

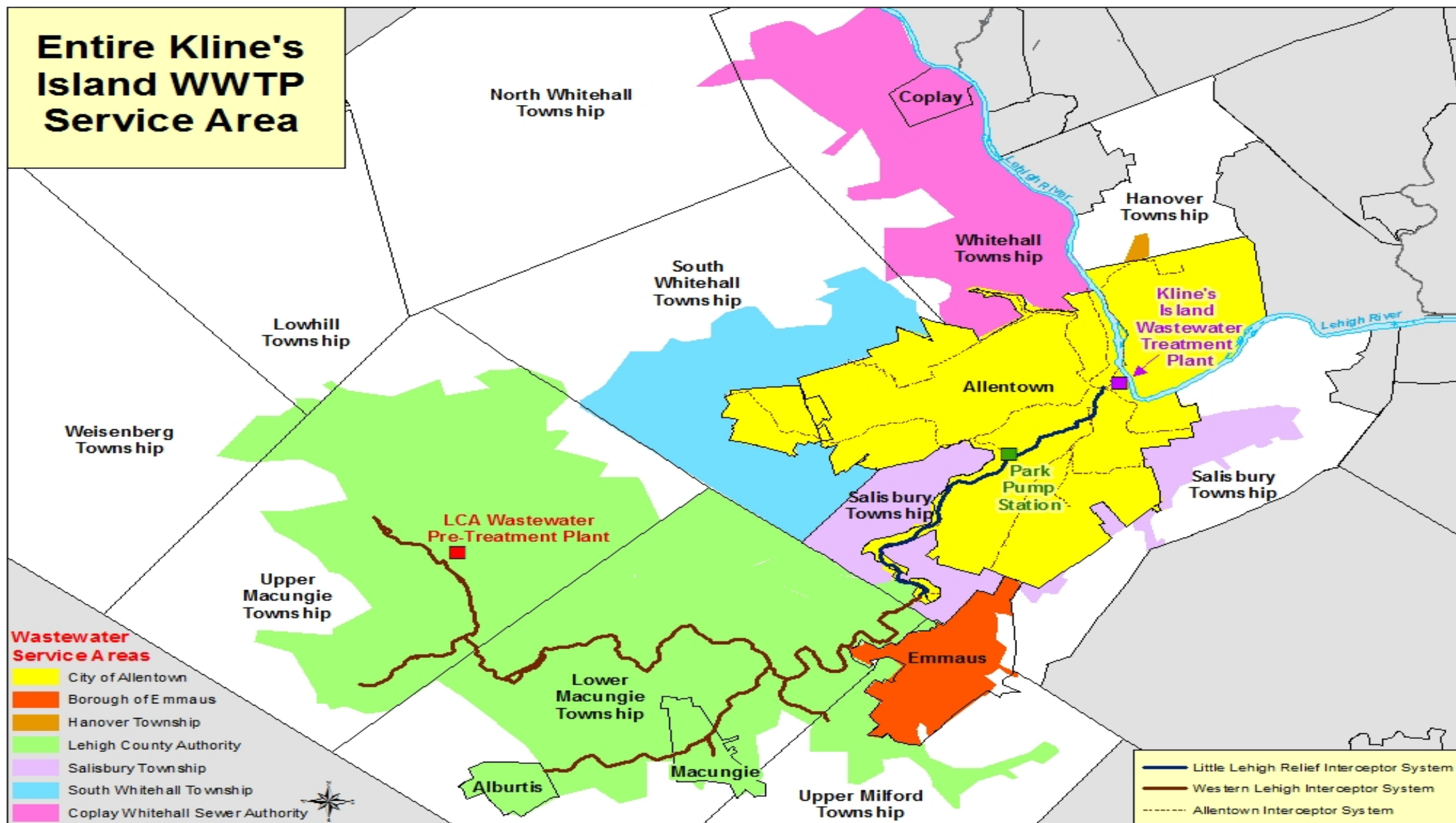
February 13, 2017

USEPA Administrative Order and PADEP Chapter 94 Corrective Action Requirements

SCARP SEWER IMPROVEMENT PLAN

Understanding proposed cost sharing and implementation mechanisms

Entire Kline's Island WWTP Service Area



Klines Island WWTP

- Design: 40 MGD average; 87 MGD peak
- 2016 Average: 32 MGD

2017

- Dry day avg. – 32MGD
- Wet day peak – ~150 MGD
 - 87 MGD - Outfall 001
 - 30 MGD - Outfall 003
 - 23 MGD - SSOs



