

4 February 2019



Jamie Johnson
Project Manager

Priya Yadav, P.E.
Project Manager
U.S. Nuclear Regulatory Commission
Low-Level Waste Branch
Division of Decommissioning, Uranium Recovery, and Waste Programs
Office of Nuclear Material Safety and Safeguards
Washington, DC 20555-0001

Dear Ms. Yadav,

On behalf of the Army, Leidos is submitting the attached data package of the U.S. Geological Survey (USGS) streamflow information to assist with the review of the Source Materials License No. SUC-1593, Docket 040-09083 amendment request dated September 30, 2019 (ML19281C345). USGS streamflow information is unavailable within watersheds and/or water features for several of the Environmental Radiation Monitoring (ERM) sample locations. In these instances, regional USGS streamflow information near the installation has been provided, except for Pohakuloa Training Area (TA), Hawaii. No surface water features are located within or near Pohakuloa TA, and USGS streamflow information is unavailable near Pohakuloa TA.

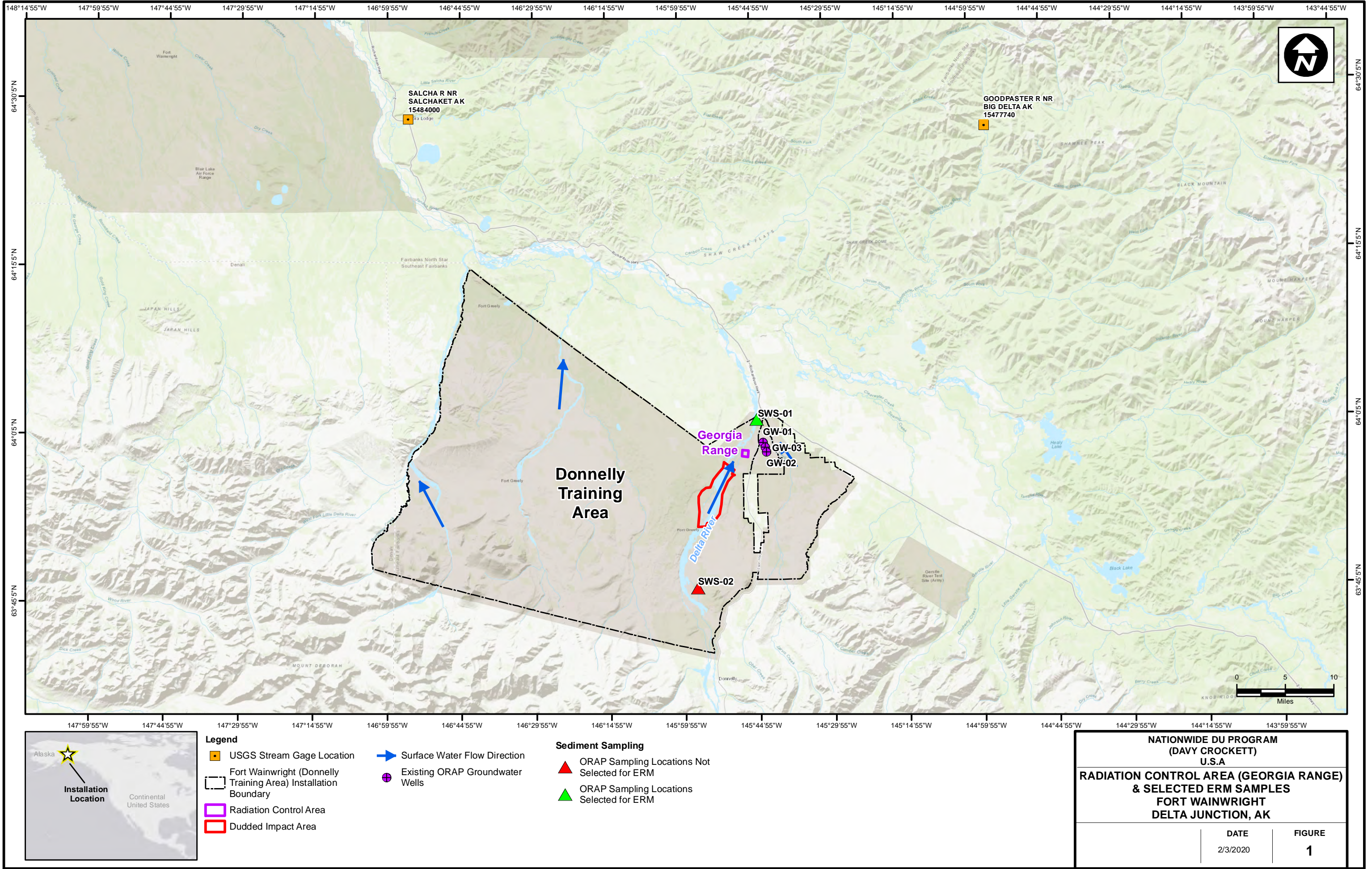
Additional discussion on the physical environment and hydrologic conditions of each installation and the ERM sampling locations has been provided in the Programmatic Approach for Preparation of Site-Specific Environmental Radiation Plans and the accompanying Annexes 1-19 submitted with the license amendment request dated September 30, 2019 (ML19281C345). In addition, conditions observed during each ERM sampling event in 2017 and 2018 has been provided in the *Radiation Monitoring Report, Summary of Results for Summer, Fall, and Winter 2017 Sampling Events for Materials License SUC-1593, Docket No. 040-09083* (ML18136A796) and *Radiation Monitoring Report, Summary of Results for 2018 Sampling Events for Materials License SUC-1593, Docket No. 040-09083* (ML19115A040).

Please contact Dr. Robert Cherry at (210) 466-0368, e-mail address: robert.n.cherry.civ@mail.mil if you have any questions.

Sincerely,

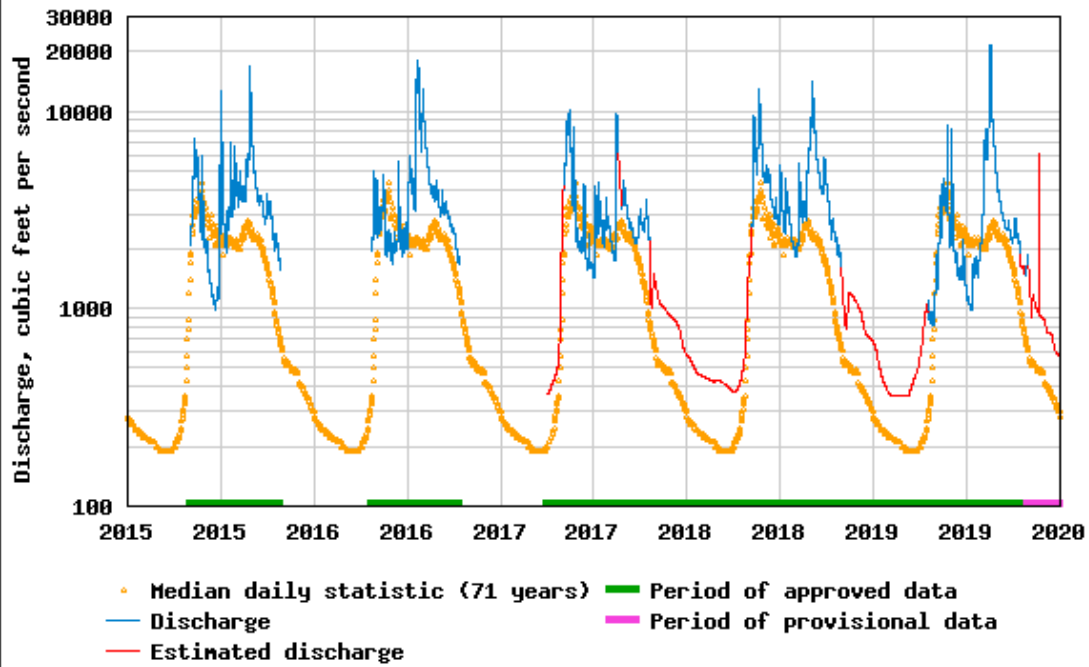
A handwritten signature in black ink that reads "Jamie Johnson". The signature is written in a cursive, flowing style.

