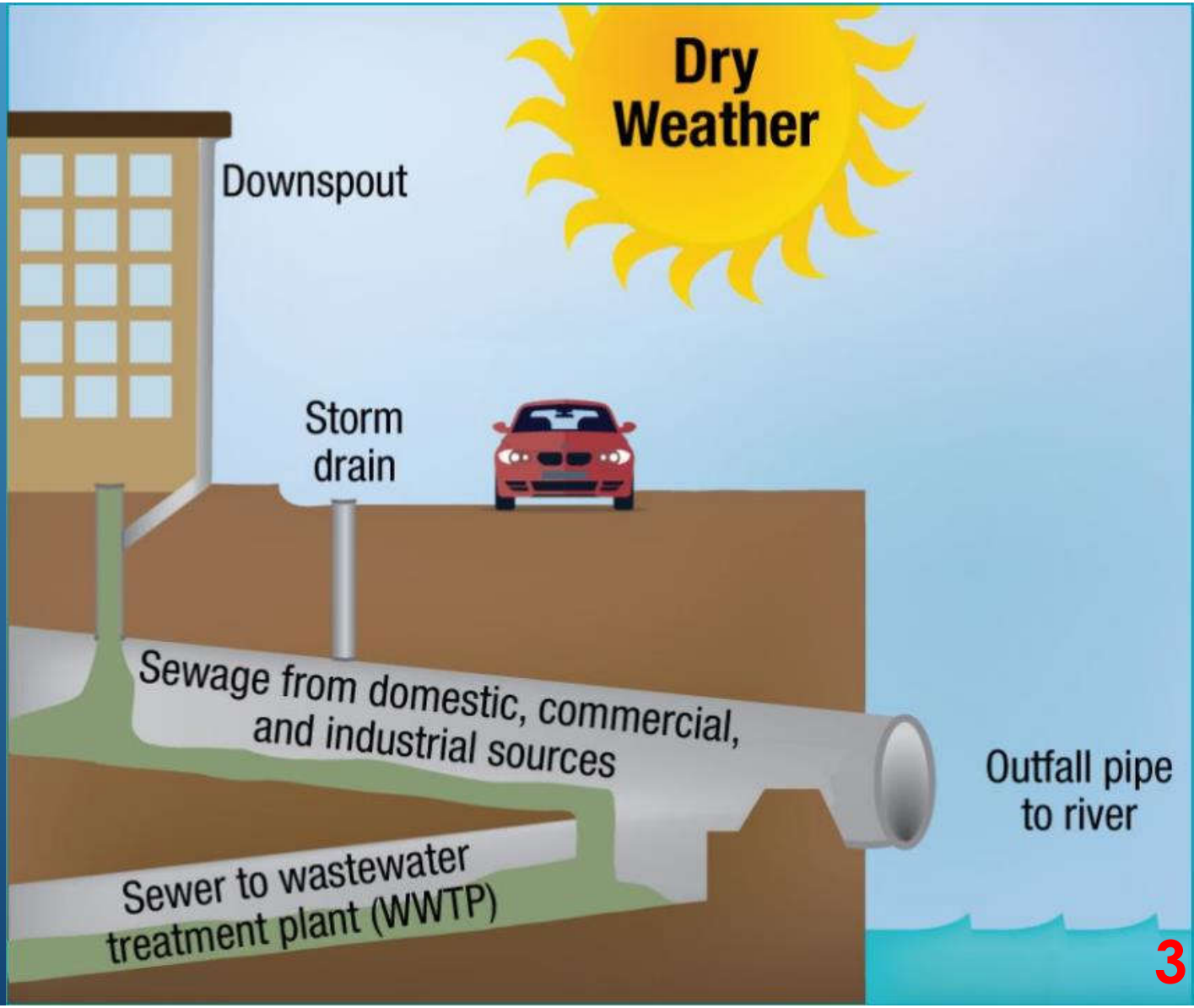
ONONDAGA COUNTY
2020 GREEN IMPROVEMENT FUND (GIF)

