

Algonquin Parkway CSO Basin

IOAP Public Input Meeting
May 10th, 2012



Overview

- Communicate
 - The Original Plan
 - The Proposed Changes
 - The Path Forward
- Provide Input Opportunity During Planning



The Original Plan

Algonquin Parkway CSO Basin



2009 IOAP Recommendations

- General
 - Component of the overall plan to reduce Combined Sewer Overflows (CSO's)
 - CSO's were grouped, when possible, to minimize the overall number of required improvements and maximize cost efficiency



2009 IOAP Recommendations

- Algonquin Parkway CSO Basin
 - Size
 - 4.84 MG Basin
 - 11.4 MG Inline Storage in Southern Outfall (SO)
 - Conveyance from CSO's 16, 210, and 211
 - Location
 - Industrial property north of Gibson Lane near Algonquin Parkway
 - Completion Date
 - December 31, 2018



**Integrated Overflow Abatement Plan
Volume 2 - Final CSO Long-Term Control Plan**

Ohio River
Solution ID # **L_OR_MF_211_M_13_B_A_8**
Algonquin Parkway Storage Basin

Preliminary - For Budget Development Only

Legend

- Active CSO
- Eliminated CSO
- ▲ Proposed Flow Control Solution
- Proposed Pump Station Solution
- Pump Station
- Proposed Pipe Solution
- Force Main
- Combined Sewer Pipe
- Flood Wall
- Proposed Storage Solution
- Floodway
- Metro Parks
- Streams

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 400 feet
Scaleable when printed on 11"x17" paper



Some boundaries are uniquely symbolized within the map.

Map Revision
Mar 13, 2009
Aerial Date: 2006



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2009 IOAP Recommendations

CSO	CSO Area (ac.)	2009 AAOV (MG/yr)	# Overflows per year	Post LTCP AAOV (MG/yr)	Post LTCP # Overflows per year
16	0.00	29.65	29	1.92	8
210	166.67	195.57	51	42.99	8
211	3,554.89	373.17	29	7.98	8

