Another Look at Private Property – Sharing Information Across the Country

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Acknowledgements

- > WEF Collection System Committee
 - Laurie Chase, PE, Fuller Mossbarger Scott and May Engineers
 - Jaime Davidson, PE, Parsons
 - Jane McLamarrah, PE, MWH
- > Renee Kayal and Susan Merther, WEF
- > Participating Utilities
- > Private Property Virtual Library (PPVL) Development Team
 - Laurie Chase, Chair
 - Jaime Davidson, Vice Chair
- Ja
- Bill Carter
- Mike Anderso
- Bruce Cohen
- Mike Greene

Another Look at Private Property...

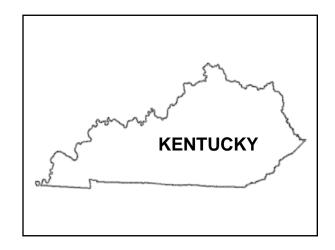
- > The purpose of this webcast is:
 - to introduce the private property virtual library,
 - to present case studies of utilities, and
 - to promote the exchange of useful information
- ➤ Private Property Program Perspectives:
 - Initially evaluating program options
 - Implementing programs
 - Lessons learned from sustained program

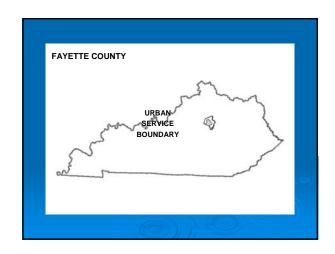
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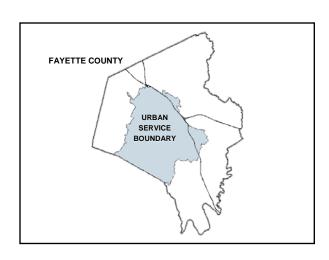












Background LFUCG Sanitary Sewer System

- Combined City / County Government
- Urban Service Boundary Defines Service Area
- > System Size 1,100 miles of pipe
- > System Size 90,000 customers
- Average day flow approx. 36 MGD; peaks in excess of 110 MGD

The "Issue"





Background LFUCG Sanitary Sewer System Service Lateral Ownership

- Public from main to edge of right of way or easement.
- > Private from edge of right of way or easement to structure.
- Historically no clean-out installed at public / private interface.

Current Private Property Programs "Positives"

- > Sump pump redirects from sanitary sewer.
- > 983 completed between (1997 and 2007)
- > Average cost \$1950 / redirect





Current Private Property Programs "Positives"

Installation of clean-outs at public /private interfaces on service laterals.





Current Private Property Programs "Negatives"





- Sump pump redirects are voluntary and funded exclusively by user fee.
- No enforcement capability for other private property generated problems (laterals, grease, other I/I sources.
- > Ordinances prohibit "clear water" discharges lack of political will to enforce.

Past Efforts

- Mandatory sump pump inspection of residential structures concept presented to LFUCG Sanitary Sewer Oversight Committee (SSOC) in 2002.
- Proposed requiring disconnection of improper sump pump connections to occur at time of property transfer.
- Proposal opposed by realtors for fear that inspections / mandatory redirects would negatively impact sales.

Past Efforts

(cont.)

- > Engineering evaluations of over 500 homes in Chevy Chase neighborhood.
- Evaluations looking for all improper connections (sump pumps, foundation drains, area drains, etc.)
- > 72 improper connections to sanitary sewer confirmed, additional 83 suspected but inconclusive.
- > No action plan adopted.

Sump Pump Connected to Sanitary Sewer





Area Drains Connected to the Sanitary Sewer





Past Efforts

Grease interceptor ordinance challenges.





Renewed Efforts

- LFUCG currently negotiating a federal Consent Decree (CD) for un-permitted discharges (SSOs).
- Outcomes of CD Capacity evaluations / remedial action plan.
- Private property program is critical to success of any remedial action plan.

What Are LFUCG's Options?

Do nothing about private property I/I sources?

- Probable outcome remedial measures plan that over-sizes conveyance system and treatment plants.
- Probable outcome high costs for collecting, conveying and treating "clear water".

Provide financial assistance to private property owners for remediation of I/I sources?



- > Current rates do not support.
- > General opposition to higher rates.
- Localized opposition of some property owners users fees benefiting private property.

