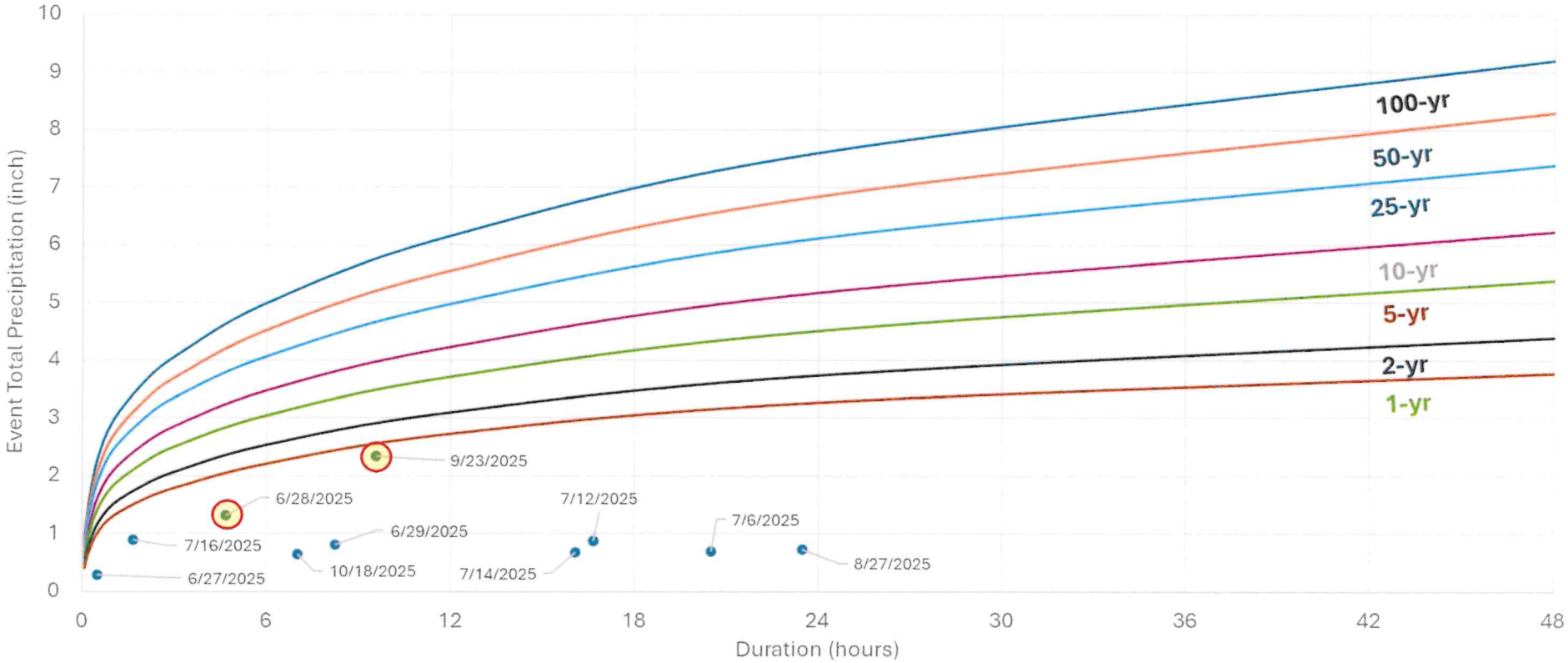
Rain Events

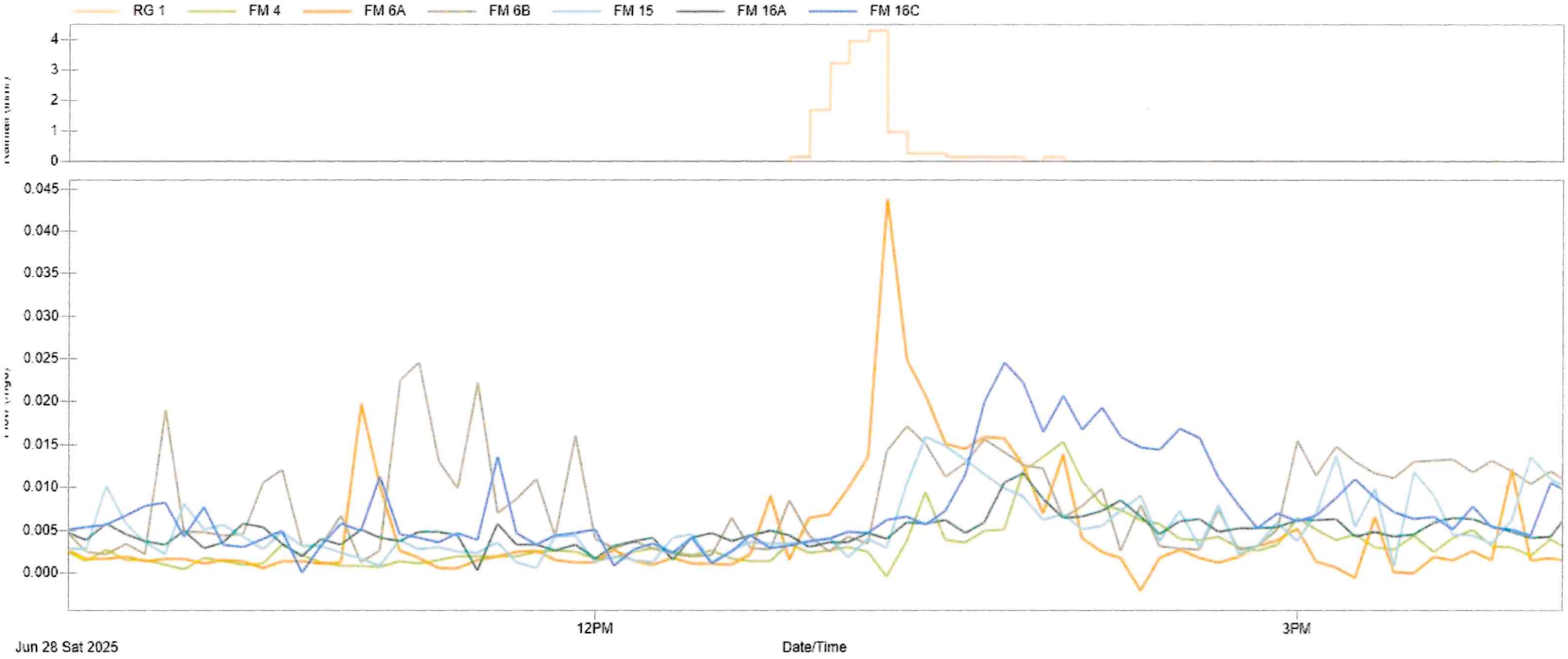
Stm #	Start Date/Time	Duration (hr)	Total Rain (in)	Peak Hourly Intensity (in/hr)	Reoccurrence Interval (Peak Hourly Intensity) NOAA Atlas 14
1	6/27/25 12:25	0.50	0.28	0.28	Less than 1-year
2	6/28/25 12:50	4.67	1.31	1.27	Less than 1-year
3	6/29/25 17:20	8.25	0.81	0.79	Less than 1-year
4	7/6/25 19:30	20.50	0.7	0.52	Less than 1-year
5	7/12/25 18:55	16.67	0.87	0.74	Less than 1-year
6	7/14/25 17:50	16.08	0.67	0.23	Less than 1-year
7	7/16/25 14:50	1.67	0.89	0.83	Less than 1-year
8	7/17/25 10:25	0.08	0.01	0.01	Less than 1-year
9	7/27/25 15:45	0.25	0.03	0.03	Less than 1-year
10	7/29/25 9:00	0.08	0.01	0.01	Less than 1-year
11	7/31/25 1:55	2.00	0.06	0.05	Less than 1-year
12	8/13/25 6:10	0.08	0.12	0.12	Less than 1-year
13	8/19/25 13:45	15.92	0.05	0.03	Less than 1-year
14	8/27/25 12:05	23.50	0.72	0.21	Less than 1-year
15	8/30/25 6:30	0.08	0.01	0.01	Less than 1-year
16	9/6/25 4:10	2.67	0.02	0.01	Less than 1-year
17	9/15/25 9:55	0.33	0.04	0.04	Less than 1-year
18	9/20/25 10:45	17.33	0.63	0.26	Less than 1-year
19	9/21/25 17:25	21.50	0.31	0.22	Less than 1-year
20	9/23/25 9:45	9.58	2.34	1.26	Less than 1-year
21	9/24/25 15:55	3.42	0.35	0.23	Less than 1-year
22	10/18/2025 14:25	7.00	0.64	0.37	Less than 1-year

