determine if an overflow occurred. The District will use the data collected by the meters and level monitoring equipment to approximate the volume and duration of discharges as well as an approximation of when the overflow began and ended.

4.1.3 Predictive Tool

Monday through Friday, excluding holidays, District staff reviews and verifies the accuracy of precipitation data collected by the District's rain gauges for the previous 24 hours. On Mondays, staff will review rain data collected over the weekend. The rain data, along with climatological

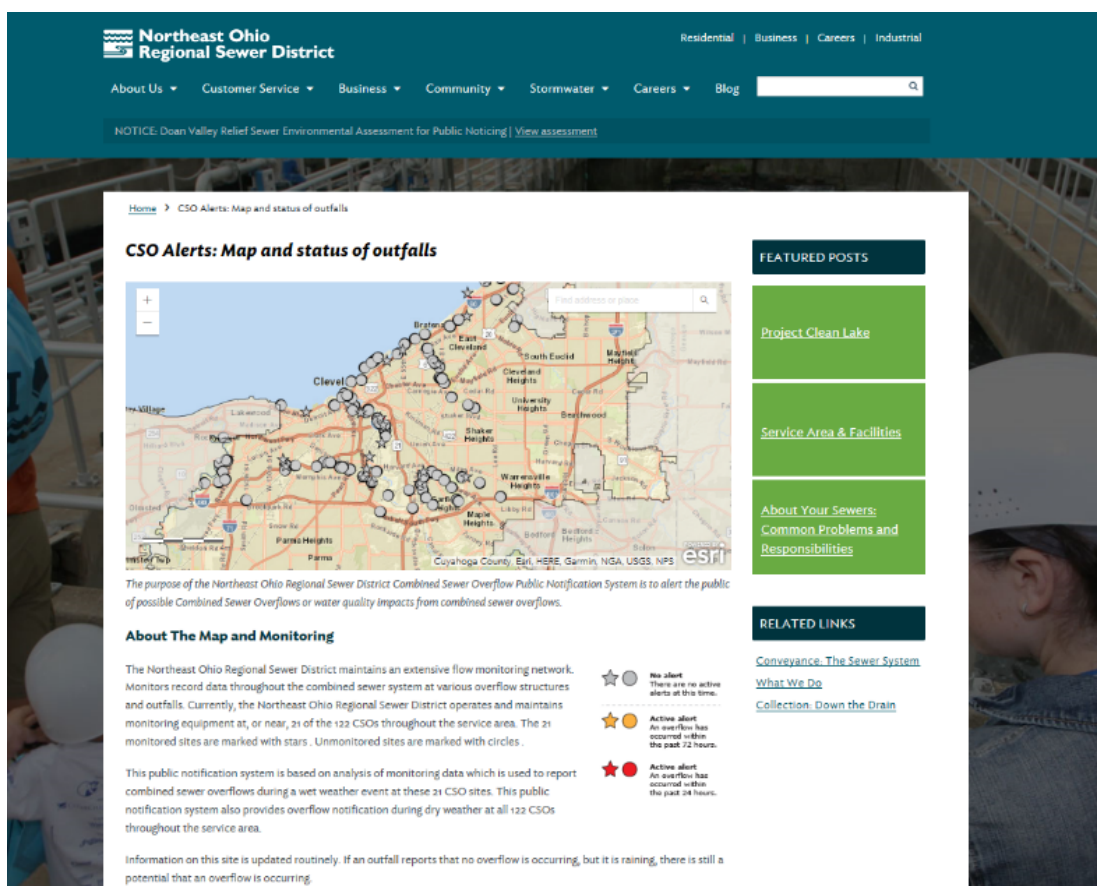
data from the Cleveland Hopkins Airport, will be input into the predictive tool to determine if the rainfall caused CSO overflows. The tool will generate a prediction of which CSOs activated as well as an estimated duration and volume for each CSO.

4.2 Initial Notification – 40 CFR 122.38(a)(2)-(3)

If the District's real time CSO monitoring equipment or the predictive tool indicate that a discharge(s) occurred, then within four (4) hours of becoming aware of a CSO discharge, the District will post the information required by 40 CFR 122.38(a)(2)-(3) on the District's CSO alert webpage at <https://www.neorsd.org/cso-alerts-map-and-status-of-outfalls/>.

CSOs that have activated within the past 24 hours will be shown in **red** as an "Active Alert" and then will turn to **orange** for the next 48 hours. After 72 hours, the CSO outfall will return to "No Alert" status. Use of the CSO Alert webpage will allow the District to effectively and efficiently communicate with the public, local health departments and stakeholders at the same time. A screen shot from the webpage is shown in **Figure 4**.

Figure 4. NEORSO CSO Alert Webpage



Selecting an Active Alert CSO outfall will open a pop-up box that provides detailed information about the location of the CSO including the receiving water and any potentially impacted public access areas as well as a photograph of the outfall. In addition, information about the specific

Active Alert will be displayed including the estimated start/stop time, volume, and duration, if available at that time. A complete list of District CSOs, receiving waters, and public access areas that could potentially be impacted by CSO discharges is provided in **Attachment A**.

The NEORSD CSO Alert webpage also provides information about the potential hazards associated with CSO discharges and recommends that the public avoid contact with waters potentially impacted by CSO discharges for 48 hours after a CSO activation. The District will also provide separate, direct notification to the Cuyahoga County Board of Health and the Cleveland Department of Public Health via email whenever CSO information is updated on the CSO Alert webpage.

4.3 Supplemental Notification – 40 CFR 122.38(a)(2)(ii) and (3)(iii)

Within seven (7) days of becoming aware that the CSO discharge has occurred, the District will update the information provided on its CSO Alert webpage with any supplemental information that is required by 40 CFR 122.38(a)(2)(ii) and (3)(iii).

4.4 Annual Notification – 40 CFR 122.38(b)

Section 122.38(b) of the CSO Discharge Notification Rule requires CSO dischargers covered by the rule to make available to the public an annual notice describing the CSO discharges that occurred in the previous calendar year. The District's annual notice will be made available to the public on the District's CSO Alert webpage by May 1st of each year and will include a current list of all CSO outfalls along with their location and any nearby potentially-affected public access areas. The annual notice will also include a summary of annual precipitation totals, available monitoring data for the District's monitored CSOs as well as a summary of the data generated by the District's predictive models which are run every year for the entire collection system. The report will also include an explanation for the causes of all wet weather and dry weather CSO discharge events, and a concise summary of the implementation of the District's Long-Term Control Plan (i.e., Project Clean Lake) and other activities to reduce or prevent CSO discharges.

5.0 PUBLIC COMMENTS

The District sought input on the initial plan by making it publicly available for review and received input from the Cleveland Metroparks. The Ohio Environmental Protection Agency (Ohio EPA) also provided comments on the plan after it was submitted to their Northeast District Office on August 7, 2018. All comments, along with the District's responses to each one, are provided in the subsequent sections.

5.1 Cleveland Metroparks

Cleveland Metroparks Comment 1: Requested that the contact information in Table 3 be modified to indicate one single contact person.

District Response 1: The District agreed to make this change.

5.2 Ohio EPA

Ohio EPA Comment 1: The current notification website does not appear to include all of the required information as indicated in Section 4.2, particularly the volume discharged and times the discharge started and ended. Please ensure that this information is provided.

District Response 1: In response to this comment, the District provided the following reply to Ohio EPA:

“The District’s current CSO Alert Webpage was created and implemented several years before the requirements of 40 CFR 122.38 were promulgated. As required by the rule, starting November 7, 2018, all required information, including the referenced volumes and start and stop times of discharges, will be provided on the District’s CSO Alert Webpage.”

No changes to the plan were made in response to this comment.

Ohio EPA Comment 2: Attachments A and B list a number of potentially impacted public access areas. The new rule requires that public access points (e.g. boat ramps, beaches, marinas) managed by public entities (e.g. Cleveland Metroparks, City of Cleveland) are required to have a notification sign. Please provide a list similar to Attachment A which provides a brief description of notification sign locations at potentially impacted public access areas.

District Response 2: In response to Comment 2 from Ohio EPA, the District contacted public entities that owned/operated any public access areas identified in **Attachment A**. Specifically, the District contacted the City of Shaker Heights, Cleveland Metroparks, and the City of Cleveland and offered to install additional CSO Notification signage on their properties. All three entities declined, with documentation of this being available upon request. No changes to the plan were made in response to this comment.

Ohio EPA Comment 3a: In Section 4.2, notification, e.g. text, email, should be sent directly to the respective health departments. Can the system be programmed to send an “alert” message to the health department to check the notification website in the event of a CSO?

District Response 3a: In response to this comment, the District contacted the Cuyahoga County Board of Health and the Cleveland Department of Public Health to see if either office would be interested in receiving separate email alerts whenever the CSO Alert Webpage was updated with new information. Both entities expressed an interest in receiving these alerts, and so the District agreed to provide this information to both offices (see revisions to **Section 4.2**).

Ohio EPA Comment 3b: Additionally, please clarify whether the hour milestones for outfall color change are counted from the start or end time of the CSO discharge. Ohio EPA recommends using the time that discharge ends.

District response 3b: In response to this comment, the District provided the following reply to Ohio EPA.

“Additionally, outfall color changes on the CSO Alert webpage are made as necessary by staff that review CSO discharge data on a daily basis. The hour milestones for outfall color changes are

changed each morning (Monday – Friday) based on whether an overflow occurred during the previous day (or weekend) regardless of when it stopped or started.”

Ohio EPA Comment 4: Is the notification website populated by the real-time monitoring system or by NEORSO staff that reviews the data? Please indicate who is responsible for ensuring that notifications are properly posted to the website.

District Response 4: In response to this comment, the District provided the following reply to Ohio EPA:

“The designated District Operator of Record for the CSO NPDES permit, along with their staff, will be responsible for ensuring that the required information is posted to the CSO Alert website.”

No changes to the plan were made in response to this comment.

6.0 SIGNIFICANT MODIFICATIONS

The District has not made any significant modifications to the original Plan (Version 1.0). **Table 4** presents the minor changes that have been made to the Plan.

Table 4. Summary of Modifications

Version	Section	Change
Version 1.1	Section 4.0	Updated contact information for Cleveland Metroparks in Table 3
Version 1.2	Section 4.2	Added email alert for health departments in response to Ohio EPA comment on Version 1.0.
	Section 5.0	Added comments received on Version 1.0.
Version 1.3	Section 3.2.2	Updated section to indicate there are now 29 District rain gauges and included an updated Figure 3
	Section 4.4	Revised to indicate that annual report would contain a summary of data from annual model runs instead of summary of data from predictive tool
Version 1.4	Section 2.0 and 3.2.2	Updated sections to indicate the correct number of total active CSOs and unmonitored CSOs
	Attachment A	Revised to remove CSOs from the list that were converted to stormwater only in 2019. These outfalls include CSO-066, CSO-083, and CSO-085. Also updated the receiving waters for CSO-230 and CSO-231.
	Attachment B	Updated the map on page 30 for the Rocky River Reservation to remove CSO-066 which was converted to stormwater only in 2019.