AAOV: Average Annual Overflow Volume



The Proposed Changes

~~Algonquin Parkway CSO Basin~~

SOR 1 and SOR 2 Projects



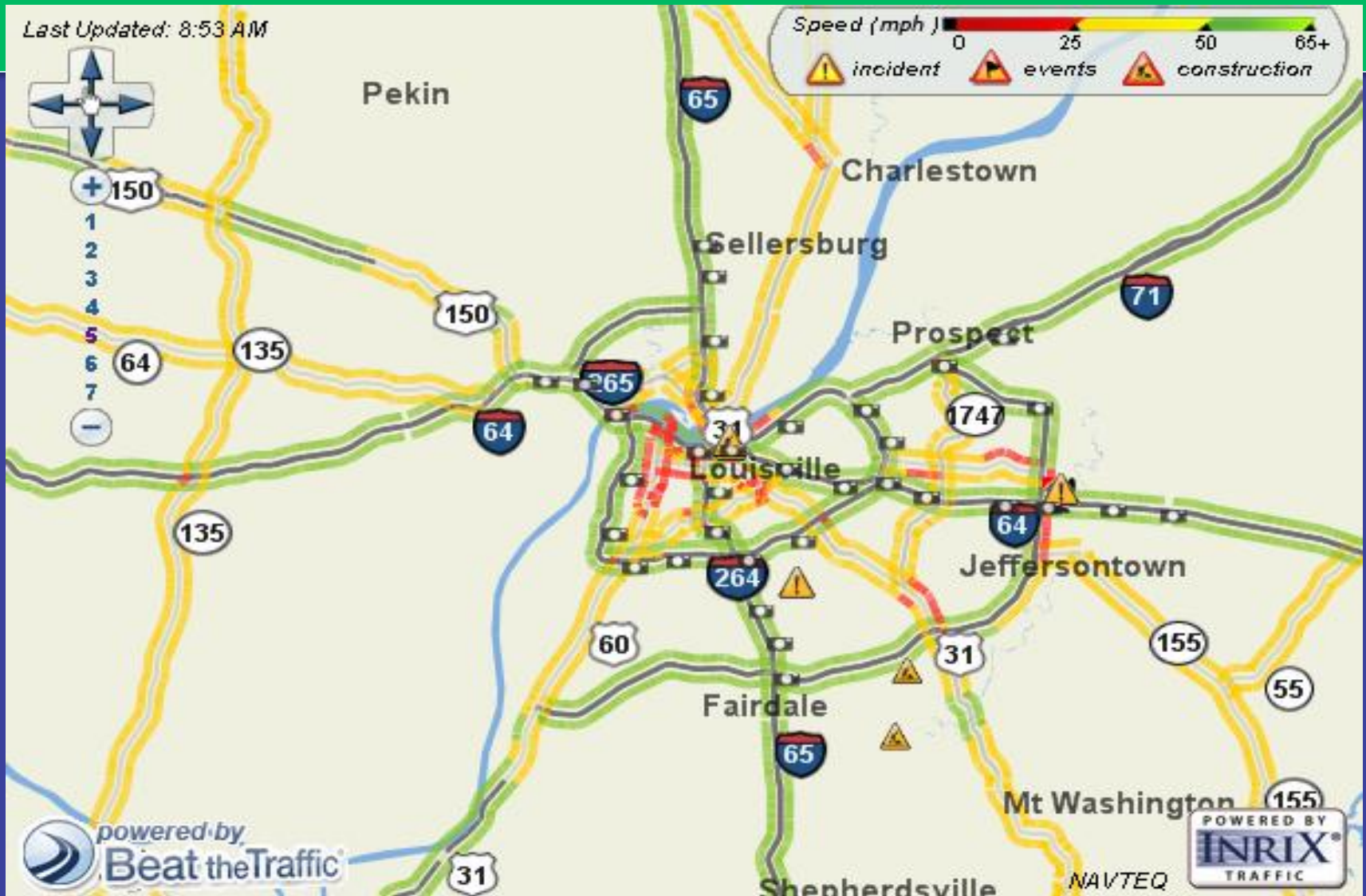
Revised Operating Procedures

Solution	LOC(# Overflows per year)	Size (MG)	Estimated Cost
<u>2009 IOAP</u> Basin and Inline Storage	8	20.8	\$17,300,000
<u>Revised</u> Revised Operating Procedures and Inline Storage	0	16.1	\$10,750,000