Jamie Johnson
Project Manager

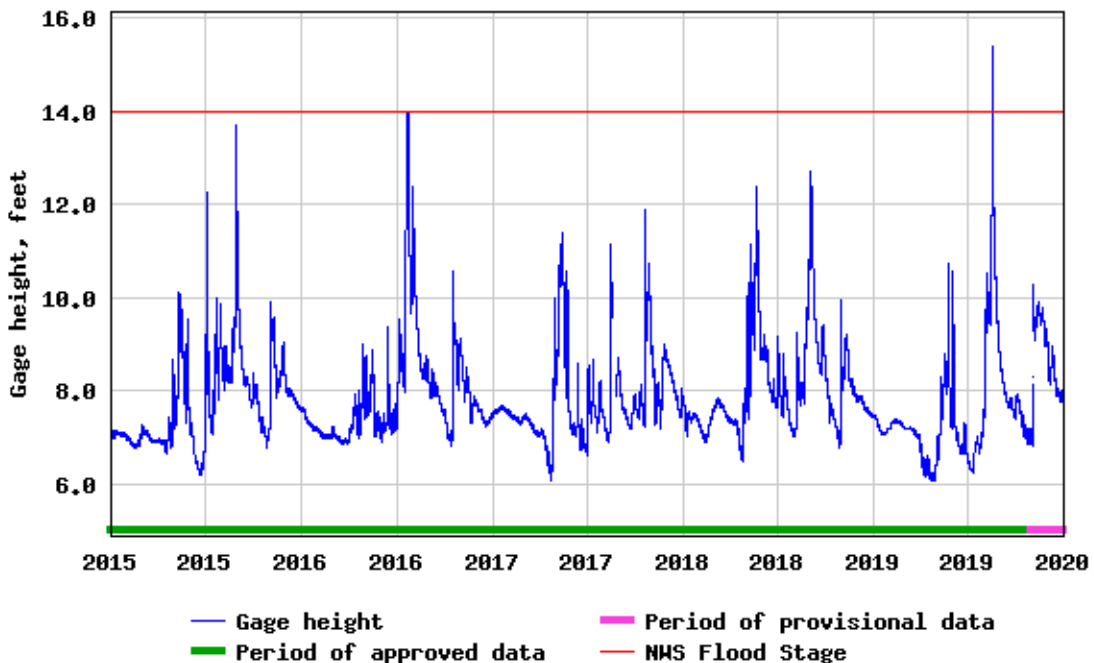




USGS 15484000 SALCHA R NR SALCHAKET AK



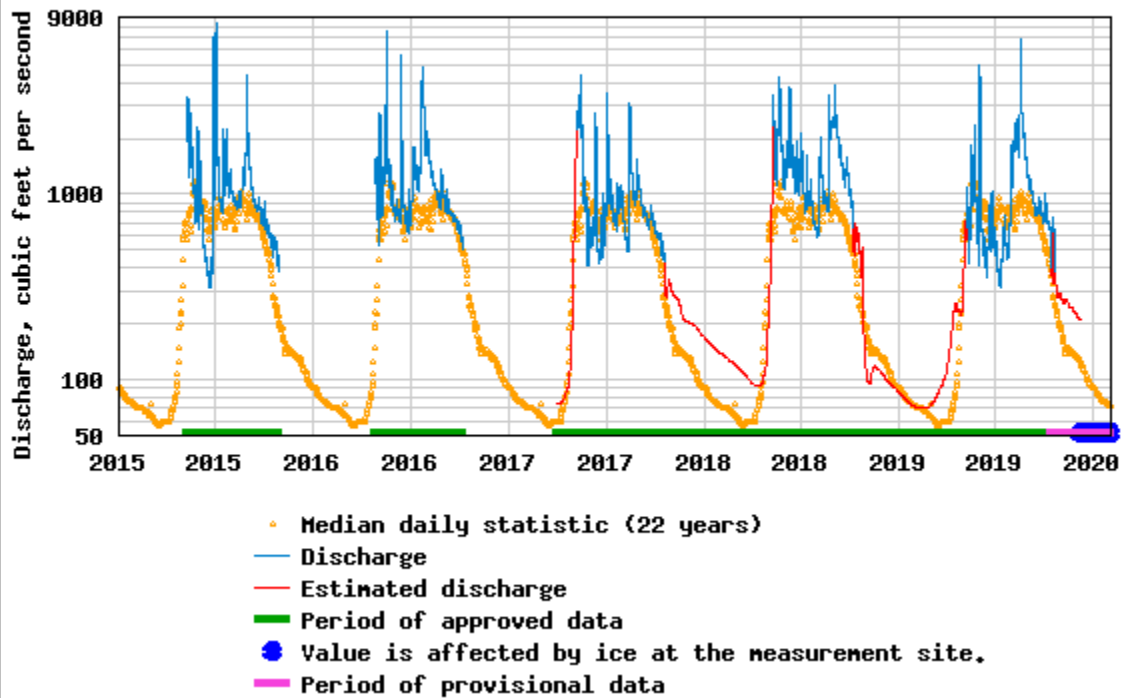
USGS 15484000 SALCHA R NR SALCHAKET AK



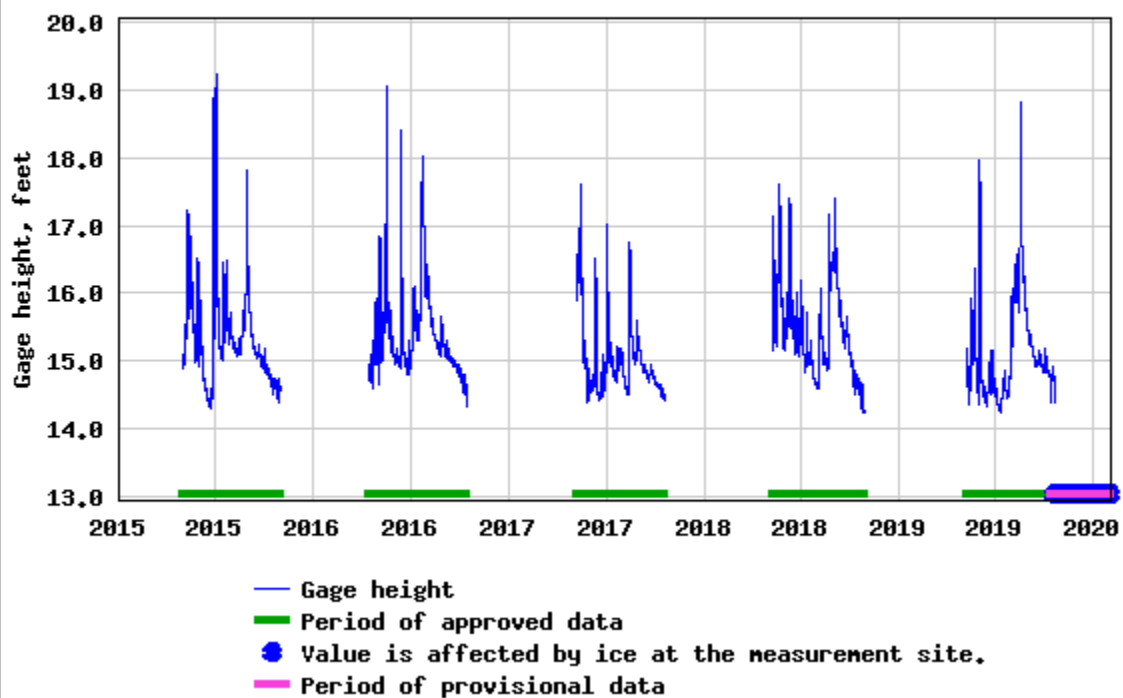
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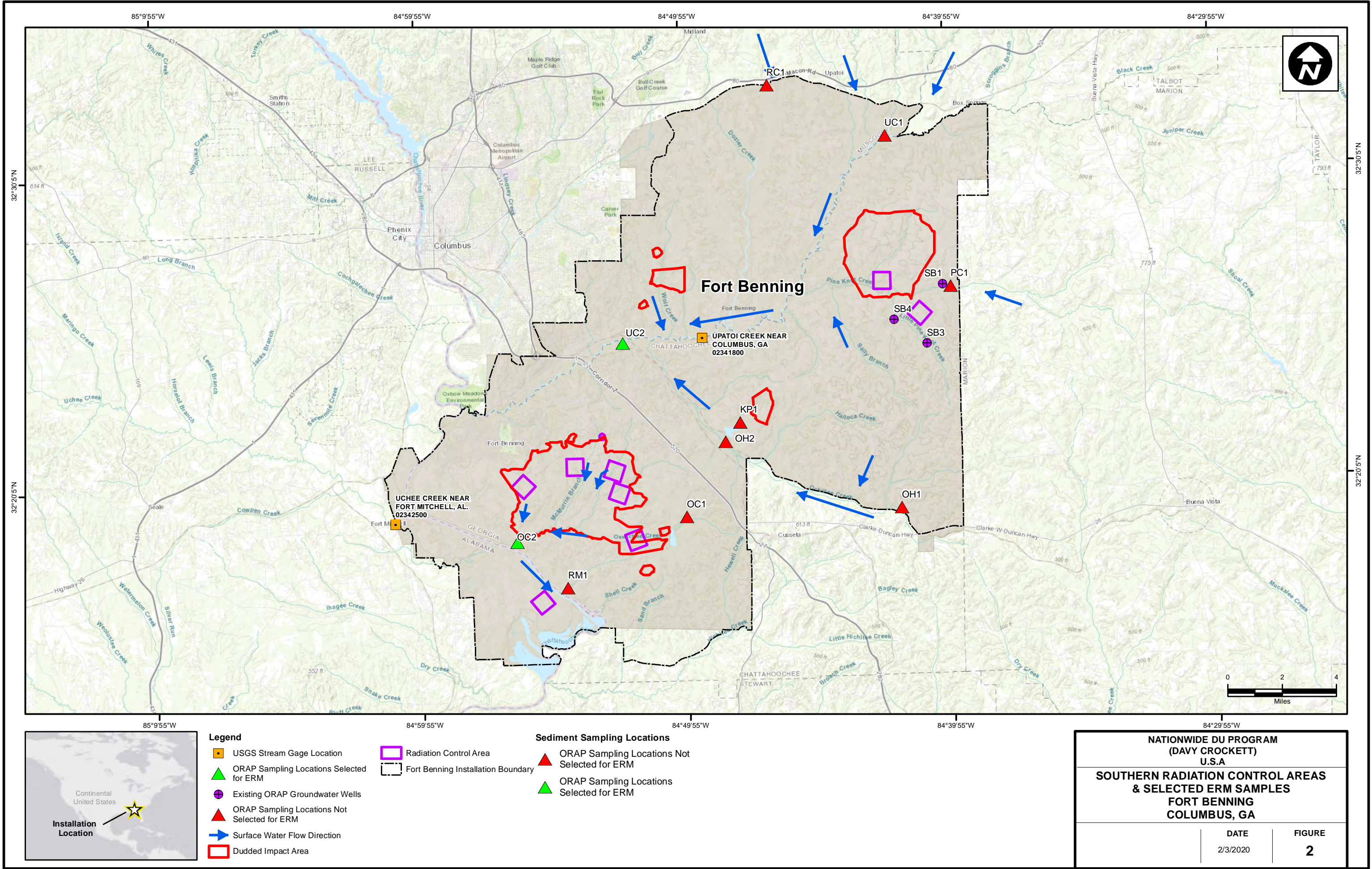


USGS 15477740 GOODPASTER R NR BIG DELTA AK



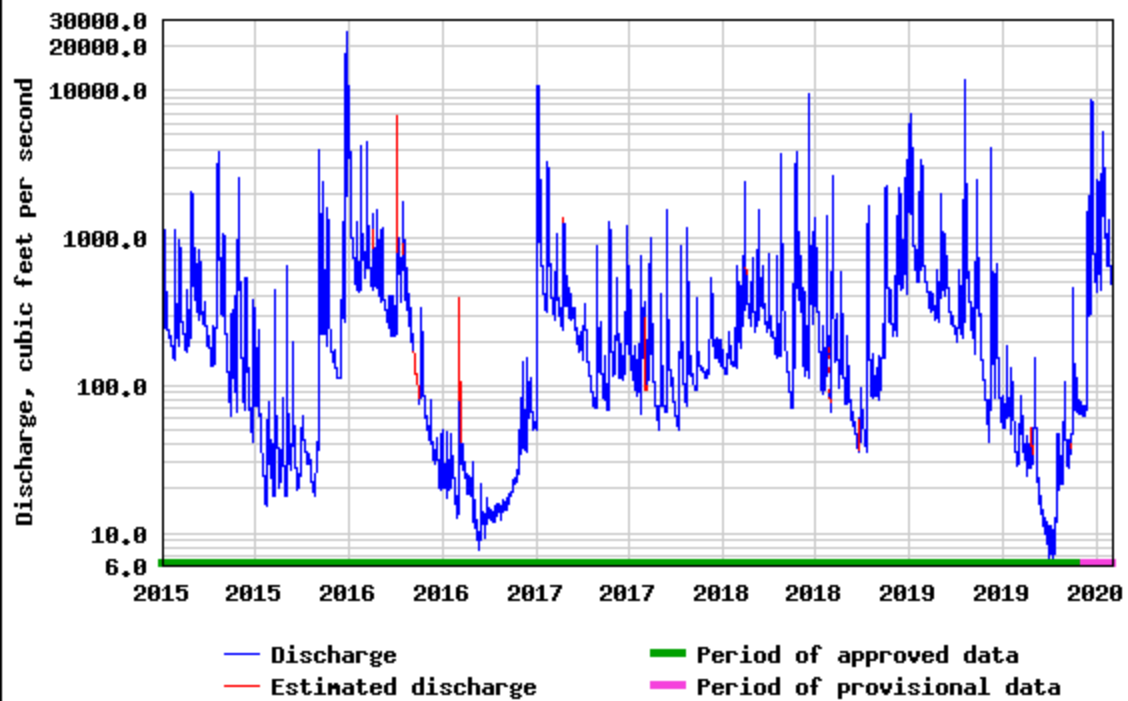
USGS 15477740 GOODPASTER R NR BIG DELTA AK



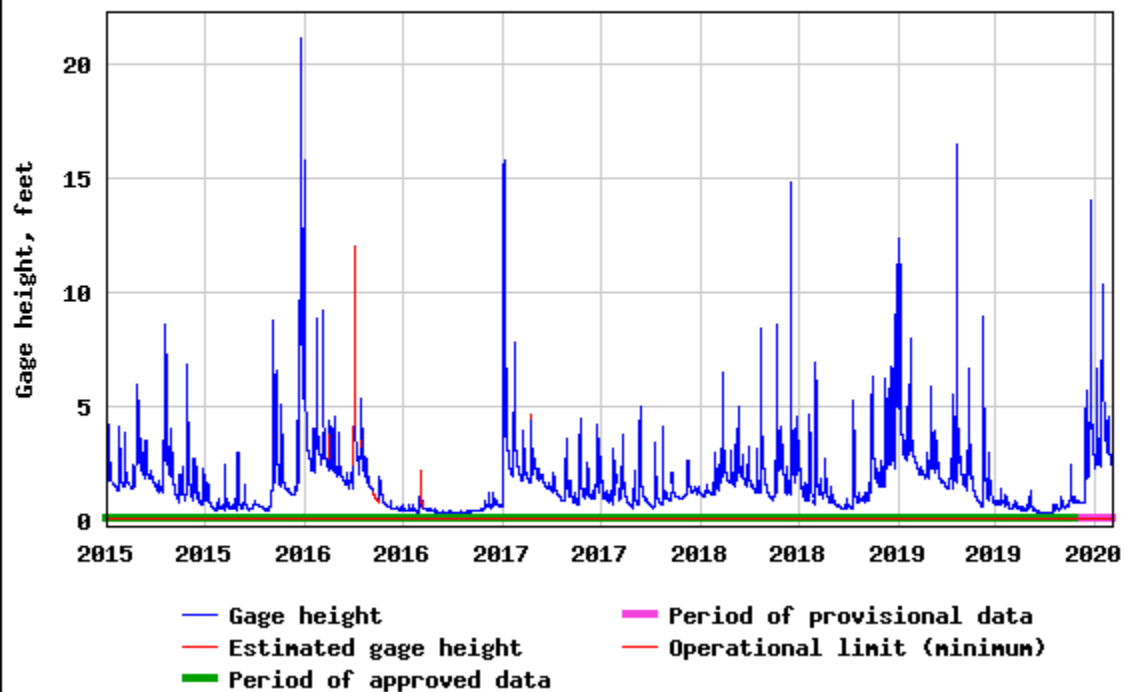




USGS 02342500 UCHEE CREEK NEAR FORT MITCHELL, AL.



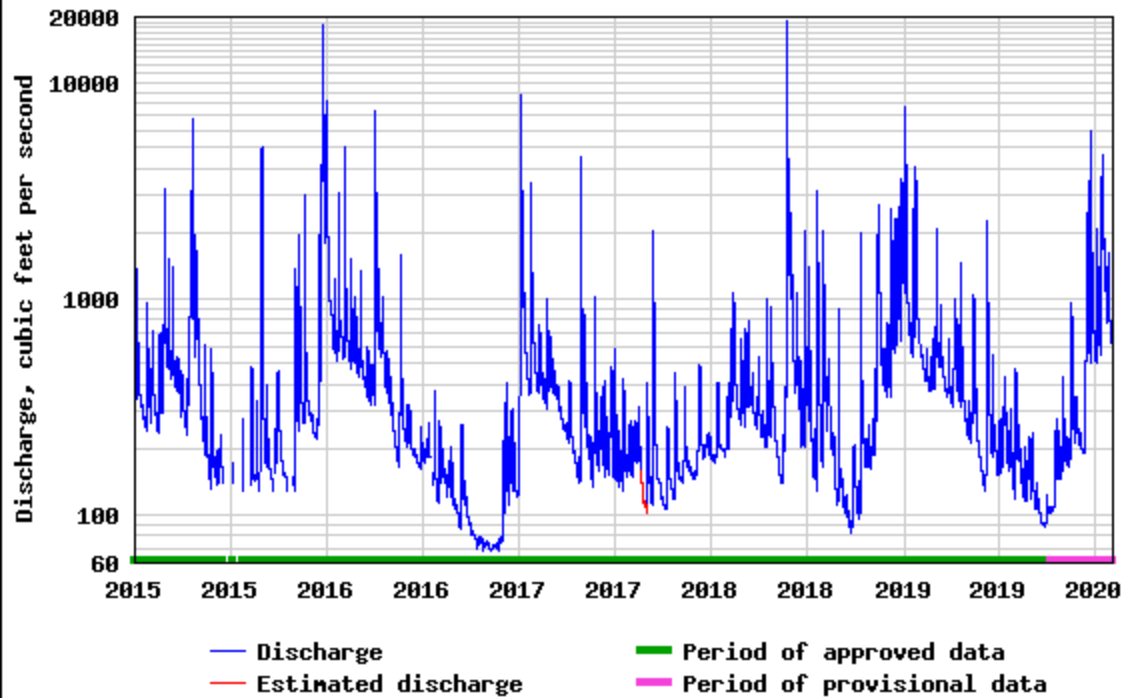
USGS 02342500 UCHEE CREEK NEAR FORT MITCHELL, AL.



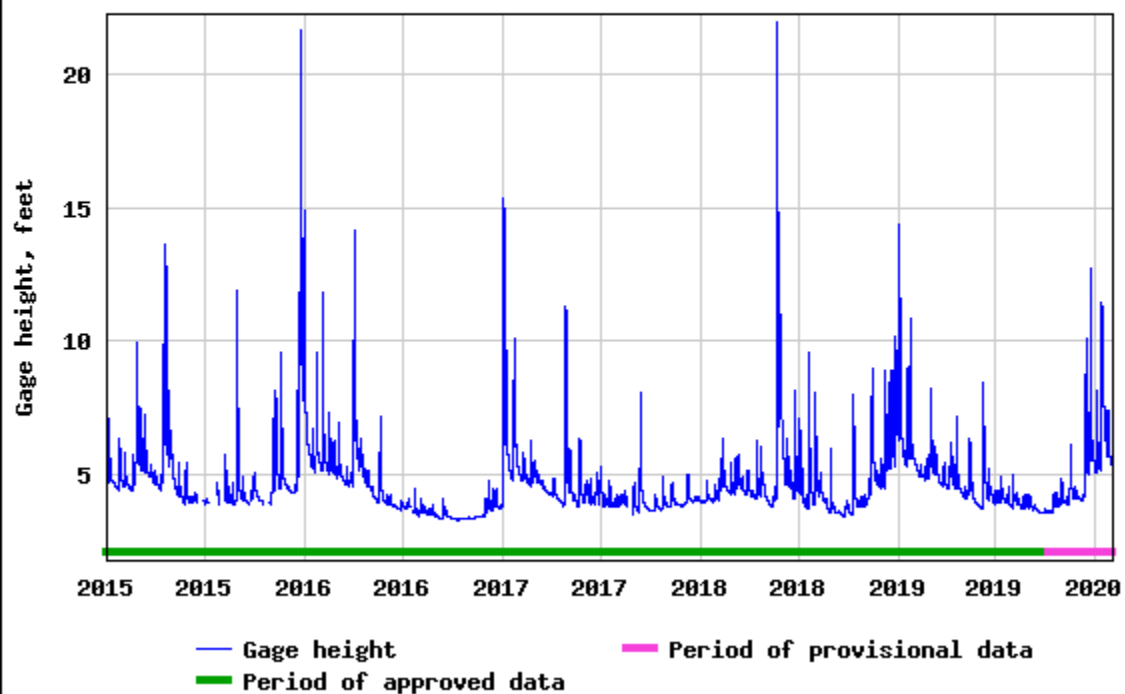
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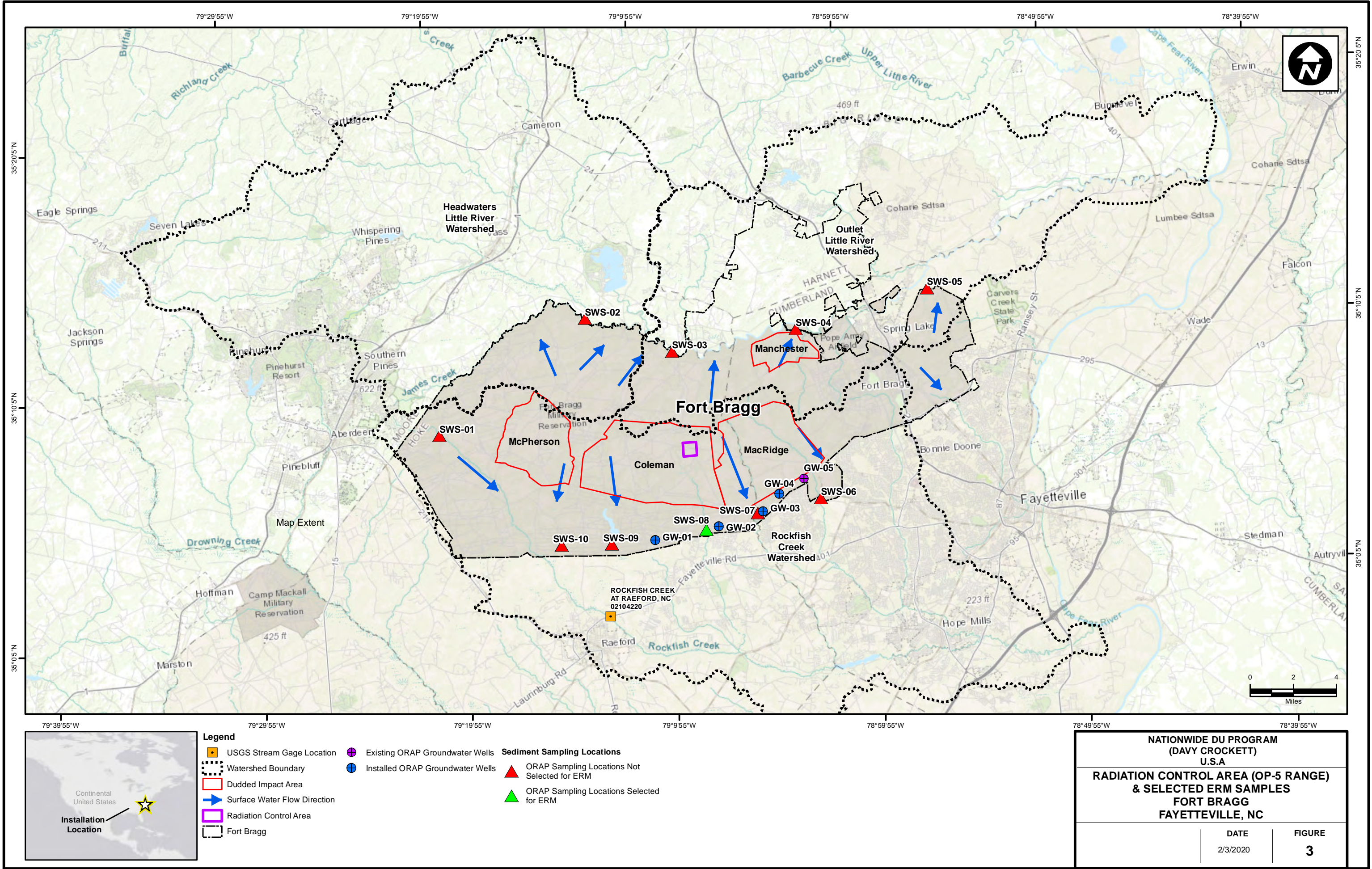