ATTACHMENT A

NEORSO CSO OUTFALLS

CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
007	Bancroft Ave. W of Warner Rd., behind 7414 Bancroft Ave	Garfield Heights	Mill Creek	None
013	100' W of W end of Maryland Ave	Cleveland	Mill Creek	None
014	Laumar Ave., W of E 77 th St., W of 7684 Laumar Ave.	Cleveland	Mill Creek	None
017	Down Gravel Rd. at Dorver Ave. & E 77 th St., E of RR Tracks	Cleveland	Mill Creek	None
019	Under Warner Rd., Bridge at Broadway Rd., access thru Webbs Terrace Rd.	Cleveland	Mill Creek	Cleveland Metroparks: Garfield Park Reservation
020	Along Mill Creek, W of exit ramp from Warner Rd. to Broadway Ave.	Cleveland	Mill Creek	Cleveland Metroparks: Garfield Park Reservation
021	W of E 94 th St. & Broadway Ave. intersection, E side of creek	Cleveland	Mill Creek	Cleveland Metroparks: Garfield Park Reservation
022	E Blvd. Bridge, 130' N of Cranwood Pump Station	Garfield Heights	Mill Creek	None
025	E 131 st St., S Outfall at Cranwood Park	Garfield Heights	Mill Creek	None
027	S side of Johnston Rd., near the Fitness Trail	Cleveland	Mill Creek	City of Cleveland: Arthur Johnston Park
028	Located between ends of Kollin Ave. & E 173 rd St.	Cleveland	Mill Creek	None
030	E 88 th St. & S Highland Ave. ,behind 5138 E 88 th St.	Garfield Heights	Mill Creek	None
031	W of E 81 st St. & Vista Ave., S of Dirt Rd.	Garfield Heights	Mill Creek	None
032	Garfield Park Reservation, along Wolf Creek, across from Nature Center	Garfield Heights	Mill Creek	Cleveland Metroparks: Garfield Park Reservation
033	Intersection of Harvard Ave. & Denison Ave., S of Alcoa Gate #5	Cuyahoga Heights	Cuyahoga River	Cleveland Metroparks: Towpath Trail
035	Burke Brook at Cuyahoga River	Cleveland	Cuyahoga River	None
036	Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection	Cleveland	Cuyahoga River	None
037	1,500' N of Morgana Run at Cuyahoga River (Southernmost Pipe)	Cleveland	Cuyahoga River	None
038	600' SW of E 26 th St. & Independence Rd.	Cleveland	Cuyahoga River	None
039	At Cuyahoga River turning basin 400' W of Independence Rd.	Cleveland	Cuyahoga River	None

CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
040	Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd.	Cleveland	Cuyahoga River	None
043	E of intersection of Tarlton Ave. & W 15 th St.	Cleveland	Treadway Creek	City of Cleveland: Treadway Creek Trail
044	N of intersection of Irving Ave. & South Hills Dr.	Cleveland	Treadway Creek	City of Cleveland: Harmody Park City of Cleveland: Treadway Creek Trail
045	NE of intersection of Jennings Ave. & Valley Ave.	Cleveland	Big Creek	None
050	E side of old bridge, under W 25 th St. bridge	Cleveland	Big Creek	Cleveland Metroparks: Zoo
051	Main entrance of Zoo at Brookside Dr. at mouth of triple culvert	Cleveland	Big Creek	None
052	Big Creek culvert beneath main entrance parking lot @ Zoo	Cleveland	Big Creek	None
053	Intersection of John Nagy Blvd. & W 57 th St., S side of creek	Cleveland	Big Creek	Cleveland Metroparks: Brookside Reservation
054	N of John Nagy Blvd. just W of Ridge Rd. bridge	Cleveland	Big Creek	Cleveland Metroparks: Brookside Reservation
055	Under bridge E of Bellaire Rd. & Kensington Rd.	Linndale	Big Creek	None
056	Under bridge E of Bellaire Rd. & Kensington Rd.	Linndale	Big Creek	None
057	Memphis & I-71, under interstate	Linndale	Big Creek	None
058	W 114 th St. & Peony Ave., Behind 3628 W 114 th St.	Cleveland	Big Creek	None
059	Spring Rd. at Jennings Rd.	Cleveland	Spring Creek	None
060	Big Creek emergency bypass off Van Epps Blvd.	Brooklyn Heights	Cuyahoga River	Cleveland Metroparks: Towpath Trail
062	Mid-point of Puritas Rd. hill into Metroparks	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
063	Along Granger Rd., SE of the Westbound I-480 exit to Granger Rd.	Brooklyn Heights	West Creek	None
064	End of Larchwood Ave., W of intersection with Riveredge Rd.	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
065	N of Old Lorain Rd. bridge over Rocky River	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
067	W of 3870 Rocky River Dr. at NW Corner of Kamm's Plaza	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
068	Off Hogsback Ln., SW of Intersection with Riverside Dr.	Lakewood	Rocky River	Cleveland Metroparks: Rocky River Reservation
069	Upper Edgewater Park, approximately 300 yards W of bathing beach	Cleveland	Lake Erie	Cleveland Metroparks: Edgewater Park
071	Harborview Dr. & W 117 th St., behind 11644 Harborview Dr.	Cleveland	Lake Erie	None

CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
072	Access thru Harvard Refuse Inc. at Finney Rd. & E 78 th St., along Mill Creek	Cleveland	Mill Creek	None
073	Giddings Brook at Doan Brook, NE of intersection of Baldwin Rd. & Fairhill Rd.	Cleveland	Doan Brook	City of Cleveland: Ambler Park
074	W 45 St. at Old River Bed	Cleveland	Cuyahoga River	Channel Park Marina
075	River Rd. & Elm St.	Cleveland	Cuyahoga River	None
076	Center St. & Cuyahoga River on W side of river	Cleveland	Cuyahoga River	None
078	Columbus Rd. & Cuyahoga River on W side of river	Cleveland	Cuyahoga River	City of Cleveland: Rivergate Park Canalway Partners: Hart Crane Park City of Cleveland: Heritage Park City of Cleveland: Settlers Landing Park
080	University Rd., SE of 2065 Scranton Rd.	Cleveland	Cuyahoga River	Cleveland Metroparks: Towpath Trail
081	Downstream of W 3 rd St. bridge	Cleveland	Cuyahoga River	None
082	W 3 rd St. & Cuyahoga River under bridge on S side of river	Cleveland	Cuyahoga River	None
084	1,000 feet E of Ridge Rd. & Associate Ave.	Cleveland	Big Creek	None
086	Mary St. E of W 3 rd St. at Cuyahoga River	Cleveland	Cuyahoga River	None
087	E of Houston Ave. & Quigley Rd. at Cuyahoga River	Cleveland	Cuyahoga River	None
088	Located on LTV Steel property, N of RR bridge, on W side of river	Cleveland	Cuyahoga River	None
089	E of W 3 rd St. Pump Station	Cleveland	Cuyahoga River	None
091	Old River Rd. & Main Ave. on E side of river	Cleveland	Cuyahoga River	None
092	Intersection of Old River Rd. & Front Ave. at Cuyahoga River	Cleveland	Cuyahoga River	Cleveland Metroparks: Wendy Park
093	N of Municipal Stadium	Cleveland	Lake Erie	None
094	N of E 12 th St. & Lakeside Ave. at USS COD	Cleveland	Lake Erie	None
095	N of E 20 th St. & Lakeside Ave.	Cleveland	Lake Erie	None
096	N of E 26 th St. & Lakeside Ave.	Cleveland	Lake Erie	None

CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
097	N of I-71 & I-90	Cleveland	Lake Erie	None
098	N of E 33 rd St. & Lakeside Ave.	Cleveland	Lake Erie	None
099	N of E 38 th St. & King Ave.	Cleveland	Lake Erie	None
200	N of E 40 th St. & King Ave., N of Aviation High School	Cleveland	Lake Erie	Lakeside Yacht Club
201	Forest City Yacht Club at Marquette St. & N Marginal Dr.	Cleveland	Lake Erie	Forest City Yacht Club
202	E 55 th St. at Lake Erie	Cleveland	Lake Erie	Cleveland Metroparks: E. 55 th St. Marina
203	E of E 55 th St., N of Cleveland Lakefront State Park Marina	Cleveland	Lake Erie	Cleveland Metroparks: E. 55 th St. Marina
204	Gordon Park W of E 72 nd St. at Lake Erie	Cleveland	Lake Erie	Cleveland Metroparks: E. 72 nd Fishing Area
205	NW of E 88 th St. & Carr Ave.	Cleveland	Lake Erie	Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve
206	N end of E 156 th St. at Lake Erie	Cleveland	Lake Erie	Cleveland Metroparks: Lakefront Reservation Cleveland Metroparks: Euclid Beach Park Cleveland Metroparks: Villa Angela Beach
207	NW of E 156 th St. & Lakeshore Blvd. (Green Creek)	Cleveland	Lake Erie	None
208	N of Neff Rd. & East Park Dr. intersection	Cleveland	Lake Erie	East Shore Park Club
209	W side of Euclid Creek at Lakeshore Blvd.	Cleveland	Euclid Creek	Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach and Euclid Beach)
210	Under St. Clair Ave. bridge, E of Nottingham Rd. & St. Clair Ave.	Cleveland	Euclid Creek	None
211	Nine-Mile Creek, E of Coit Rd., between RR tracks	Cleveland	Nine Mile Creek	None
212	Belvoir Blvd. opposite Quilliams Ave., E side of Creek	Cleveland	Nine Mile Creek	None
214	Behind American Steel Supplies at Saranac Rd. & E 170 th St., along RR	Cleveland	Green Creek	None
215	W side of Doan Brook at St. Clair Ave.	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
216	W of Parkgate Ave. & East Blvd., E side of Doan Brook	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park

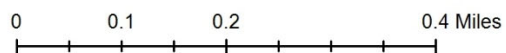
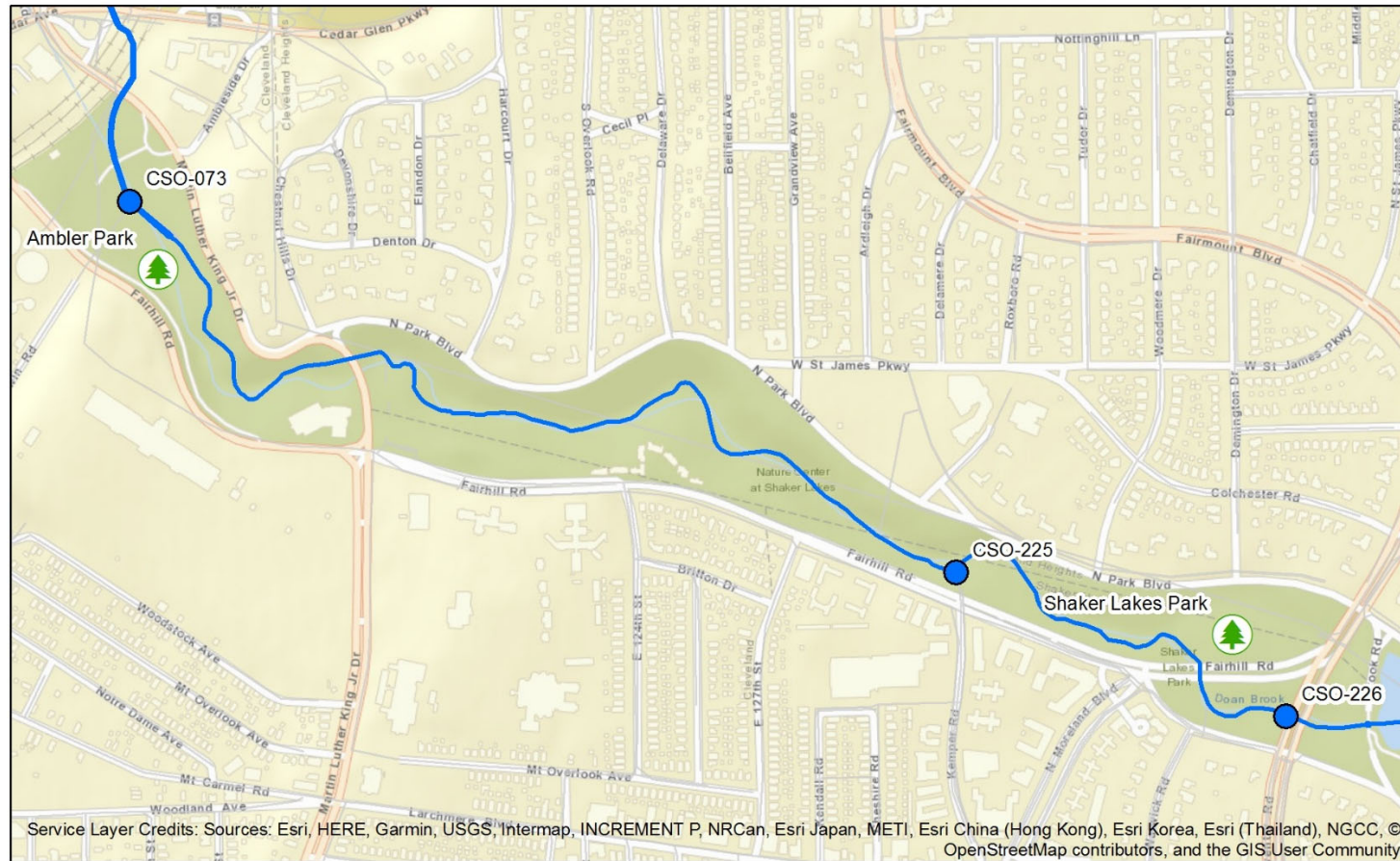
CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
217	W of Martin Luther King Blvd. & E 98 th St., E side of Doan Brook	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
218	E side of Doan Brook, S of Superior Ave.	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
219	W side of Doan Brook, N of Superior Ave.	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
220	Across from intersection of East Blvd. & Ashbury Blvd. on E side of Doan Brook	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
221	E 105 th St. & Hough Ave.	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
222	E 105 th St. & Doan Brook on S side of Doan Brook	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
223	N of E 107 th St. & Parklane Rd. behind art museum	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park City of Cleveland: Harrison-Dillard Trail
224	N of E 107 th St. & Parklane Rd., behind Art Museum at Doan Brook culvert	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park City of Cleveland: Harrison-Dillard Trail
225	N of Kemper Rd. & Fairhill Rd. at Doan Brook	Shaker Heights	Doan Brook	Shaker Lakes Park
226	Along creek N of Larchmere & Coventry Rd., downstream of bridge over Creek	Shaker Heights	Doan Brook	Shaker Lakes Parks
230	West Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd.	Cleveland	Dugway Brook - West	None
231	East Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd.	Cleveland	Dugway Brook - East	None
232	S side of I-90, E of Eddy Rd. at Shaw Brook	Bratenahl	Shaw Brook	None
233	W 150th St., S of Industrial Pkwy., under bridge over Big Creek	Cleveland	Big Creek	None
234	Doan Brook between Martin Luther King Blvd. & E 105 th St. (E side of culvert)	Cleveland	Doan Brook	City of Cleveland: Rockefeller Park
238	N side of apartment parking lot at Rocky River Rd. & Fairway Ave.	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
239	E shore of Euclid Creek at Lakeshore Blvd.	Cleveland	Euclid Creek	Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach and Euclid Beach)