USEPA and PADEP

- Eliminate SSOs
- 10 year Level of Protection
- I&I Removal must be included
- Account for leakage increases due to age
- Account for growth
- Provide peaking factors to each Signatory

GOALS AND SCOPE



SCHEDULE



FUNDING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

In The Matter of:

City of Allentown,

Borough of Alburtis,

Borough of Emmaus,

Borough of Macungie,

Coplay-Whitehall Sewer Authority,

Hanover Township,

Lehigh County Authority,

Lower Macungie Township,

Lowhill Township,

Salisbury Township,

South Whitehall Township,

Upper Macungie Township,

Upper Milford Township,

Weisenberg Township,

Proceeding Under Sections 309(a) and
308 of the Clean Water Act, 33 U.S.C. § 1319(a)
and §1308

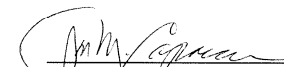
Docket No.: CWA-03-2009-0313DN

FINDINGS OF VIOLATION,
ORDER FOR COMPLIANCE,
AND
REQUEST FOR INFORMATION

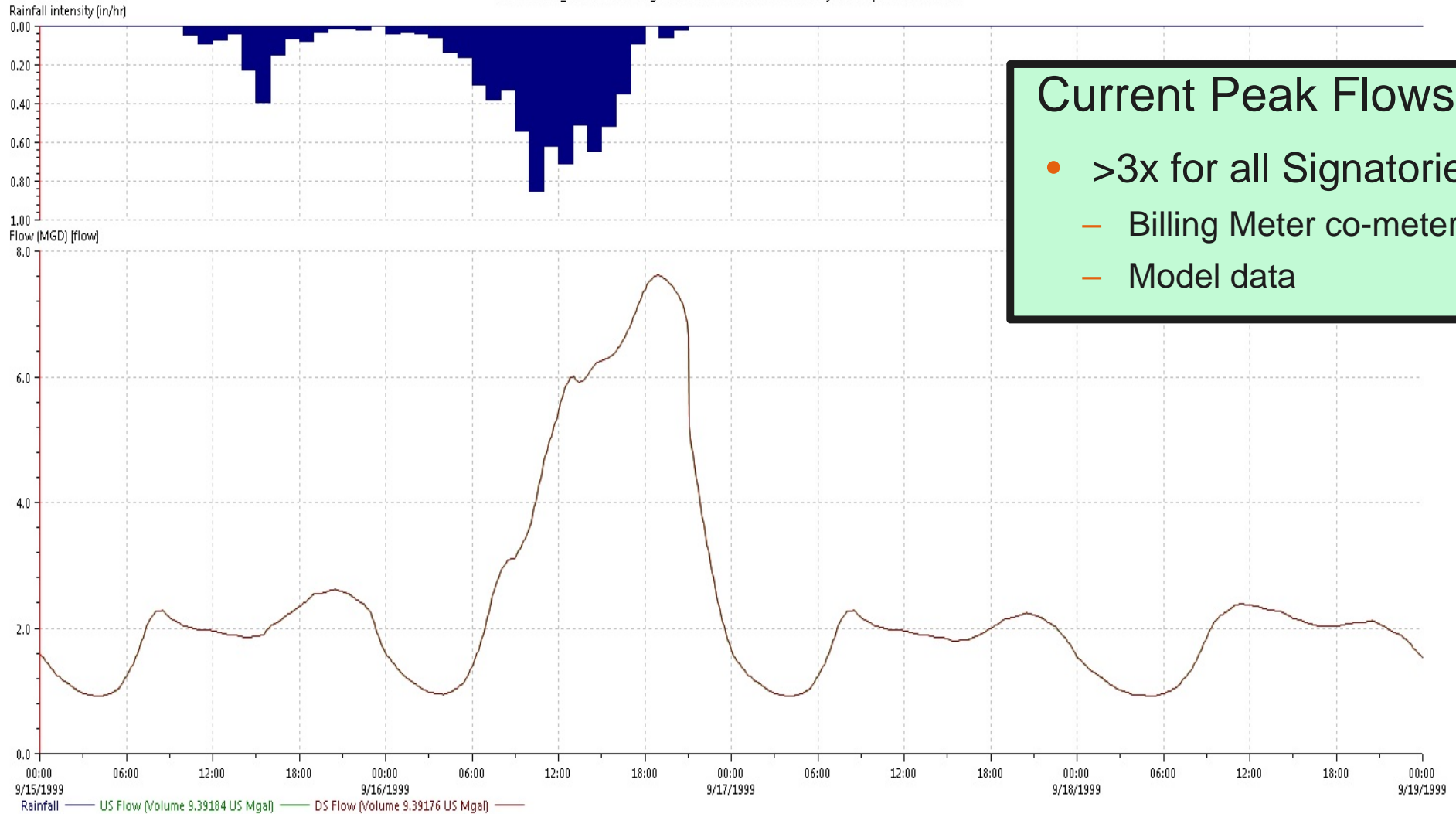