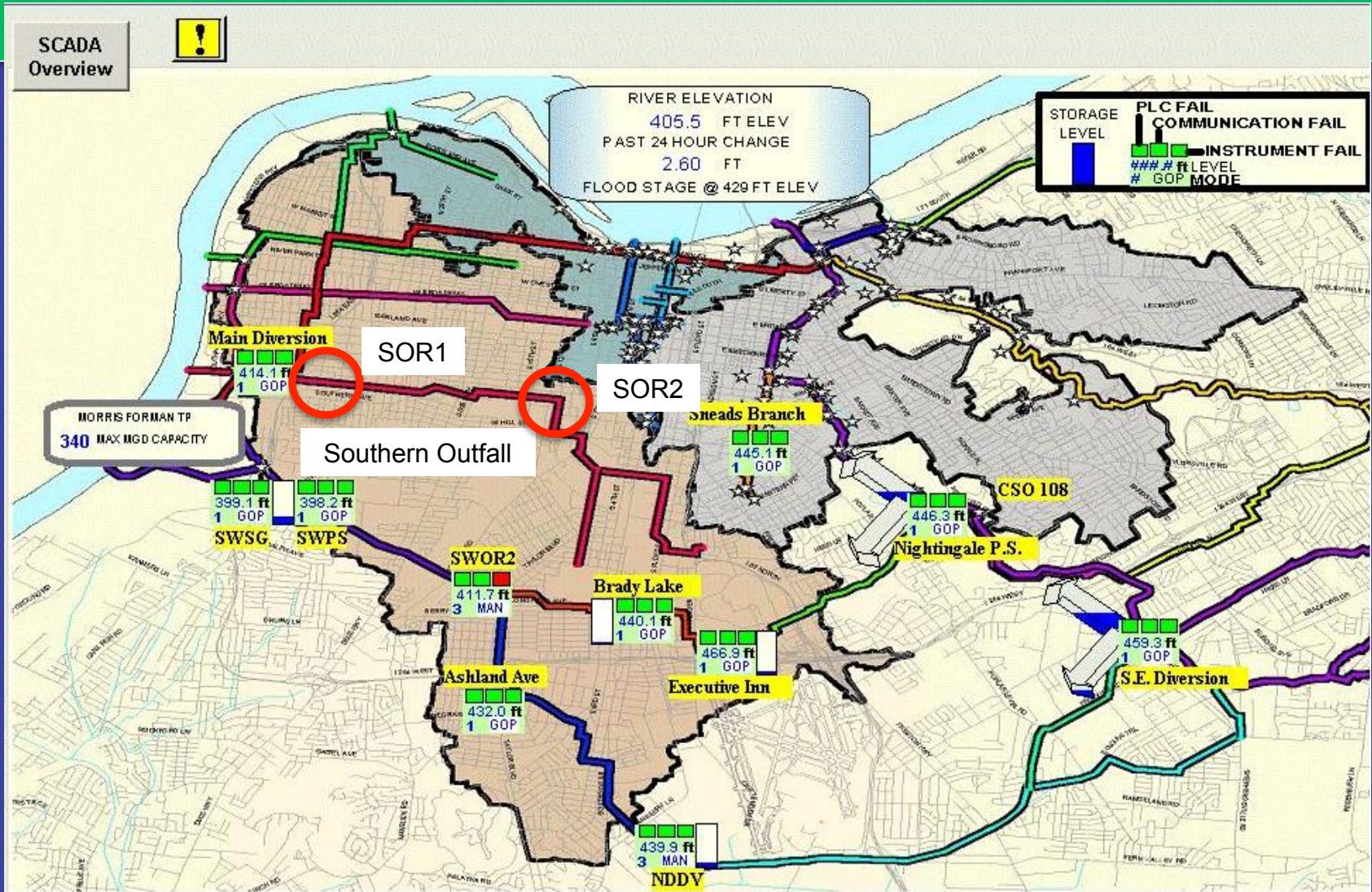
Inline vs. Offline Storage Advantages

- More Cost Effective Solution
- Reduced Odor Potentials
- Self Cleaning/Less maintenance
- No Restriction of Peak Flows
- No Basin Construction / Lessens Community Impact