Rain Events

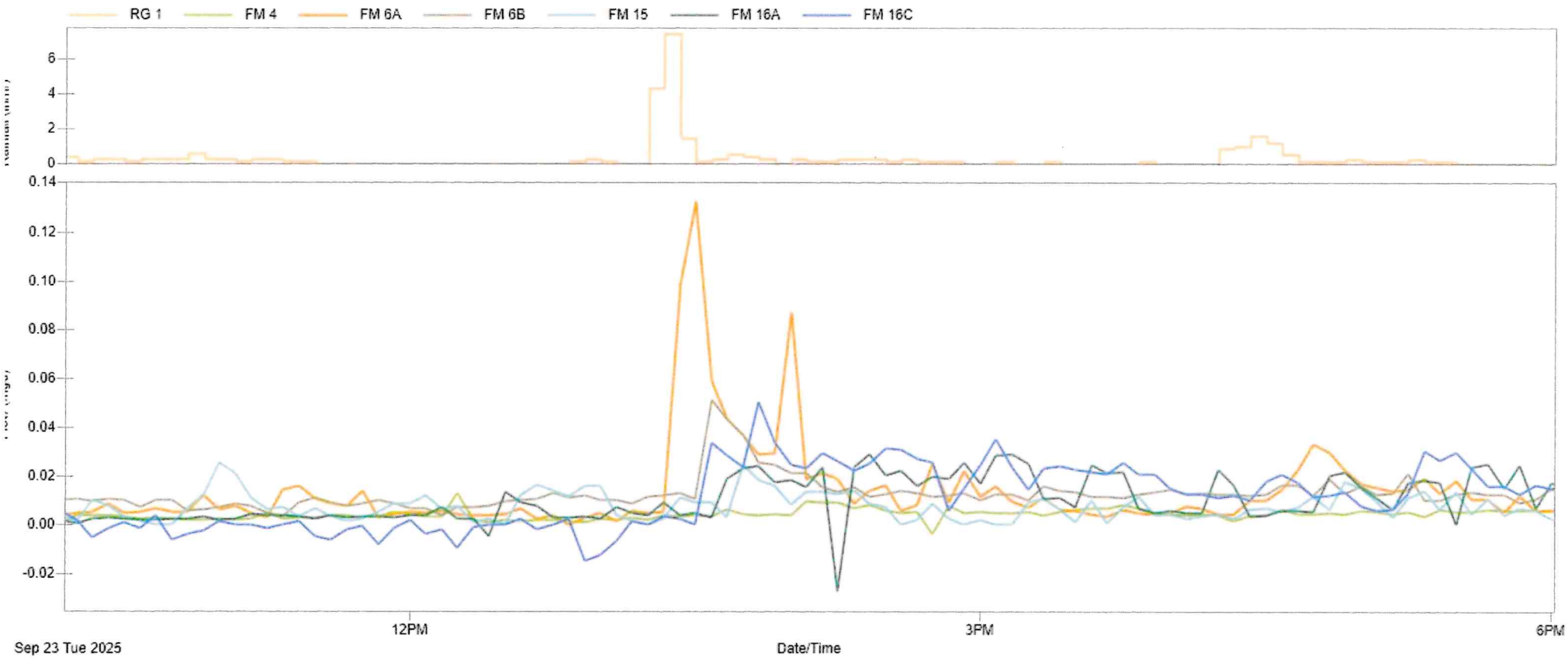
Hourly intensities of both storms were approximately a 1-yr storm