CSO	Location	Municipality	Receiving Water	Potentially Impacted Public Access Area
240	Jefferson Ave., E of W 3 rd St.	Cleveland	Cuyahoga River	None
241	I-71 under Eaton Corp. sign	Brooklyn	Big Creek	None
242	E 142 nd St. & Lakeshore Blvd.	Cleveland	Lake Erie	Northeast Yacht Club
243	In ravine, W of Warner Rd., S of Garfield Rd.	Garfield Heights	Mill Creek	None
245	Edgepark Dr. at E 117 St. (North)	Garfield Heights	Wolf Creek	Cleveland Metroparks: Garfield Park Reservation
246	Broadway Ave. at Mill Creek, E wall of bridge	Garfield Heights	Mill Creek	Cleveland Metroparks: Garfield Park Reservation
247	East Blvd. at Cranwood Creek, N of Thornhurst Ave.	Garfield Heights	Mill Creek	None
249	450 feet E of E 119 th St. & 250 feet N of McCracken Rd.	Garfield Heights	Wolf Creek	Cleveland Metroparks: Garfield Park Reservation
250	Along Cuyahoga River, 370 feet S of Canal Rd., E side of I-77 bridge	Cuyahoga Heights	Cuyahoga River	Cleveland Metroparks: Towpath Trail
252	Between E 71 st St. & I-77, S of building at 4620 E 71 st St.	Cuyahoga Heights	Ohio Canal	None
254	Sunset & Metropolitan	Cleveland	Rocky River	Cleveland Metroparks: Rocky River Reservation
255	Cooley Ave. relief under bridge, E of Bellaire & Kensington	Cleveland	Big Creek	None
256	2053 Green Rd.	Cleveland	Green Creek	None
257	Jennings Rd. near Georgette Ln.	Cleveland	Spring Creek	None
258	Mill Creek Tunnel Silo	Cuyahoga Heights	Mill Creek	None
SAPS	425' SW of Intersection of Superior Ave. & Robert Lockwood Jr. Dr.	Cleveland	Cuyahoga River	City of Cleveland: Settler's Landing Park

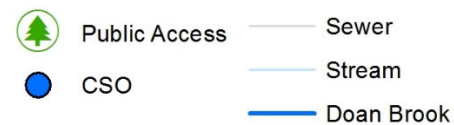
ATTACHMENT B

**PUBLIC ACCESS AREAS
POTENTIALLY IMPACTED BY CSO DISCHARGES**

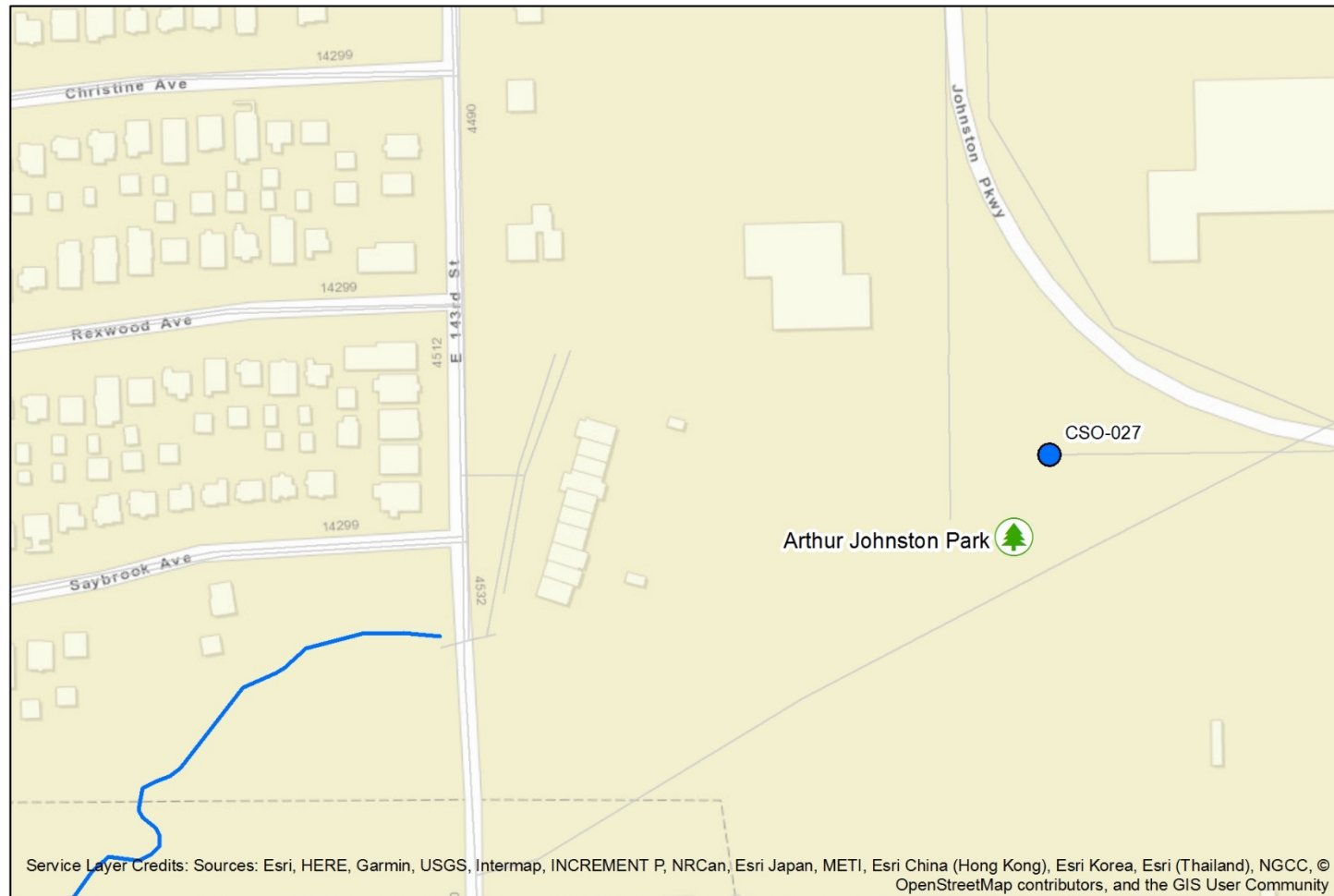
Ambler Park, Cleveland, Ohio
Shaker Lakes Park, Shaker Heights, Ohio



District CSOs and Public Access Areas



Arthur Johnston Park, Cleveland, Ohio



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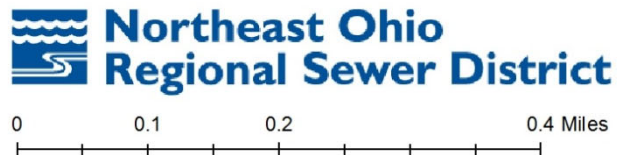
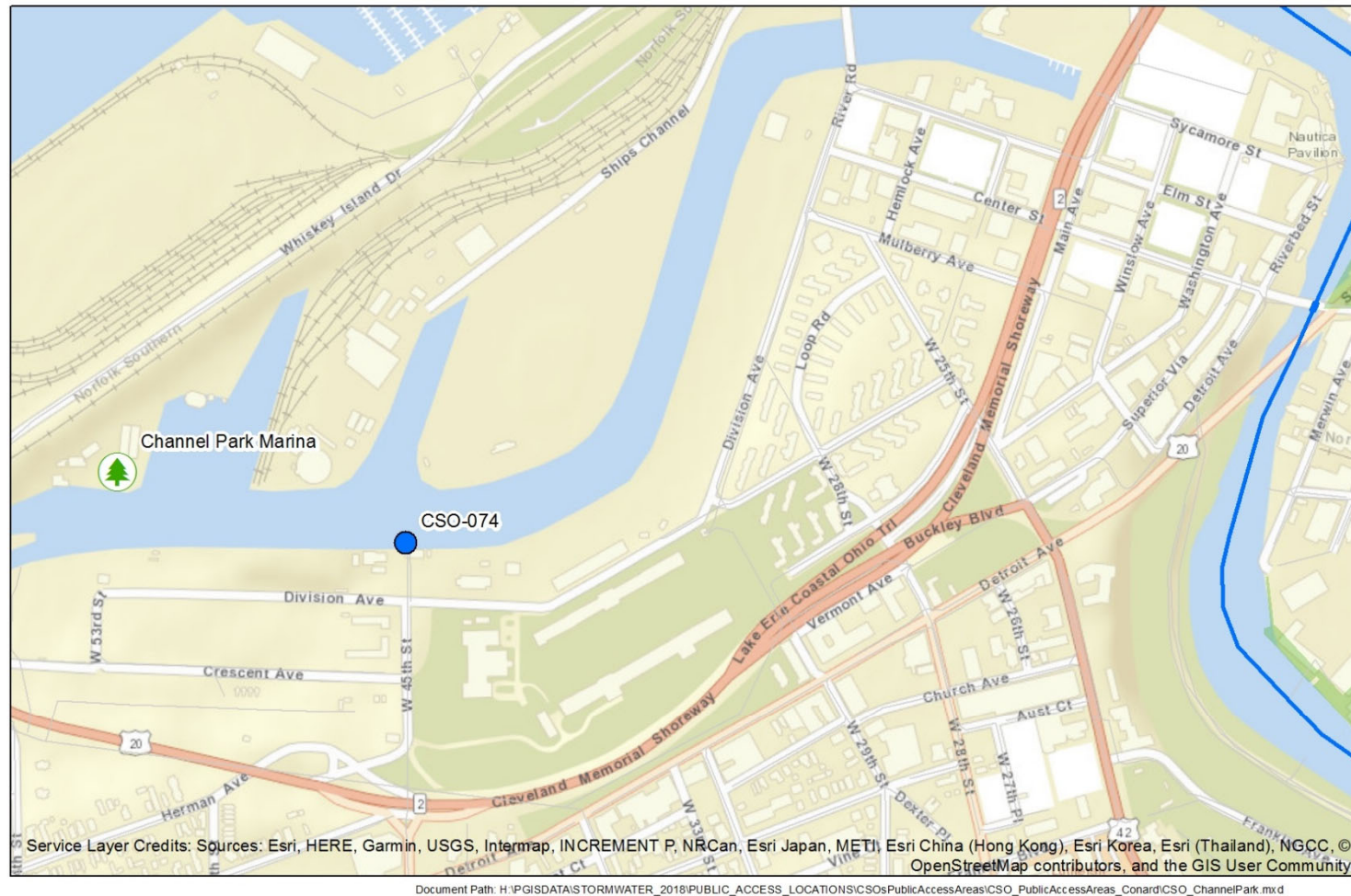
0 0.02 0.04 0.08 Miles