2020 Program Opening Overview

J. Ryan McMahon, II
County Executive

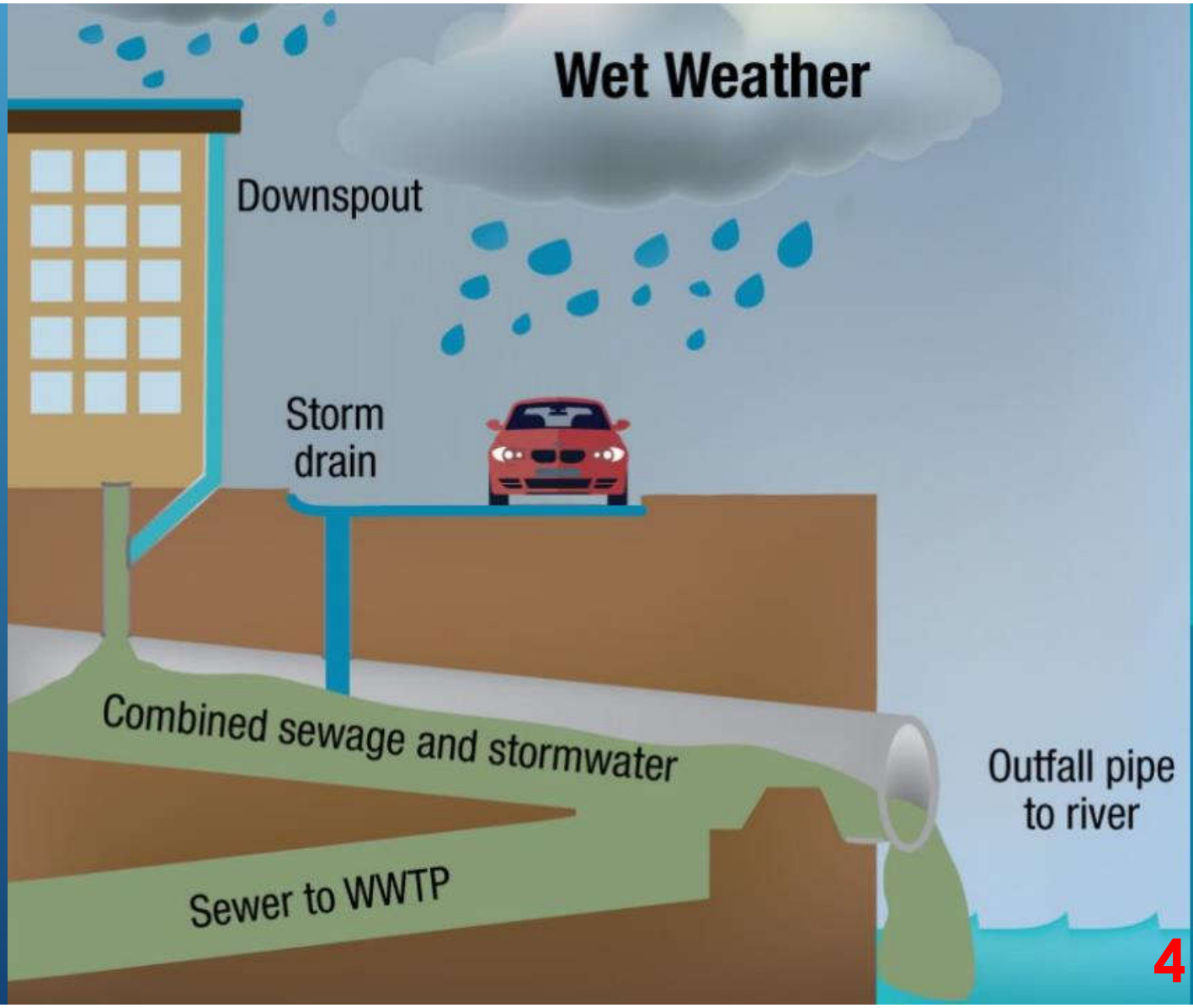
COMBINED SEWER OVERFLOWS

CSOs occur when stormwater enters the combined sewer system causing system overload. During these overloads, the system releases this excess flow into waterbodies.



COMBINED SEWER OVERFLOWS

CSOs occur when stormwater enters the combined sewer system causing system overload. During these overloads, the system releases this excess flow into waterbodies.



WHERE DOES THE COUNTY STAND?

ACJ

- 1988 - 2018
- Federal Consent Order
- DEC, ASLF, County
- Required 95% CSO Capture and meeting water quality standards (WQS) in tributaries

