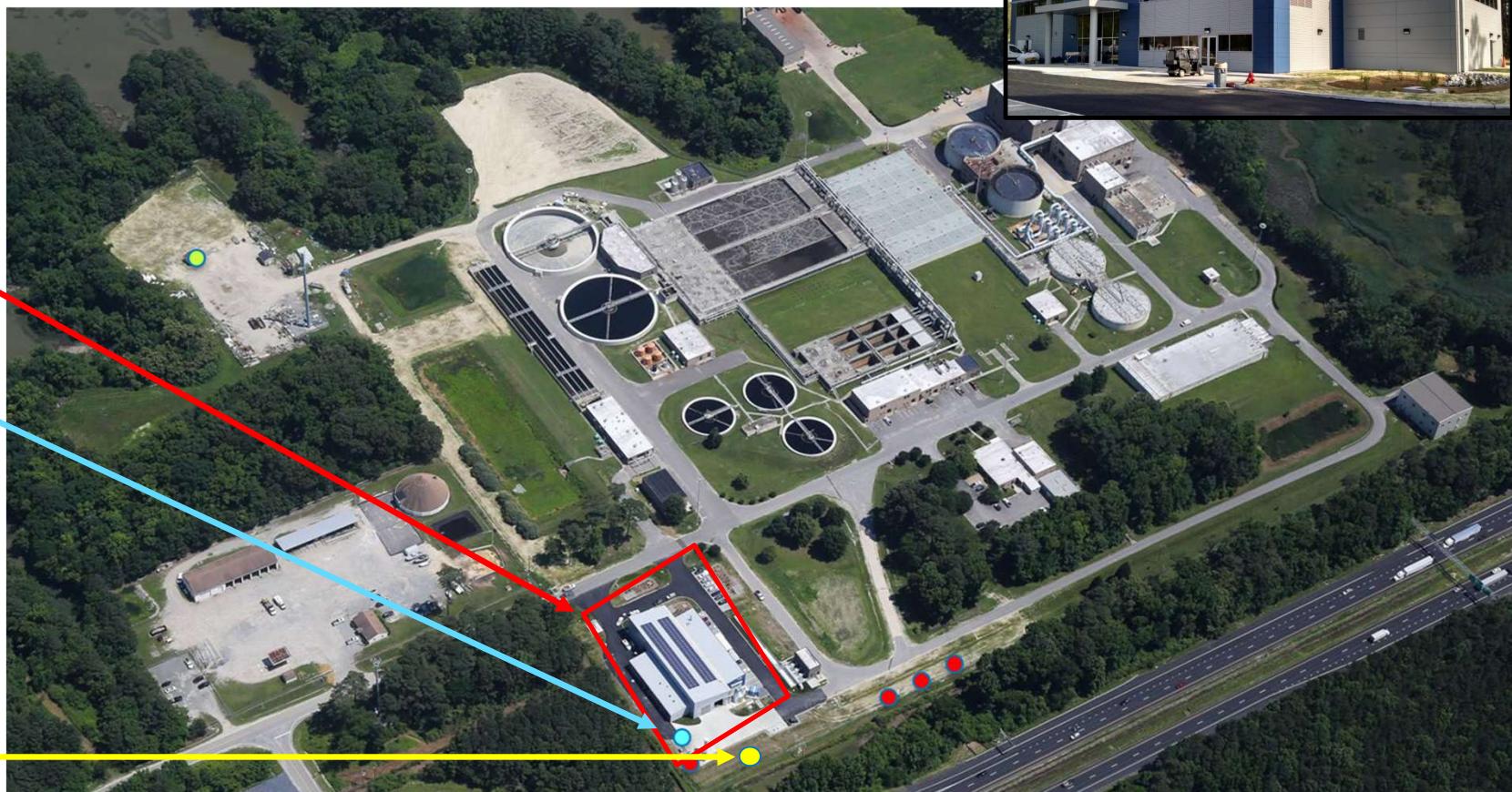




NP_MAR_01 Update

Potomac Aquifer Recharge
Oversight Committee
December 12, 2022

SWIFT Research Center

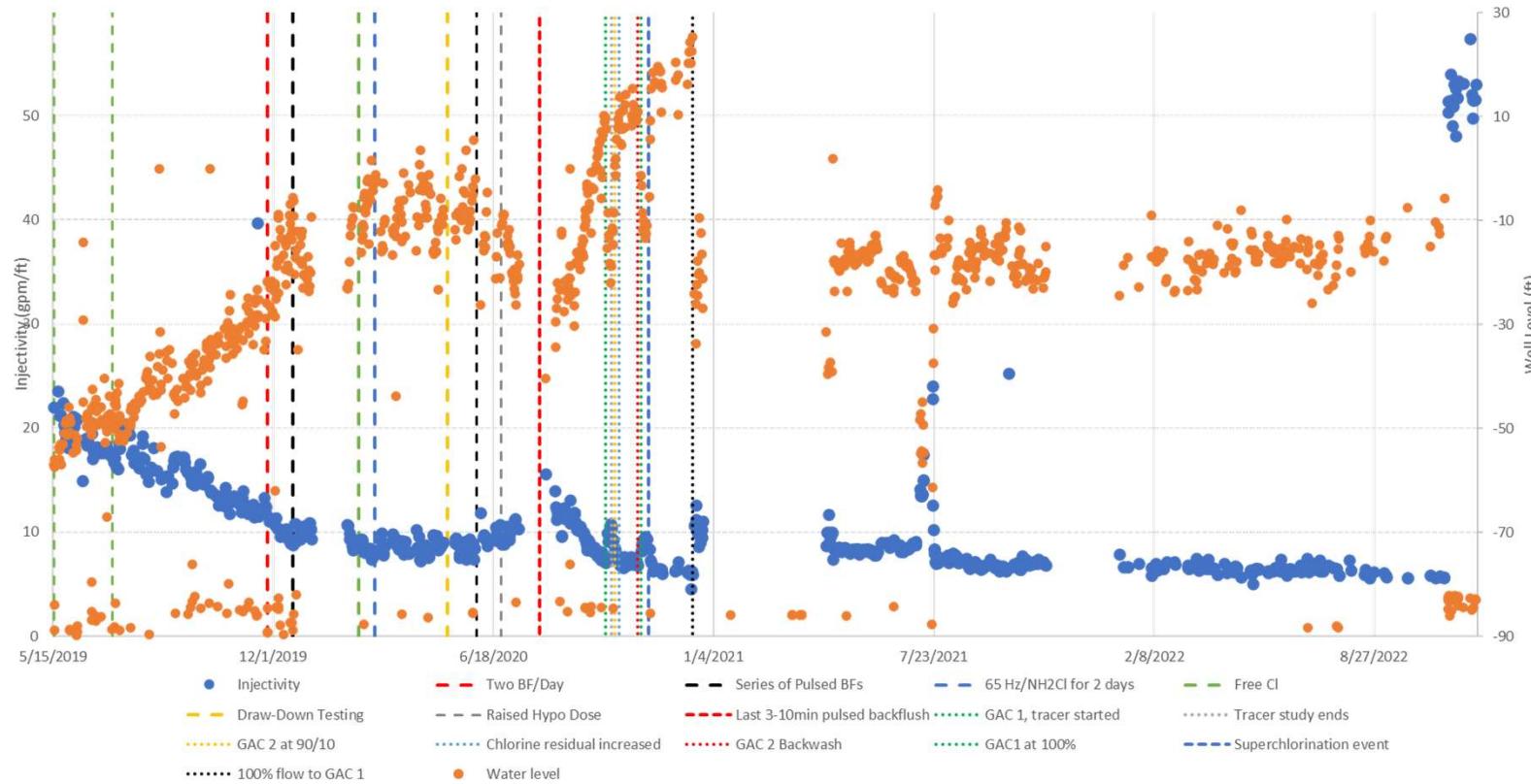


Nansemond SWIFT Research Center Wells

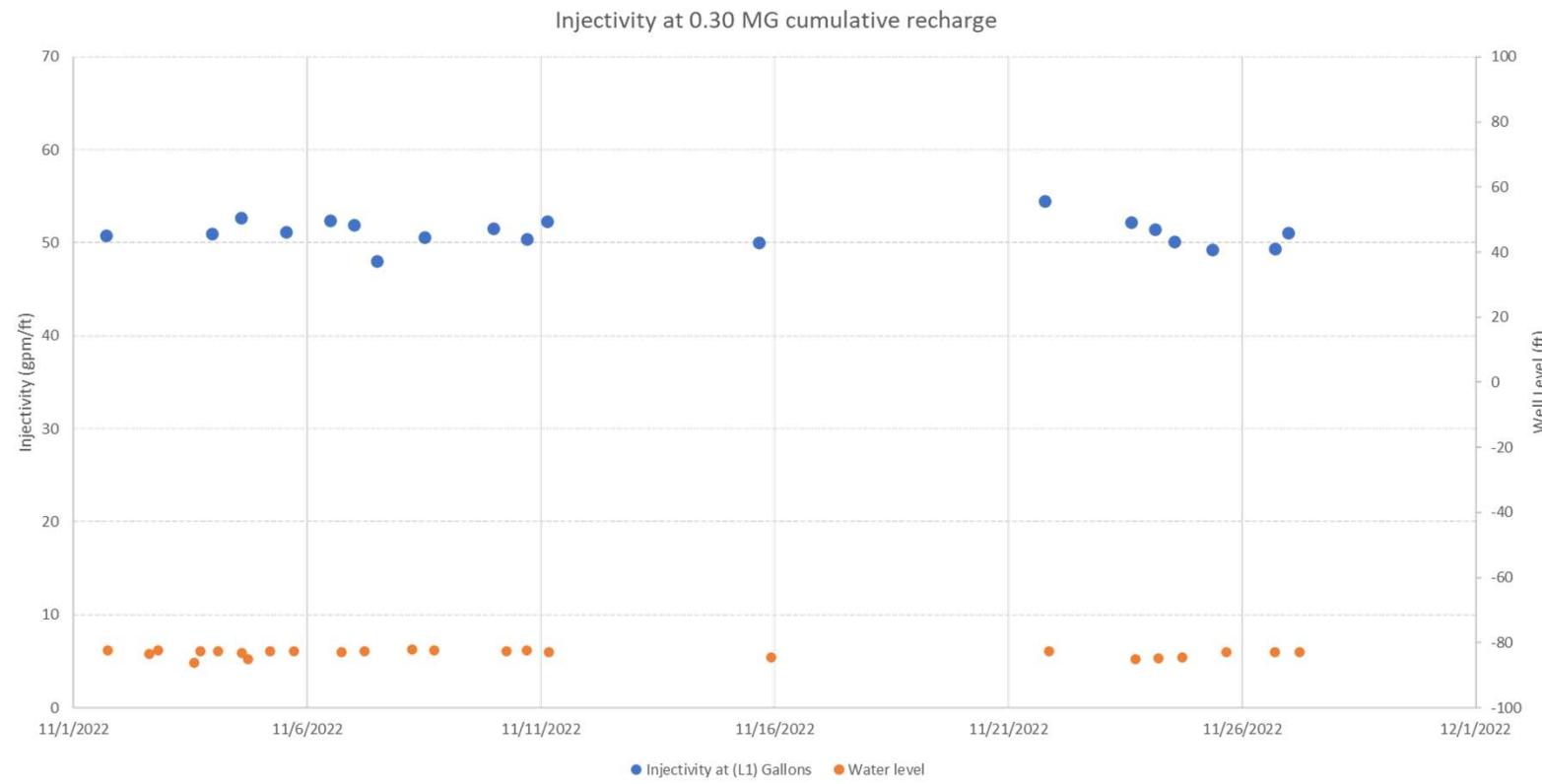


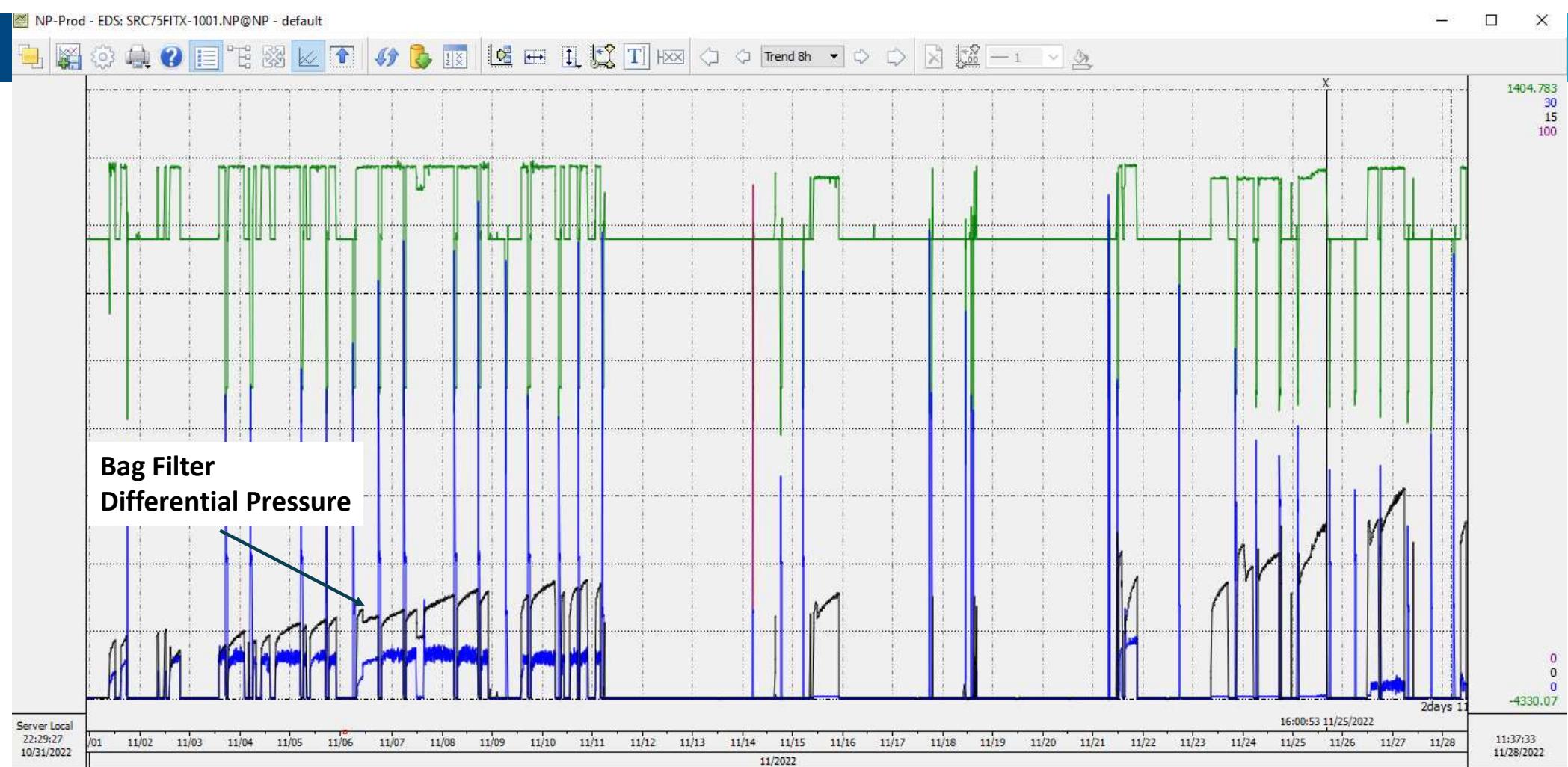