USGS 02341800 UPATOI CREEK NEAR COLUMBUS, GA



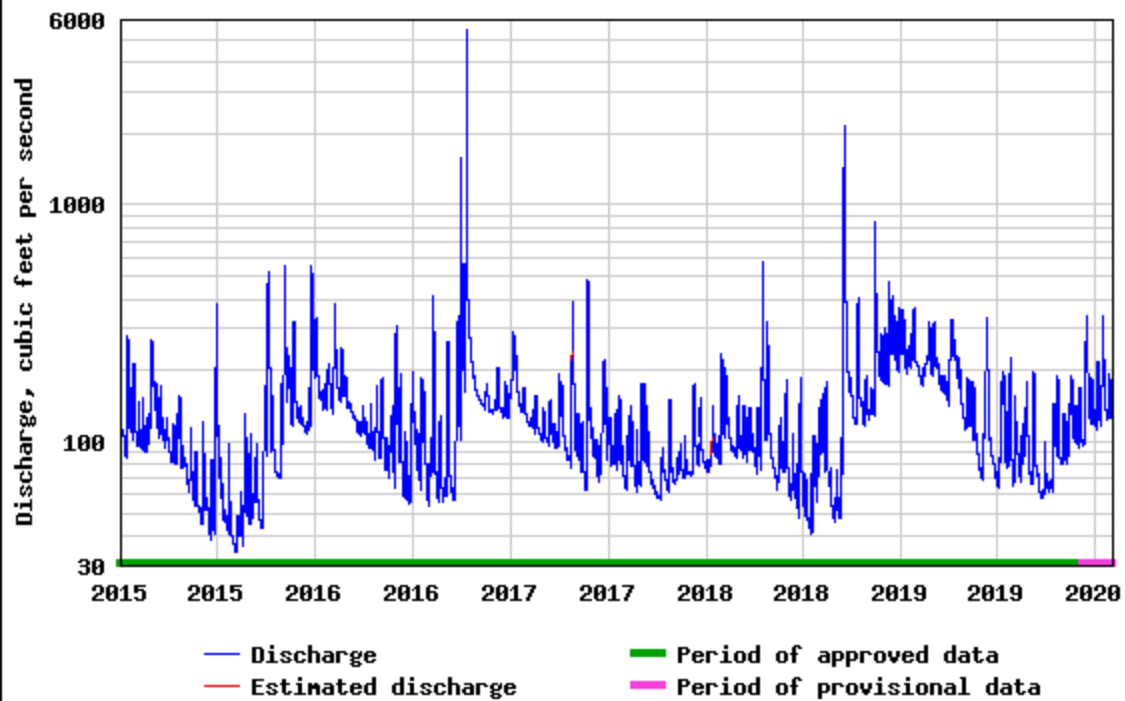
USGS 02341800 UPATOI CREEK NEAR COLUMBUS, GA



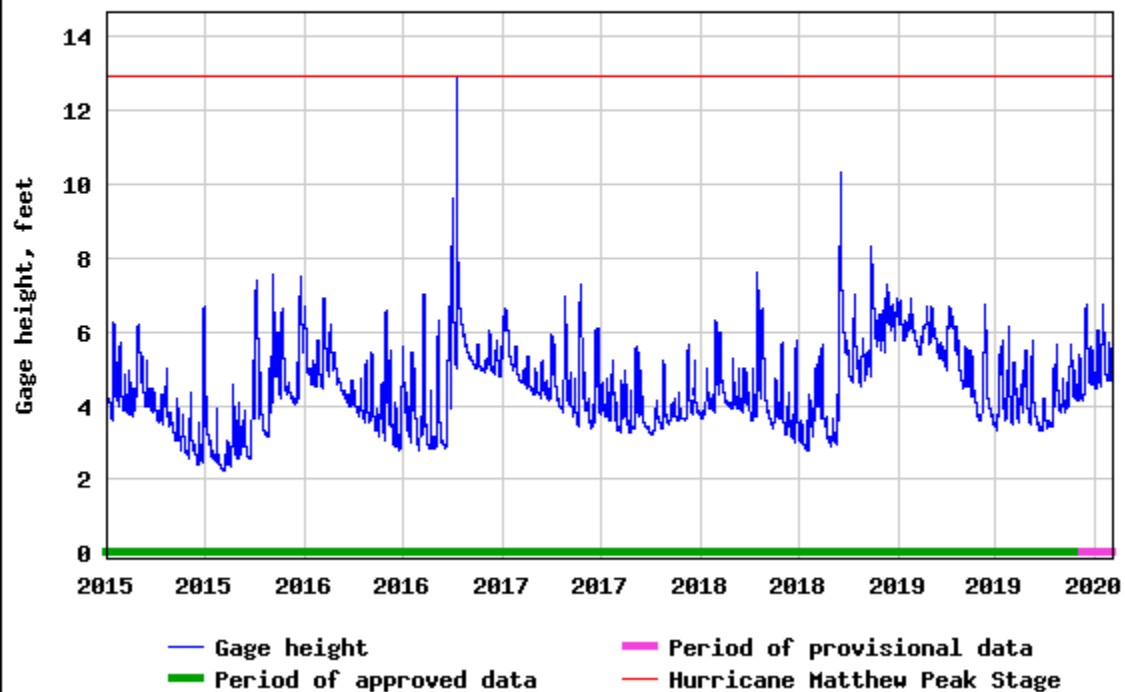




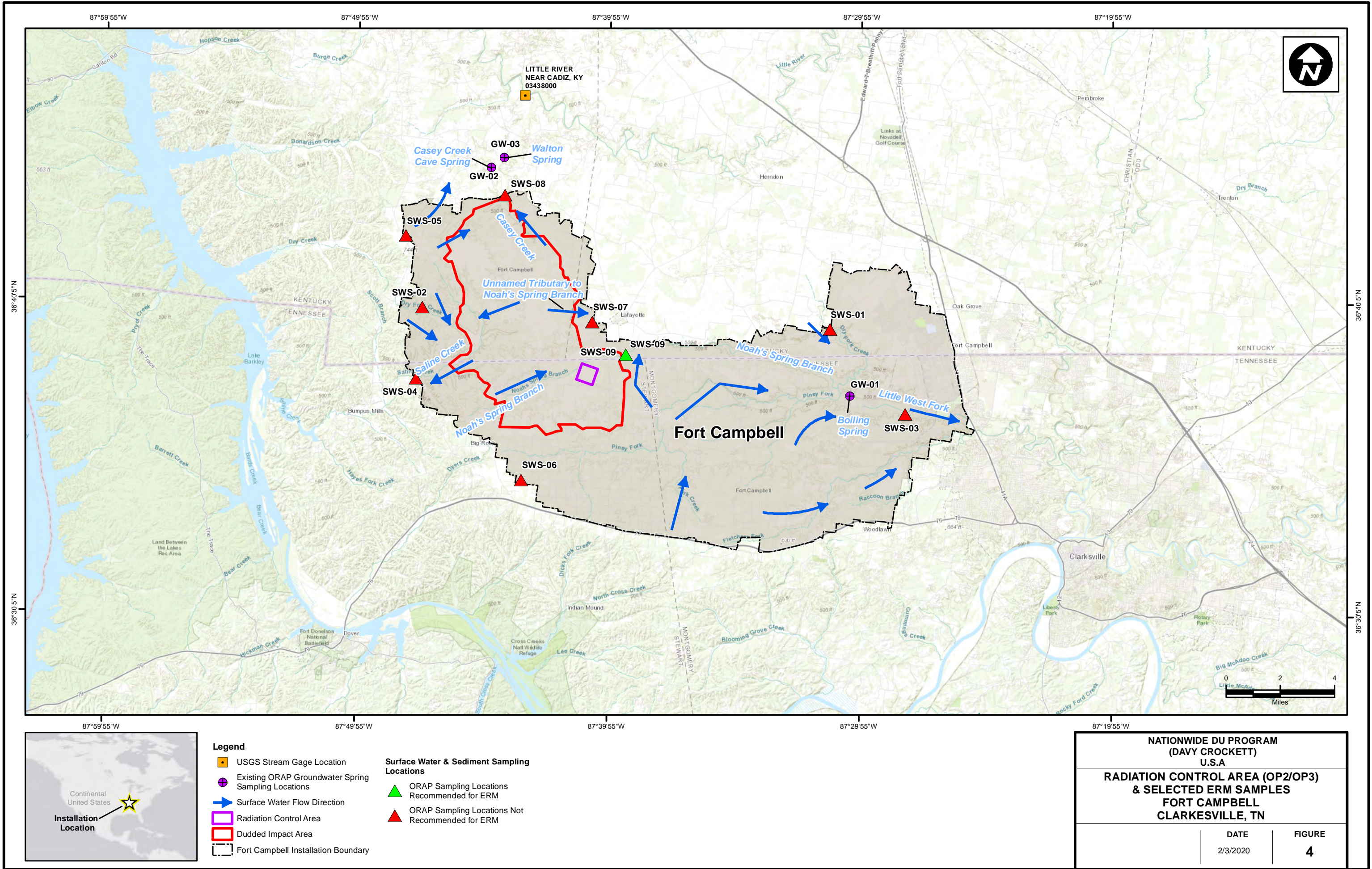
USGS 02104220 ROCKFISH CREEK AT RAEFORD, NC



USGS 02104220 ROCKFISH CREEK AT RAEFORD, NC

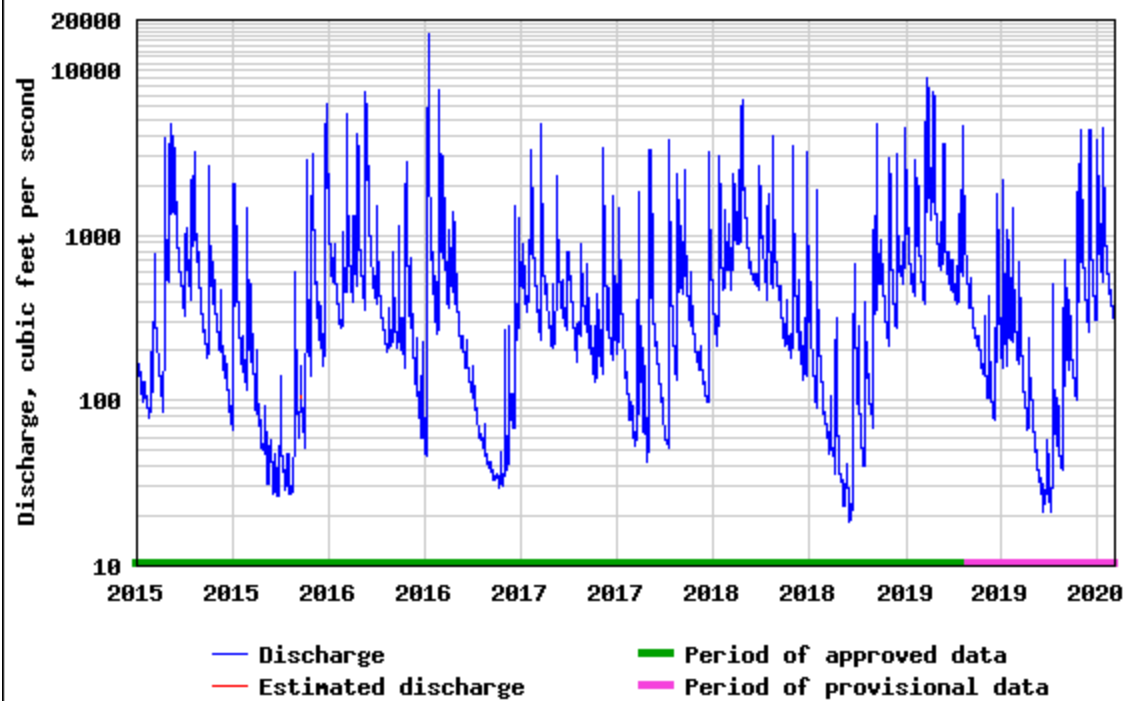


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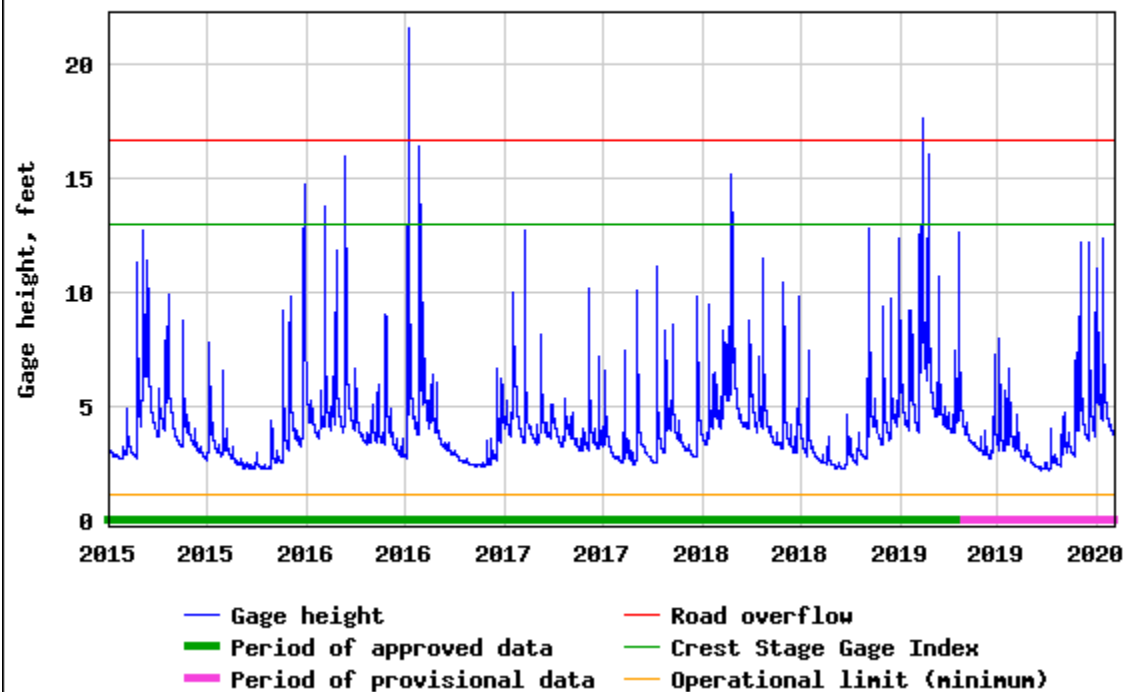