Transition

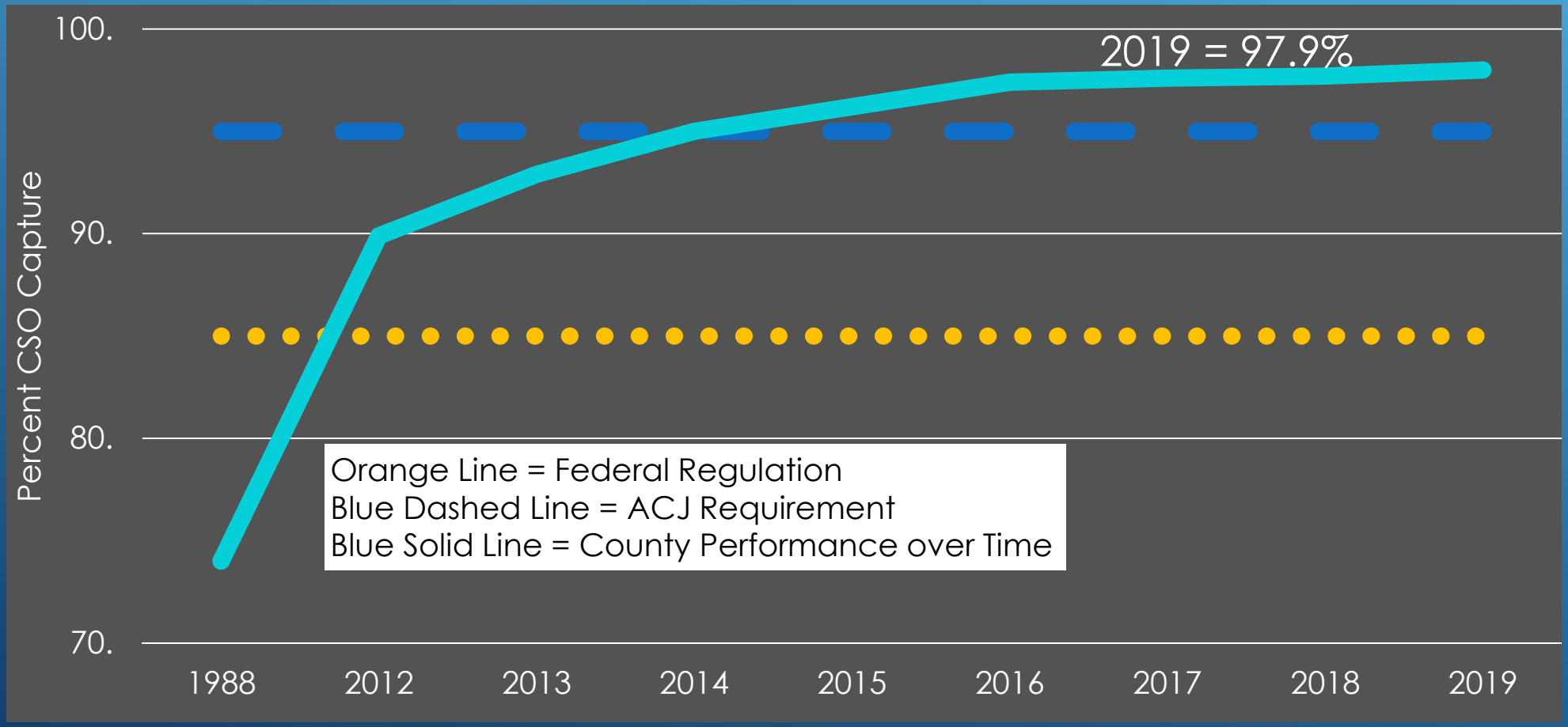
- 2018 - ? (Ongoing)
- Two-party State Consent Order
- DEC and County
- Defined end game for water quality issues in tributaries