Force Private Property Owners to Pay for Corrective Actions of Their Property?



- > Political challenge.
- Legal challenges (access for inspection, method for enforcement of corrective action).
- Absentee property owners
- Fixed income property owners
- Equity issues

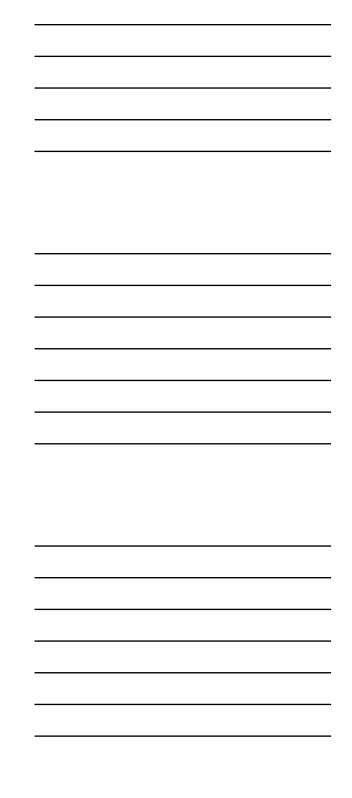
Developing a Plan

- > Quantify the issue for decision makers.
- > Develop cost comparisons for alternatives.
- > Gain support from citizen groups.
- Initiate pilot programs that generate "real numbers" and participant feedback.

PROGRESS IN "GAINING SUPPORT"

Sanitary Sewer Oversight Committee

- > Sub-committee formed in 2007.
- > LFUCG Councilperson leadership.
- ➤ Stakeholders public & private sector.
- Developed "Conceptual Action Items" for implementation



CONCEPTUAL ACTION ITEMS Concept Description Action Taken Inspect properties during the sales process to deathly and correct private property inflow and interests. Also, restal a deemort at the right of way to provide access for internal inspection and clearing. Create a solicy is allow sever maintenance workers to replace missing or incident cleanod caps. Prevents inflow and provides access for deamort and the sales for deamort and interest cleanod caps. Prevents inflow and provides access for deamort and infinite projections.

Concept Description Action Taken Action Taken Action Taken Need to vioid another community is see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore elisable for the see how it is being glore. Also, there will be ingulation reselved in the 8 block through a separate legislation allowing property. Then you would need enabling legislation allowing property. Then you would need separate legislation setting up how to pp you. Further than the setting the power of the second in read-legislation setting up how to pp you. Further than the setting the power of the second in read-legislation resetting up how to pp you. Further than the setting the power of the second in read-legislation and cap replacement. See above.

DESIRED OUTCOMES

- > Concepts that can be implemented.
- > Flow reductions / concept costs for cost / benefit analysis.
- > ZERO SSOs!



Infiltration and Inflow (I&I) Reduction Program



Erie County Department of Environment and Planning, New

Thomas Whetham, P.E. Deputy Commissioner



Agenda

- > Background
 - Erie County, NY
 - Division of Water Quality Management (DSM)
- ➤ I&I Program Overview
- Cooperative Efforts with the NYSDEC and Local Developers
- > Results for Future Development
- > Continuing I&I Efforts
- Questions and Comments

Background MAP OF NEW YORK COUNTIES VICTORIAL VICTOR

Division of Sewerage Management Erie County, New York

- > Separate Sanitary Sewers
- > 7 Sewer Districts
- Serve most communities outside of Buffalo, 1st & 2nd ring suburbs
- Suburbs approx. 30 50 year old sanitary sewer systems
- > 300,000 population served
- > Budget \$40 million
- > 250 full time equivalents
- >and growing!



Mission Statement

The mission of the Erie County Division of Water Quality Management is to provide cost effective, customer oriented, safe, reliable and sustainable wastewater service that protects public health and enhances our natural environment.



Infrastructure to Deliver Service and Achieve Mission

- > Approx. 1,000 miles of sewer
- > 20,500+ manholes
- > 100 pumping stations
- > 5 overflow retention facilities
- > 462 low pressure grinder units



Challenges to Achieving the Mission

- > Age of infrastructure
- > Economic condition of service areas
- > Aging workforce
- > Tightening permit conditions
- > Excessive wet weather flows

Today's Focus?