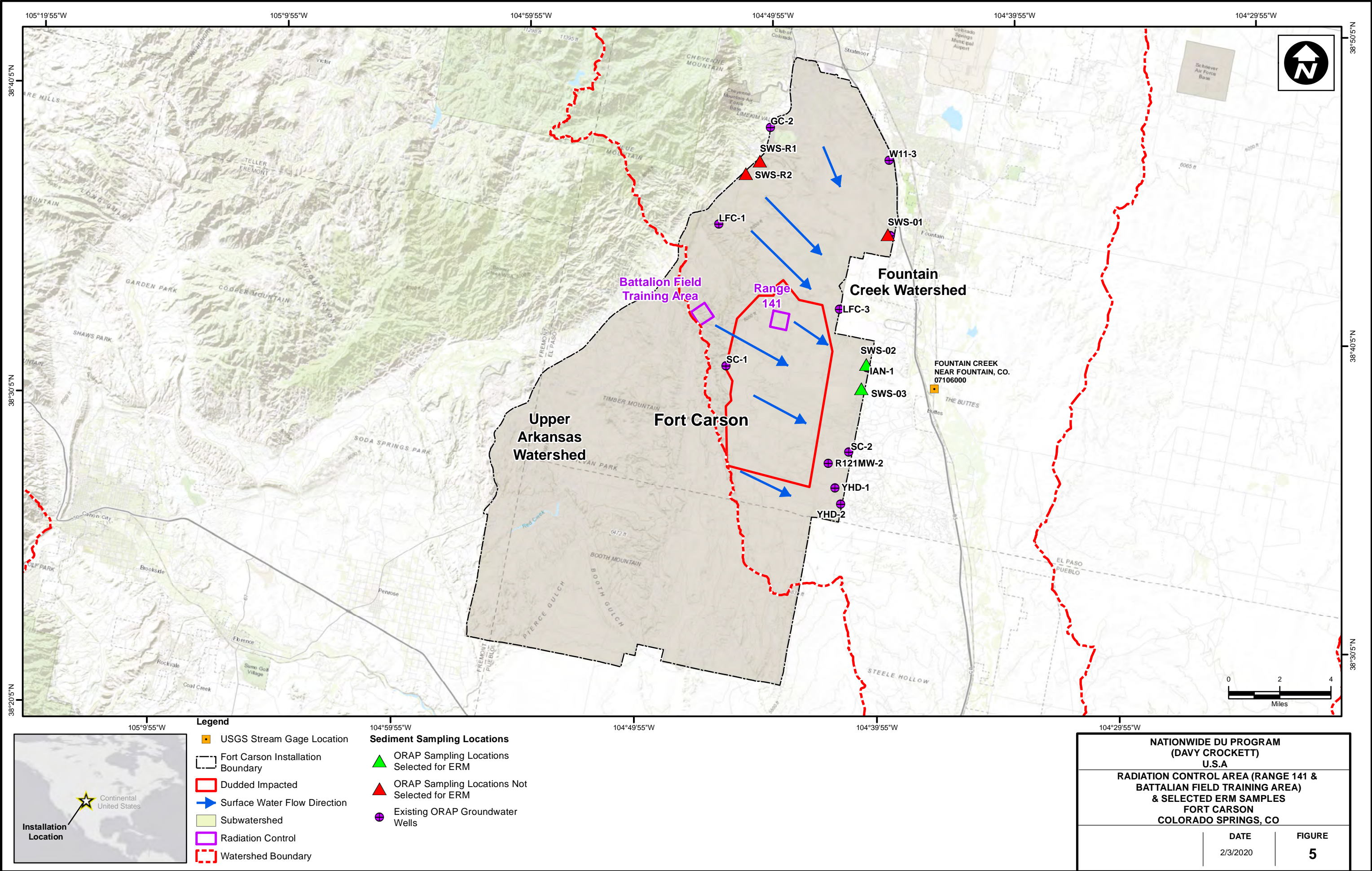
USGS 03438000 LITTLE RIVER NEAR CADIZ, KY



USGS 03438000 LITTLE RIVER NEAR CADIZ, KY

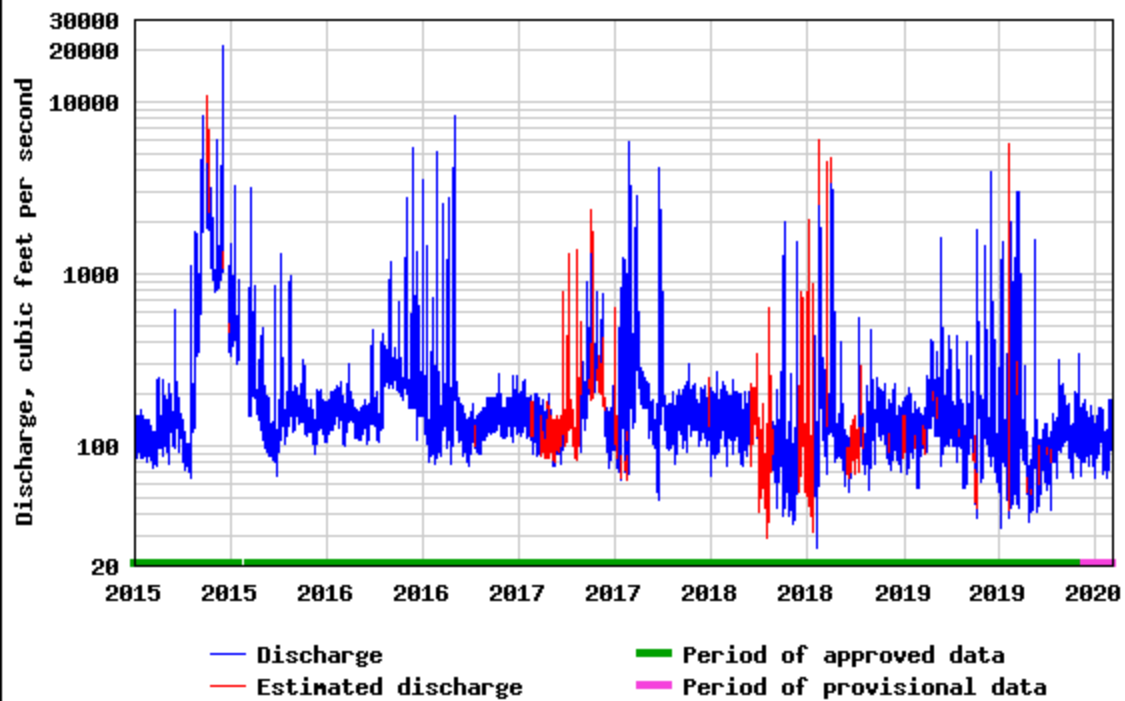


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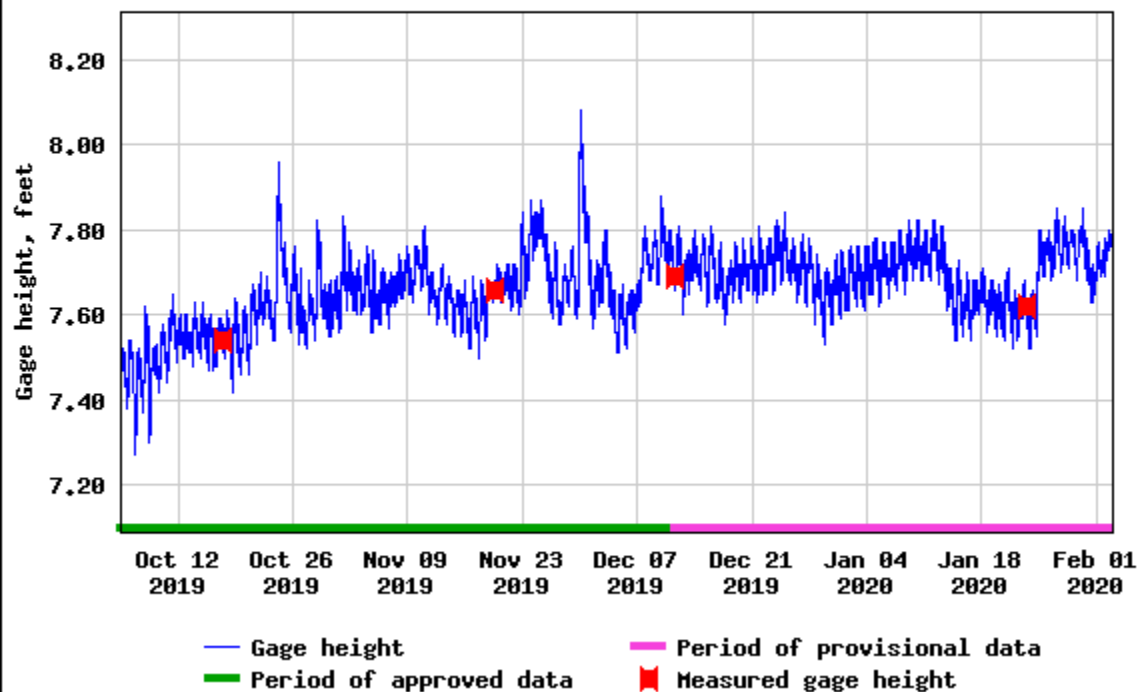




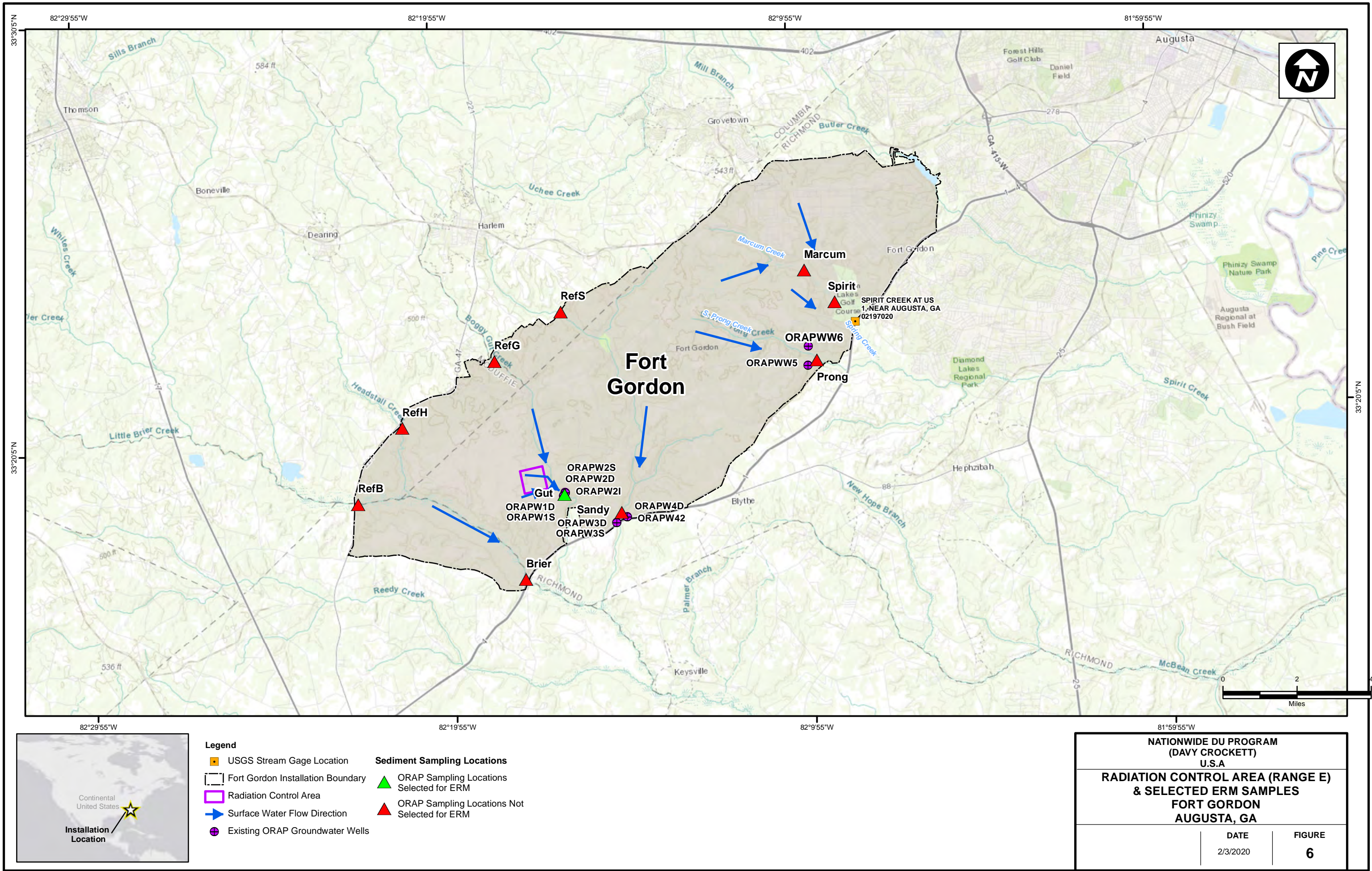
USGS 07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO.



USGS 07106000 FOUNTAIN CREEK NEAR FOUNTAIN, CO.