LTCP

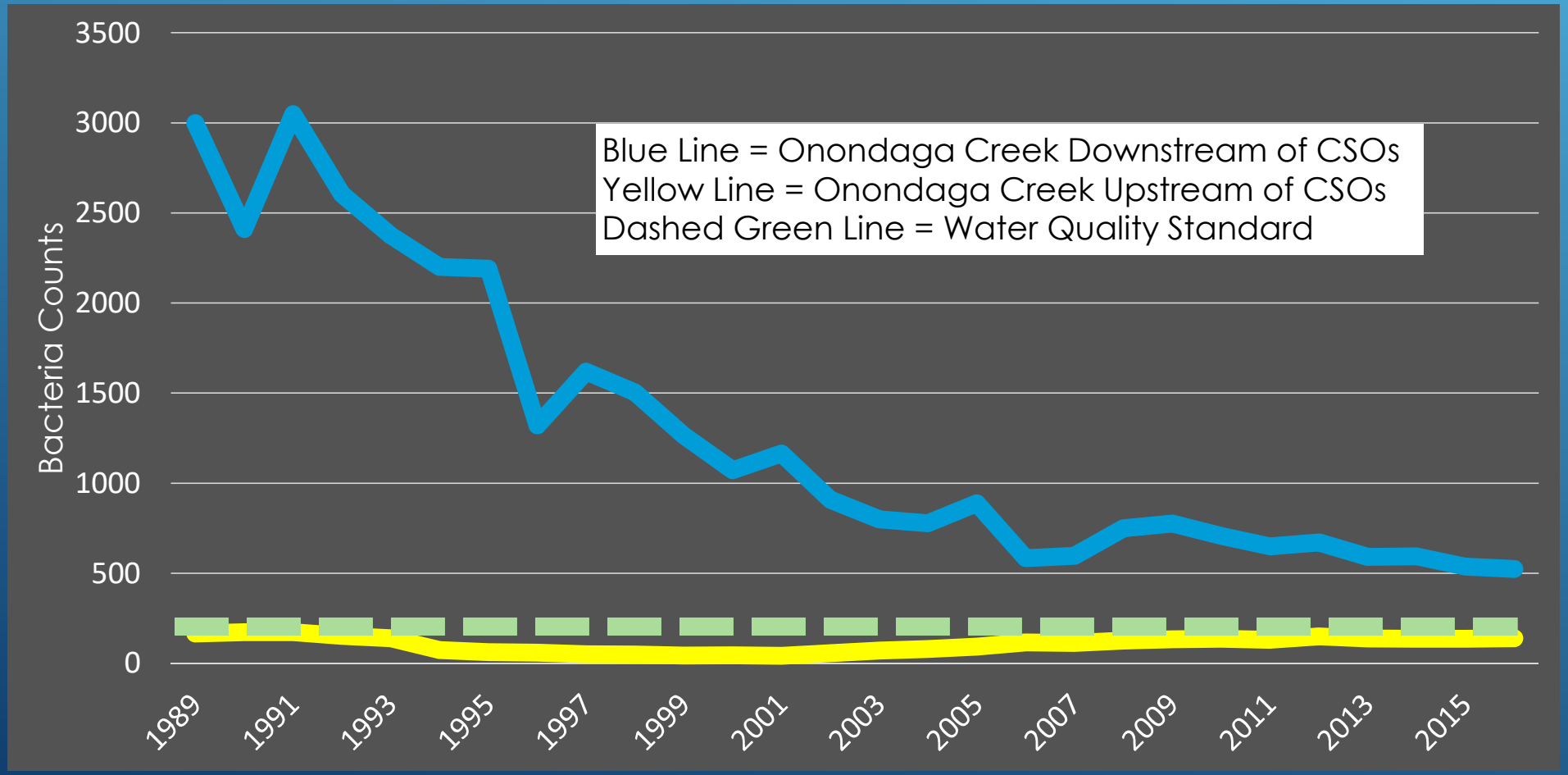
- Opportunistic Approach for projects – partnerships, GIF!
- Focusing efforts in priority areas to shave peak CSO discharges
- LTCP incorporated into Metro SPDES Permit