District CSOs and Public Access Areas

- Public Access
- CSO
- Sewer
- Stream
- Mill Creek



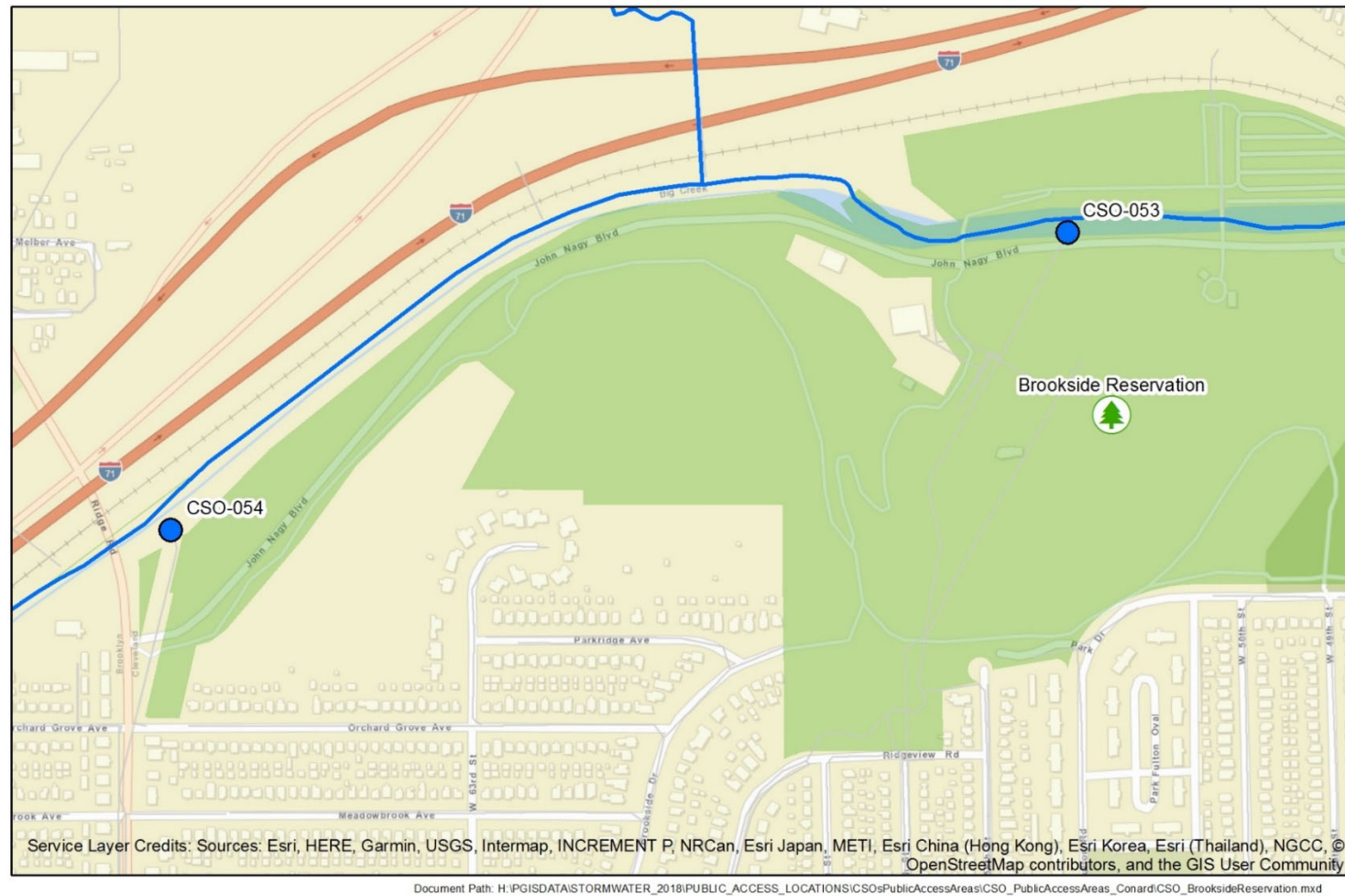
Channel Park Marina, Cleveland, Ohio



District CSOs and Public Access Areas








Cleveland Metroparks Brookside Reservation, Cleveland, Ohio



0 0.075 0.15 0.3 Miles

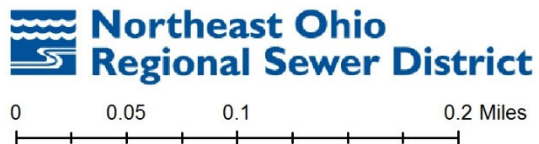
District CSOs and Public Access Areas

-  Public Access
-  CSO
-  Sewer
-  Stream
-  Big Creek

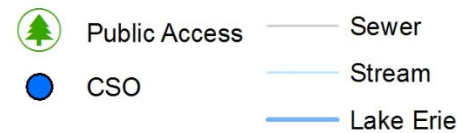


Cleveland Metroparks East 55th Street Marina, Cleveland, Ohio

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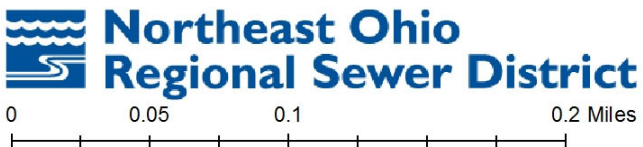
District CSOs and Public Access Areas



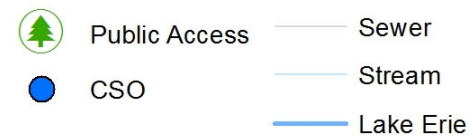
Cleveland Metroparks Edgewater Park, Cleveland, Ohio



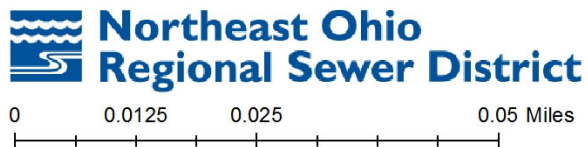
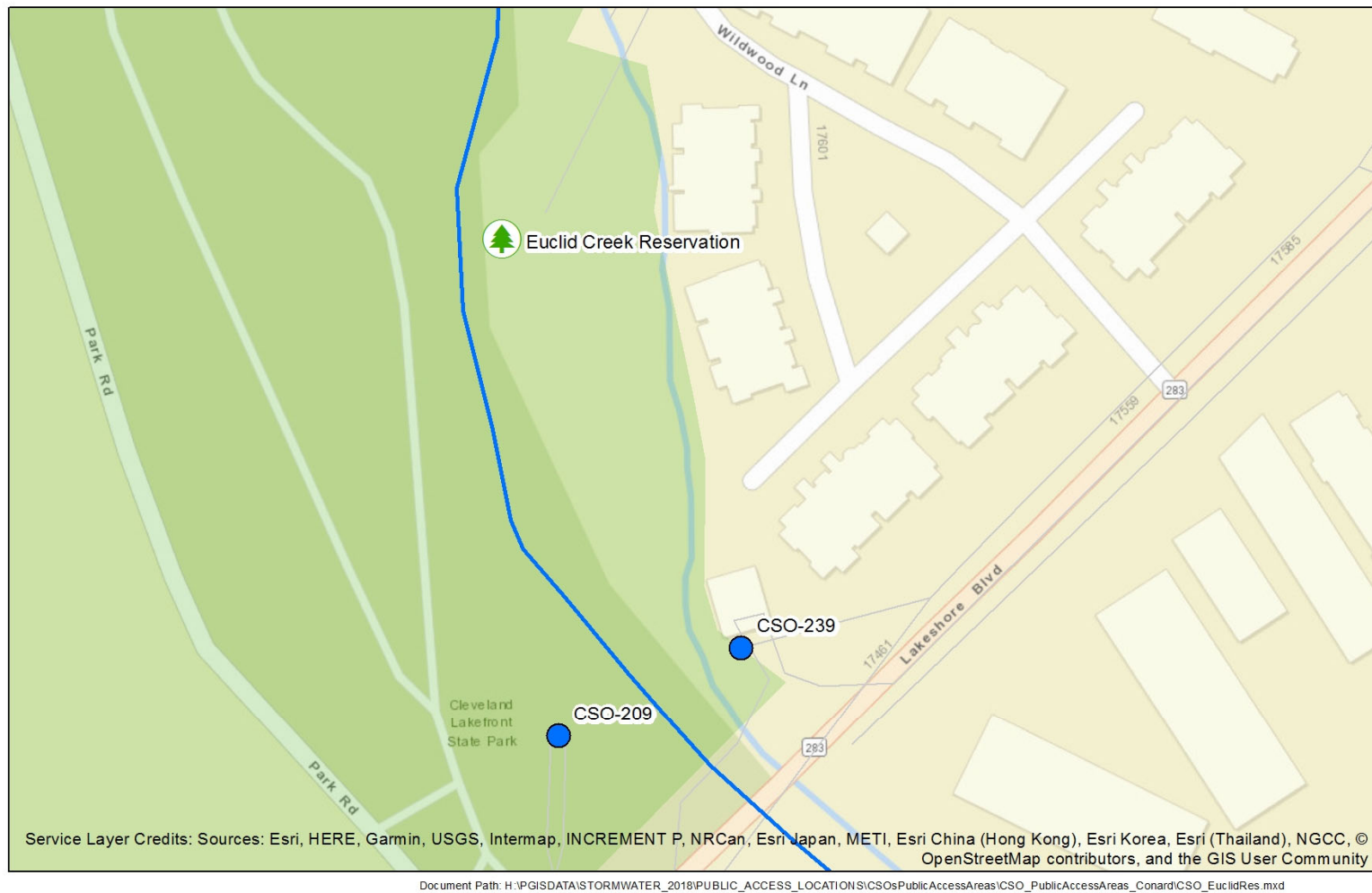
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District CSOs and Public Access Areas



Cleveland Metroparks Euclid Creek Reservation, Cleveland, Ohio

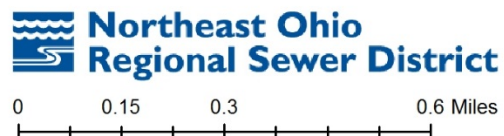
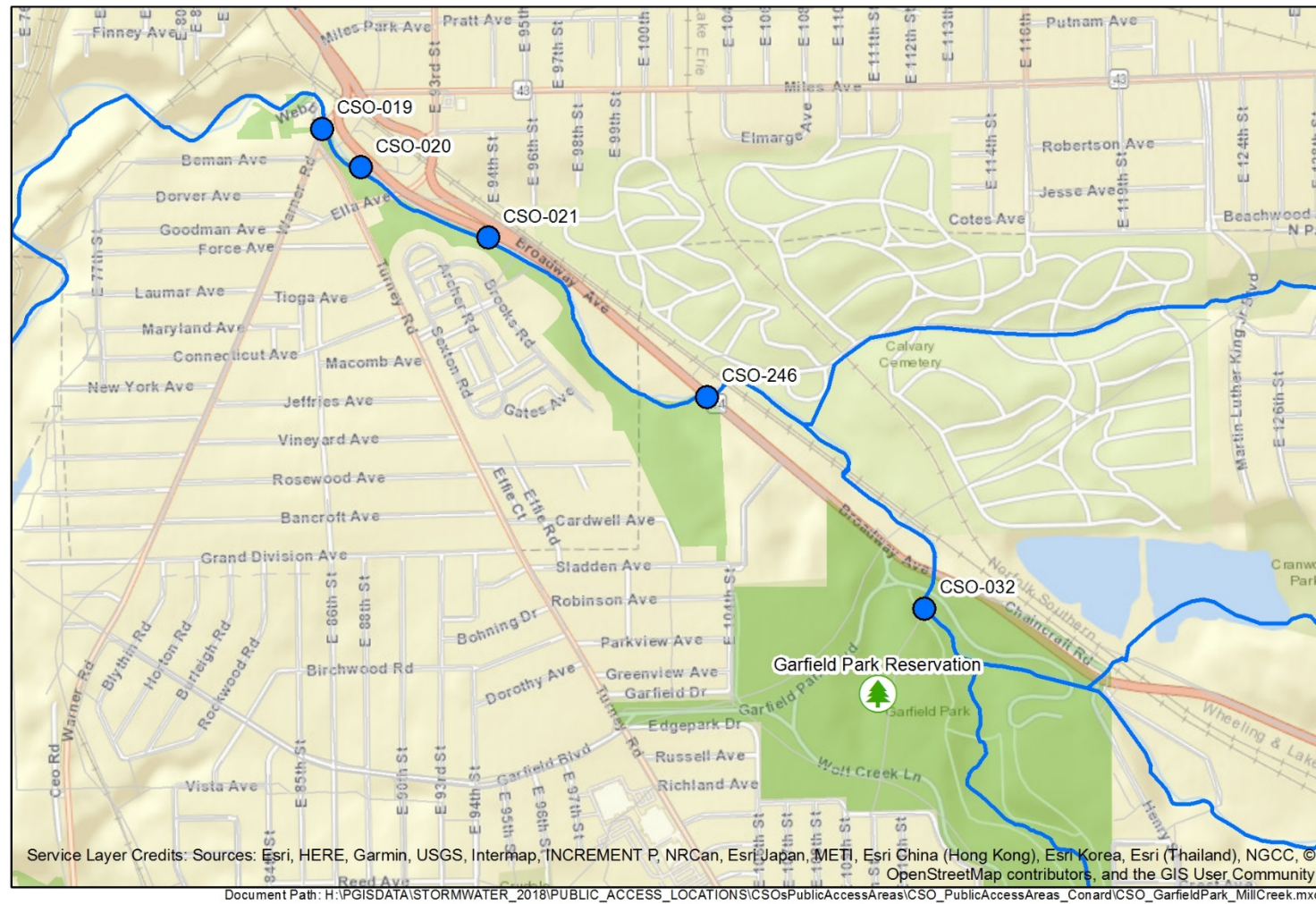