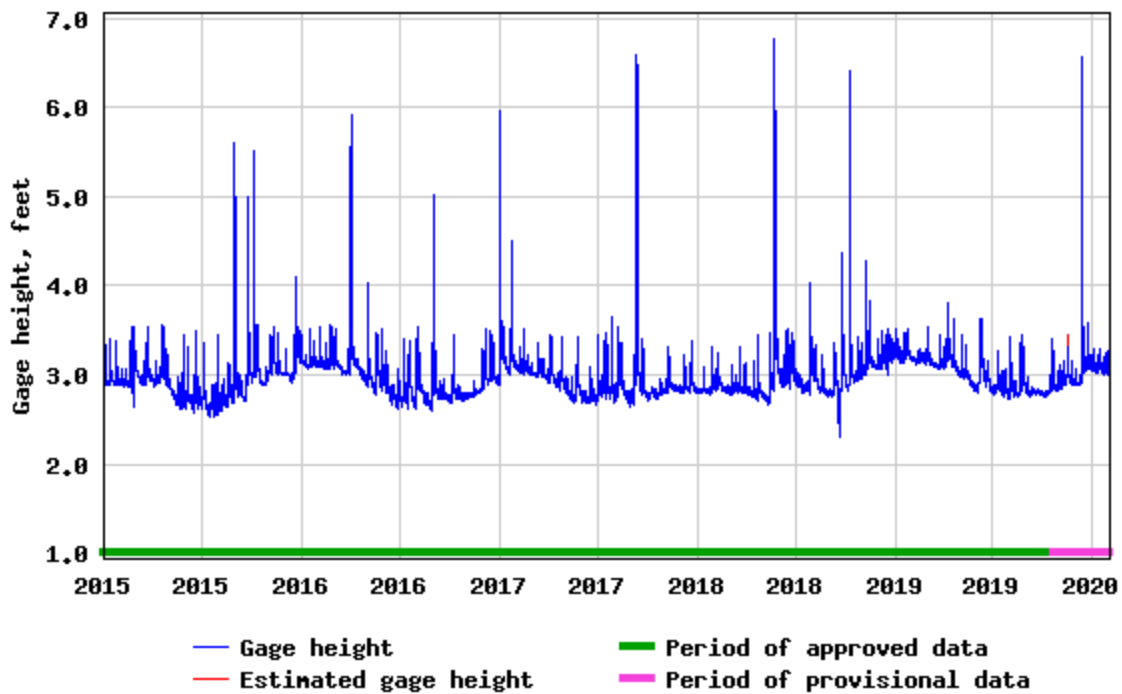


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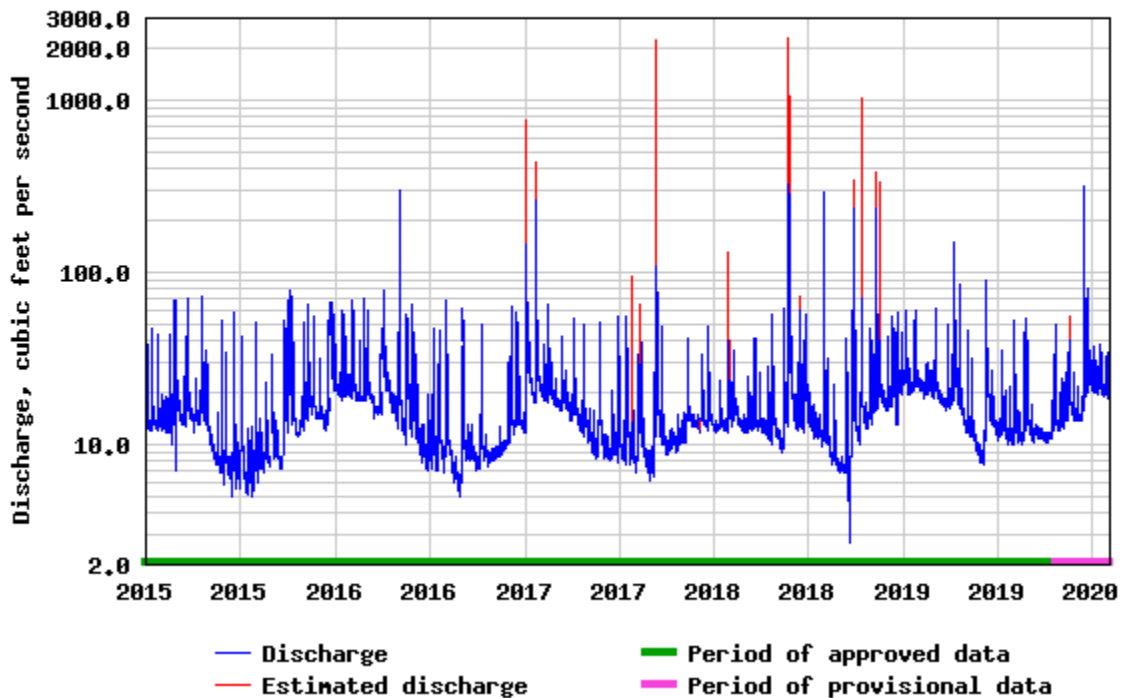




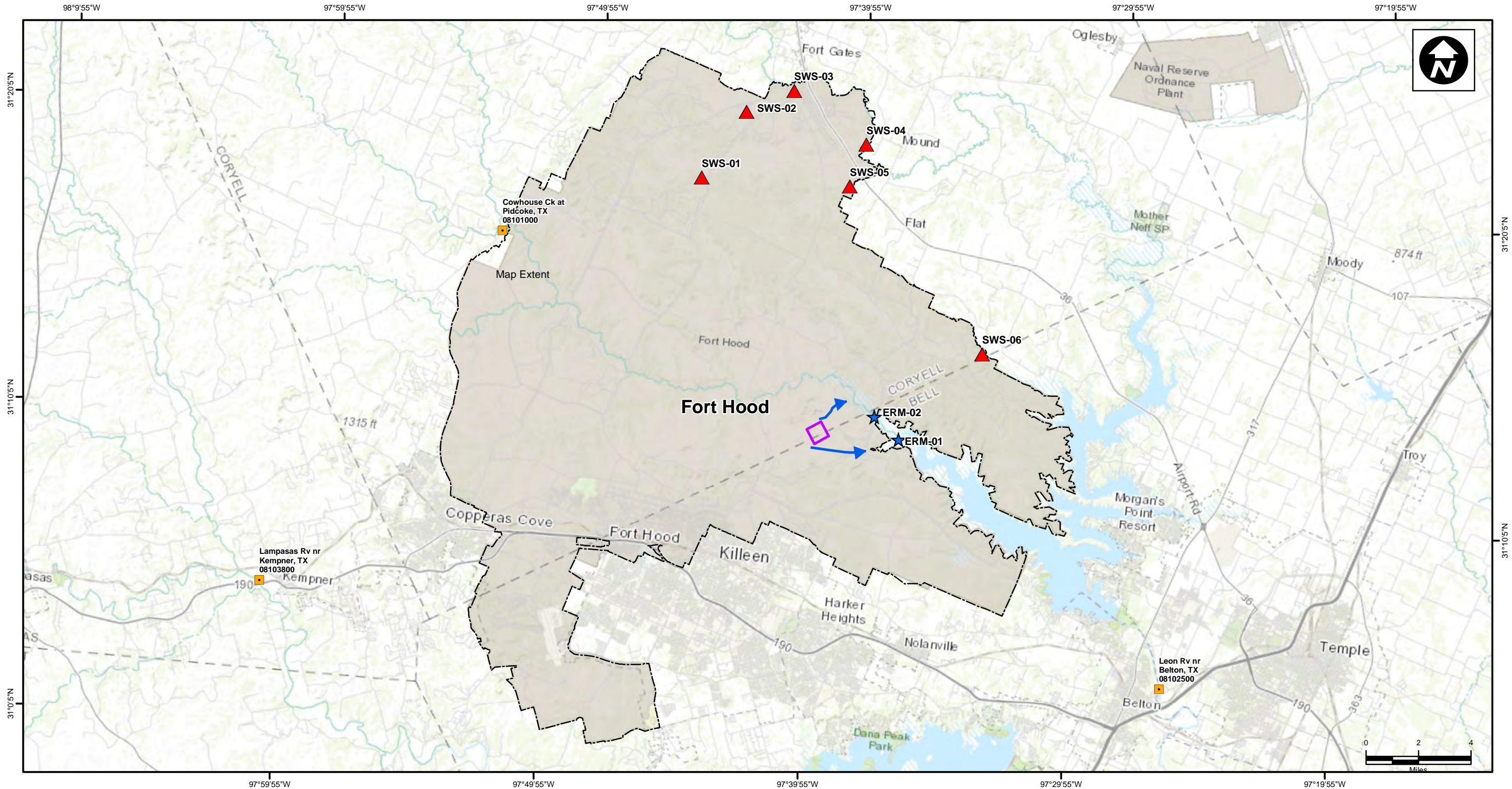
USGS 02197020 SPIRIT CREEK AT US 1, NEAR AUGUSTA, GA



USGS 02197020 SPIRIT CREEK AT US 1, NEAR AUGUSTA, GA



Source: https://waterdata.usgs.gov/ga/nwis/uv?site_no=02197020



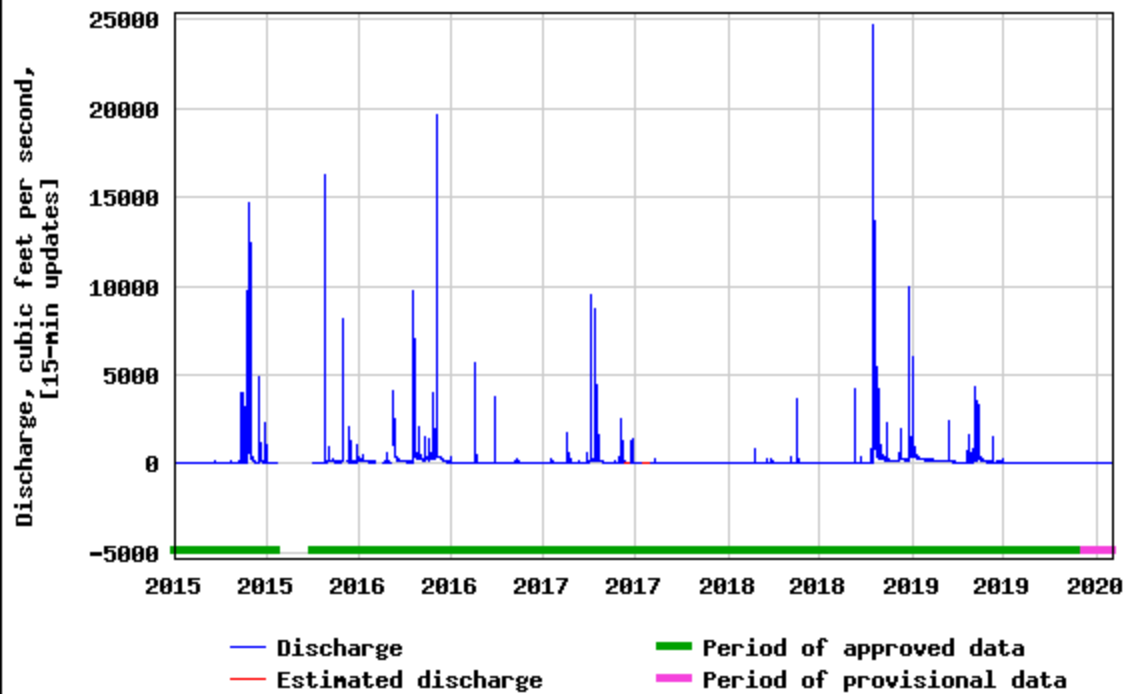
Legend

- USGS Stream Gage Location
- Fort Hood
- Radiation Control Area
- Surface Water Flow Direction
- Sediment Sampling Locations**
- ORAP Sampling Locations Not Selected for ERM
- Selected ERM Sampling Location

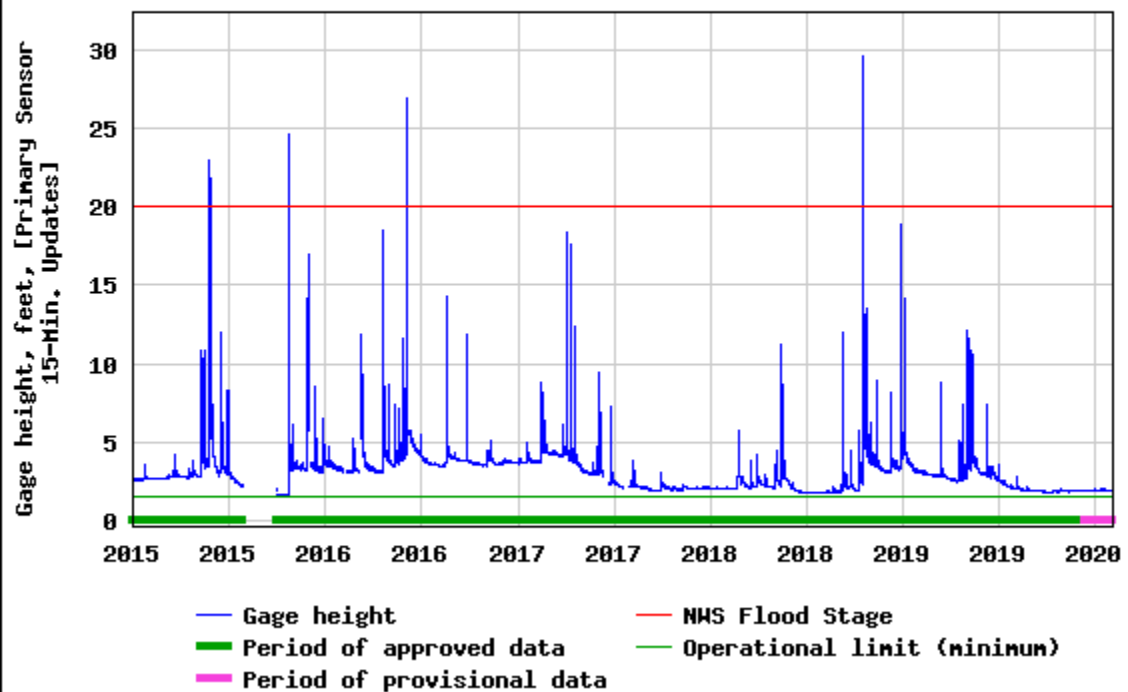
NATIONWIDE DU PROGRAM (DAVY CROCKETT) U.S.A		
RADIATION CONTROL AREA (DAVY CROCKETT RANGE) & SELECTED ERM SAMPLES FORT HOOD KILLEEN, TX		
	DATE 2/3/2020	FIGURE 7