Specific Injectivity TW-1 and NP_MAR_01

Injectivity at 0.30 MG cumulative recharge



Specific Injectivity NP_MAR_01



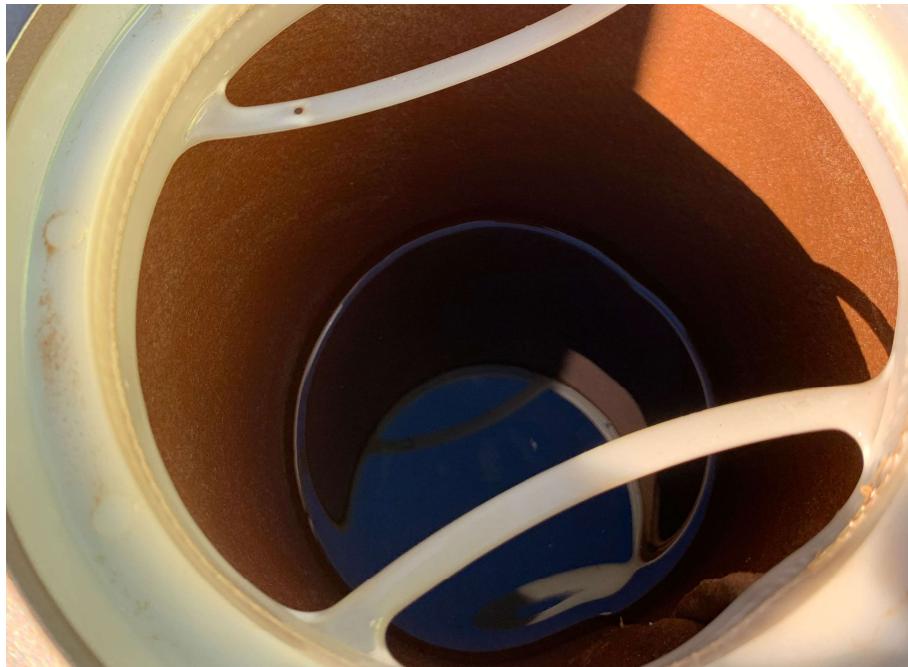


Point List											0H	X
ESS	Description	Unit	IDCS	Source	Value	Max	Min	Hair	Show alias			
<input checked="" type="checkbox"/> SRC75FITX-1001.NP@NP	MAR - AQ WELL FLOWMETER	