District CSOs and Public Access Areas

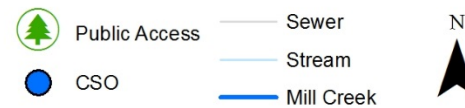
- Public Access
- CSO
- Sewer
- Stream
- Euclid Creek



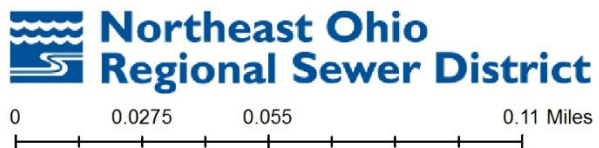
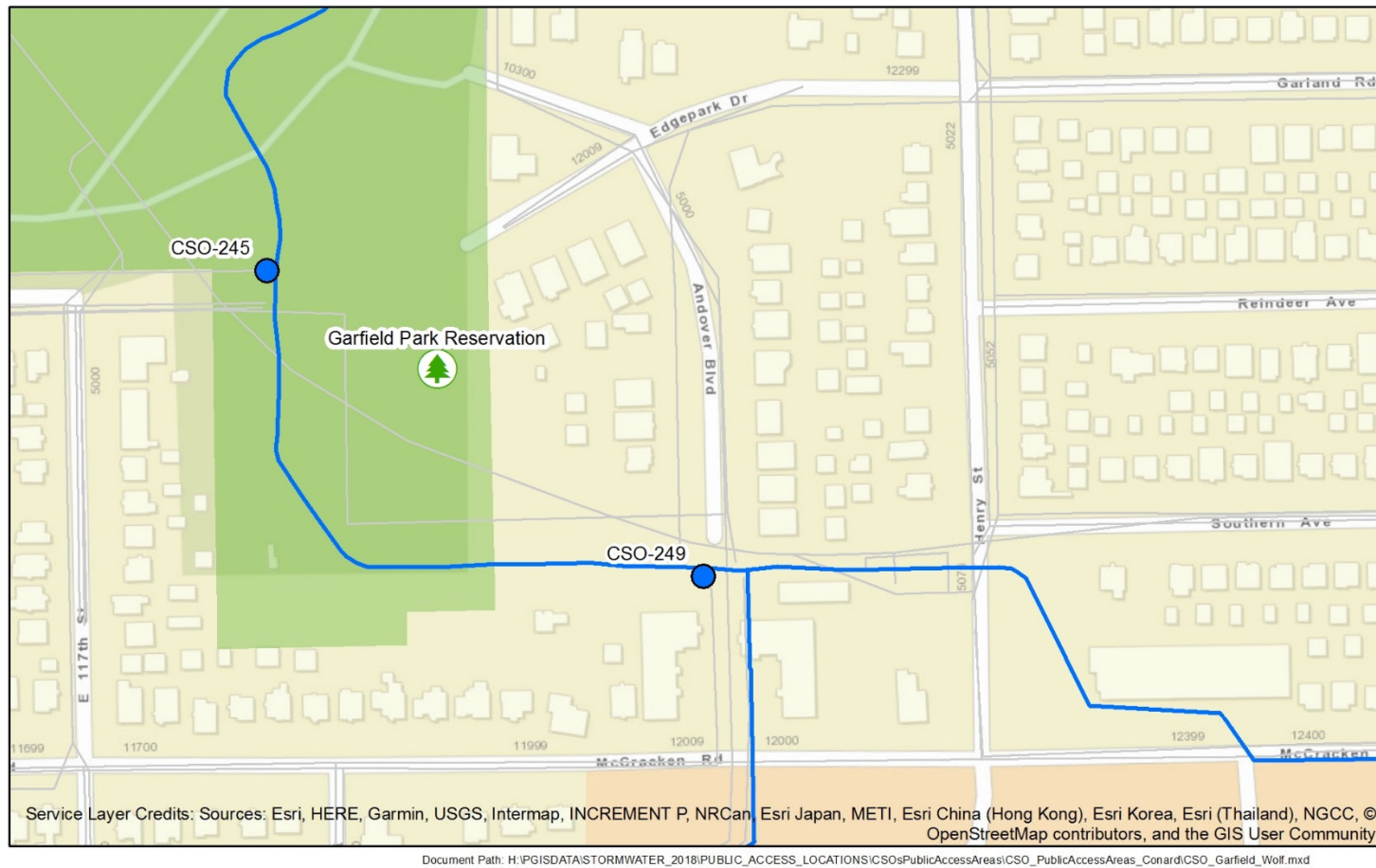
Cleveland Metroparks Garfield Park Reservation (Mill Creek), Garfield Heights, Ohio



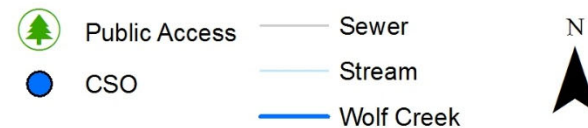
District CSOs and Public Access Areas



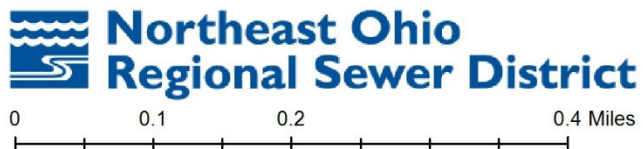
Cleveland Metroparks Garfield Park Reservation (Wolf Creek), Garfield Heights, Ohio



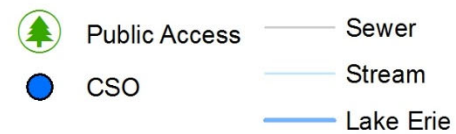
District CSOs and Public Access Areas



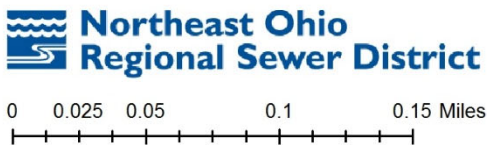
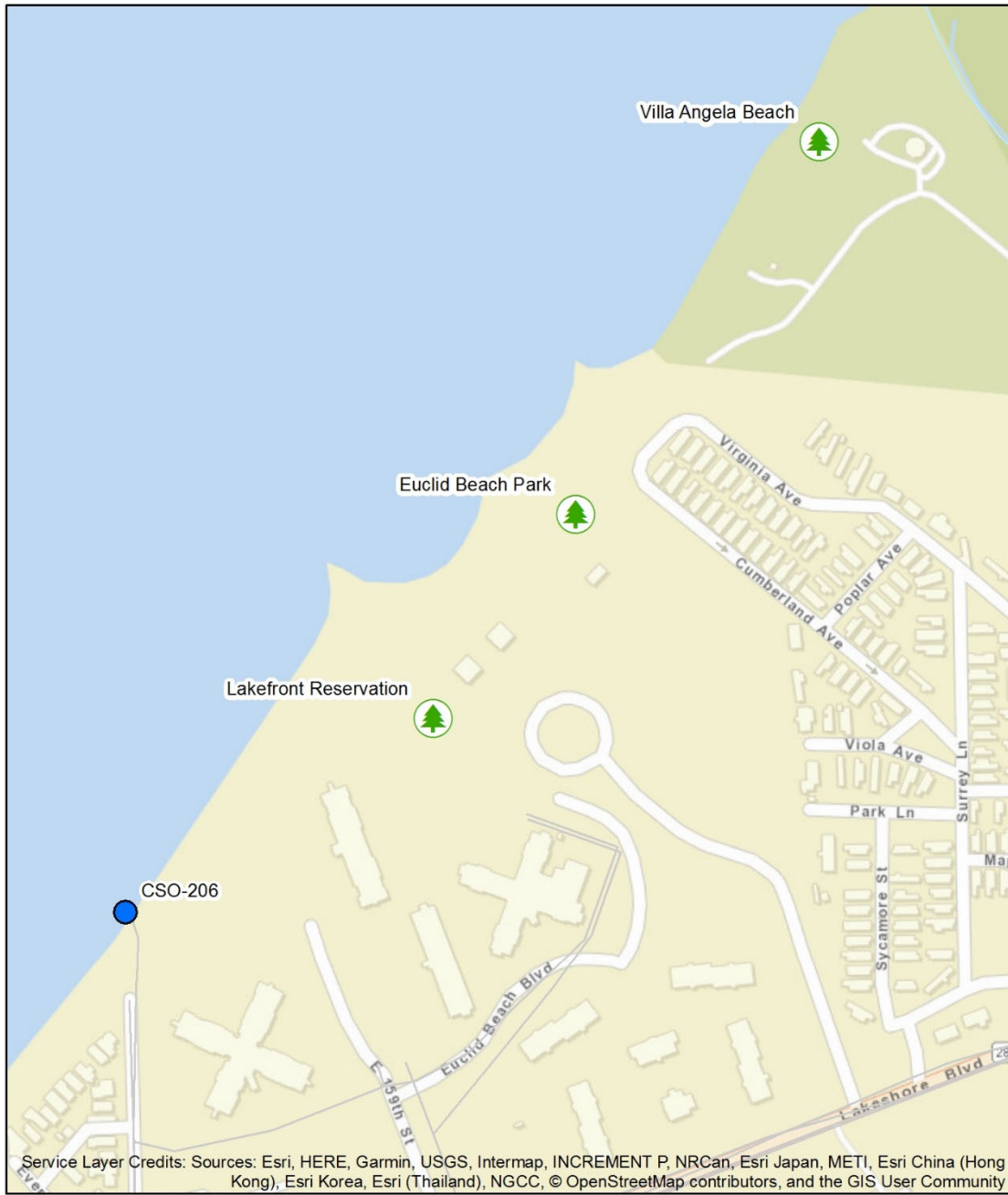
Cleveland Metroparks Gordon Park, E. 72nd Fishing Area & Cleveland Lakefront Nature Preserve, Cleveland, Ohio