USGS 08101000 Cowhouse Ck at Pidcoke, TX



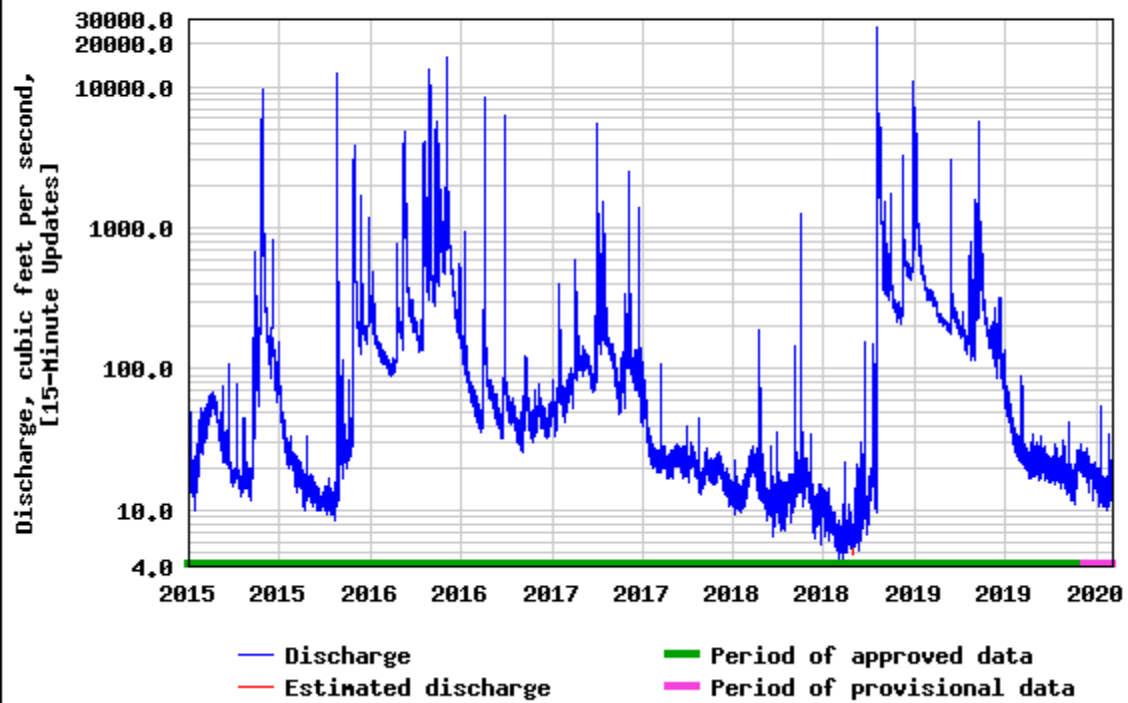
USGS 08101000 Cowhouse Ck at Pidcoke, TX



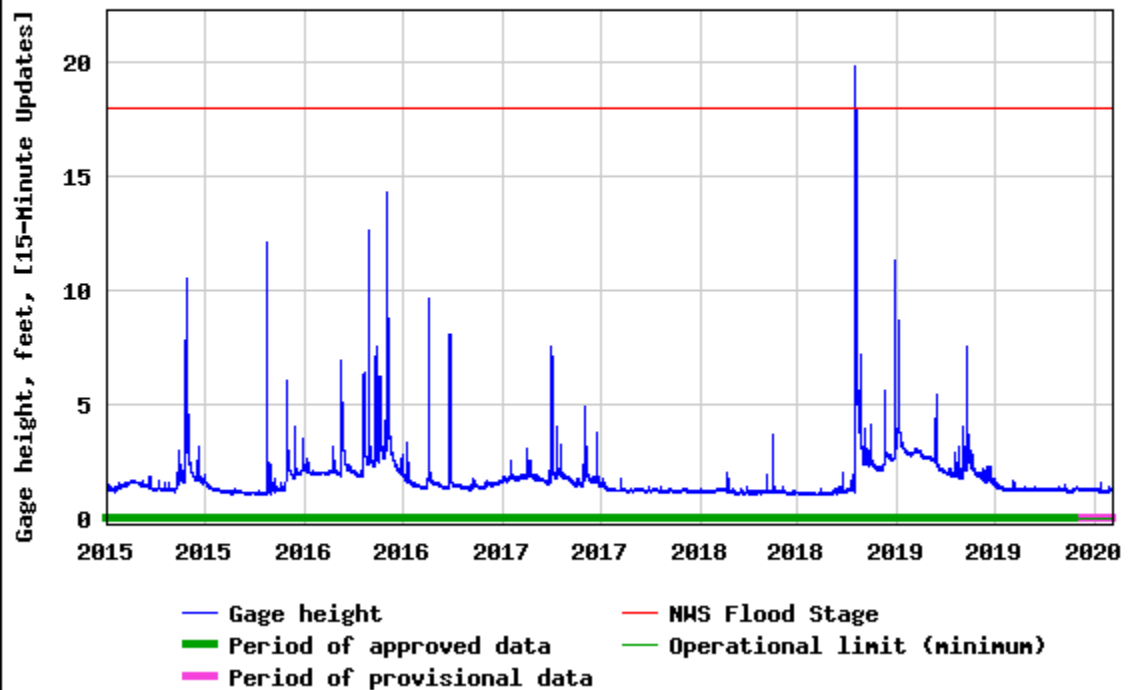
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USGS 08103800 Lampasas Rv nr Kempner, TX



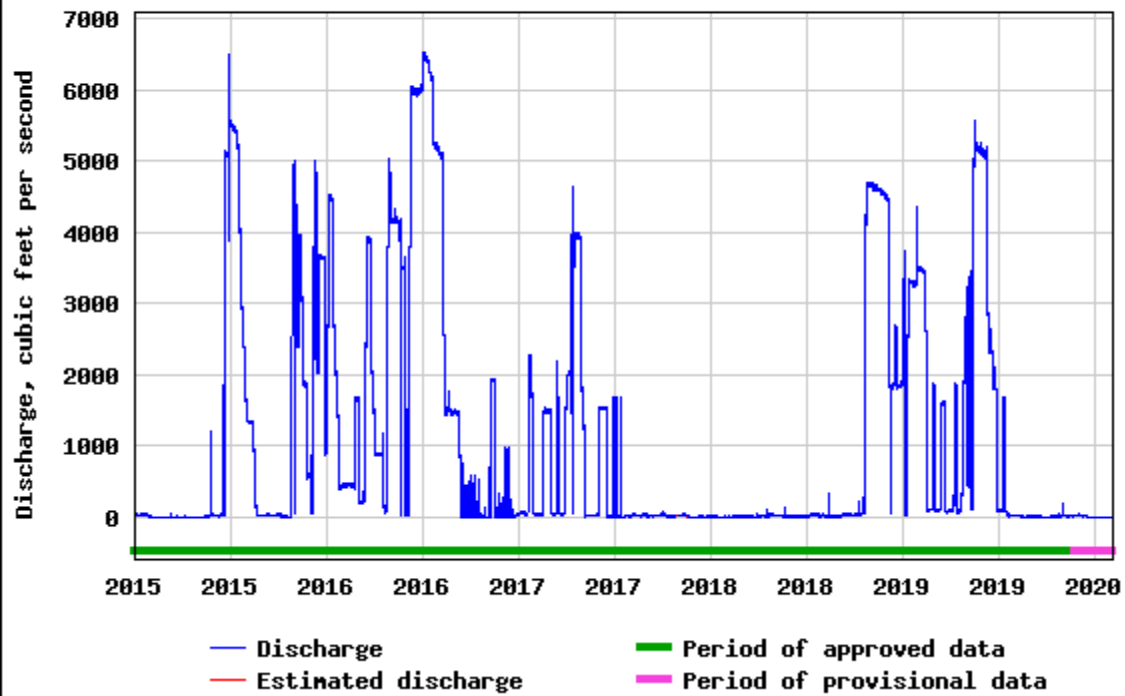
USGS 08103800 Lampasas Rv nr Kempner, TX



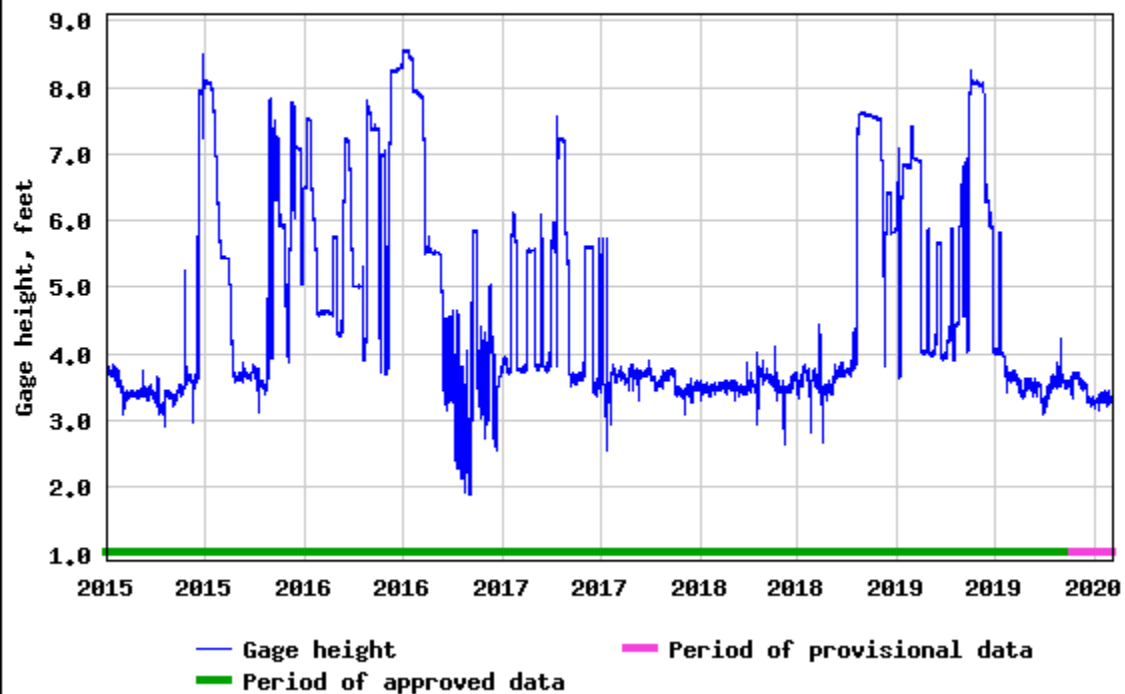
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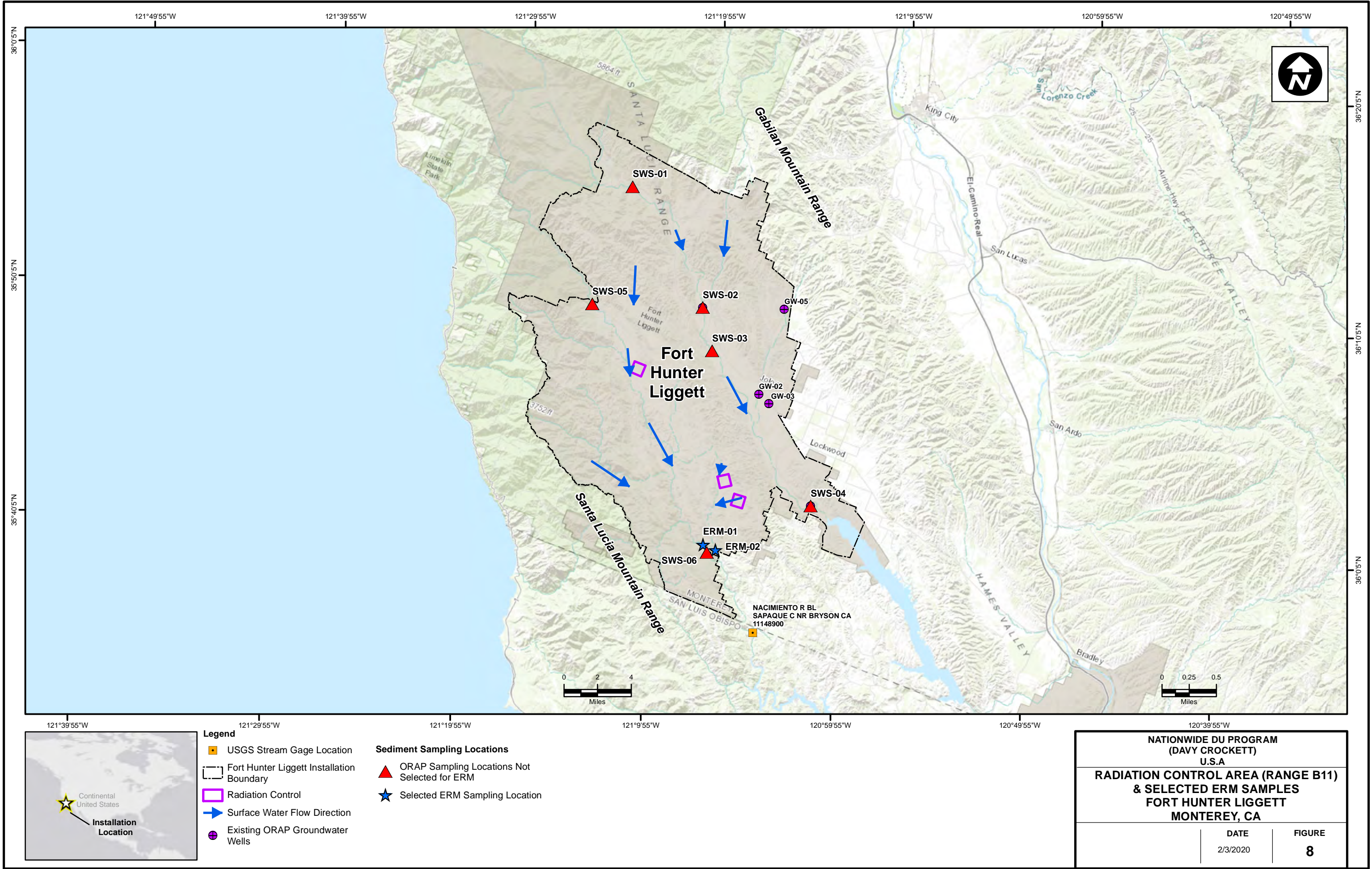
USGS 08102500 Leon Rv nr Belton, TX