- > Excessive wet weather flows
 - Inflow and infiltration
 - Aging systems (mains and private laterals) admit rain and groundwater into sewer
 - Illegal connections into private laterals admit inflow
- ➤ Private laterals!!
 - Defined as the connection from the private structure to the public main, up to and including, the actual connection to the main

Infiltration and Inflow (I&I) are sources of ground water and surface water that enter the sanitary sewer system through holes, breaks, joint failures, connection failures, illegally connected sump pumps, downspouts, and footing drains, and from cross-connections with storm sewers. High groundwater levels (infiltration) and storm events (inflow) can contribute to excessive sewer flows.

Why do we care about I&I?

- I&I increases flow conveyed through the sewer system and the cost to provide service
- Increases sewer charges that businesses and residents pay for sewer service
- In NY State, the elements of the previously proposed CMOM Rule are being included in draft SPDES permits

Source of Excessive Flows

- > Failing Infrastructure
 - Public Component (15- 50%)
 - Private Component (50 85%)







County Response

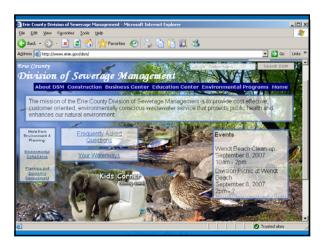
- Pursuing Elimination of Excessive Flows from Private Sources
- ➤ Increased System Evaluation Studies
 - Internal Effort Dedicated Team
- Public System Improvements
 Collection System Repair & Replacement
 WWTP Capacity Improvements
 Storage Facility Improvements (ORFs)

I & I Removal - Private

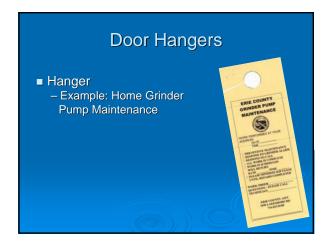
- > Public Education
- > Private house inspections (sewer ordinance)
- > Proposed law to repair or replace laterals
- > Private/Public partnership to replace/repair laterals

Public Education

- > Created public education program
- > Web site
- ▶ Door hangers
- > Newsletters
 - Feature articles
 - Ongoing projects







Sewer Ordinance Adopted by the Erie County Legislature Local Law Article IV Sewage Discharge Regulations Section 401 – Prohibited Discharges ...the following substances and wastewaters are specifically prohibited from discharge to the sewer system Surface runoff, groundwater, roof runoff, subsurface drainage, or cooling water

Identification of Ordinance Violations

- > House Inspection Program
 - Systematic program to inspect connections into the public sewer system (10% of system per year)
 - Notice to homeowner to setup an appointment
 - Inspection, followed by identification of violations
 - Notice to homeowner to correct violations

Enforcement of Ordinance Violations

- > Enforcement provisions in ordinance
 - Fines for failing to comply with request for inspection and for failure to correct violations
 - Up to \$500 per violation per day, \$10,000 maximum
 - Lengthy and cumbersome hearing process
 Hearing officer with formal hearing proceeding
 - Fines included on County tax bill
 - Fines, if unpaid, become a lien on the property title

Suggested State/Local Law

- Private Lateral and Plumbing Inspections at Time of Property Transfer
- Correction of Private Laterals and Footing Drains as a Requirement of Property Transfer



Advantages of Law

- > Addresses Long Standing Environmental / Health Problem Now
 - Failing Private Component of Infrastructure
 - Inability/Unwillingness of Municipalities to Correct
- > Reduces SSOs & Beach Closings
- > Supports Env. Groups and Regulatory Goals
- > Erie County Takes Leadership Role in Addressing Problem

Advantages of Law

- > Reduces Cost Impact of SSO Elimination
 - Phased Remediation
 - Corrects Problem at Most Affordable Time for Owner
- > Establishes Recurring Process
- > Reduces WW Treatment and Conveyance Costs
- Positively Impacts Sewer Taxes & Charges
- > Increases Capacity for Economic Development

Consequences of Law

- > 50% of House Laterals Need Repair Now, but...
 - Cost to Repair / Replace (\$2,000 \$5,000) at the Time of Property Transfer
 - Lateral Repair as % of Sale Price (2 5%)
 - Monthly Cost Impact of Lateral Replacement \$10 to \$30 Over the 30-Year Life of the Lateral Repair/Replacement

Note: Average Home Sale Price (\$85,000) - See Next Slide

Where Else Has this Been Done?