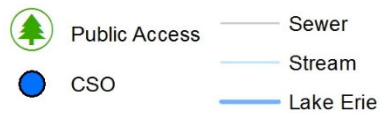
District CSOs and Public Access Areas



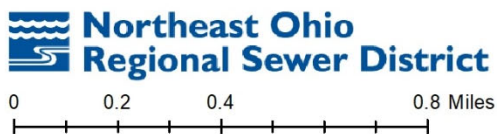
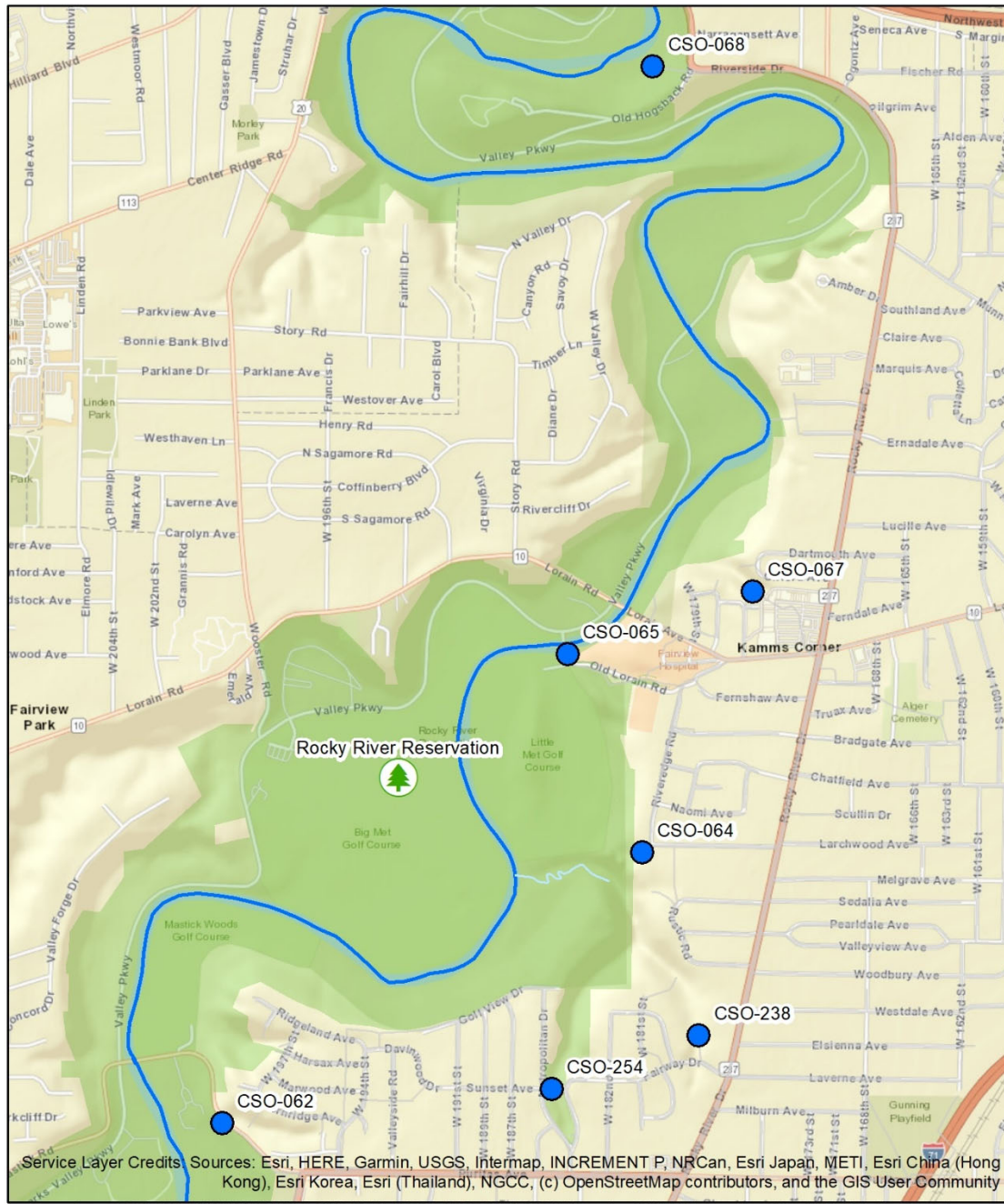
Cleveland Metroparks Lakefront Reservation, Euclid Beach Park & Villa Angela Beach, Cleveland, Ohio



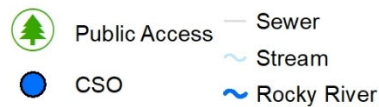
District CSOs and Public Access Areas



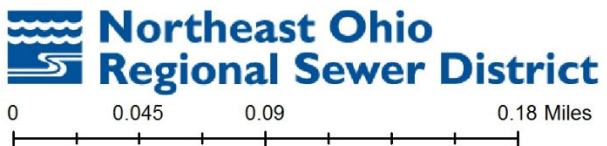
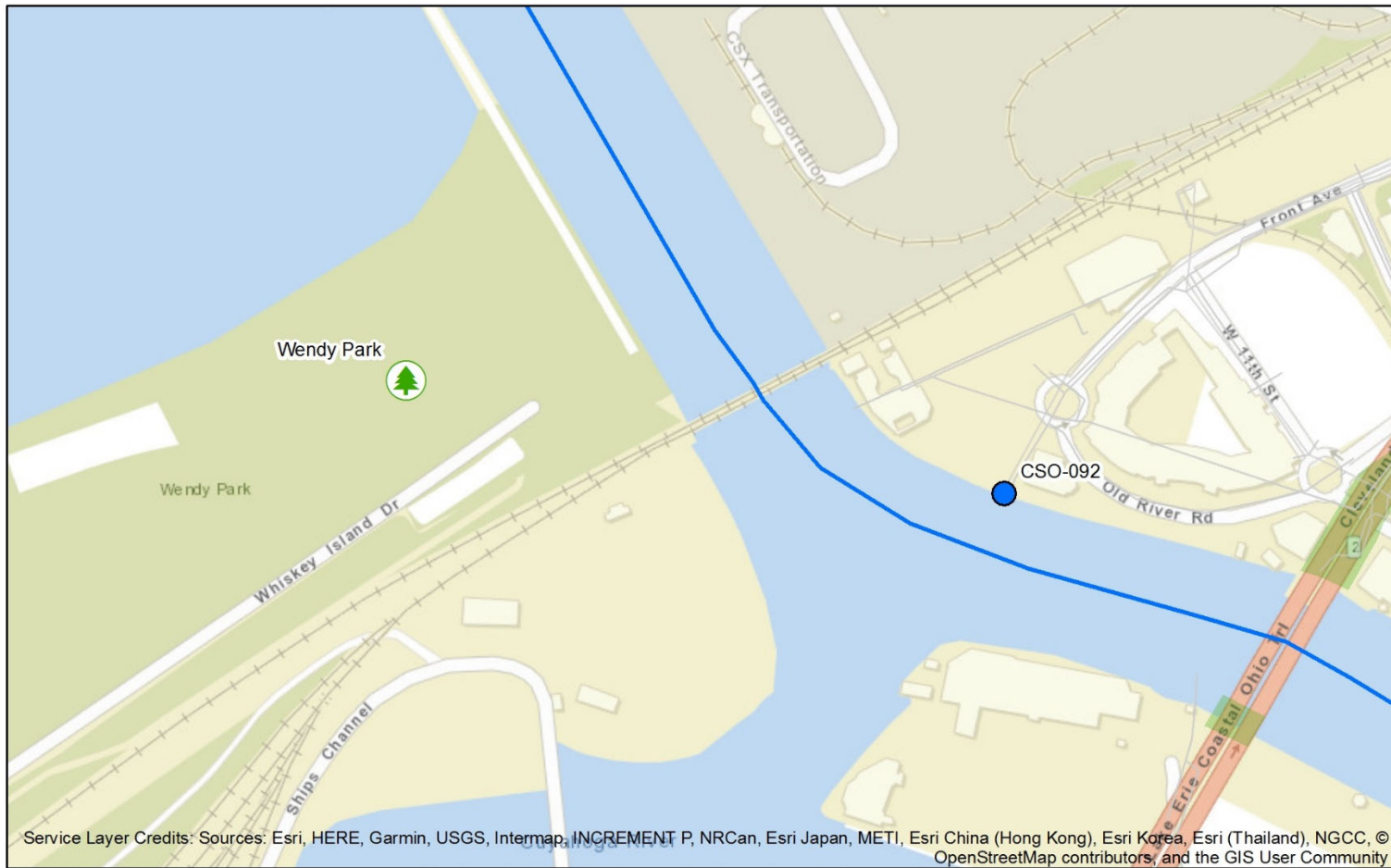
Cleveland Metroparks Rocky River Reservation, Cleveland & Lakewood, Ohio



District CSOs and Public Access Areas



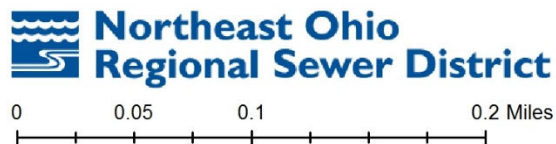
Cleveland Metroparks Wendy Park, Cleveland, Ohio



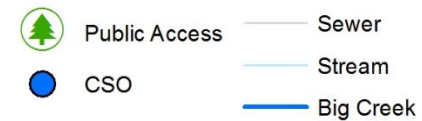
District CSOs and Public Access Areas



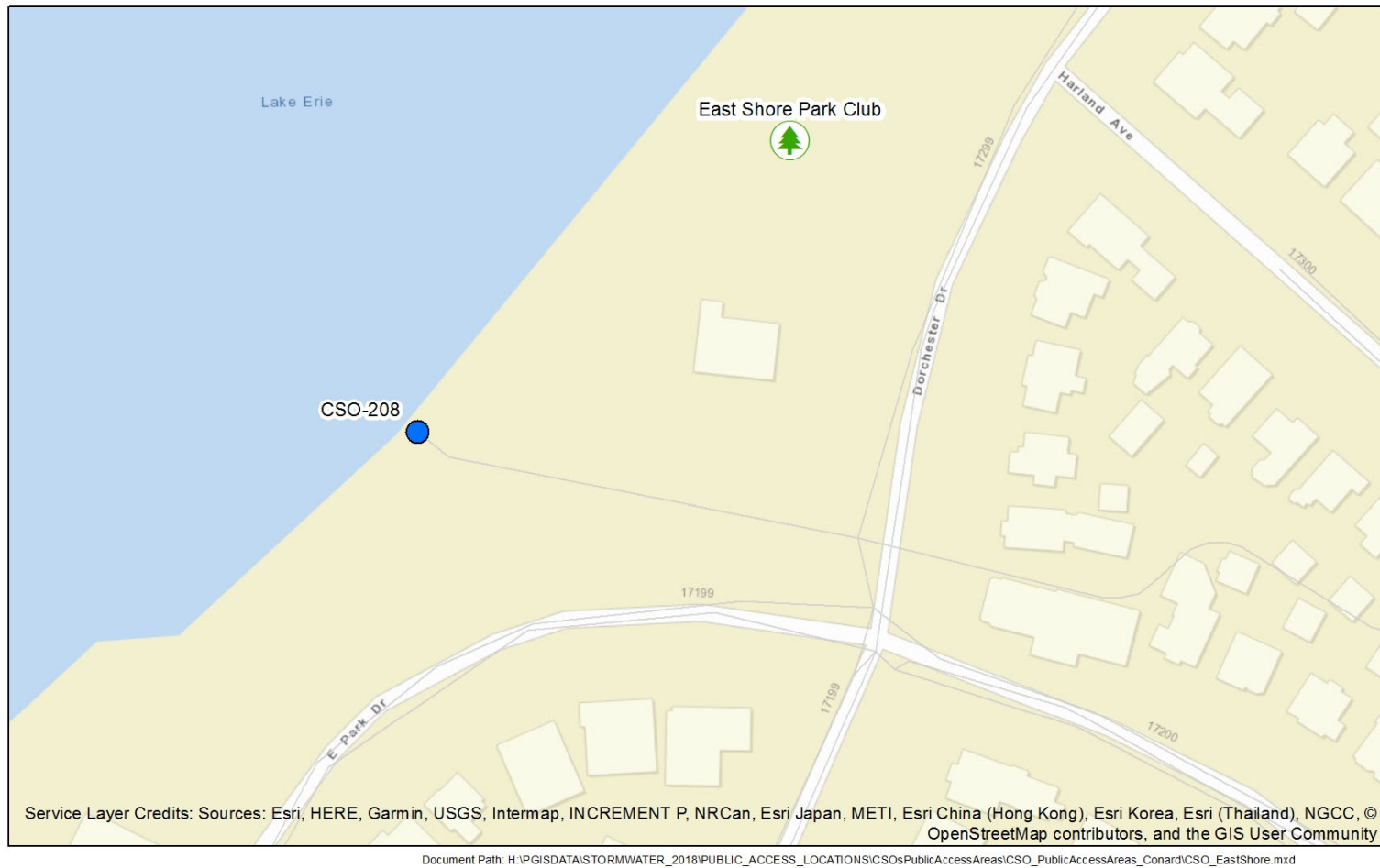
Cleveland Metroparks Zoo, Cleveland, Ohio