V. EFFECTIVE DATE

32. The effective date of this Order shall be the date it is received by the Respondent.

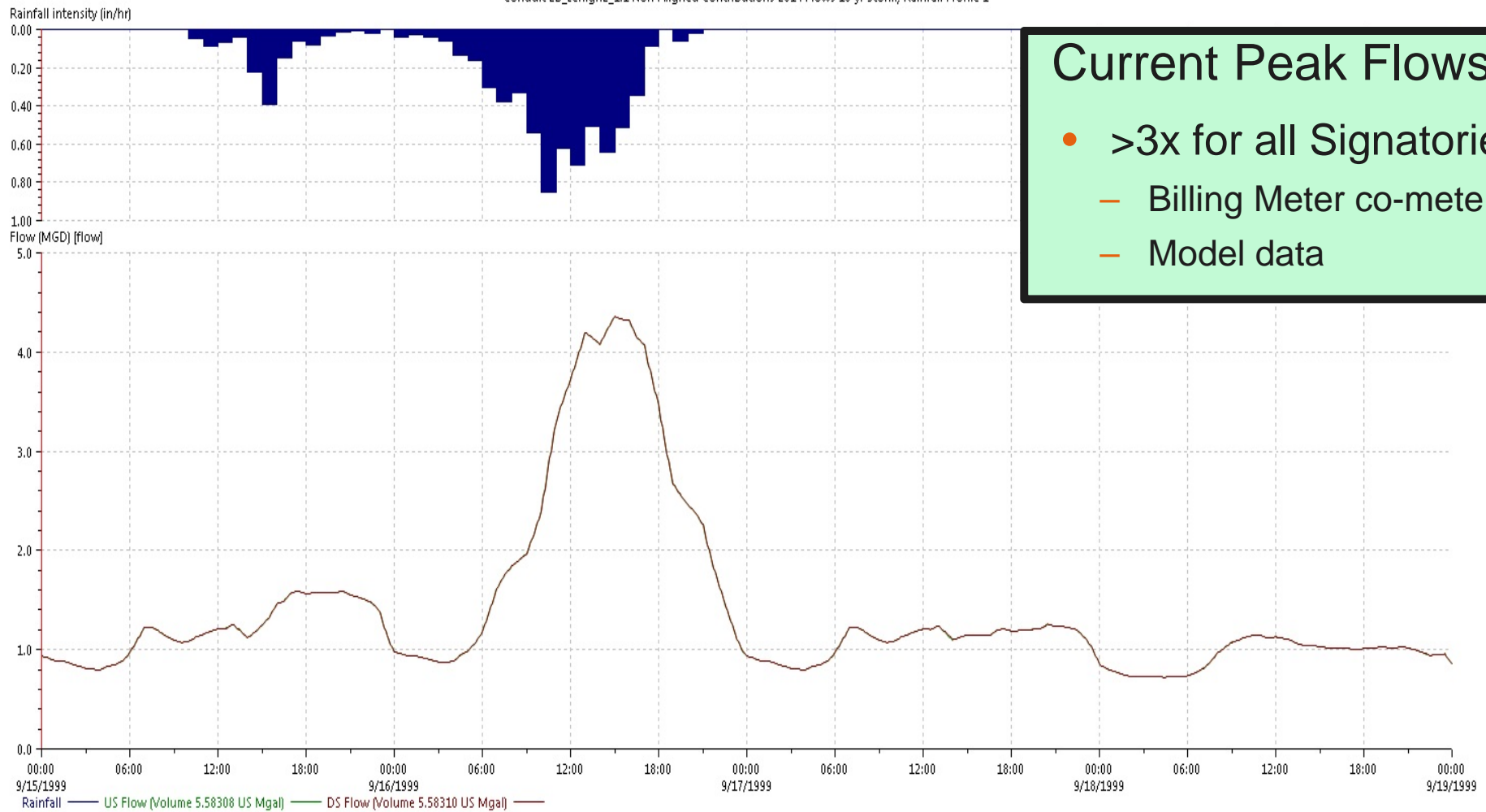
Date: SEP 28 2009


John M. Capacasa, Director
Water Protection Division

Conduit CW_Jordan.1 Non-Aligned Contributions 2014 Flows 10-yr StormII, Rainfall Profile 1



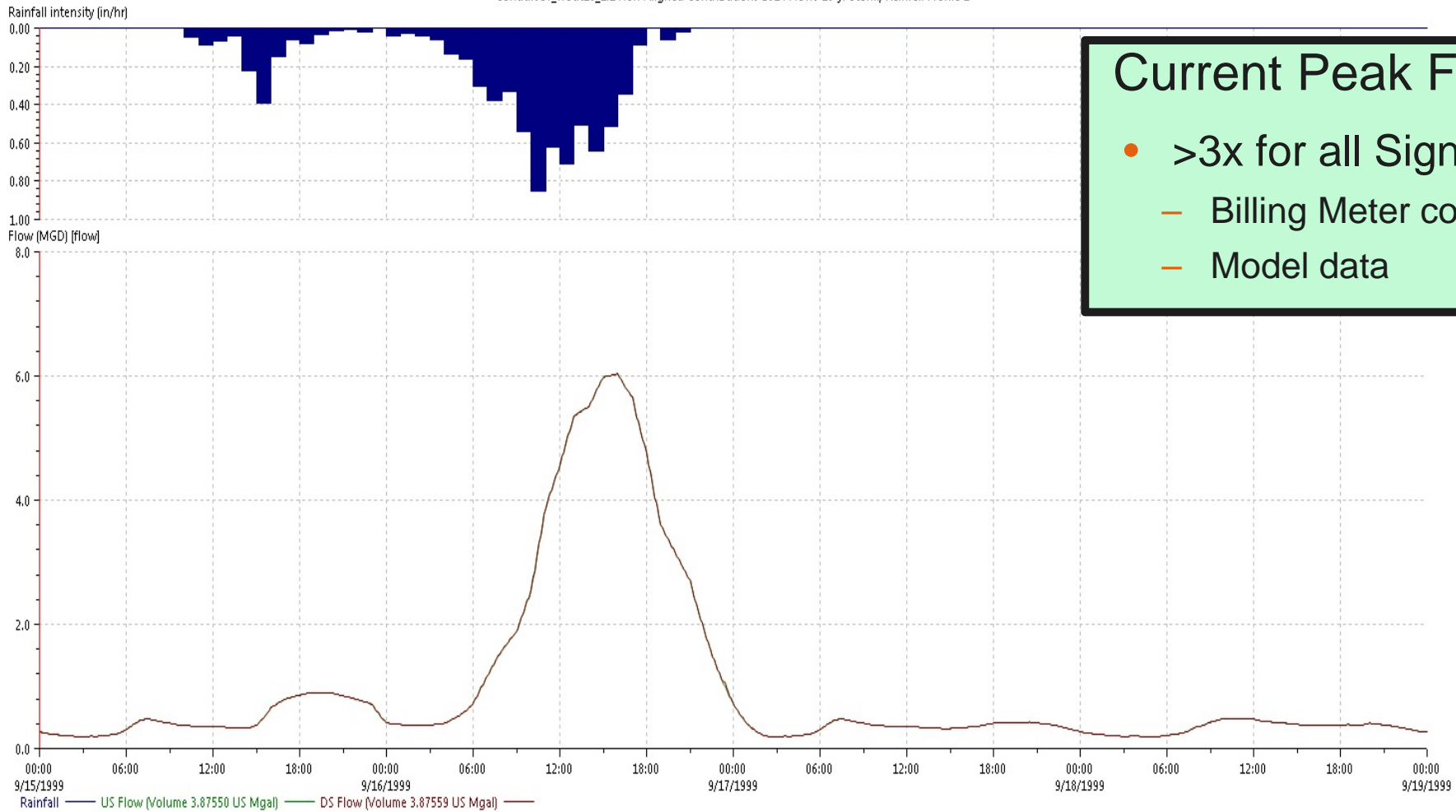
Conduit EB_Lehigh2_1.1 Non-Aligned Contributions 2014 Flows 10-yr Storm, Rainfall Profile 1