- Erie County
 - Septic System Inspection/Replacement at Time of Property Transfer
- > Tonawanda
 - Sump Pump Installation Reg't at Time of Property Transfer
- > Akron & Depew
 - Inspection (Illegal Connections) Prior to Transfer of Title
- > Sarasota, Florida & Olmsted, Ohio
 - House Lateral Replacement Program

Private Laterals Paradigm

- In NY State, public entity cannot spend public monies for private benefit.....
 - Sewer Laterals
- But, laterals are the most significant source of wet weather flows in sewer system
- NYSDEC policy on development in capacity constrained area
 - No development upstream of an SSO until SSO is eliminated, unless 4 times the amount of flow to be contributed by the development is removed.
- Developers want to build in areas where sewer system is constrained during wet weather

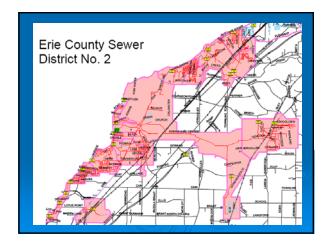
Private Lateral Repair Program

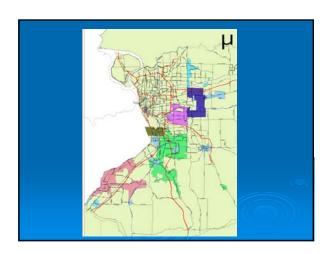
- Developers can make repairs to private property with private property owner consent
- > Public sewer service provider can provide a list of repairs
- NYSDEC has accepted table that includes the value of wet weather flows removed per type of repair made to the system

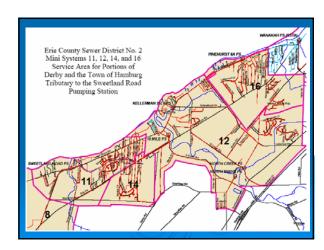
Erie County Sewer District's General Infiltration and Inflow (I&I) Source Flow Contribution I&I Contribution Severity Problem Type Surface Water/Low-lying Manholes Slight 0.5 Frame⁽¹⁾, cone, barrel leaks Moderate Slight Joint leaks Moderate Severe Slight Exposed frame and cone in ditch (Exterior) Moderate Cracks in the concrete or paved surface area surrounding a manhole with leaks in frame and cone The term frame in this report includes the manhole frame adjustment rings or bricks beneath the frame.

Erie County Sewer District's General Infiltration and Inflow (I&I) Source Flow Contribution				
Problem Type	Severity	I&I Contribution (gpm)		
PL 0 (D)				
Pipe Segments ⁽²⁾ Joint infiltration or Cracked pipe				
Pipe broken		2		
Leaking lateral at the connection to the main				
Leaking lateral at the connection to the main	Olladas	1.1		
	8" pipe	1.25		
er. v	10" pipe			
Sliplining/100 feet ⁽⁴⁾	12" pipe	1.5		
	15" pipe	1.88		
	18" pipe	2.25		
During the Parsons I&I study in ECSD 1 conducted in 2001 dry weather, under frozen ground conditions. Field observathese general values were assigned to various defects.				

Erie County Sewer District's General Infiltration and Inflow (I&I) Source Flow Contribution				
Problem Type	Severity	I&I Contribution (gpm)		
Private Sources	<u> </u>			
Low-lying lawn vent		0.1 to 80 (3)		
Downspout		5		
Sump pump ⁽⁴⁾		1		
Defective residential lateral	Case-specific, no general classification	range 15 to 70 value used 42 (5)		
Individual low-lying lawn vents vary in contribution according to surface characteristics. NYSDEC approved values, per 2005 correspondence under the ECSD 2 SPDES I&I Plan. Value used 42 gem. However, lower or higher values may be used based on actual condition.				







