

A photograph of a flooded area, likely a parking lot or street, with buildings in the background. The water is murky and reflects the overcast sky. A blue starburst graphic is overlaid on the water.

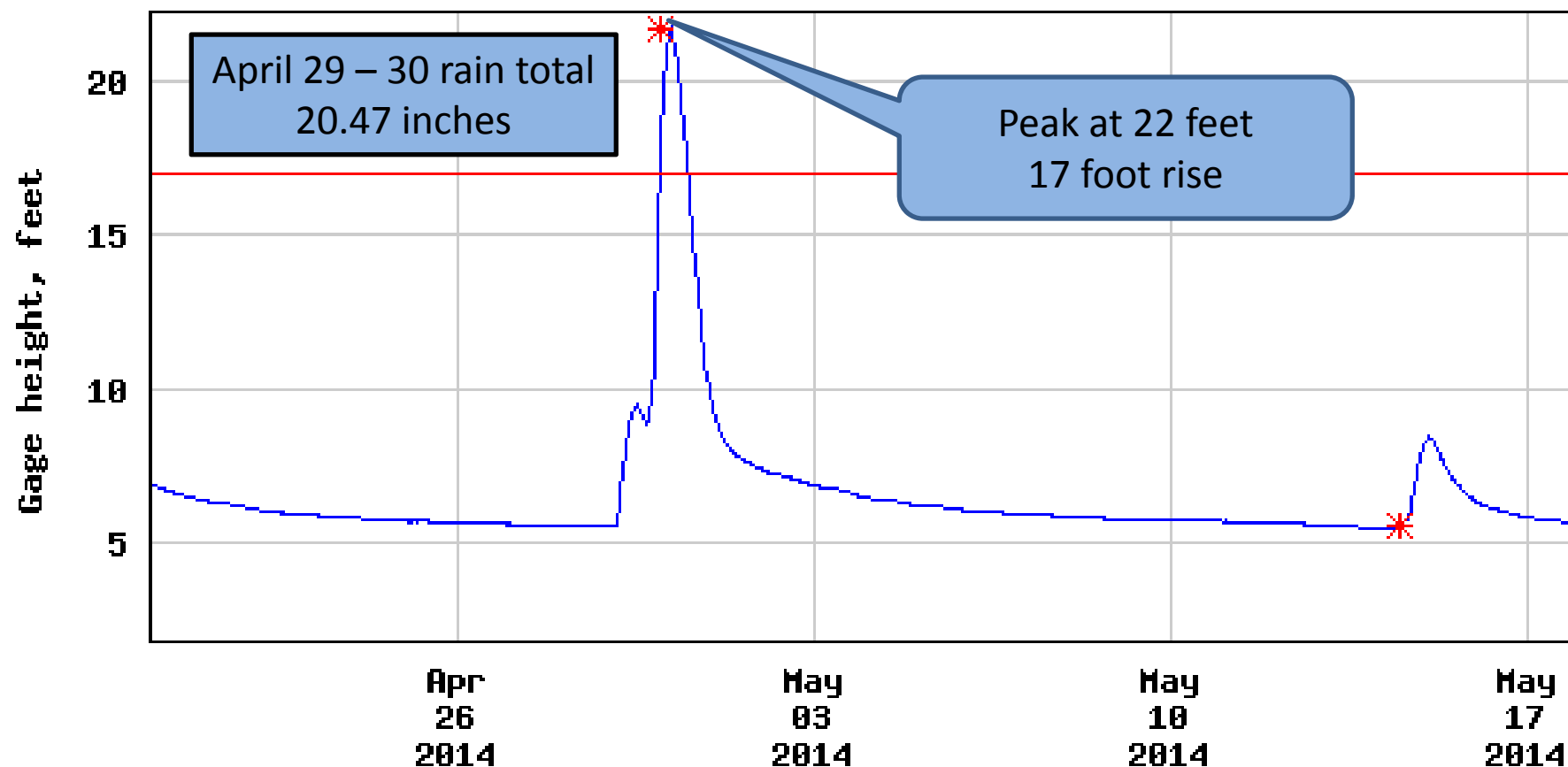
Bayou Chico Post Rain Event Sampling and November 17 Follow-up Sampling

COC April 30
2014

Escambia County Water Quality Land Management



USGS 02376115 ELEVENMILE CREEK NEAR PENSACOLA, FL.



----- Provisional Data Subject to Revision -----

- Gage height
- * Measured gage height
- 16.94 ft Peak Stage of Record (1998)



Station 33020118:
Jones Creek at Old Cory Rd.





E. Johnson
Ave.



Scenic
Highway



Sampling Team
(Mollie, Heather
and Matt)



ECUA Lift Station 112

A photograph of a coastal area featuring a concrete structure with a large crack, a body of water, and a building in the background. A red line points from the text box to a utility structure.



Grand Lagoon at Grand Lagoon Drive

A solid blue rectangular area with a black border containing the text.