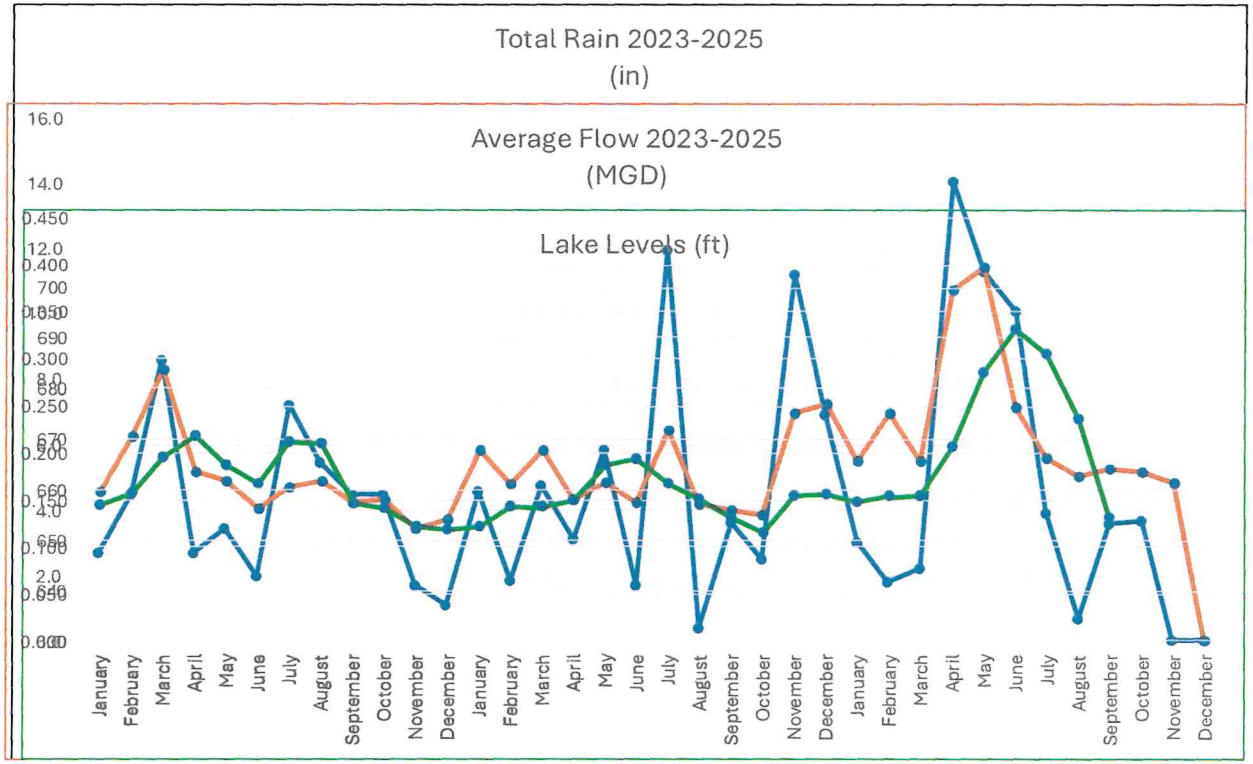
Flow meter Response to 6/28/25 Event



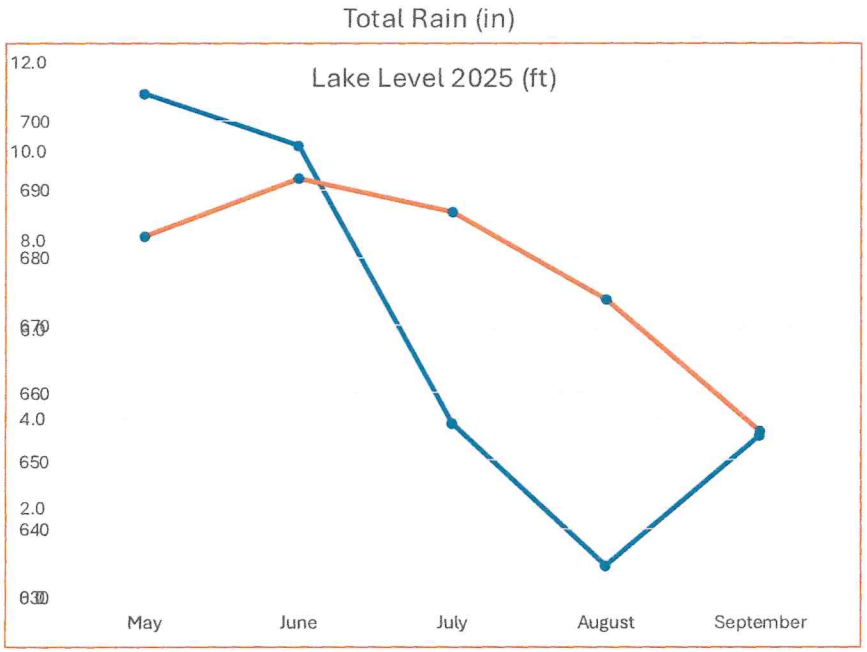
Flow meter Response to 9/23/25 Event

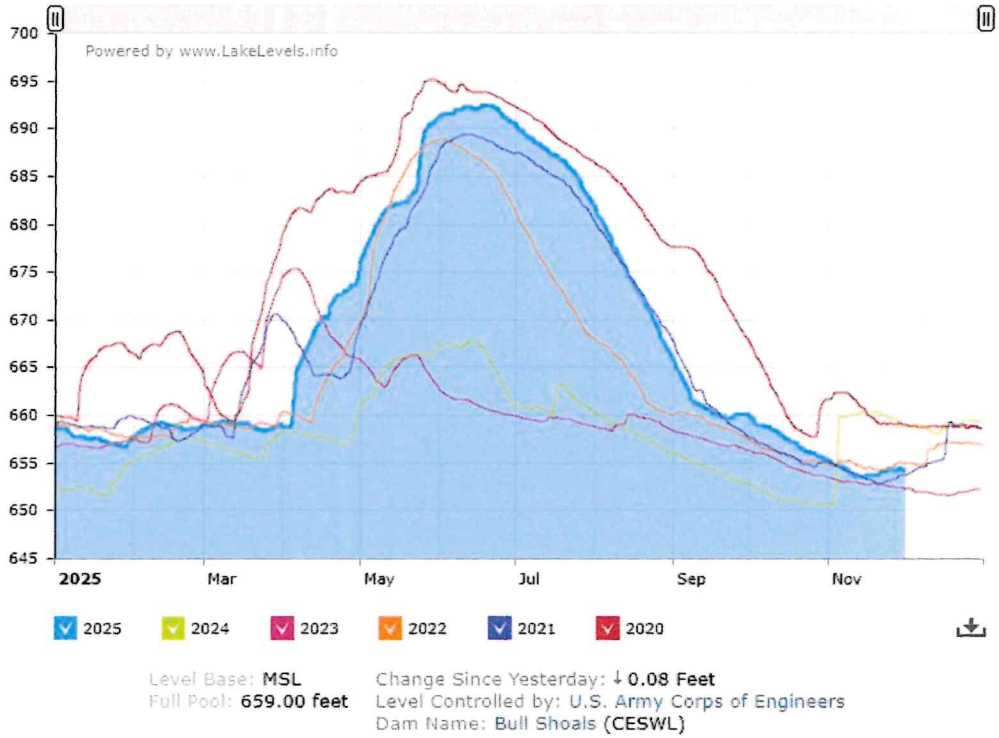


Treatment Plant Inflow



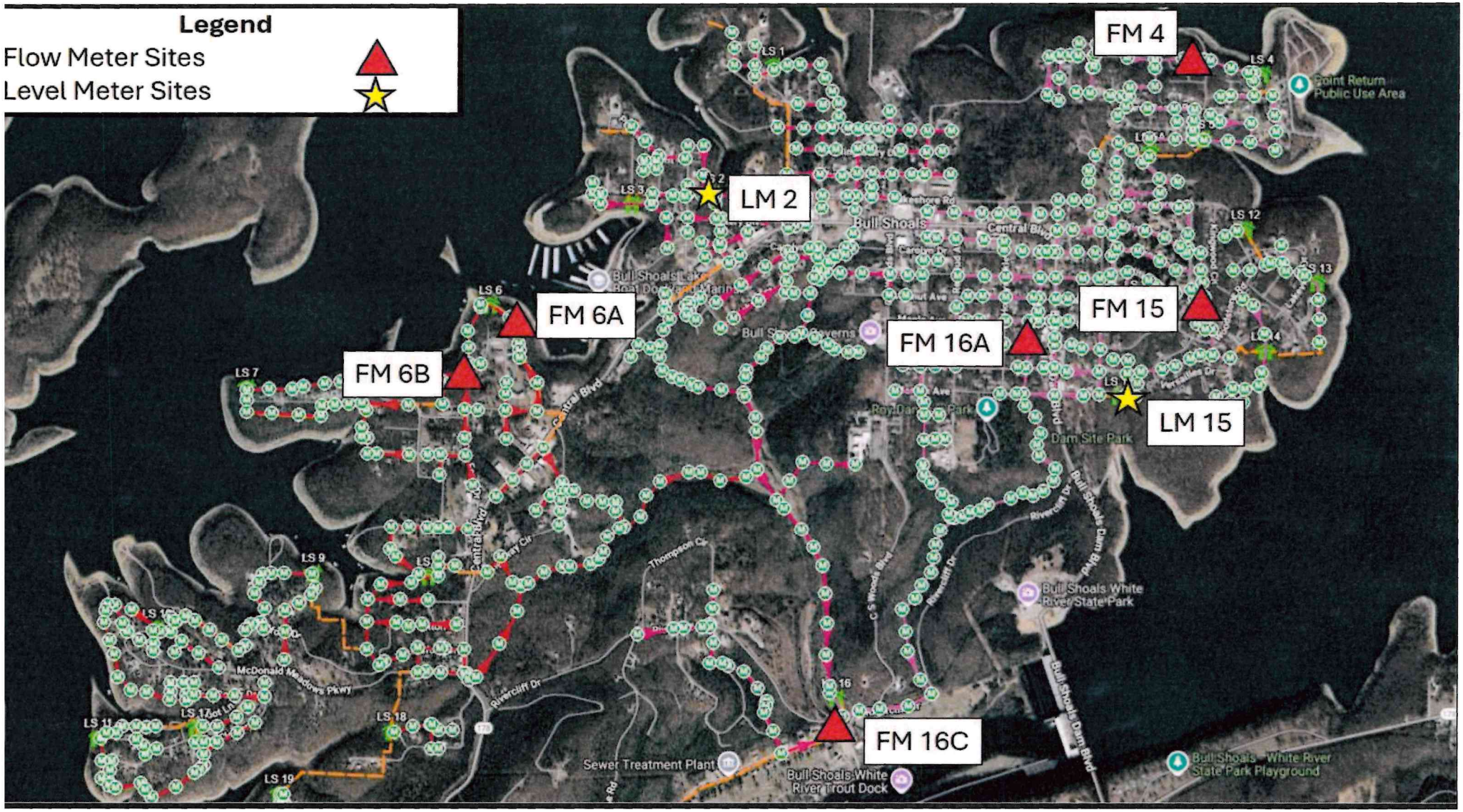
Lake Levels

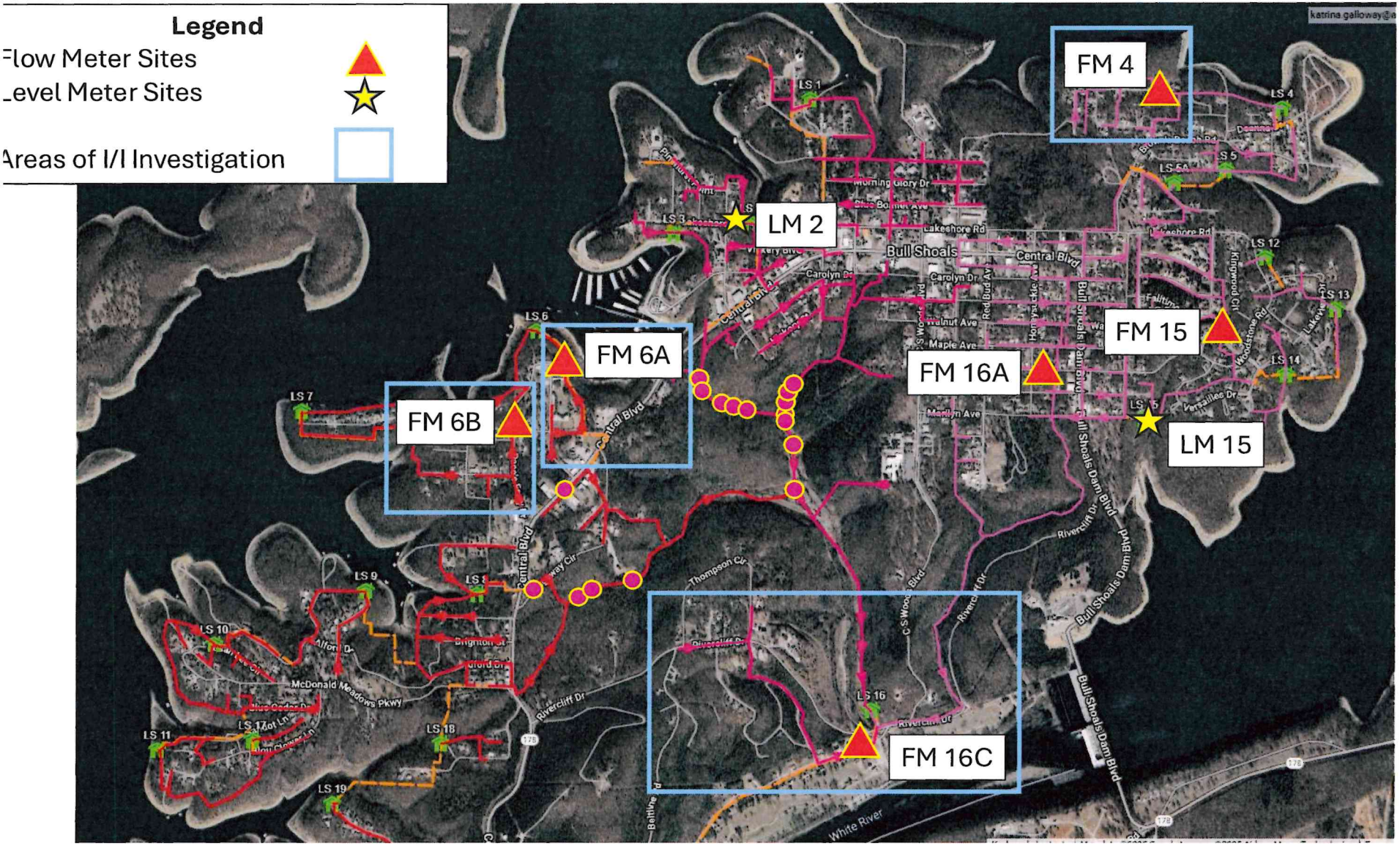