I&I Plan for the areas tributary to Sweetland PS – July 2001 to present

- Identify those known problem areas where sewage flow backs up in the system
- > Field tasks completed
 - Manhole Inspections/Repairs
 - Internal Televising Inspections
 - Smoke Testing
 - Dye Testing for Cross Connections
 - House Inspections
 - Replacement/Rehab Sewerlines

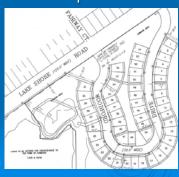


Development in an Area Tributary to SSO

Based on the NYSDEC approved I&I source flow contribution (gallons per minute) for specific repair work

Erie County Sewer General Infiltration and Inform (I.S.)		Derties
Problem Type	Serveity	EAI Contribution (gpm)
Montheire		
Frame Type Section S		
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France ¹¹ , cape, hernel leaks		1
		2
		1
Debut bedas	Moderne	
		- 5
Expresed frame and come in dirich (Extense)		
	Service	15
Circles in the concrete or period surface area communiting a murphole with leaks in frame and cope		30
Pipe Sepsesh ^(b)		
		1
Pipe trokes		2
Lesking lineral or the consection to the soon		- 1
	1" page	
	10° pipe	
Stiplining 100 Sec ⁴		
	18" pipe	2.25
		0.1 to 90 ^{cts}
Sung pung **		1
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The Process... Developers Submit Their Plans Developers sub their plans for coordinated review and



Developers submit their plans for coordinated review and approval by Water Quality Mngmt and the Erie County Health Department on behalf of the NYSDEC

Developer's Rehab List

	11	1389-1388 Townhouses on Independence Orine, Detay	Open Cut Spot Rope) 6" With Not Clay Pipe	Endouge ARM TEST and TEST (TEST) - 6" operation from ARM 1933, -9.5" deep	Hisp 1	10
10	11	1349-1235 Townhouses on Independence Otine, Delay	Open Cut Stret Repair 6" Writed Clay Pipe and Replace ending top dealing)	Belower MH 1841 and 1840 (2011), god input -09' disentation from test 1941, replace ending top -110' disentation from SH 1841 of video	16g-1	20
10	11	1330 Independence Drive, Carity	Open Cut Spet Repair IP NOMed Clay Pipe	Endward MH 1632 and 1631 (1621) - 6" updition from MH 1631, - 1" deep	Map 1	10
4	и	1000 - 1035 Exandywine Crime, Einens	Open-Cut Spot Report If Asbestos Centest Pipe	Bowsen MH 2288 to 10H 22KT (145°), -27.8° and -36.0° downstream of MH 2018, -17.0 and	Hisp 2	20
5	*	SSEE - SOPE Bindwall Road, Hardway	Open Cut Spot Repair If Asbestos Cernet Pipe	#8464000 MH 3471 and MH 3470 (225 IF), -132.5' and -177.7' disensification of MH 3473, -If Doep.	Hings 21	39
	12	Buth - 1021 Did Marce, Dwiley	Incid inflow probability.	Private MH 1912, bodied to levo	Map 4*	4
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8	\$2	But's - 1027 CIS brance, Destry	testal influe probabili.	Frank Int 1910, business diverse	Map 4*	4
	12	Bluff's - 1626 Old Marror, Dwilly	signification probability	Private MH TSI 16, located in discernity	Mip 4*	4
19	92	SkePs - 1816 Did Marcer, Davidy	install inflow probability.	Private Mrt 1916A, located in diversey	¥	4
2	12	Bluffs - 1408 Greenbrier, Desby	Apply a 107 committees being to have	Private NY 1917, located in street	Map 4*	2
12	- 12	Buts-ON Monor & Kingston, Cody	Frame ring and sold on top of theme - name & Apply in 1/2" connectables tranggle frame & impairmenting between 2rd & 4th rings down	Place SH 1015, located traves	Map 4*	2
2	12	Stuffs - Bind of Cital Market, Dwilly	Inpoly is 107 conventions thing to have and local inflat undestin.	Private MH 1923, located in post year.	Mig 4*	
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15	12	86/75 - 1109 Hongson, Delby	Apply a 12" commissions being to home	Prints NH 1947, looked is street.	Map 4*	2
*	12	Bluffs-1512 ByteNige, Dwby	Apply a 12" commissions being to home	ENAMED BY THE DISTRIBUTE OF THE PARTY.	Map 4*	2
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=	12	Butts - Paul 1708 Briandys, Dwisy	Apply a 127 correct place frame to	Private NRI 1982, located in Set	Mig 4*	2
19	12	Branc - 1510 Souwedge S Branders Dellay	Apply a 12" correct place being to have	Place MH 1985, builted in least	Map 4*	2
29	12	Butts - Borresign, Dwoy	Apply a 107 commissions being to home	Private NPH 1952, bouted in texts	Map 4*	2
25	127	Tengeroods Apadherts, 8607 Fouls S, Deby	Press religed this with spory glob with tests have sloped at time to sore joint and ditess, fishward by a 107 consistance, trying to yourse, 167 contrary used material appred to the vide for exposed or data.	MH 1905, loaded in dish	Hap S	29
22	\$2	Booth of Eargewoods apadments of Nagara Michael Paia 83, Stock 5, Dellay	Apply a 10" consentations in high ordered of home, apply 15" obtaining seems should be the extensive exposed in 480h.	MH 1967, located in 48ch	May 1	15
22	12	Rode 5, Delity	Apply a 1/2" demonstrations trought interest factor, apply 1/2" obstoracy control actions to the widoor exposed in district indicates professor.	MH 1905, located in disch	Hap S	e
160	ж	Route 5 is also known as \$10 Rout, Undeted Street, are shown indeed.		Total ISI Removal Fello	aled (gree)	167