Current Peak Flows

- >3x for all Signatories
- Billing Meter co-metering
- Model data

Conduit ST_Trout10_1.1 Non-Aligned Contributions 2014 Flows 10-yr Storm, Rainfall Profile 1



Current Peak Flows

- >3x for all Signatories
 - Billing Meter co-metering
 - Model data

Peak Flow = Sewage + Groundwater leakage + Rainfall I&I + Growth

Peak Flow ~> Program Cost

A Coordinated City- LCA Plan

Solution Planning



- Based on Year 2040 flow projections
 - ~4 additional MGD from WLSP
 - ~2 additional MGD from City
 - ~½ MGD from all other Signatories
- Approaches considered
 - Source reduction
 - Storage
 - Gravity conveyance
 - Pumping
 - Blending

Solution Planning must cover both Current and Future flows

Plans must not work against each other

LCA
and
WLSP

City

Other
Signatories

Phase 1 (2012-2025)

LCA and WLSP Source Reduction Programs
(2012-2025)

- Mains, manholes
- Western Lehigh Rehab

- Laterals

Phase 1a Improvements
(2017-2020)

- Park PS Restoration
- Park FM Rehab

Phase 1b Improvements
(2021-2025)

- Trexlertown Interceptor

- Klines Island
Equalization Tank 1
- Park FM Extension

- Tioga Street Interceptor
- Trout Creek Interceptor

- Minimal Planned

- TBD

Phase 2
(2027-2038)

- Ongoing Sewer Rehab Program
- Bridge Park Interceptor
- Borough Interceptor
- Ancient Oaks Interceptor
- Little Sister Pump Station and Force Main
- KI Blending or EQ Tank 2
- Jordan Creek Interceptor

- TBD

Pay Basis = Base Allocation

*Pay Basis =
Peak Flow*

2016- 2017
Negotiations

Phase 1 (2012-2025)

Interregnum 1
(2026-2027)

Phase 2
(2027-2038)

LCA
and
WLSP

Memo of
Cooperation

LCA and WLSP Source Reduction Programs
(2012-2025)