District CSOs and Public Access Areas



East Shore Park Club, Cleveland, Ohio



0 0.015 0.03 0.06 Miles

District CSOs and Public Access Areas



Public Access



CSO

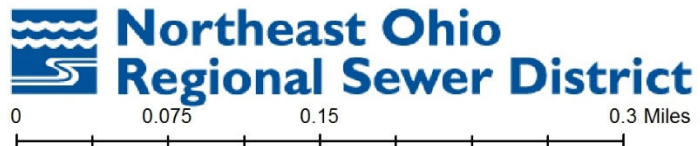
Sewer

Stream

Lake Erie



Forest City Yacht Club & Lakeside Yacht Club, Cleveland, Ohio

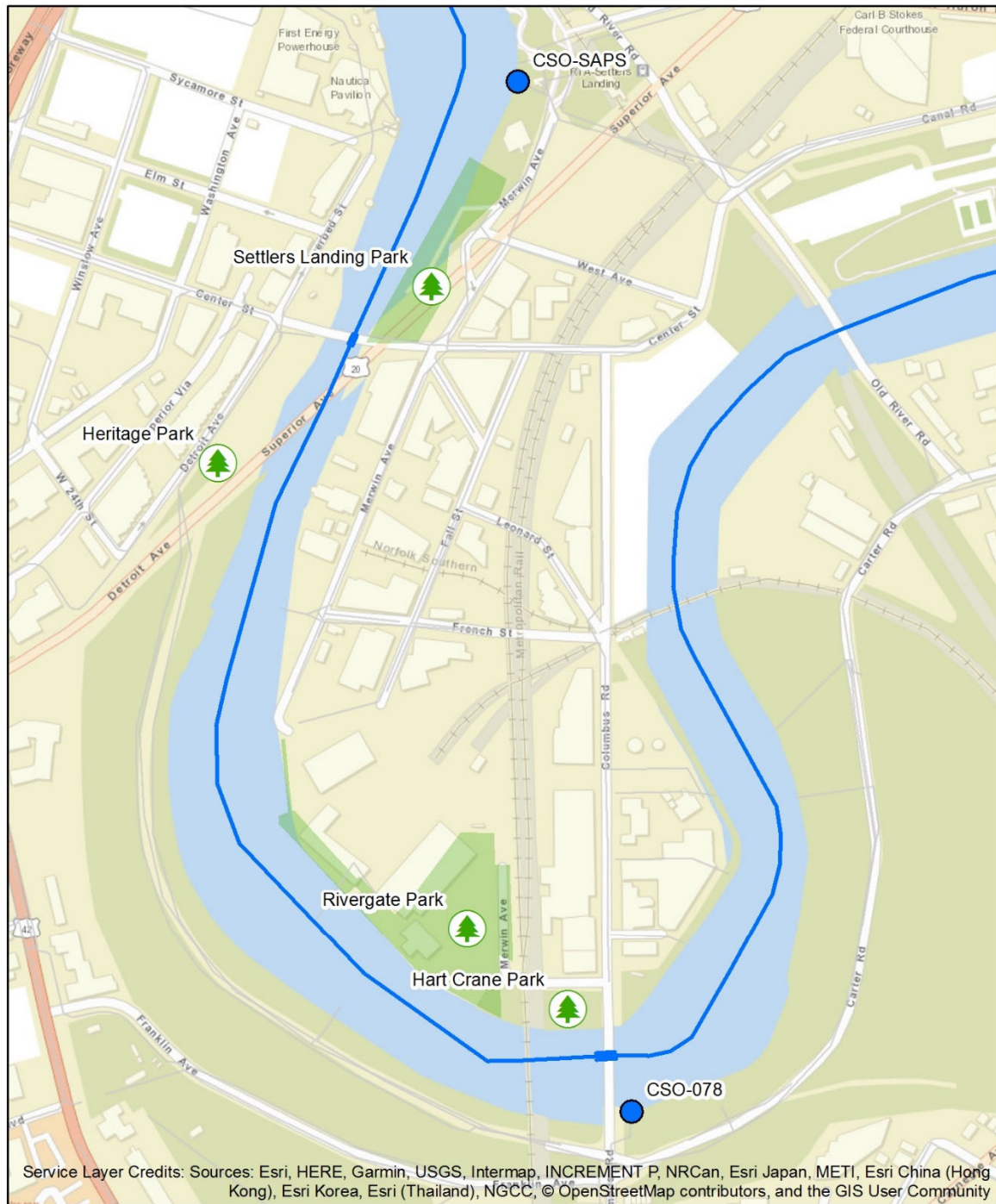


District CSOs and Public Access Areas

- Public Access
- CSO
- Sewer
- Stream
- Lake Erie



Hart Crane Park, Heritage Park, Rivergate Park & Settlers Landing Park, Cleveland, Ohio



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0 0.045 0.09 0.18 Miles

District CSOs and Public Access Areas



Public Access



CSO

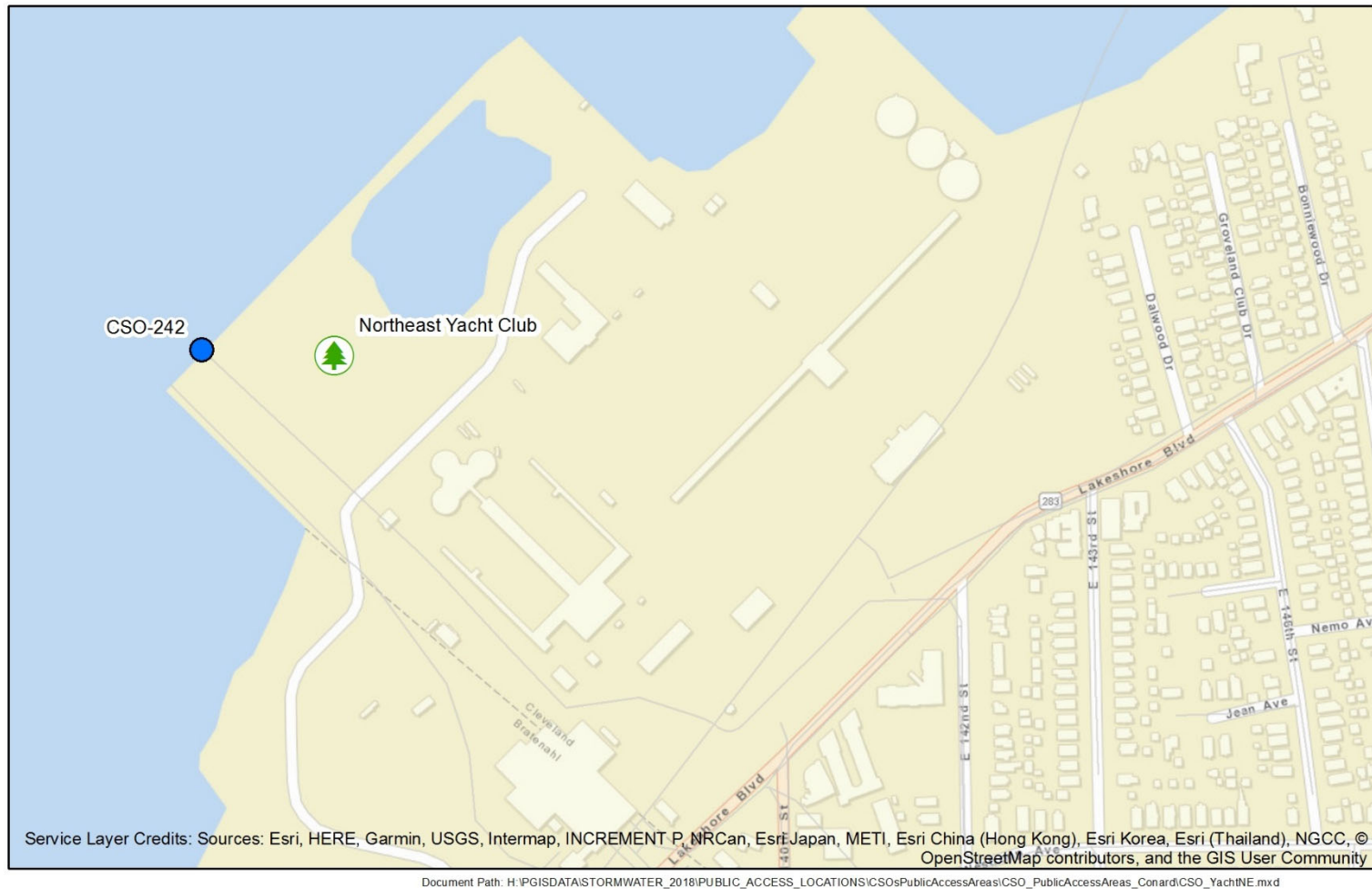
— Sewer

— Stream

— Cuyahoga River








Northeast Yacht Club, Cleveland, Ohio



 **Northeast Ohio
Regional Sewer District**

0 0.05 0.1 0.2 Miles

District CSOs and Public Access Areas

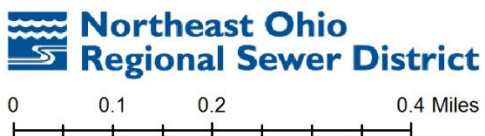
-  Public Access
-  CSO
-  Sewer
-  Stream
-  Lake Erie



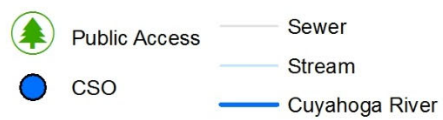
Ohio & Erie Canal Towpath Trail, Cuyahoga Heights & Brooklyn Heights, Ohio



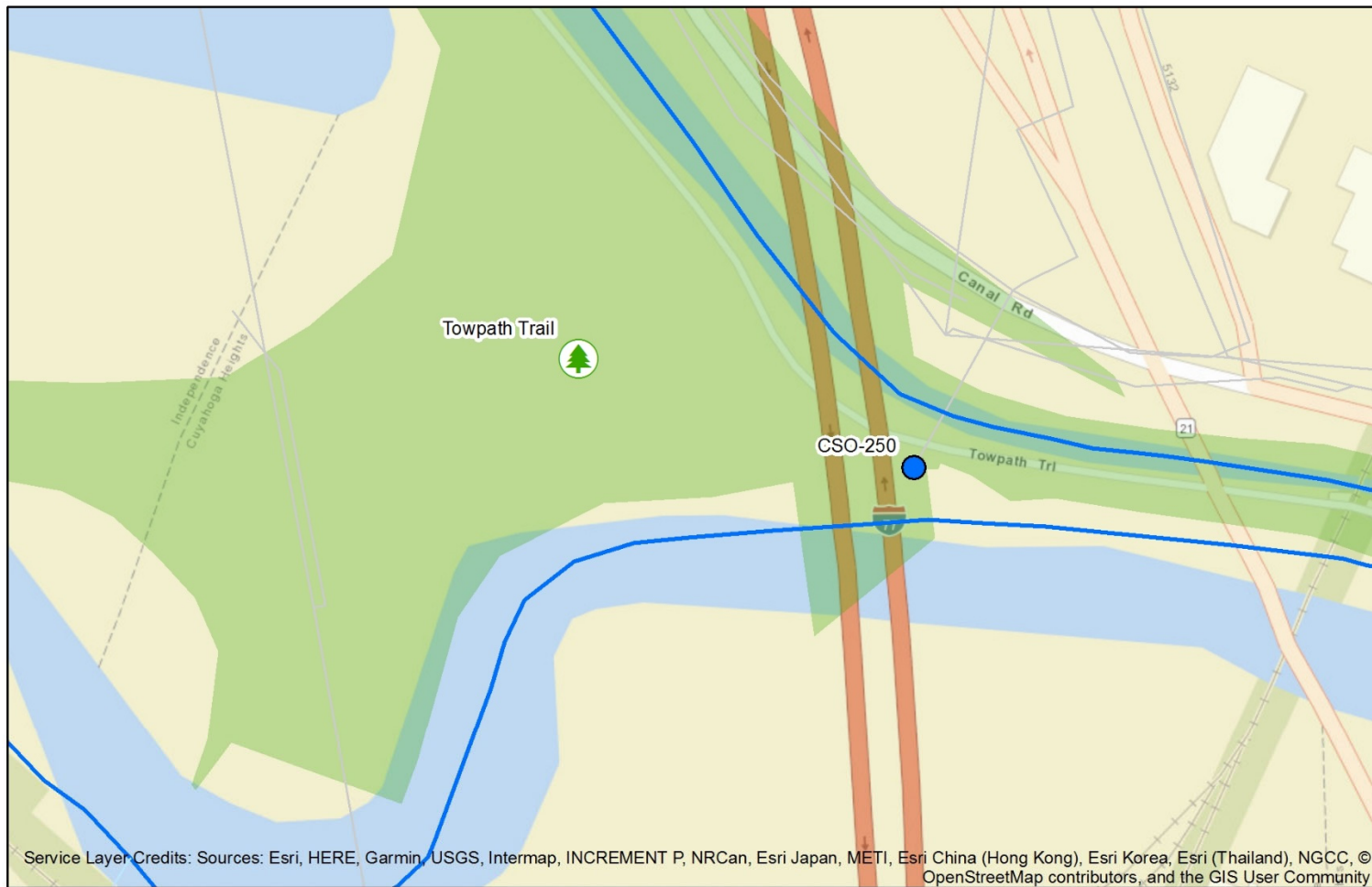
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District CSOs and Public Access Areas