ONONDAGA LAKE IS CLEAN AND A COMMUNITY ASSET

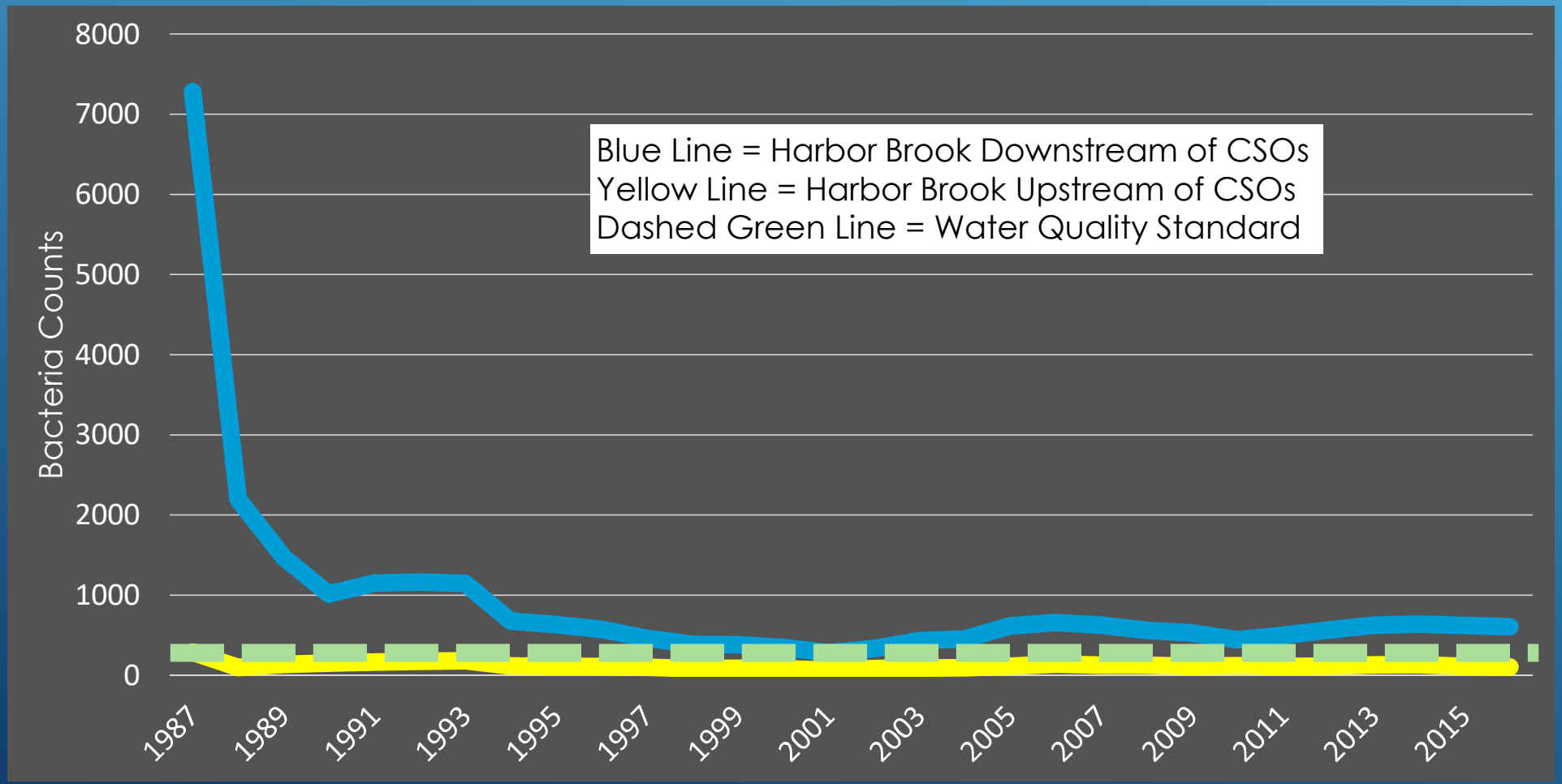
CSO CAPTURE SUCCESS



ONONDAGA CREEK WATER QUALITY TRENDS



HARBOR BROOK WATER QUALITY TRENDS



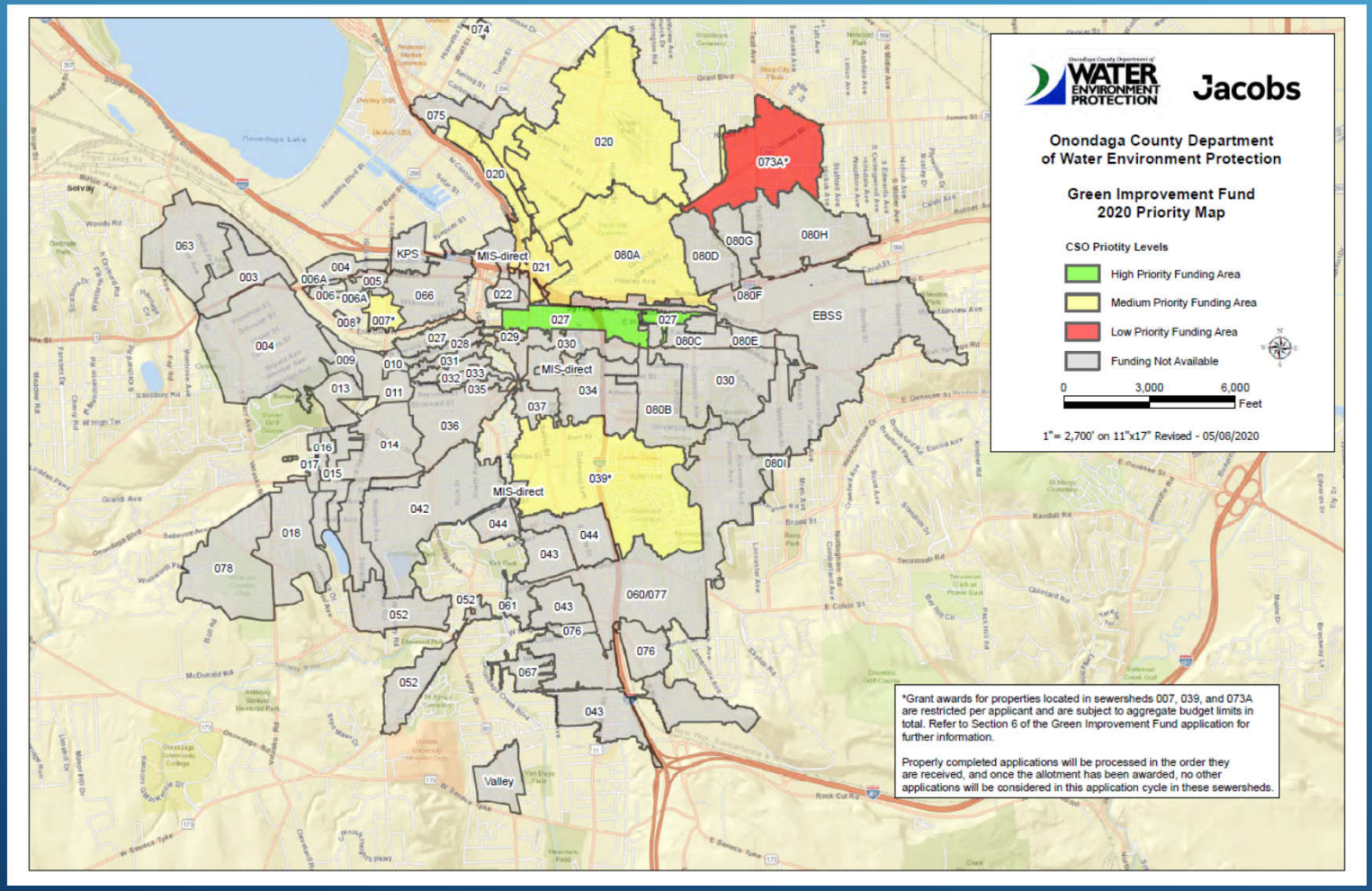
2020 GIF PROGRAM

- Supports the development of green infrastructure (GI) and stormwater mitigation on private property
- Grant funding only available for projects that install fundable types of GI and are located in priority combined sewersheds
- Priority levels determine funding amount:
  - **High Priority Areas = $0.30/gallon runoff reduced**
  - **Medium Priority Areas = $0.20/gallon runoff reduced**
  - **Low Priority Areas = $0.10/gallon runoff reduced**
  - **Funding Not Available Areas = CSOs Abated**

FUNDABLE TYPES OF GREEN INFRASTRUCTURE

- Rain Gardens/Bioretention
- Dry Wells
- Underground Infiltration Systems
- Porous Pavements
- Added Green Space (Impervious Area Reduction)
- Tree Plantings
- Tree Trenches
- Planter Boxes
- Cistern/Detention Systems
- Green Roofs