GPM	SRC75FITX-1001	NP	-0.183315G	730.865	-2203.86	638.4212G	<input type="checkbox"/>			
<input checked="" type="checkbox"/> SRC75PITX-1002.NP@NP	MAR - AQ WELL RECHARGE PSI TRANSMITTER	PSI	SRC75PITX-1002	NP	0.00610337G	25.3125	-0.154114	0.1379972G	<input type="checkbox"/>			
<input checked="" type="checkbox"/> SRC75PDX75-1001.NP@NP	MAR - AQ FILTER VESSEL DPSI TRANSMITTER	PSI	SRC75PDX75-1001	NP	0.01281752G	5.18097	-0.0283813	4.316337G	<input type="checkbox"/>			
<input type="checkbox"/> SRC79PITX0101.NP@NP	GAC PS COM PSI	PSI	SRC79PITX0101	NP	20.20416G	56.6116	-0.608826	23.18908G	<input type="checkbox"/>			



Wellhead Filtration





Filter bags within a few weeks of operation

Sustainable Water Initiative for Tomorrow

NP_MAR_01 performance compared to TW-1

- TW-1
 - Initial SI Recharge @ 700 gpm **23 gpm/ft**
 - Current SI Recharge @ 450 gpm **8 gpm/ft**
- NP_MAR_01 (post ACH treatment)
 - Recharge @ 490 gpm SI **54 gpm/ft**
 - Recharge @ 700 gpm SI **51 gpm/ft**