Traffic Control



Real Time Control



Inline Storage

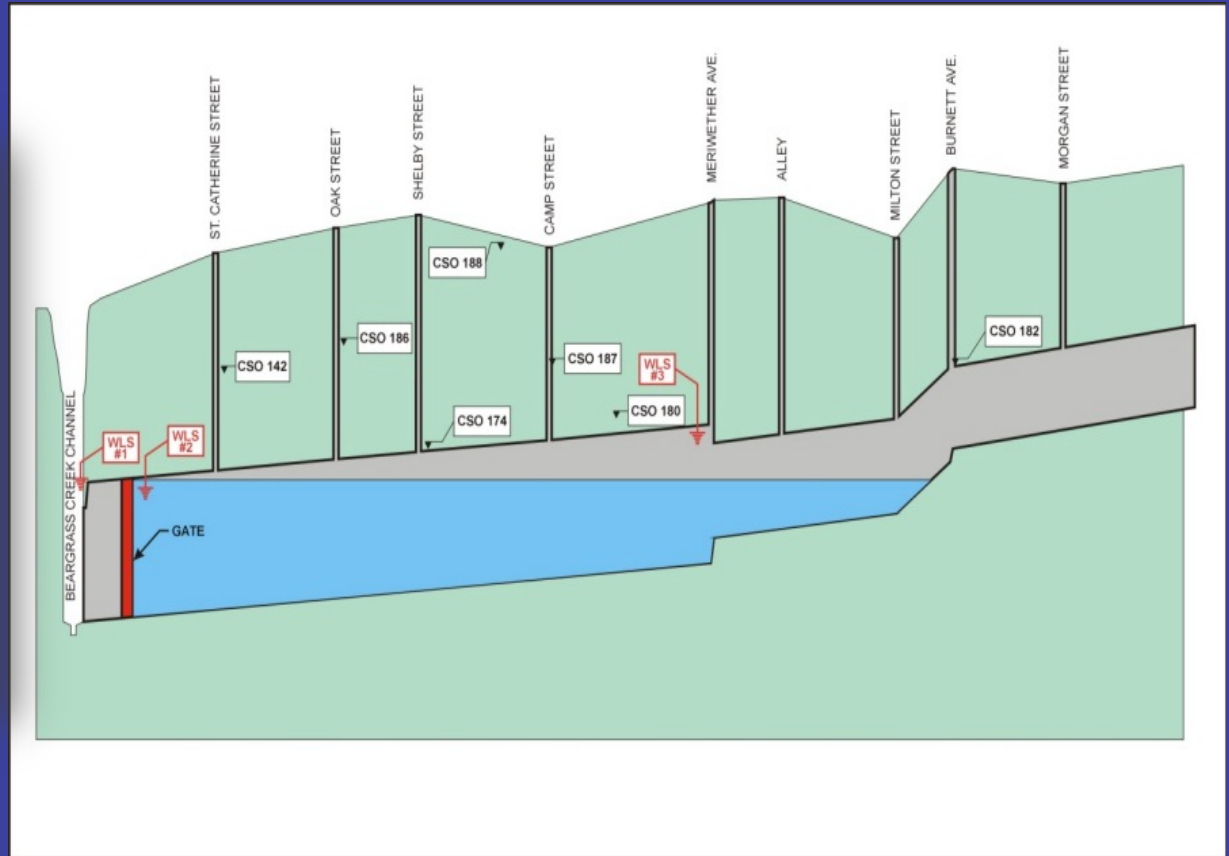
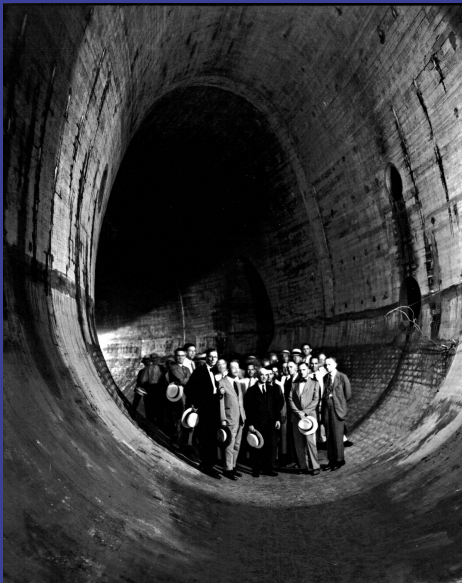