AREAS OF AVAILABLE FUNDING



CSO 007

MEDIUM PRIORITY, $200,000 MAXIMUM AWARD PER APPLICANT, AND SUBJECT TO AN AGGREGATE BUDGET LIMIT OF $400,000 IN TOTAL

CSO 039

MEDIUM PRIORITY, $200,000 MAXIMUM AWARD PER APPLICANT, AND SUBJECT TO AN AGGREGATE BUDGET LIMIT OF $1,500,000 IN TOTAL

CSO 027

HIGH PRIORITY, NO PROJECT OR AGGREGATE FUNDING LIMITS

CSOS 020, 021, 080A

MEDIUM PRIORITY, NO PROJECT OR AGGREGATE FUNDING LIMITS

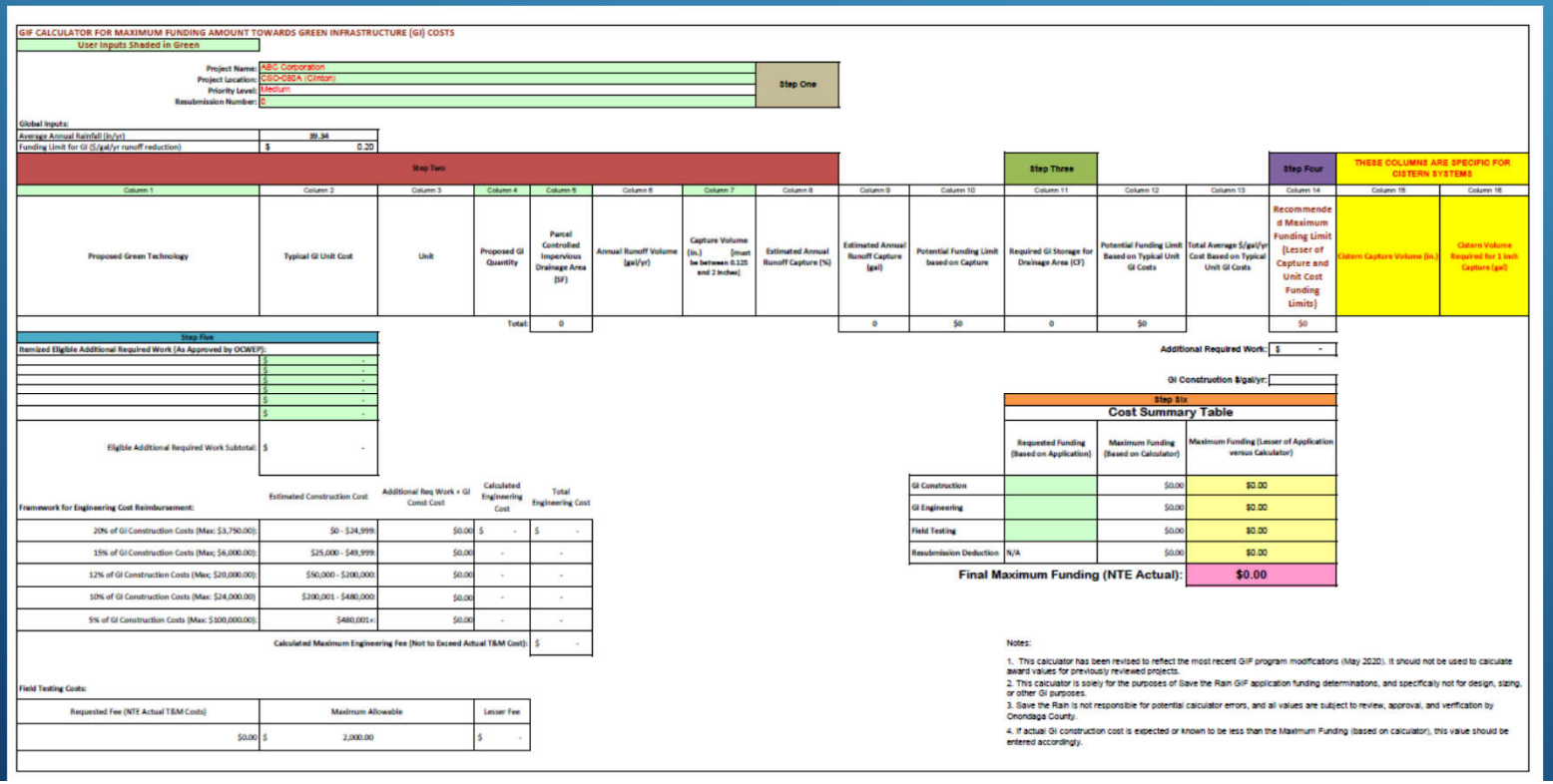
CSO 073A
LOW PRIORITY, SUBJECT TO AN AGGREGATE BUDGET LIMIT OF $250,000 IN TOTAL, NO PROJECT LIMITS

GI DESIGN REQUIREMENTS

- GI Elements must capture 0.5" to 2.0" of runoff from the tributary impervious areas
- 1" Capture is "sweet spot" and comparable to WQv
- Minimum annual capture volume to be eligible = 100,000 gallons
- Permit-ready project submissions reviewed by the City of Syracuse and other entities (as appropriate) are preferred
- Project resubmissions due to design changes are subject to fee ($250 for first resubmission, and $100 for each thereafter)

GIF CALCULATOR

- Excel based calculator for funding determination
- Instructions for use included on first tab



GIF CALCULATOR FOR MAXIMUM FUNDING AMOUNT TOWARDS GREEN INFRASTRUCTURE (GI) COSTS

User Inputs Shaded in Green

Project Name: ABC Corporation
Project Location: CSO-088A (Clinton)
Priority Level: Medium
Resubmission Number: 0

Step One

Global Inputs:

Average Annual Rainfall (in/yr)	39.34
Funding Limit for GI ($/gal/yr runoff reduction)	$ 0.20

