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Butcher Pen Source Tracking

- observed white residue in parking lot of ^{crystal} ~~cedar~~ river seafood near Butcher Pen @ wesconett
 - 30.2603759, -81.7401655
 - high tide @ 0918 per NOAA
 - slack tide w/ ^{much} ~~many~~ litter around
 - observation @ 0920
 - ~~here~~
- homeless camp observed between wesconett & Blanding
- JEA lift station → grate next to station
 - 30.2599945, -81.7421651 @ Fender + Arthur Durham
 - observed flow within grate, ^{foam +} white unknown surface observed
 - strong sewage odor
 - observed water flow in direction of creek
- discovery of tributary ^{ditch} to Butcher Pen
 - stormwater conveyance @ ^{Arthur} Durham Dr
 - 30.2605731, -81.7421902
 - lots of algae, very shallow, lots of Fe fixing bacteria, sand bottom no sewage smell, stormwater input

sample

BP1

Site name: Stormwater grate @ lift
Station

description: @ lift #N522 4451 Fender
Dr

time: 1005

sample depth 0.005

temp: 18.7

total depth: 0.005

DO %: 100.4

sal (ppt): 0.001

mg/L: 9.36

pH: 7.85

SPC: 10.1

secchi: VOB

* flow in grate not deep enough
to sample ^{pro accurately}. probes may have
been exposed

sample

BP2

Site: ditch @ Arthur Durham

time 1032

sample depth: 0.01

temp: 19.2

total depth: 0.01

DO %: 97.4

sal ppt: 0.19

mg/L: 8.98

pH: 7.35

SPC: 389.3

secchi: VOB

obs.

Butcher Pen behind 777

30.2588978, - 81.7244 7420189

Shallow, clear ~~water~~ flowing

converges w/ stormwater
under Blanding. litter

around sand bottom. evidence
of previous homeless camp. little

fixing bacteria

30.25842, -81.74243

coordinates off Google

obs Homeless camp observed

- living in car behind 777

+ shack
- people present

sample BP3

name: Butcher Pen downstream
of car camp

time: 1115

secchi: VOB

30.2589241, -81.7419515

temp: 18.0

sample depth: 0.015

DO%: 52.6

total depth: 0.03

mg/L: 4.98

sal (ppt): 0.18

SPC: 384.6

pH: 7.36

Drove behind sour apple, couldn't
get behind landing bear +
line X. no trespassing + dog
signs on Nazworth blocking
access to Butcher Pen Crk.

RQ-2021-04-05-69

20030082

sample name: Butcher Pen @ Confederate ~~bridge~~

name: ~~western~~ time: 1216

lat/long: 30.264590 * 2 ecolis +18321
-81.734333

temp: 23.1

sal (ppt): 4.08

DO%: 107.9

pH: 7.78

mg/L: 9.03

secchi: VOB

SPC: 7212

sample depth: 0.16 m

total depth: 0.35 m

BMAP RQ-2021-04-05-44

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observations downstream of
Confederate along apt complex

- observed dog poop
- encountered several
muscovy ducks along stream
- canada geese
- observed sunken hole in
ground (30.2662014, -81.7331210)
- lots of trash & litter on banks
- doggie poo bag collection point
@ dog walking area
- normal storm drains observed
in complex & parking lots

BMAP RQ-2021-04-05-44

Tracking RQ-2021-04-05-69

sample

name: Butcher Pen @ Wesconnett

WIN: 20030760

~~5~~ Lat / Long: 30.259961, -81.739879

Time: 1240

sal (ppt): 0.17

DO %: 60.7

pH: 7.40

mg/L: 5.60

secchi: VOB

Temp: 18.2

total

spc: 356.7

depth: 1.03m

sample depth: 0.3

* 2 ecoli + 1 8321

tide: high 0918

low 1544