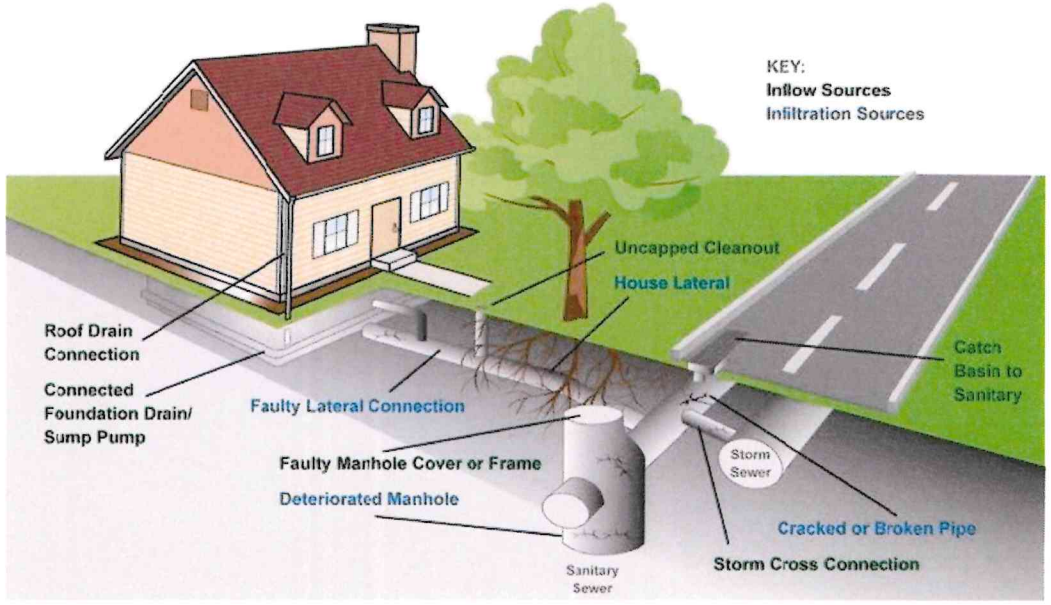


Bull Shoals Lake Water Level

Smoke Testing Defect Locations


Legend
Flow Meter Sites
Level Meter Sites
FM 4
LM 2
FM 6A
FM 6B
FM 16A
FM 15
LM 15
FM 16C
LS 1
LS 3
LS 4
LS 6
LS 7
LS 9
LS 11
LS 12
LS 13
LS 14
LS 16
LS 18
LS 19
Point Return Public Use Area
Bull Shoals
Central Blvd