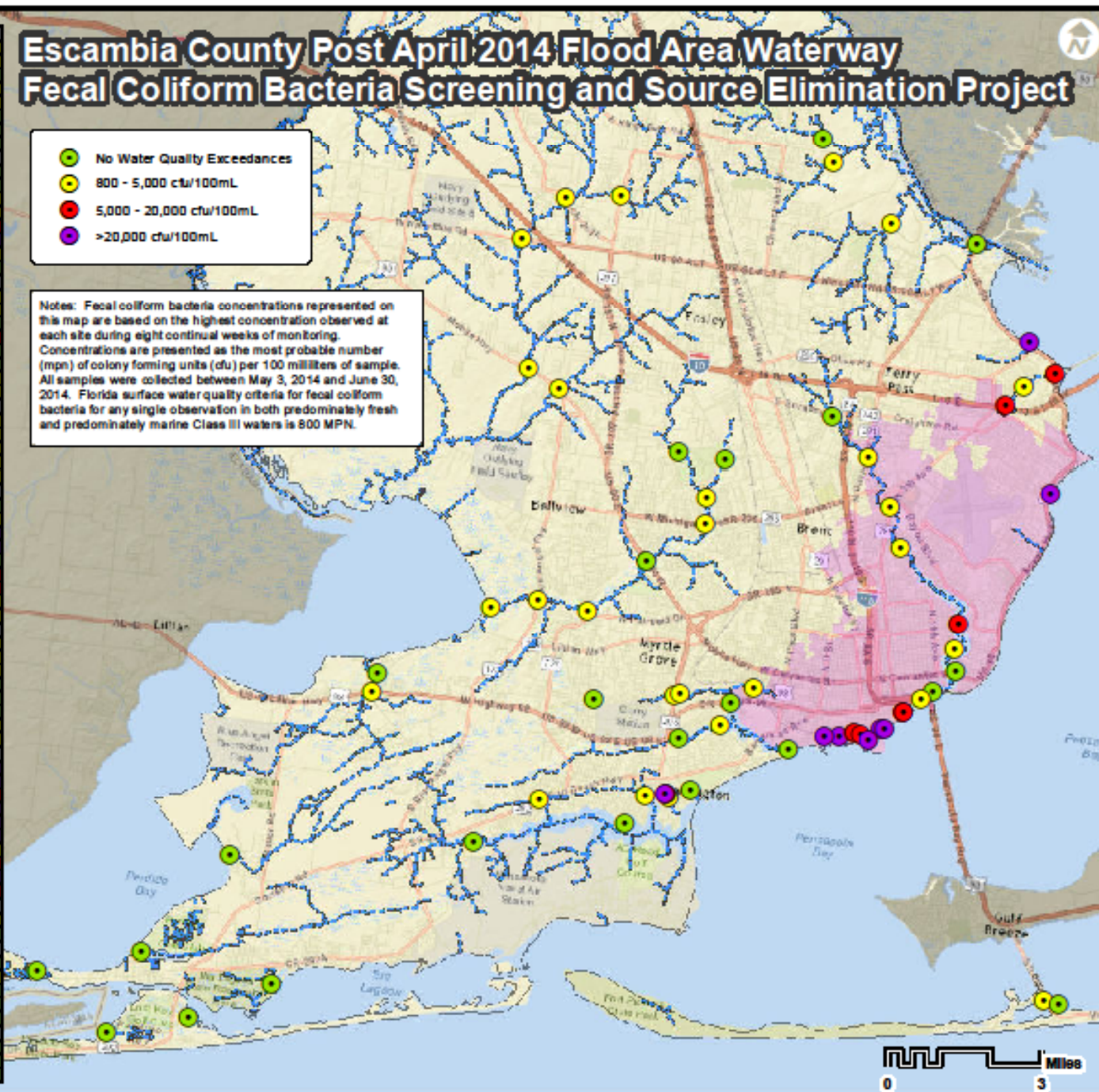


Escambia County Post April 2014 Flood Area Waterway Fecal Coliform Bacteria Screening and Source Elimination Project