Ohio & Erie Canal Towpath Trail, Cuyahoga Heights, Ohio



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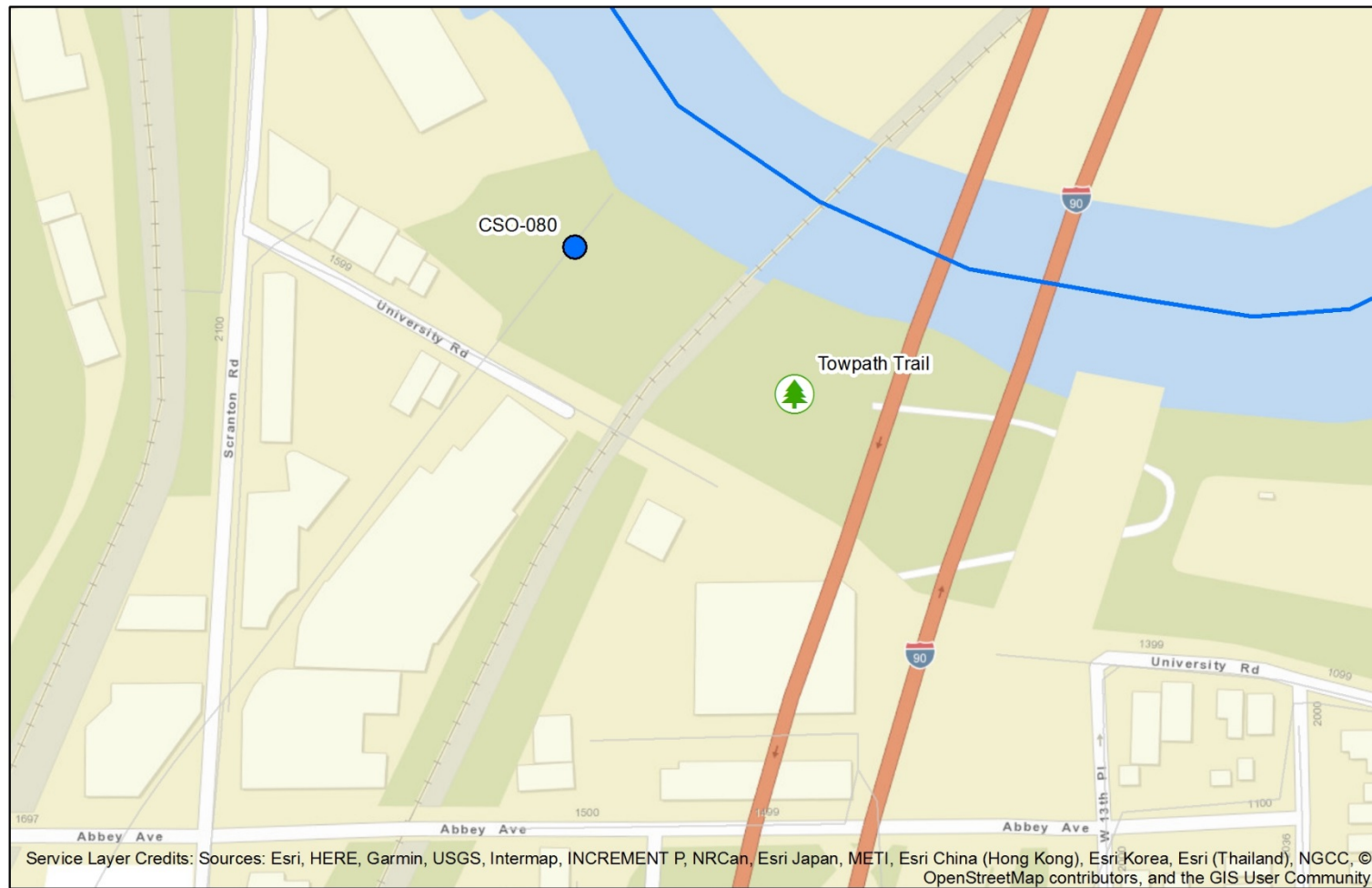


0 0.025 0.05 0.1 Miles

District CSOs and Public Access Areas






Ohio & Erie Canal Towpath Trail, Cleveland, Ohio



 **Northeast Ohio
Regional Sewer District**

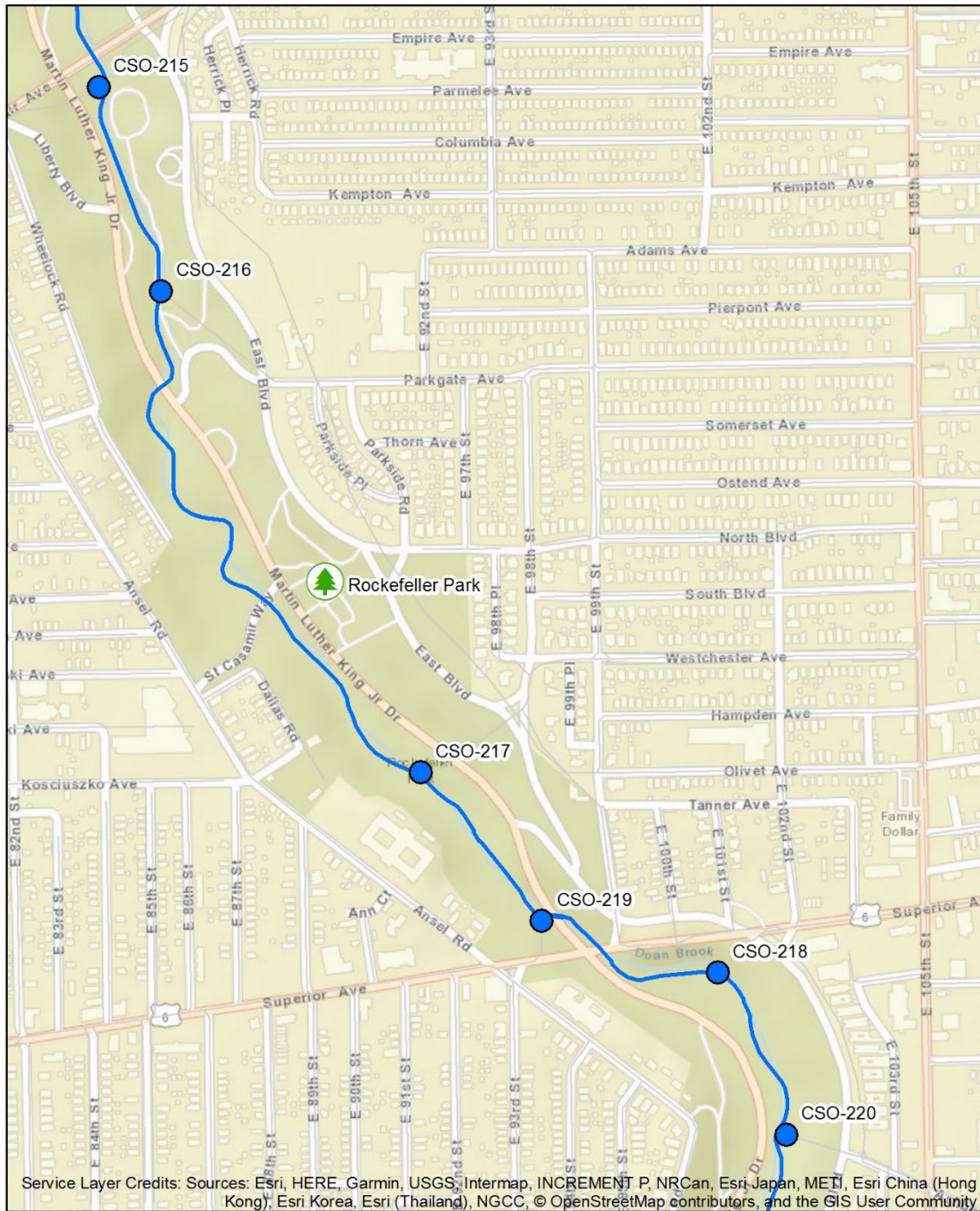
0 0.03 0.06 0.12 Miles

District CSOs and Public Access Areas

-  Public Access
-  CSO
-  Sewer
-  Stream
-  Cuyahoga River








Rockefeller Park, Cleveland, Ohio



**Northeast Ohio
Regional Sewer District**

0 0.075 0.15 0.3 Miles

District CSOs and Public Access Areas

-  Public Access
-  CSO
-  Sewer
-  Stream
-  Doan Brook



Rockefeller Park & Harrison-Dillard Trail, Cleveland, Ohio



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0 0.0225 0.045 0.09 Miles

District CSOs and Public Access Areas



Public Access



CSO

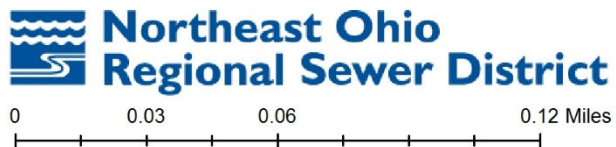
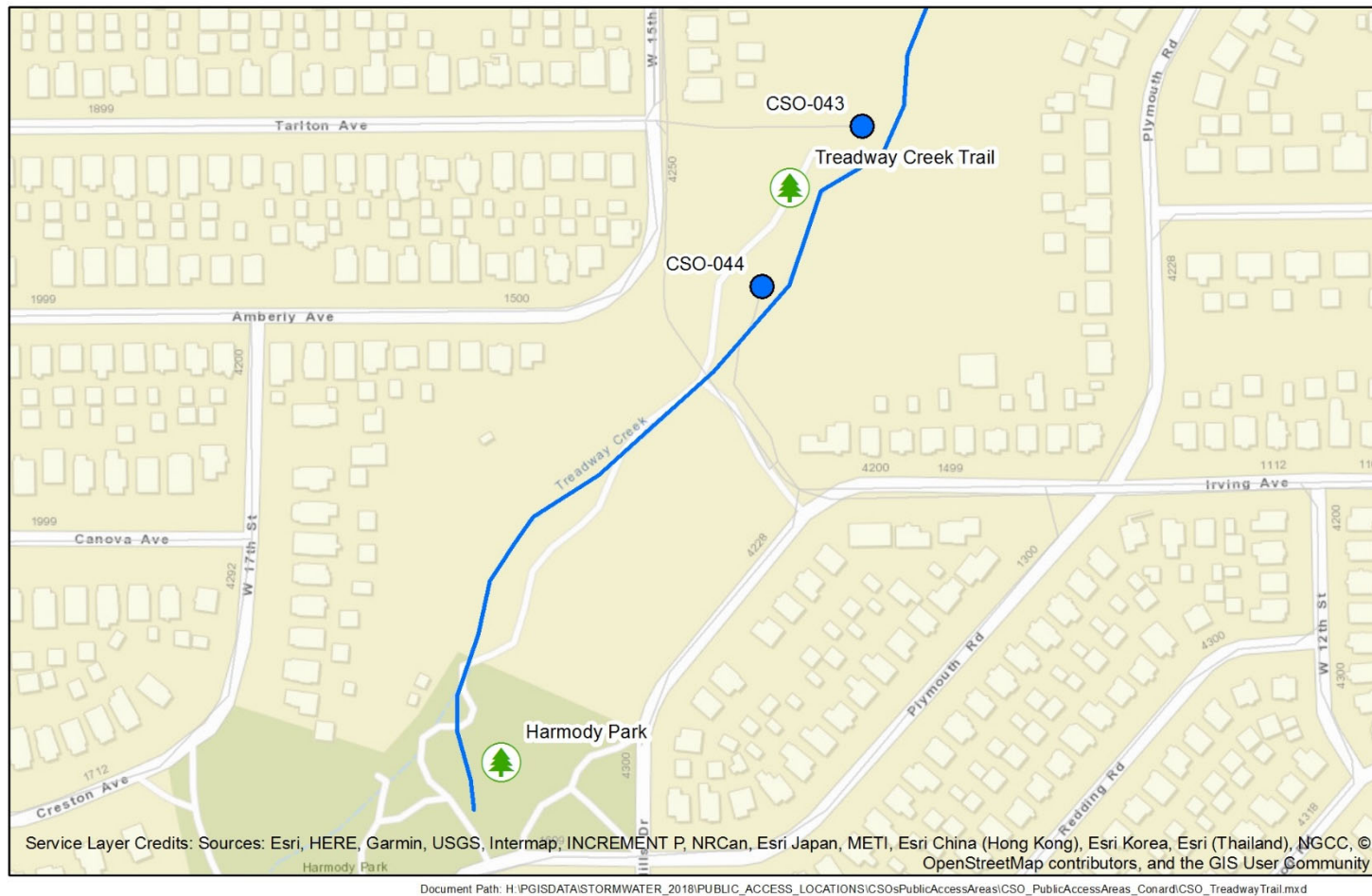
Sewer

Stream

Doan Brook



Treadway Creek Trail & Harmody Park, Cleveland, Ohio



District CSOs and Public Access Areas