Bull Shoals Lake Boat Dock and Marina
Bull Shoals Caverns
Roy Dam Park
Dam Site Park
Bull Shoals White River State Park
Bull Shoals Dam Blvd
Riverclift Dr
Thompson Cir
McDonald Meadows Pkwy
Sewer Treatment Plant
Bull Shoals White River Trout Dock
Bull Shoals White River State Park Playground


Legend
Flow Meter Sites
Level Meter Sites
Areas of I/I Investigation
FM 4
LM 2
FM 6A
FM 6B
FM 15
FM 16A
LM 15
FM 16C
Bull Shoals
Central Blvd
Lakeshore Rd
Carolyn Dr
Maple Ave
Walnut Ave
Red Bud Ave
Honeysuckle Ave
Bull Shoals Dam Blvd
Riverclift Dr
Thompson Cir
McDonald Meadows Pkwy
Brighton Ct
Alford Dr
Kingwood Cir
Woodstone Rd
Versailles Dr
Morning Glory Dr
White River
LS 1
LS 3
LS 4
LS 5
LS 6
LS 7
LS 9
LS 10
LS 11
LS 12
LS 13
LS 14
LS 16
LS 18
LS 19

Potential Factors Contributing to I/I

- Roof drains or downspouts connected to the sewer system
- Foundation drains tied into system
- Sump pumps discharging into sewer system
- Flooding near sewer structures