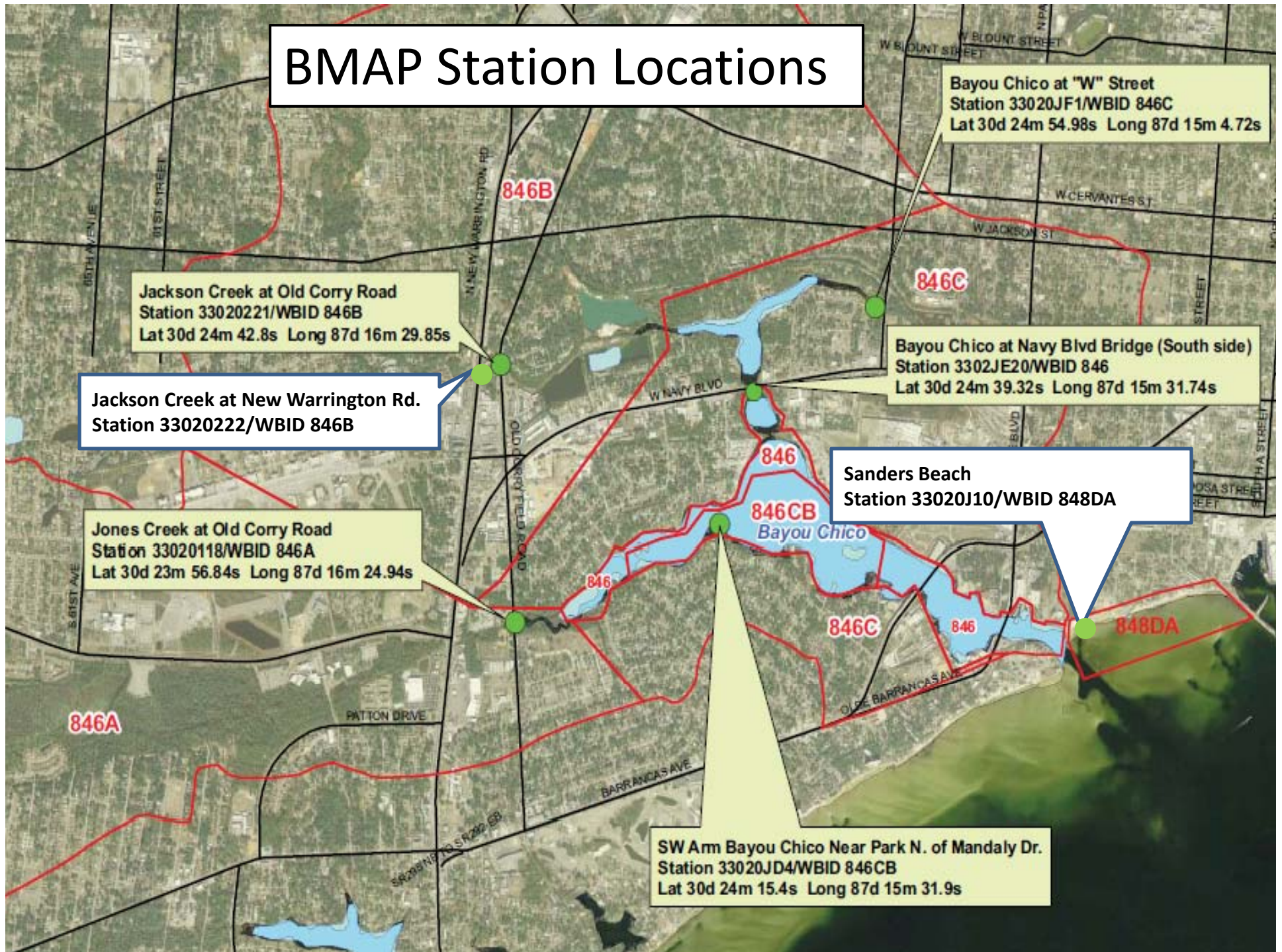
- No Water Quality Exceedances
- 800 - 5,000 cfu/100mL
- 5,000 - 20,000 cfu/100mL
- >20,000 cfu/100mL

Notes: Fecal coliform bacteria concentrations represented on this map are based on the highest concentration observed at each site during eight continual weeks of monitoring. Concentrations are presented as the most probable number (mpn) of colony forming units (cfu) per 100 milliliters of sample. All samples were collected between May 3, 2014 and June 30, 2014. Florida surface water quality criteria for fecal coliform bacteria for any single observation in both predominately fresh and predominately marine Class III waters is 800 MPN.

Bayou Chico
Bayou Chico @ NW Street
Bayou Chico @ Lake Wood Park
Bayou Chico @ Navy Blvd Bridge
Jackson Creek @ New Washington Road
Jackson Creek @ Old Carry Field Road
Jones Creek @ Old Carry Field Road
Lake Chalona @ Lake Chalona Loop
Sander's Beach
Bayou Grande & Adjacent Waterways
Bayou Grande @ Hill Johnson Park
Bayou Grande @ Gibbs Road
Bayou Grande @ Sunset Avenue
Bayou Grande @ Griffin Park
Deerport Bayou Drainage @ Second Street East
Deerport Bayou Drainage @ Second Street West
Solder's Creek @ Gulf Beach Highway
Star Lake
Bayou Texar
Bayou Texar @ 12th Avenue
Bayou Texar @ Bayview Park
Bayou Texar @ Conventas Bridge Boat Ramp
Bayou Texar @ Hyde Park Road
Bayou Texar @ Railroad Truss
Carpenter's Creek @ Burgess Road
Carpenter's Creek @ Davis Highway
Carpenter's Creek @ North Avenue
Eleven Mile Creek & Tributaries
Eight Mile Creek @ Mobile Highway
Eleven Mile Creek @ Highway 207A
Eleven Mile Creek @ Mobile Highway
Eleven Mile Creek @ Nine Mile Road
Ten Mile Creek @ Pine Forest Road
Escambia Bay / Lower Escambia River & Tributaries
Clear Creek North @ Robinson Mill SD
Clear Creek South @ Highland Downs SD
Escambia Bay @ Chalmers Park Outfall
Escambia Bay Drainage @ Cypress Point
Escambia River @ Smith's Fish Camp
Greenyard Branch @ I-10
Greenyard Branch @ Scenic Highway
Greenyard Branch @ Trade Winds Drive
Thompson Bayou @ UWP West
Marcus Creek & Bayou
Bayou Marcus @ End of La Paz Street
Crescent Lake @ Blue Springs Avenue
Marcus Creek @ Blue Angel Parkway
Marcus Creek @ Highway 90
Marcus Creek @ Marcus Point Blvd East
Marcus Creek @ Marcus Point Blvd West
Marcus Creek @ Michigan Avenue
Marcus Creek @ Patricia Drive
Panacola Bay Outfalls
1st Street & Grindle Street Outfalls
Alcantar Street Outfall
Baylen Street Outfall
Barca Street Outfall
Coyle Street Outfall
Jefferson Street Outfall
Project Greenhollows Outfall
Romana Street Outfall East
Romana Street Outfall West
Spring Street Outfall
Panacola Beach
Big Seals @ Panacola Beach Marine
Gulf Water Beach Dock
Panacola Bay Bayous
Bayou Garcon off Gorman Road
Heron Bayou Drainage @ Heron Villa Lane
Heron Bayou @ Ullian Hwy
Kees Bayou @ Innerarity Point Road Causeway
Weekly Bayou @ Meadon Point
Panacola Key & Big Lagoon
Grande Lagoon Drainage @ Grande Lagoon Drive
Panacola Key Drainage @ River Road
Siguenza Cove @ Siguenza Drive