USGS 08102500 Leon Rv nr Belton, TX

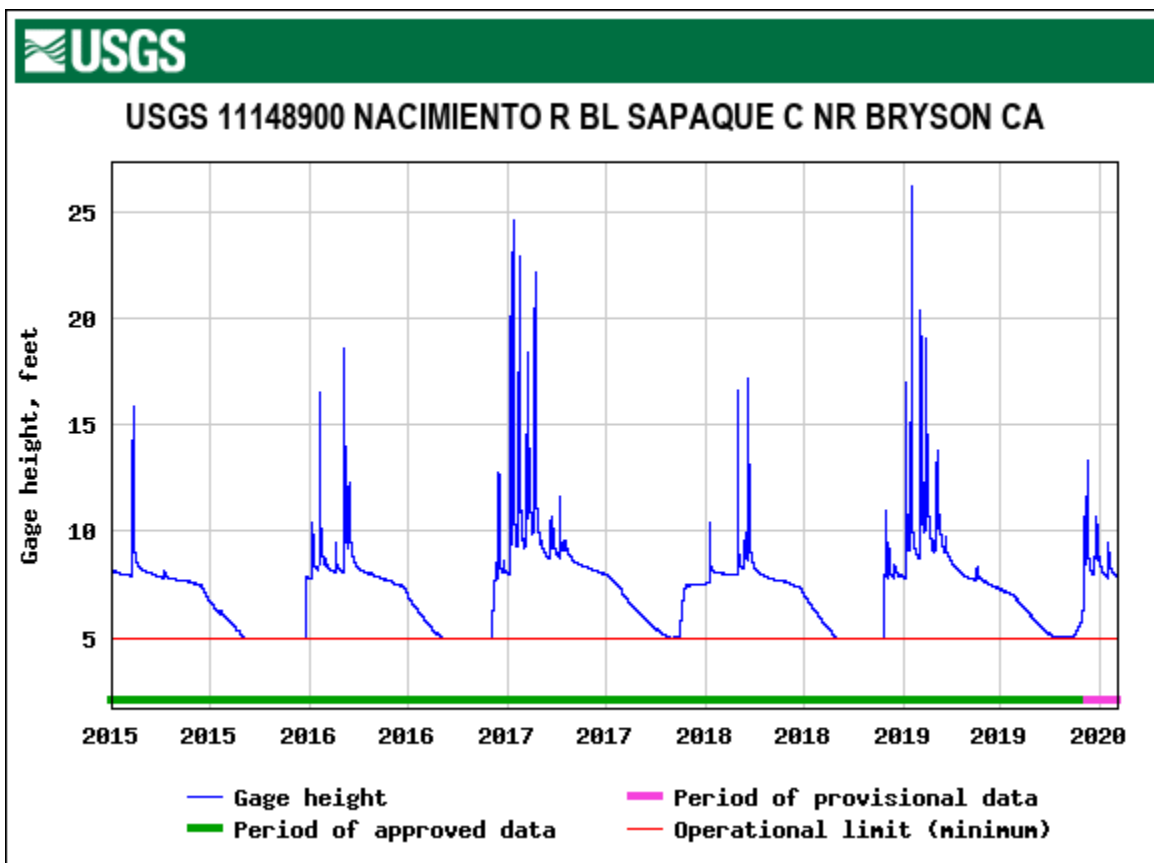
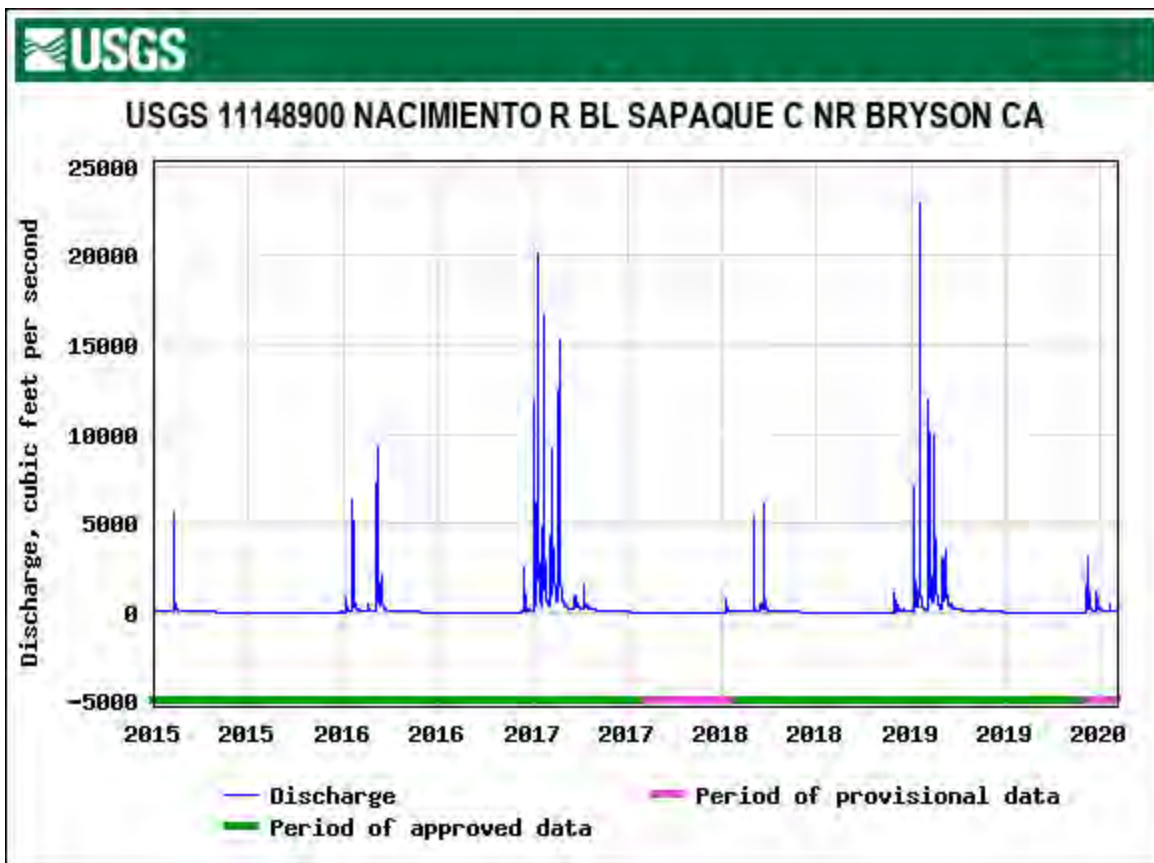


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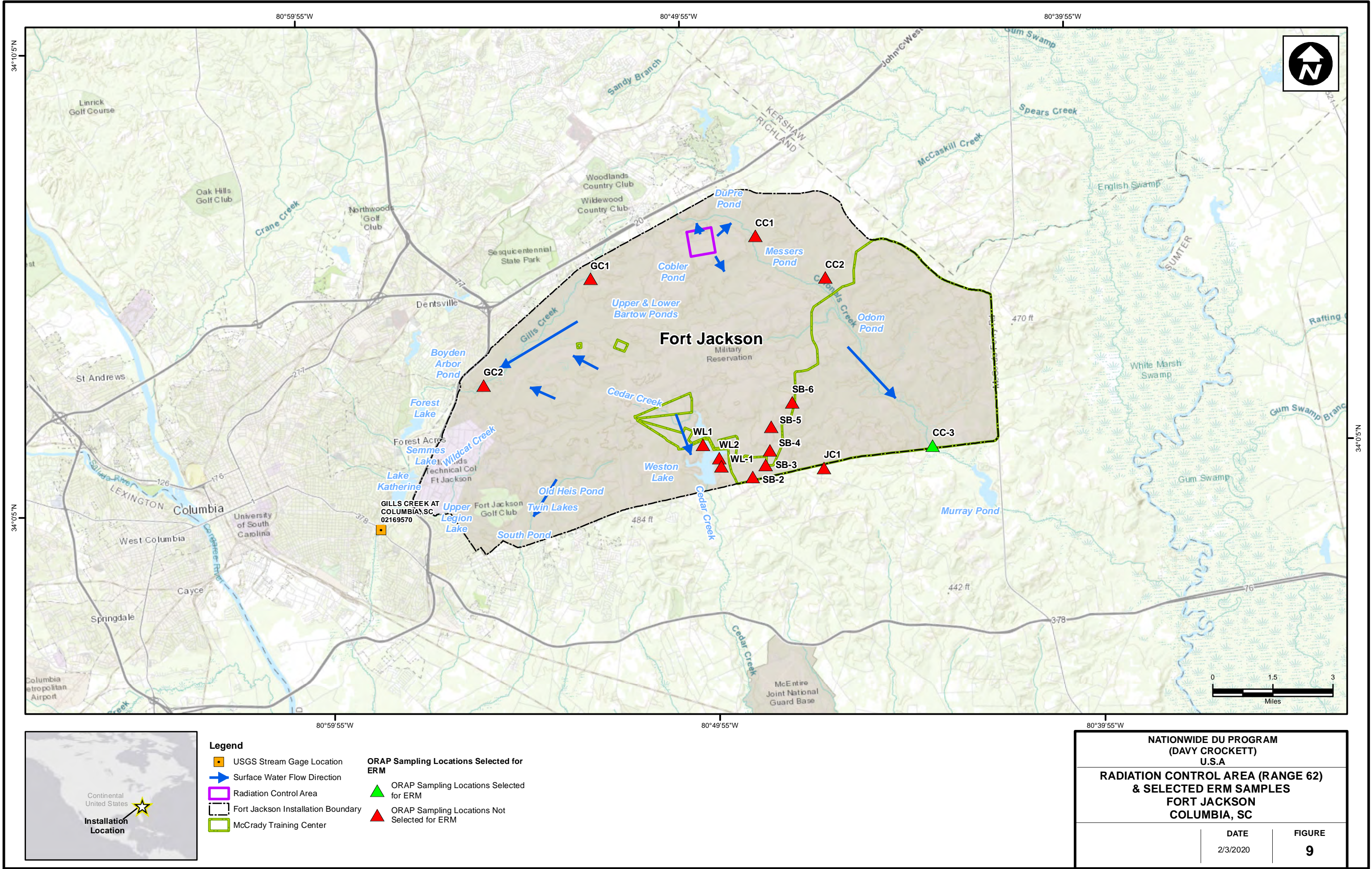


- Legend**
- USGS Stream Gage Location
 - Fort Hunter Liggett Installation Boundary
 - Radiation Control
 - Surface Water Flow Direction
 - Existing ORAP Groundwater Wells
- Sediment Sampling Locations**
- ORAP Sampling Locations Not Selected for ERM
 - Selected ERM Sampling Location

NATIONWIDE DU PROGRAM (DAVY CROCKETT) U.S.A		
RADIATION CONTROL AREA (RANGE B11) & SELECTED ERM SAMPLES FORT HUNTER LIGGETT MONTEREY, CA		
	DATE 2/3/2020	FIGURE 8

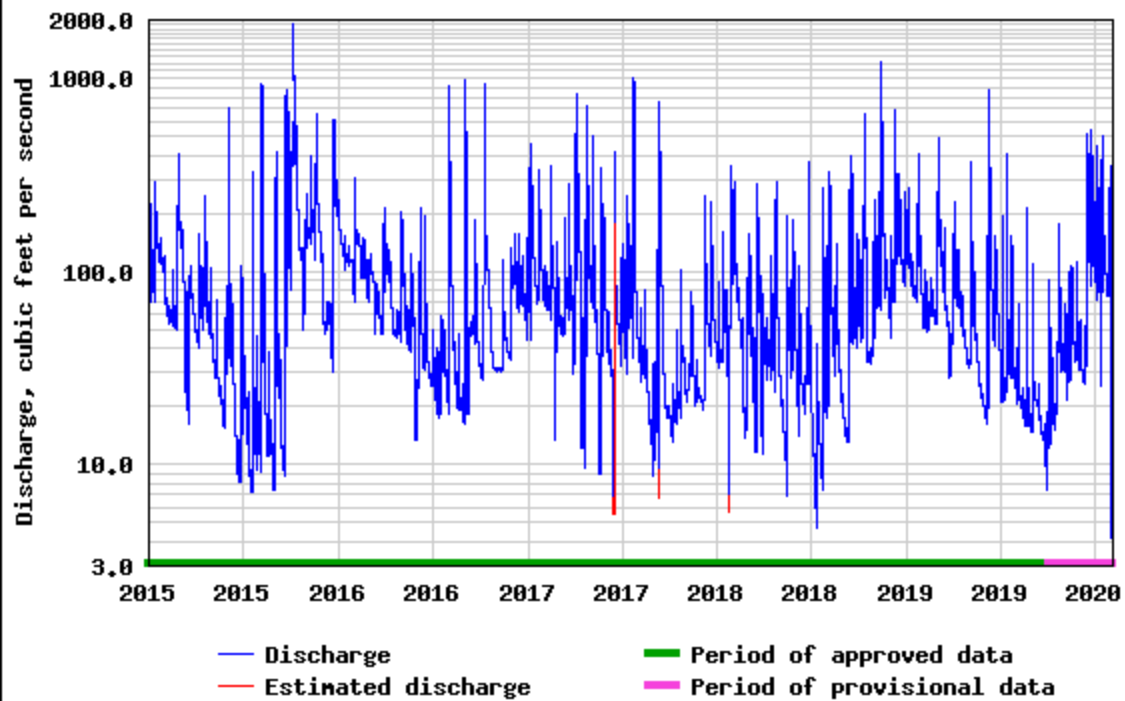


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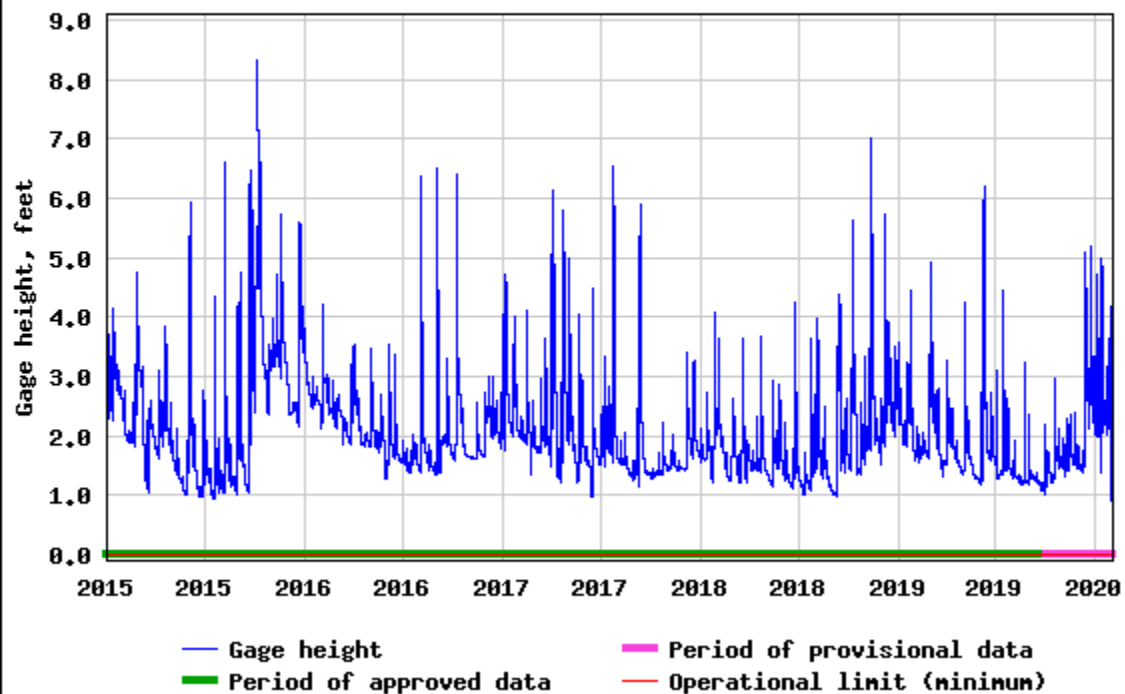