Step Two										Step Three			Step Four	THESE COLUMNS ARE SPECIFIC FOR CISTERN SYSTEMS	
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13	Column 14	Column 15	Column 16
Proposed Green Technology	Typical GI Unit Cost	Unit	Proposed GI Quantity	Parcel Controlled Impervious Drainage Area (SF)	Annual Runoff Volume (gal/yr)	Capture Volume (in.) [must be between 0.125 and 2 inches]	Estimated Annual Runoff Capture (%)	Estimated Annual Runoff Capture (gal)	Potential Funding Limit based on Capture	Required GI Storage for Drainage Area (CF)	Potential Funding Limit Based on Typical Unit GI Costs	Total Average $/gal/yr Cost Based on Typical Unit GI Costs	Recommended Maximum Funding Limit (Lesser of Capture and Unit Cost Funding Limits)	Cistern Capture Volume (in.)	Cistern Volume Required for 1 inch Capture (gal)
			Total:	0				0	$0	0	$0		$0		

Step Five

Itemized Eligible Additional Required Work (As Approved by OCWEP):	
	$ -
	$ -
	$ -
	$ -
	$ -
Eligible Additional Required Work Subtotal:	$ -

Additional Required Work: $ -

GI Construction $/gal/yr:

Step Six

Cost Summary Table

	Requested Funding (Based on Application)	Maximum Funding (Based on Calculator)	Maximum Funding (Lesser of Application versus Calculator)
GI Construction		$0.00	$0.00
GI Engineering		$0.00	$0.00
Field Testing		$0.00	$0.00
Resubmission Deduction	N/A	$0.00	$0.00
Final Maximum Funding (NTE Actual):			**$0.00**

Framework for Engineering Cost Reimbursement:

	Estimated Construction Cost	Additional Req Work + GI Const Cost	Calculated Engineering Cost	Total Engineering Cost
20% of GI Construction Costs (Max: $3,750.00):	$0 - $24,999:	$0.00	$ -	$ -
15% of GI Construction Costs (Max; $6,000.00):	$25,000 - $49,999:	$0.00	-	-
12% of GI Construction Costs (Max; $20,000.00):	$50,000 - $200,000:	$0.00	-	-
10% of GI Construction Costs (Max: $24,000.00)	$200,001 - $480,000:	$0.00	-	-
5% of GI Construction Costs (Max: $100,000.00):	$480,001+:	$0.00	-	-
	Calculated Maximum Engineering Fee (Not to Exceed Actual T&M Cost):			$ -

Field Testing Costs:

Requested Fee (NTE Actual T&M Costs)	Maximum Allowable	Lesser Fee
$0.00	$ 2,000.00	$ -

Notes:

1. This calculator has been revised to reflect the most recent GIF program modifications (May 2020). It should not be used to calculate award values for previously reviewed projects.
2. This calculator is solely for the purposes of Slave the Rain GIF application funding determinations, and specifically not for design, sizing, or other GI purposes.
3. Slave the Rain is not responsible for potential calculator errors, and all values are subject to review, approval, and verification by Onondaga County.
4. If actual GI construction cost is expected or known to be less than the Maximum Funding (based on calculator), this value should be entered accordingly.

GRANT REIMBURSEMENT

- Funds are reimbursed after completion of the project and submission of reimbursement package substantiating costs
- Reimbursement eligible items:
  - Construction
  - Engineering (sliding scale based on project cost – see GIF calculator)
  - Field Testing ($2,000 maximum, i.e. infiltration testing)
- Payment to applicant typically occurs in 1-2 months after submission of complete reimbursement package

GI MAINTENANCE

- GIF Contract includes maintenance clause
- City of Syracuse requires maintenance in perpetuity
- Onondaga County will inspect installed GI on a routine basis (at least once a year), if neglect is found to point where GI is not functioning as designed, the County will notify the applicant of the deficiencies and discuss options for remedy

HOW TO SUBMIT?

- Refer to the GIF application at: https://savetherain.us/green-improvement-fund-gif/
- Submit complete application prepared by licensed design professional (make sure pages are initialed and signature pages are signed) to OCDWEP (paper and electronic):

Jed Walsh, Project Coordinator
OCDWEP
650 Hiawatha Blvd. West
Syracuse, NY 13204
jedwalsh@ongov.net

Zachary Monge
Jacobs
499 South Warren Street
Syracuse, NY 13202
Zachary.monge@jacobs.com

ONONDAGA COUNTY
DEPARTMENT OF WATER ENVIRONMENT PROTECTION

Adam Woodburn R.L.A. - adamwoodburn@ongov.net (315-435-5402)
Jed Walsh - jedwalsh@ongov.net (315-435-5402)
Zachary Monge P.E. - zachary.monge@Jacobs.com (315-401-7109)