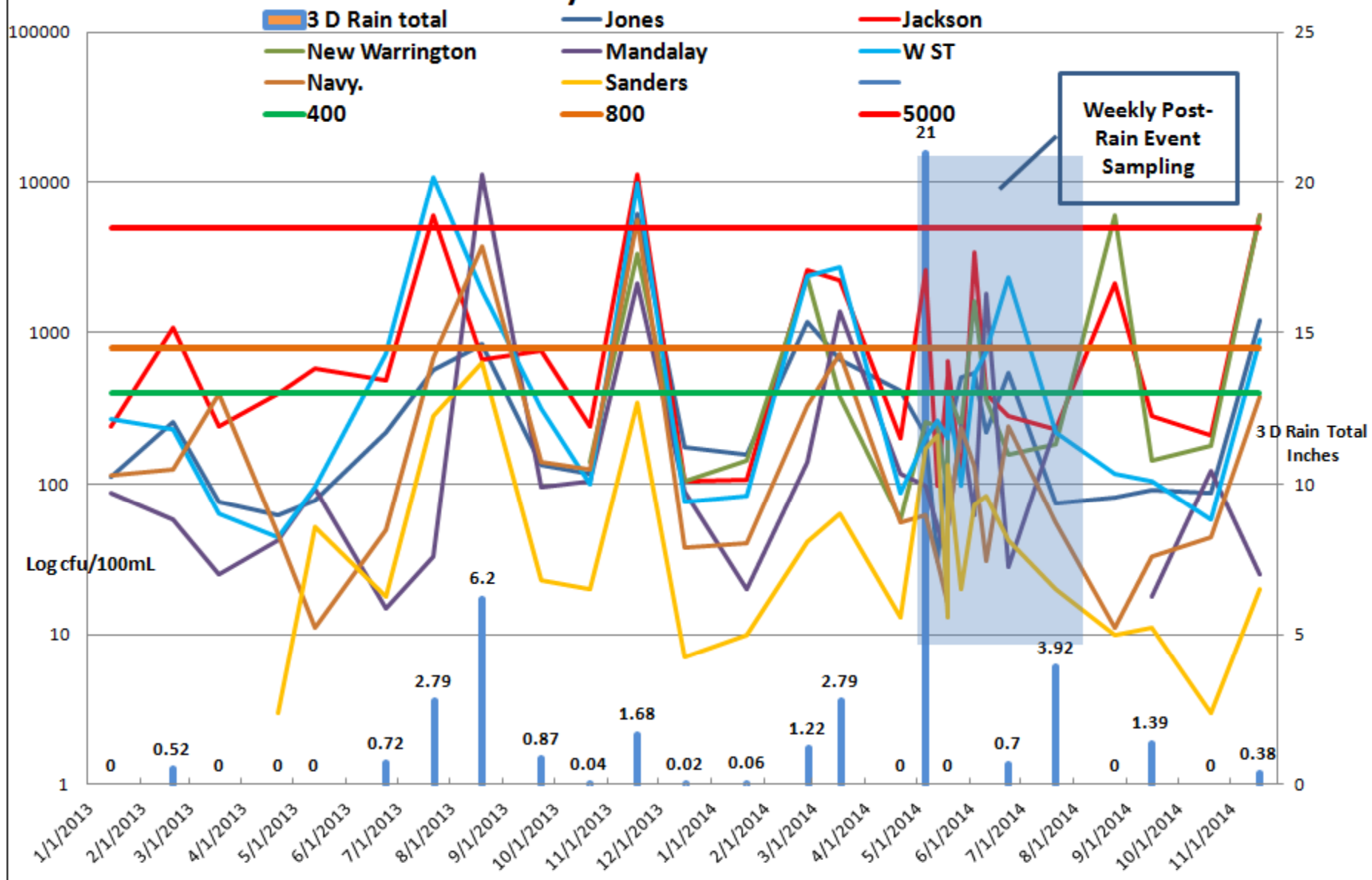


BMAP Station Locations

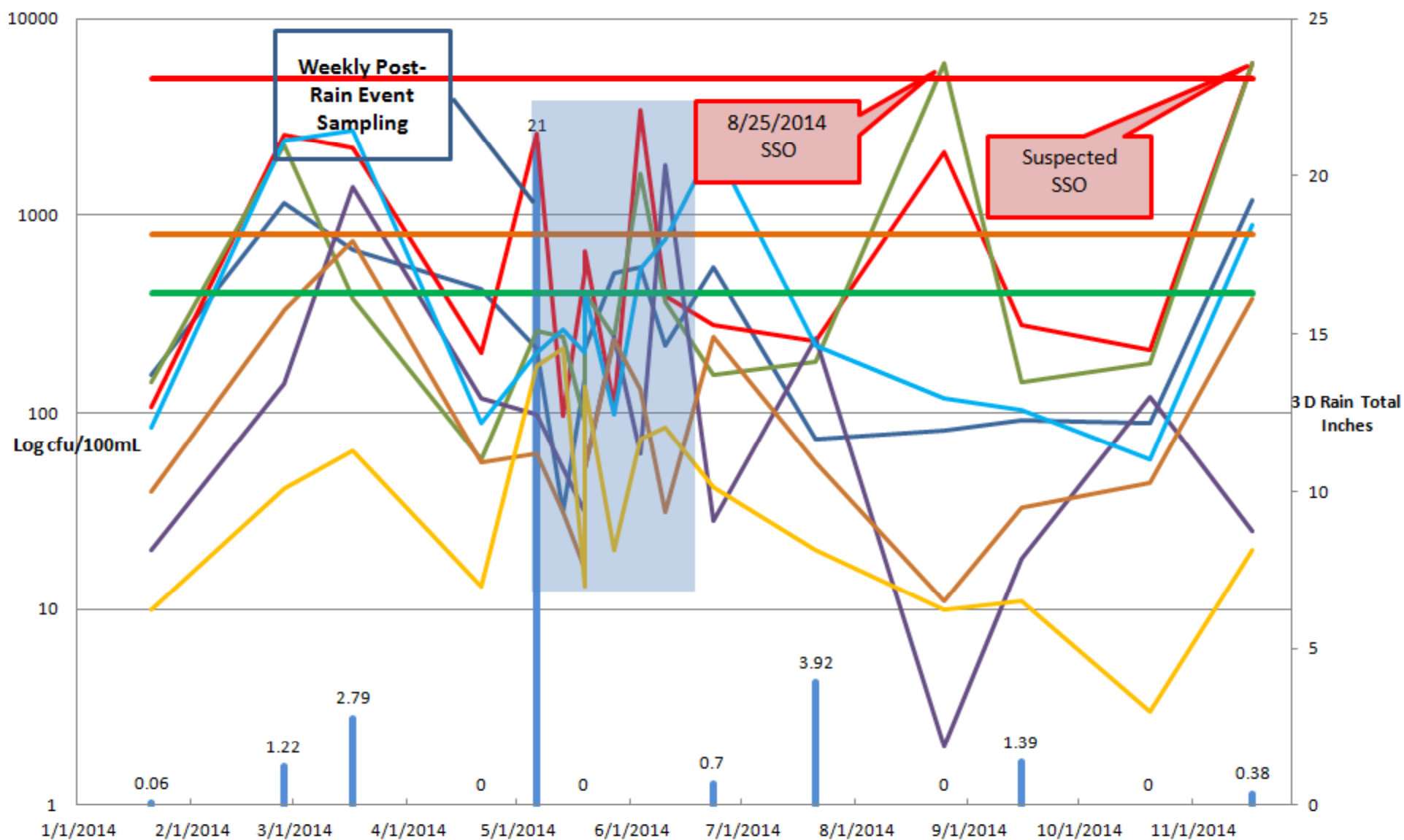


Fecal Coliform and Rain in Bayou Chico

January 2013 - November 2014



Fecal Coliform and Rain in Bayou Chico January 2014 - November 2014



Bayou Chico Fecal Coliform 2014 (24 Percent > 400)

					Post Rain Event Sampling												
	Jan 21	Feb 26	Mar 17	Apr 21	May 6	May 13	May 19	May 19	May 27	Jun 3	Jun 10	Jun 23	Jul 21	Aug 25	Sep 15	Oct 20	Nov 17
Jones Creek at Old Cory Rd.	157	1164	664	420	211	31	152	213	504	546	218	540	74	82	92	88	1191
Jackson at Old Cory Rd.	108	2600	2200	200	2613	97	520	657	108	3448	393	280	230	2100	280	210	6000
Jackson at New Warrington Rd.	144	2300	380	58	259	243	90	408	243	1616	364	157	182	6000	143	180	6000
Mandalay	20	140	1382	118	98	52	31	52	243	62	1793	28	240	2 (ND)	18	121	25
"W" Street	84	2400	2700	88	201	265	200	404	98	537	754	2300	220	118	104	58	900
Navy Blvd.	40	330	736	56	62	31	16	52	235	132	31	243	56	11	33	44	380
Sanders Beach	10	41	64	13	173	213	13	135	20	73	84	42	20	10	11	3	20
3 D Rain	0.06	1.22	2.79	0	21	0	0	0	0	0	0	0.7	3.92	0	1.39	0	0
No Violation	400 - 800		800 - 5000		5000 - 20000												

Suspected
SSO
Follow- up Investigation

SSO

Conclusions:

- Highest post event value May 6th, 2613 cfu/100mL Jackson Creek at Old Cory Rd.
- Weekly post-event data were well within the range of pre-event data.
- Sanitary sewer infrastructure survived with little damage contributing minimal fecal coliform loading to the basin.