City

Memo of
Understanding

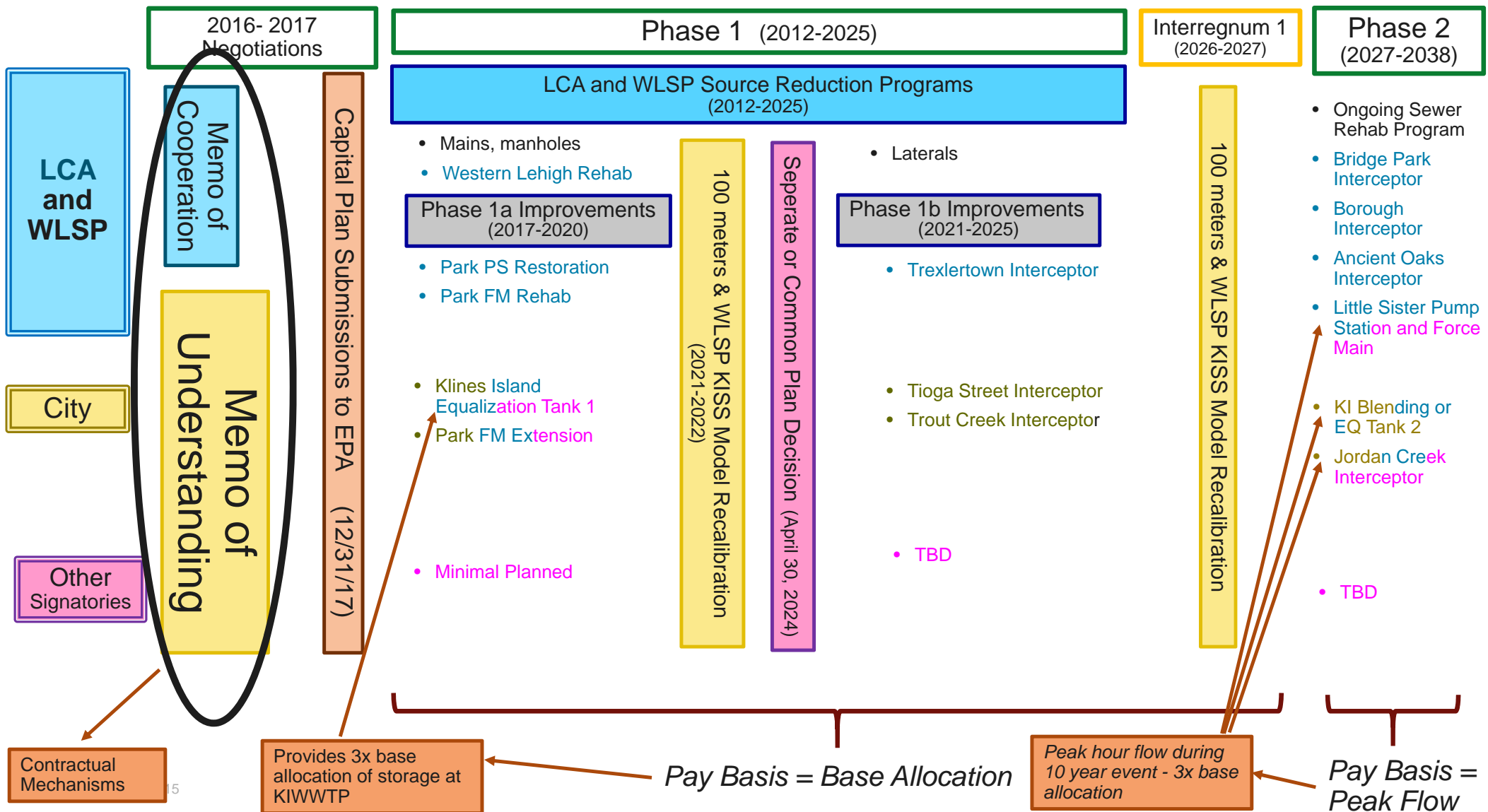
Other
Signatories

	2016 Klines Island Purchased Allocation	
Allentown	18.82	47.05%
Coplay Whitehall	3.76	9.40%
Emmaus	1.40	3.50%
Hanover		
Lower Macungie (Direct Allocation)	0.25	0.63%
Salisbury	1.99	4.98%
South Whitehall	2.50	6.25%
South Whitehall (City Allocation)	0.50	1.25%
LCA	10.78	26.95%
Total	40.00	100%

**Gives Signatories a chance to reduce their peak flows
before expensive Phase 2 cost shares are determined**

Pay Basis = Base Allocation

*Pay Basis =
Peak Flow*





Discussion