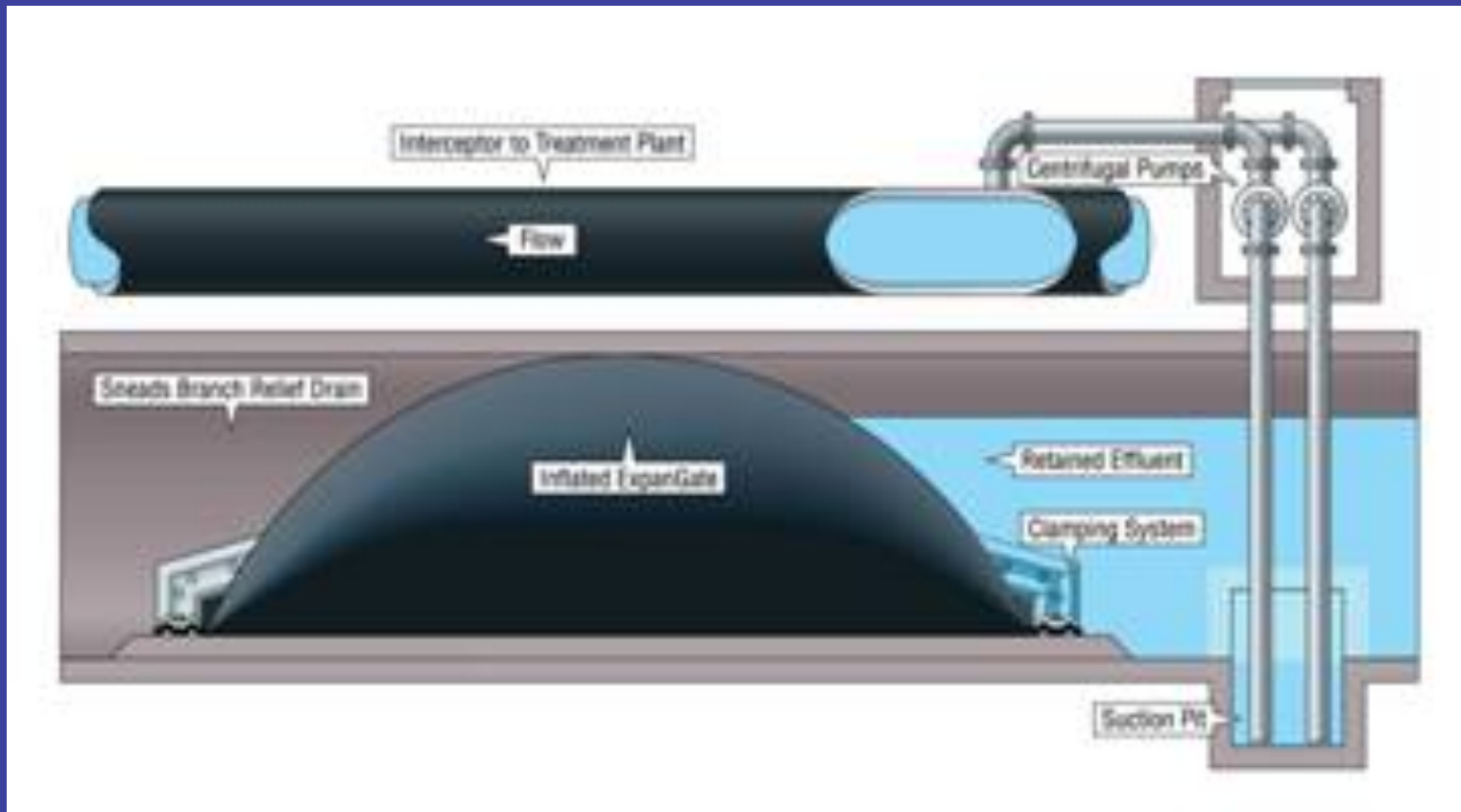
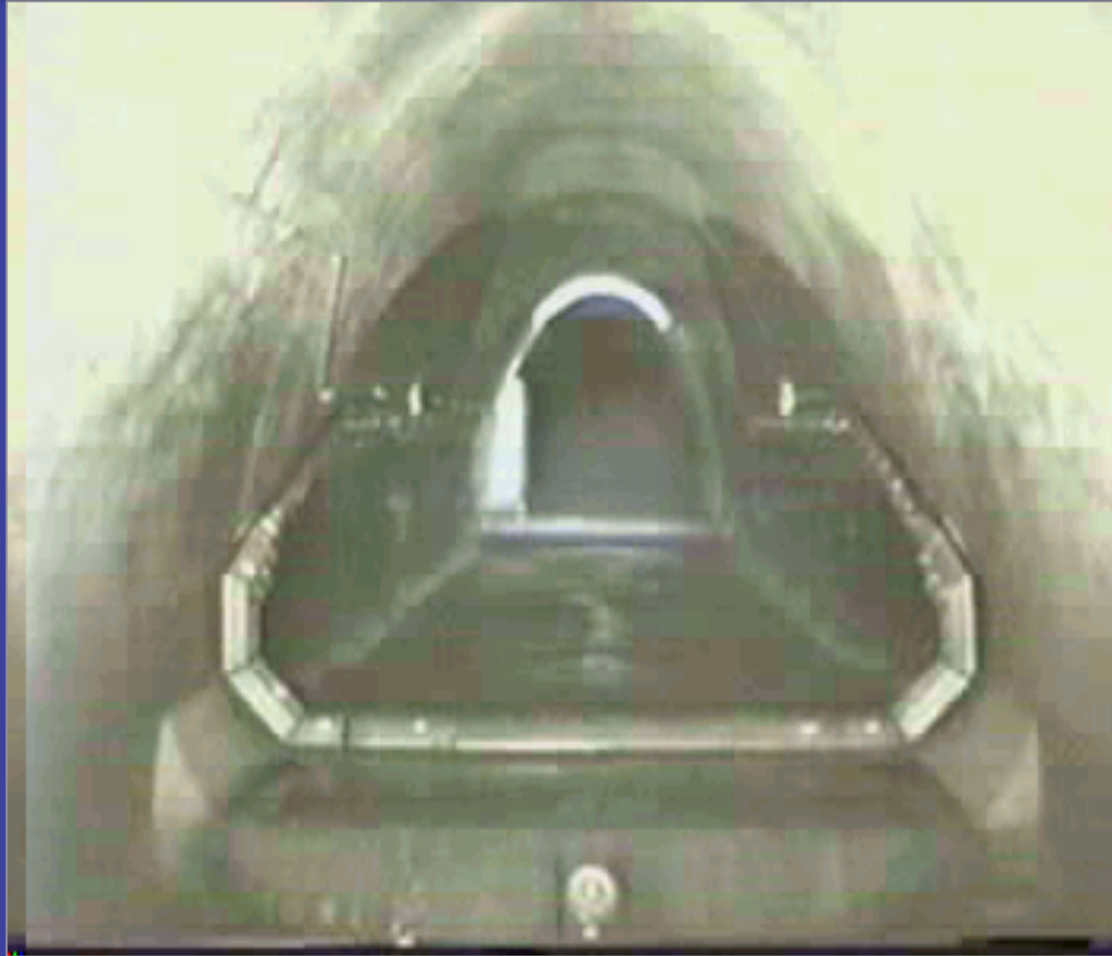