Follow-up Sampling from Nov. 17

- Jackson Creek at Old Cory Rd. (33020221) :
>6000 cfu/100mL (downstream)
- Jackson Creek at New Warrington Rd. (33020222):
>20,000 cfu/100mL (upstream)
- Conduct “follow-up” sampling when results exceed
5,000 cfu/100mL
- No “known” events *reported*



Jackson Creek at New Warrington Rd.
Station 33020222

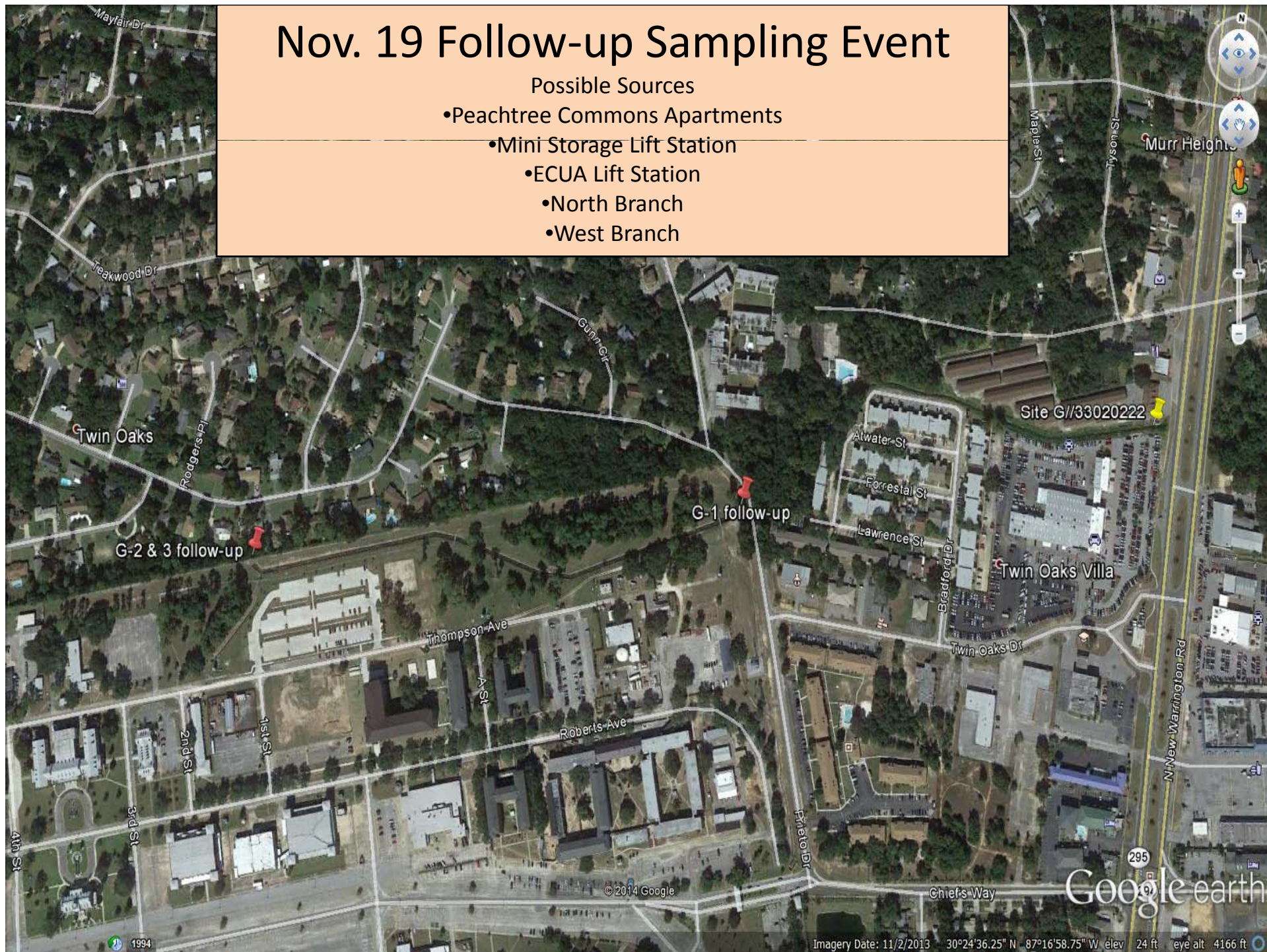
Jackson Creek at Old Cory Rd.
Station 33020221