Rehab Details

- Using the GIS, the contractor is provided with site maps and any pictures available
 Inspection must be done by
- Inspection must be done by County staff at the time of rehab
- Rehab details are logged by County



Compiling the Rehab Work for the Developers

- Finding additional rehab work for developers has taken a considerable amount of ECSD 2 investigative field work (televising additional sewer main lines and service laterals).
- The rehab lists are then given the appropriate I&I removal value, and submitted to the NYSDEC and the Health Department for their approval.
- Once approved, the rehab list is a condition for the sanitary sewer extension approval which must be completed prior to any permits being issued.

The DSM Project Overview

- Development is a very important economic factor for the County, the Towns (Hamburg and Evans) and for ECSD 2, which was realized by the NYSDEC.
- The coordinated and cooperative efforts between the DSM, the NYSDEC, and the developers should be acclaimed.
- The developers are provided with the most cost effective rehab in an effort to still be economically feasible for building in this area.

Repair and Rehab Work to Private Laterals in ECSD 2

- Advantages to developers replacing laterals :
 - Homeowners have their lateral replaced at no material or labor cost to them, only to have the responsibility of restoration to their property (lateral replacement cost is typically \$1,500-\$3,000).
 - **Developers** remove the most I&I for their rehab costs in replacing laterals (42 gpm).

Where Do We Go From Here...

- ECSD 2 and the other ECSDs will continue to be proactive with the I&I programs in place
 - Investigation & Rehabilitation work
 - Continuing to improve our level of service
 Improve efficiency of our own records
- > I&I work tracked through electronic forms, databases, and GIS/computerized maintenance management systems
- > Online flow monitoring and SWMM hydraulic modeling of our system
- Capital Improvements Plan (CIP) is also in progress to determine future rehab and replacement projects

Questions or Comments??

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Stege Lateral Testing & Replacement Program



Stege Sanitary District El Cerrito, California

Douglas Humphrey, District Manager

STEGE SANITARY DISTRICT STEGE SANITARY DISTRICT

STEGE SANITARY DISTRICT

Satellite Collection System Agency

Serves El Cerrito, Kensington, Richmond Annex

- 5.5 Sq. miles, 150 miles main lines, 2 pump stations
- 30% of Main Lines are in Easements, 50% in hilly
- Laterals 13,000 connections, about 125 miles of
- System Replacement Value = \$95 million
- Annual Operating Budget = \$2.1 million

HISTORY OF THE DISTRICT

About the District

 1980-1985 EAST BAY I/I STUDY
 1986-1997 I/I CORRECTION PROGRAM (\$12M) DIGITAL MAPS OF THE DISTRICT SYSTEM REHAB PROGRAM (SRP)

DEVELOPED AND IMPLEMENTED PROACTIVE OR RELIABILITY CENTERED MAINTENANCE

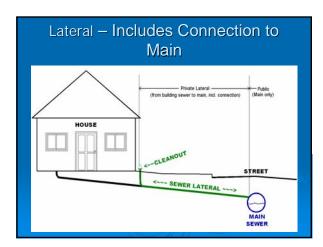
Inflow/Infiltration (I/I)

EAST BAY I/I STUDY

- > Excessive I/I in EBMUD Service Area
- > Stege ADWF of 2.8 MGD, PWWF of 50 MGD
- > Majority of Stege I/I from Groundwater
- Each Satellite Agency in EBMUD Issued a Cease & Desist Order (CDO)
- Each Agency Responsible for Own Plan to Reduce Sanitary Sewer Overflows (SSOs) & Bypasses of Untreated Wastewater
- > I/I Correction Program A Regional Cost-Effective Plan