Figure 6

Automated Gate Structure



Automated Gate Structure



Revised Recommendations

- ~~Algonquin Parkway CSO Basin~~
 - Eliminates 4.84 MG Basin
- Inline Under Ground Storage Solutions
 - Gate Control Structure
 - Inflatable Dam Structure
 - Two Locations
 - SOR1- 11.4 MG Storage (Industrial Area)
 - SOR2 – 4.7 MG Storage (Business/
Commercial Area)

Revised Recommendations

CSO	CSO Area (ac.)	2009 AAOV (MG/yr)	2009 # Overflows per year	Revised AAOV (MG/yr)	Revised # Overflows per year
16	0.00	1.92	8	0.00	0
210	166.67	42.99	8	0.00	0
211	3,554.89	7.98	8	0.00	0

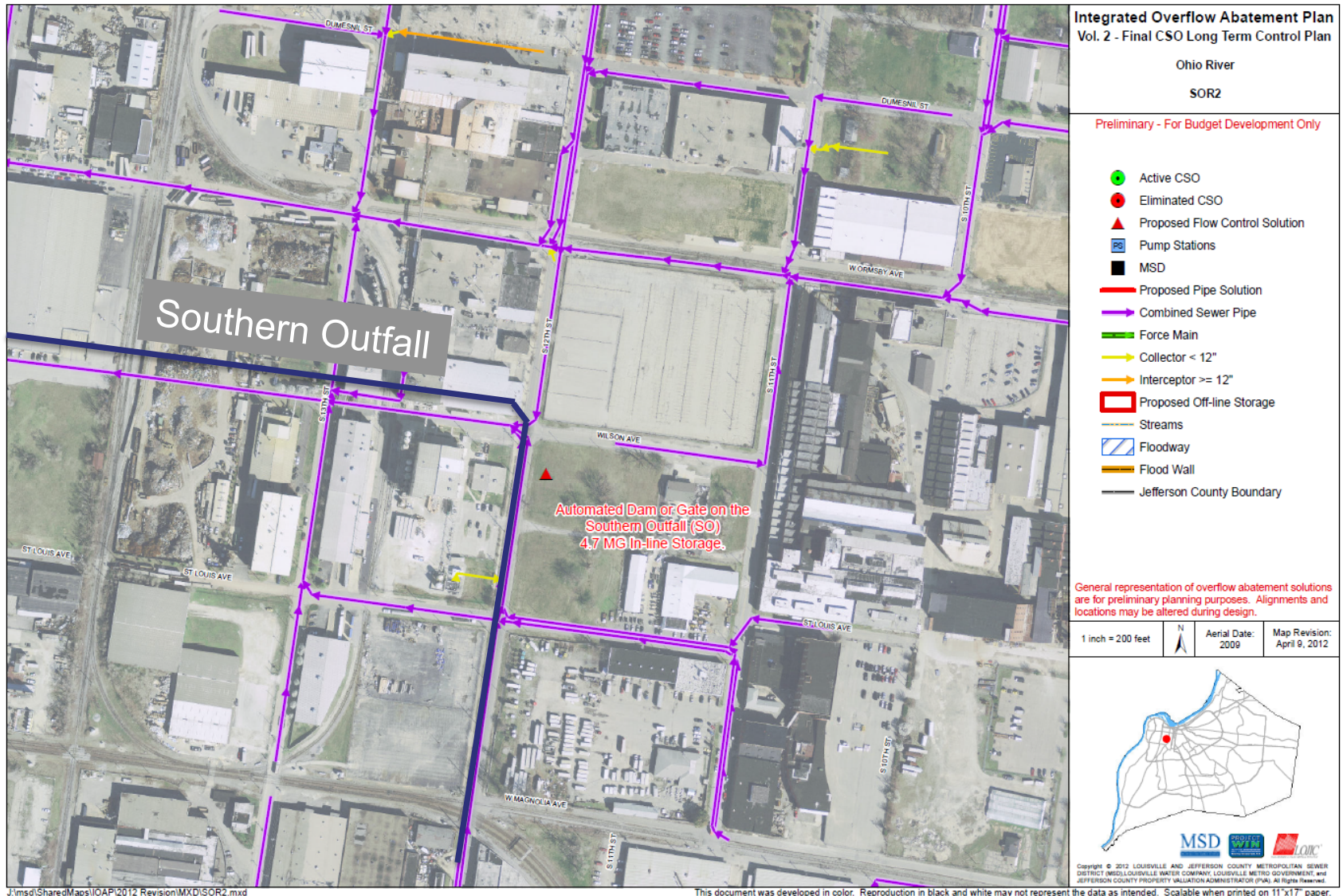
AAOV: Average Annual Overflow Volume



SOR1 – Industrial Location



SOR2 – 12th Street and Wilson Avenue



SWOR2 – Control Building



Moving Forward

SOR1 and SOR2 Projects



Moving Forward

- Continue discussions with EPA regarding proposed project modification
 - New Inline Storage Solution
 - Maintain Original 12/31/18 IOAP Date
- MSD Begin Design/Construction Phases
 - Design 2014
 - Construction 2015
 - Both Complete by 2018 IOAP Date

Moving Forward

- Public involvement – Today
 - Communicate Concepts and Site Selection
 - Solicit Feedback/Suggestions
- Public Involvement – Next Phase
 - Communicate Design Concepts and Architectural Renderings
 - Solicit Feedback/Suggestions



Public Input Sought

- Provide written comments by June 15, 2012
- Send comments via email
commentsIOAP@msdlouky.org
- Mail comments
MSD IOAP Project Comments
Attention: Project WIN Program Manager
700 West Liberty St.
Louisville, KY 40203