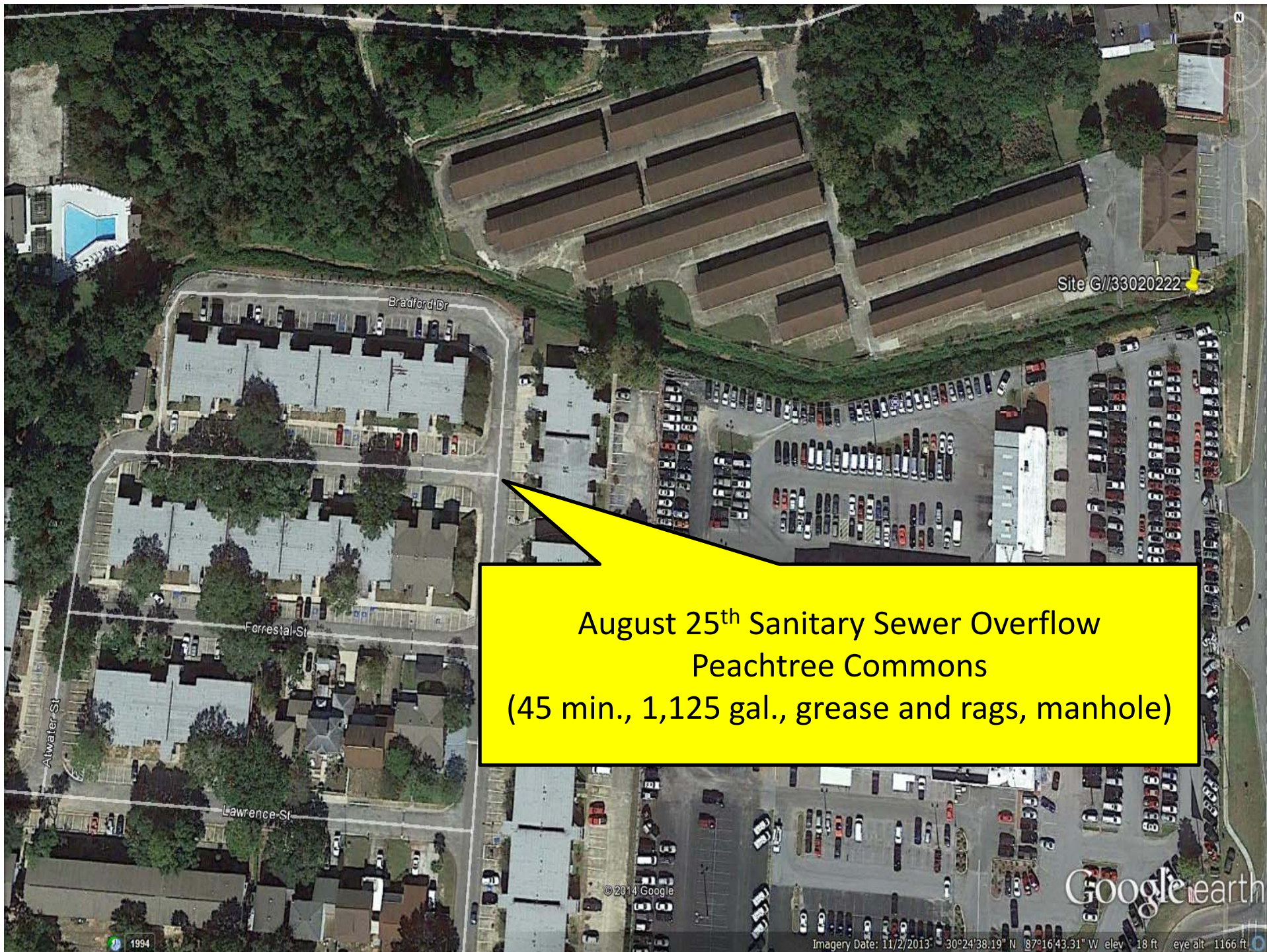


Nov. 19 Follow-up Sampling Event

Possible Sources

- Peachtree Commons Apartments
- Mini Storage Lift Station
- ECUA Lift Station
 - North Branch
 - West Branch





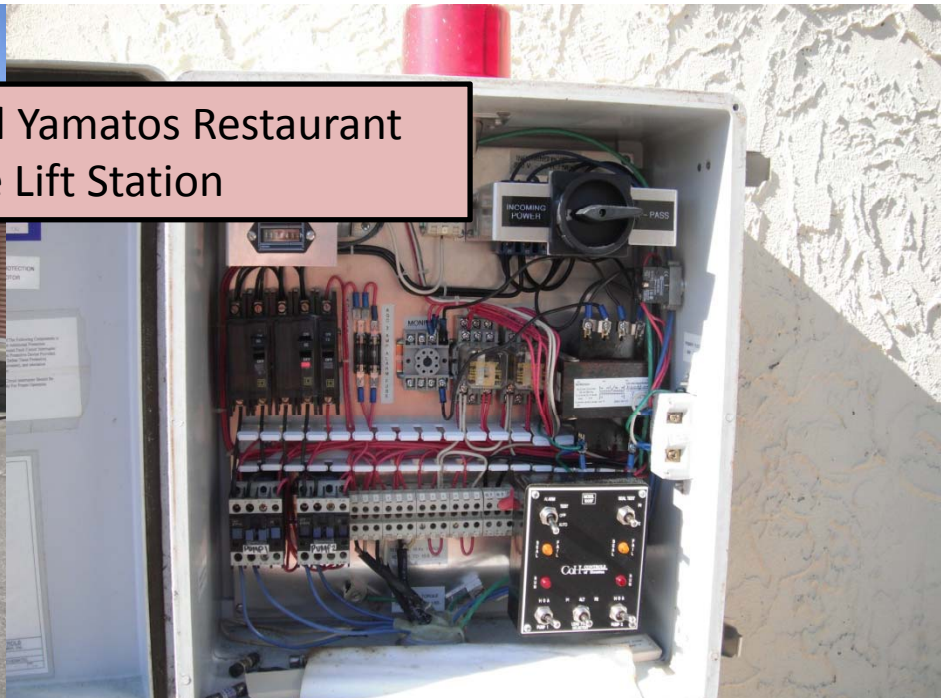
August 25th Sanitary Sewer Overflow
Peachtree Commons
(45 min., 1,125 gal., grease and rags, manhole)

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Google Earth

Imagery Date: 11/2/2013 30°24'38.19" N 87°16'43.31" W elev 18 ft eye alt 1166 ft

Ministorage and Yamatos Restaurant
Private Lift Station





ECUA LS 128 at Prieto Dr.
and Redwood Circle



Unknown pipe

Jackson Creek North
Branch DRY

G-1 follow-up

© 2014 Google

Google earth

Imagery Date: 11/2/2013 30°24'37.92" N 87°16'56.18" W elev 25 ft eye alt 965 ft

Jackson Creek North Branch at Prieto Dr.