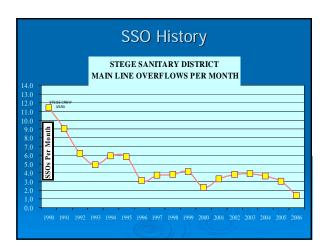
LATERAL REHABILITATION - 1987

- Replaced all Laterals and Main Lines in one sub basin (small & separate – 110 residences)
- > Reduced I/I by 86%
- Conclusion Laterals responsible for majority of I/I
- Result Changed cost-effectiveness assumptions, constructed more relief lines to provide capacity. Available downstream capacity at EBMUD Wet Weather Treatment Plant. This Plant treats (advanced Primary) "excess" flows during major storm events (about 6-8/year)



LATERAL TESTING PROGRAM

- Discussions Regarding a Lateral Testing/Replacement Upon the Sale of Property Initiated in 1999
- Main Line Rehabilitation Program On-Going and Successful (Reduced Overflows, Bypasses Eliminated). Replacing 1.25 % of System/Year. SSOs Reduced from 150-160/year to 20
- ➤ Laterals Still Significant Source of I/I
- Examples Alameda, Albany, Burlingame, Tahoe-Truckee. Subsequently Berkeley, Richmond, & many others considering a similar program



LATERAL TESTING PROGRAM

- > Details of Program Completed in Early 2005
- Ordinance Revision Prepared Adds the Sale of Property as Additional Requirement (to 5 existing) for the Testing of Laterals. Estimated at 400 to 450 sales per year
- Ordinance Passed in June 2005 –
 Implementation Date of September 6, 2005

LATERAL TESTING PROGRAM

- Realtor Associations Contacted Regarding Program
- Contacted Again and Notified Formally about Ordinance
- Written Information & Notices Sent to Realtor, Title Companies, Associations. Much More Interest in August 2005!
- Notified ALL Property Owners Letters (7/05) & Newsletters in October 2005 & Spring 2006

LATERAL TESTING PROGRAM

- > Video Testing Property Owners Responsible
- > Compliant for 10 Years After Lateral Replaced
- District Staff Reviews Video Tapes No Charge.
 Permits for lateral work are \$25. Some
 Contractors Charge \$0 for Video Inspection
- > HDPE is an Approved Material, & is the Predominant Type of Pipe Used
- Allowing Time Extensions Modified Ordinance in 2007. Stege does NOT Prevent Closing of Sales or Escrow



HDPE Installation
Small Machine in Pulling Pit/Manhole



LATERAL TESTING PROGRAM

- > Opposition Subsided Quickly
- > Compliance Rate of about 90% by mid-2006. Was 75-80 % as of January 2006
- Additional 20 to 25 hours per week of Staff Time – Phone Assists, Video Assessment, Inspections, Records Management
- > Following Up on Non-Compliance

LATERAL TESTING PROGRAM

- > Tracking
- Access Database
- On-Line Property Sales Data
- Initiated Use of Listing Databases in 2007
- > <u>Data</u>
- Test Results, Compliance, Extensions & Dates.
 Over 1000 Compliant as of November 2007 (8%)
 Over 700 Compliant as Direct Result of Sale
 About 450 Sales Per Year in District
 Will Take Decades(35-40 years) to Complete System

LATERAL TESTING PROGRAM > Enforcement - Letters for Non-Compliance - Letters to Agents upon Listing - Future: Inspection Warrant, Testing, Replacement (when needed) by Stege. Expenses, including Staff Time, to be Placed on Property Tax Bill **Suggestions** Outreach to Real Estate Community is Vital – Explain This is Value Added to Their Clients & Community as a Whole > Provide Notice to Everyone, and on Multiple Occasions > Work with Realtors Prior to Implementation to Ensure Processes that Provide a Mutual Benefit are Included, and Processes that the Realtors Will Support Questions?

Q & A Session

- > Laurie Chase, PE, FMSM Engineers
- Charles Martin, PE Director, LFUCG Division of Water and Air Quality
- ➤ Thomas Whetham, PE Deputy Commissioner, Erie County Department of Environment and Planning
- Doug Humphrey, PE District Manager, Stege Sanitary District