Nov. 19 Follow-up Sampling Event

Site G1
11/19: 648 cfu/100mL

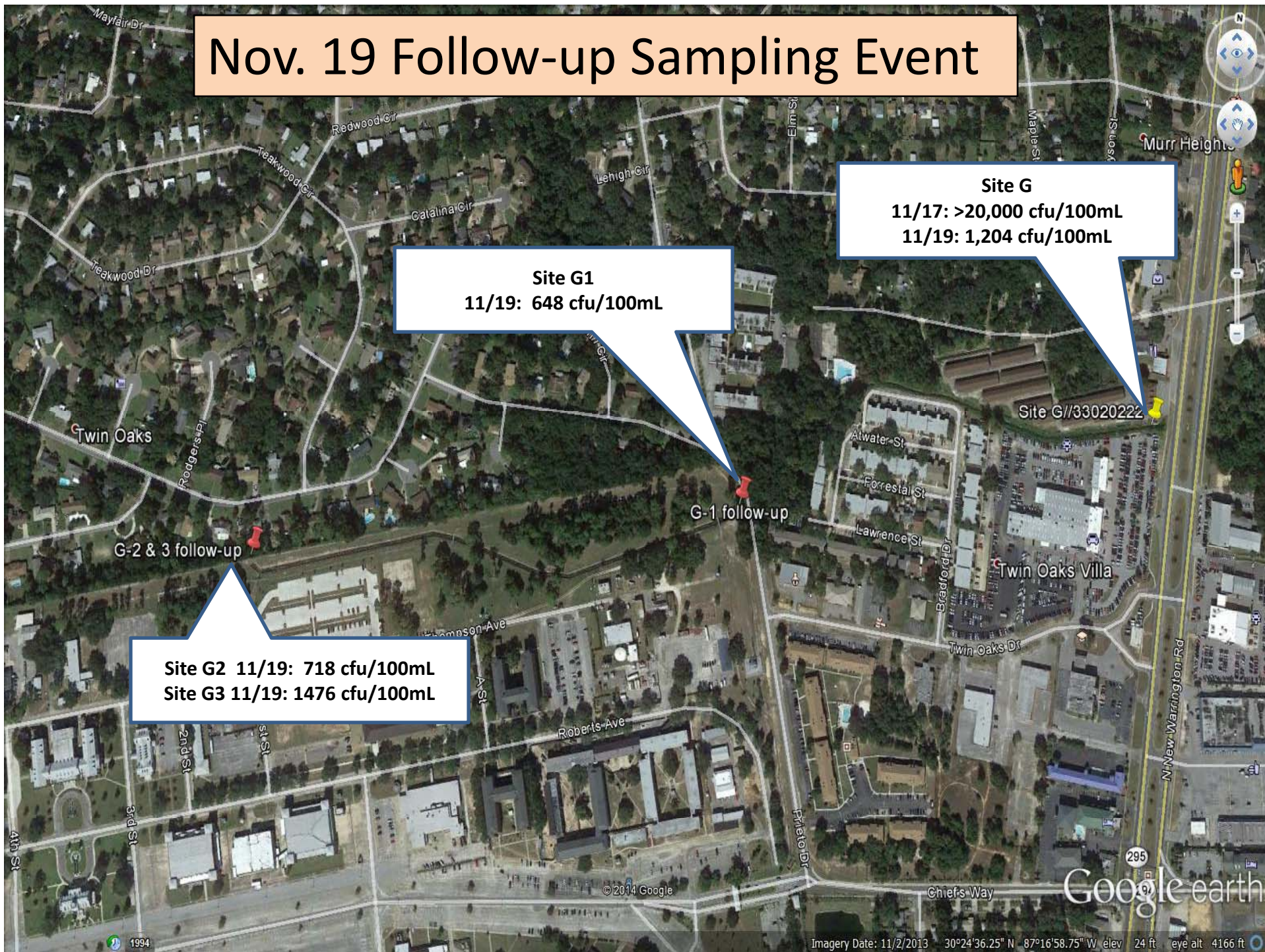
Site G
11/17: >20,000 cfu/100mL
11/19: 1,204 cfu/100mL

Site G2 11/19: 718 cfu/100mL
Site G3 11/19: 1476 cfu/100mL

Site G//33020222

G-1 follow-up

G-2 & 3 follow-up





Jackson Creek West Branch at Prieto Dr. and Cory Field

G-2 & 3 follow-up

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Google Earth

Imagery Date: 11/2/2013 30°24'33.34" N 87°17'15.53" W elev 24 ft eye alt 9

1994



Source????

- Undetermined at this time
- Continued sampling
- Walk the WBID effort