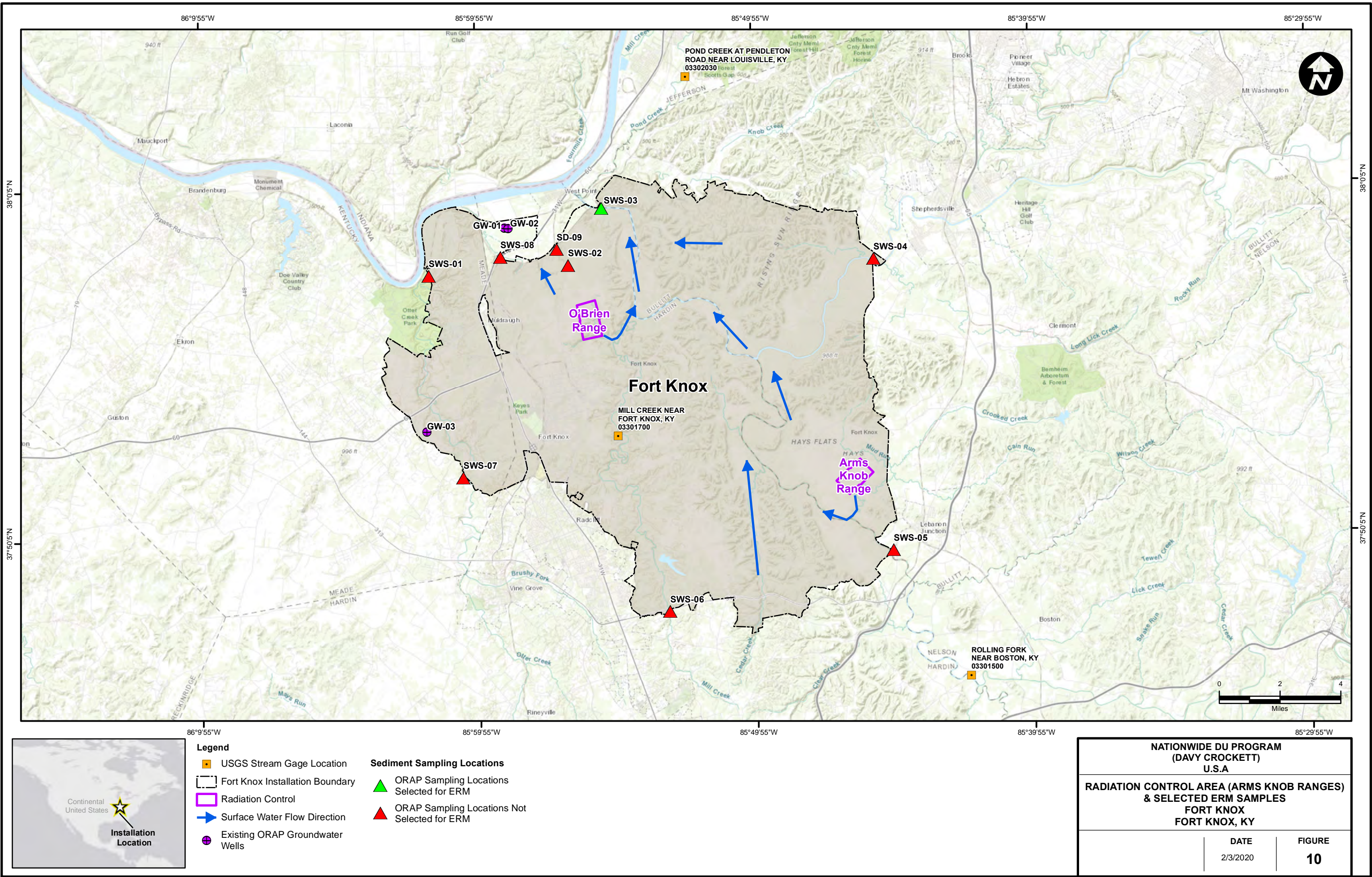
USGS 02169570 GILLS CREEK AT COLUMBIA, SC



USGS 02169570 GILLS CREEK AT COLUMBIA, SC

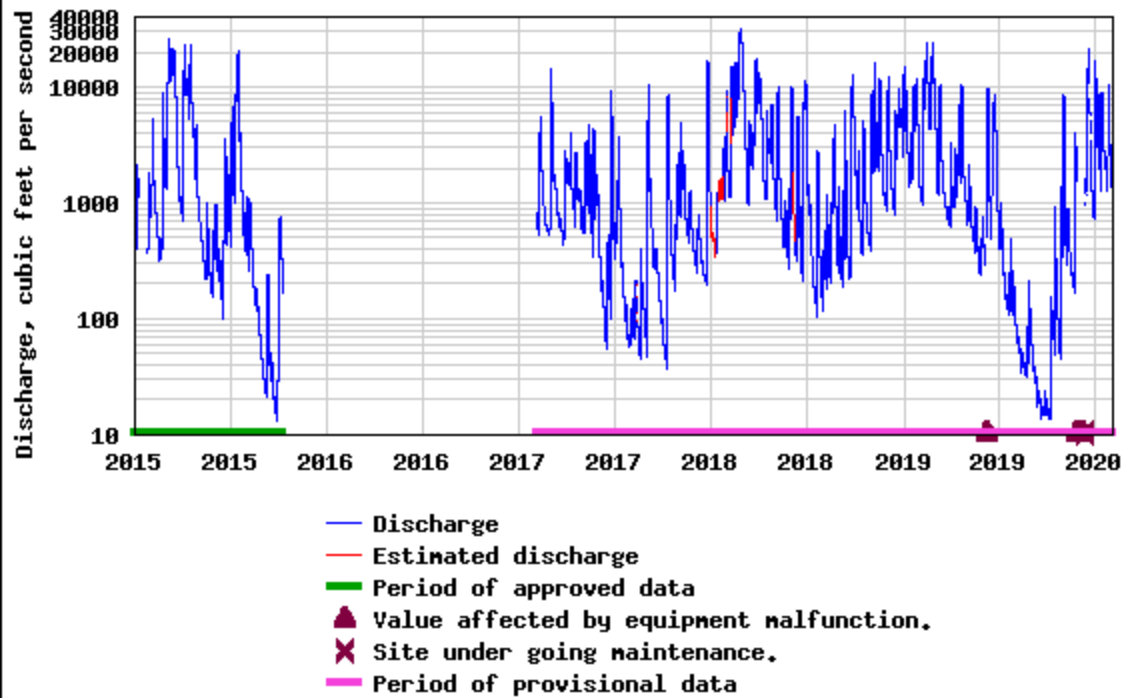


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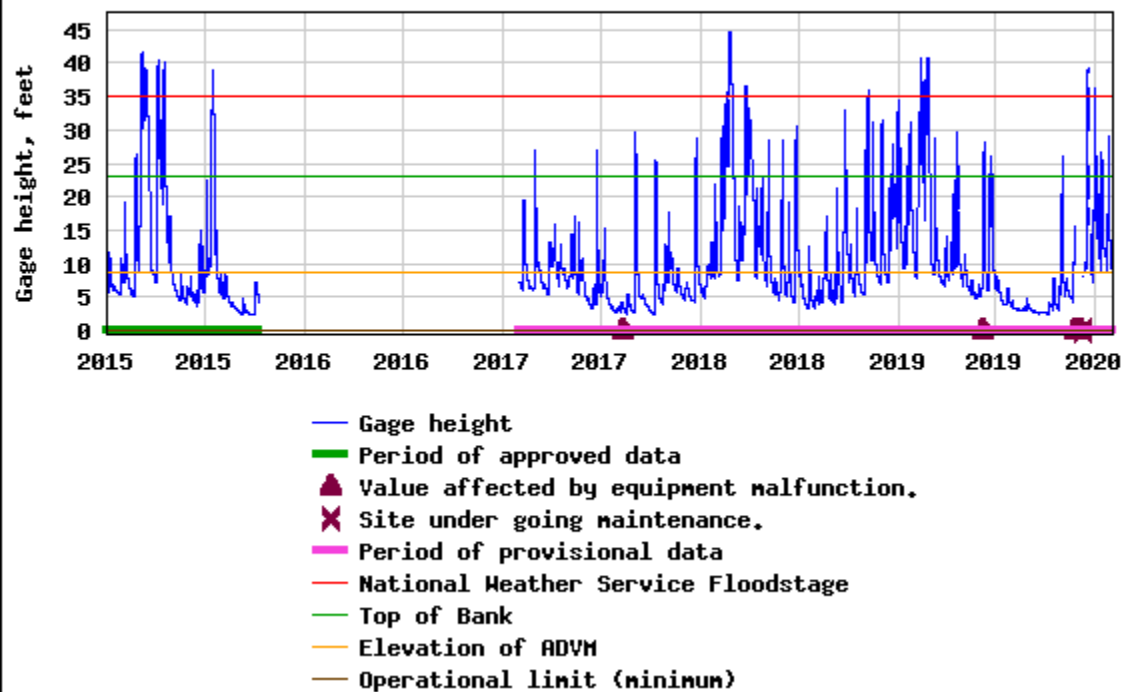




USGS 03301500 ROLLING FORK NEAR BOSTON, KY



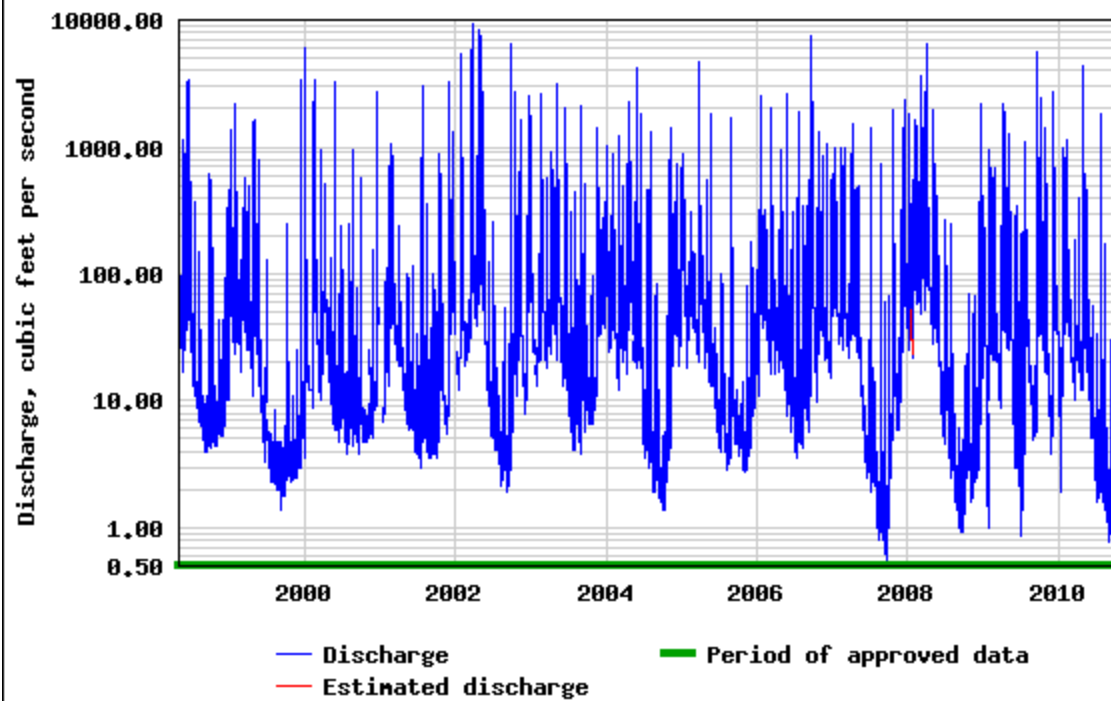
USGS 03301500 ROLLING FORK NEAR BOSTON, KY



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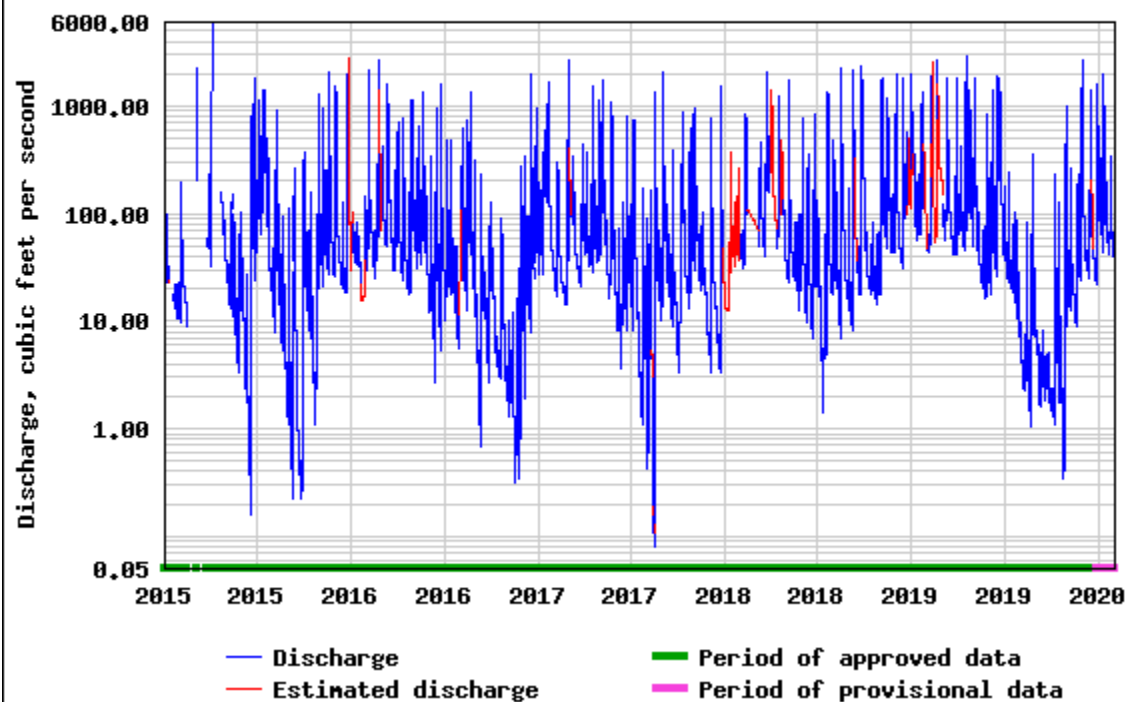
USGS 03301700 MILL CREEK NEAR FORT KNOX, KY



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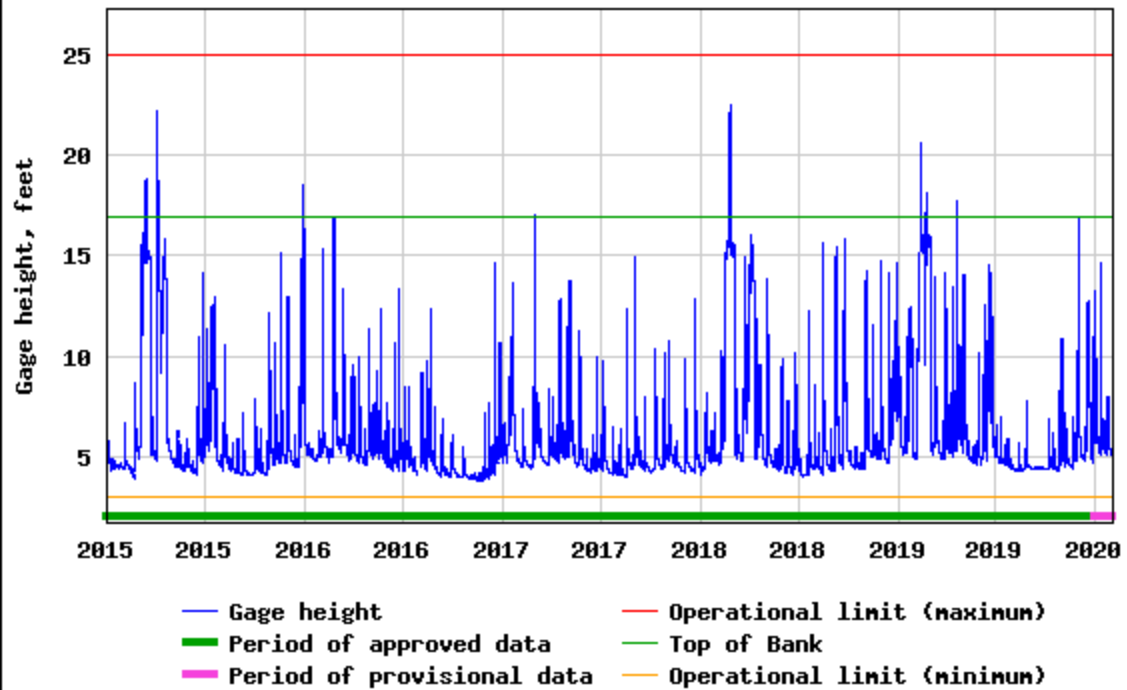


USGS 03302030 POND CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

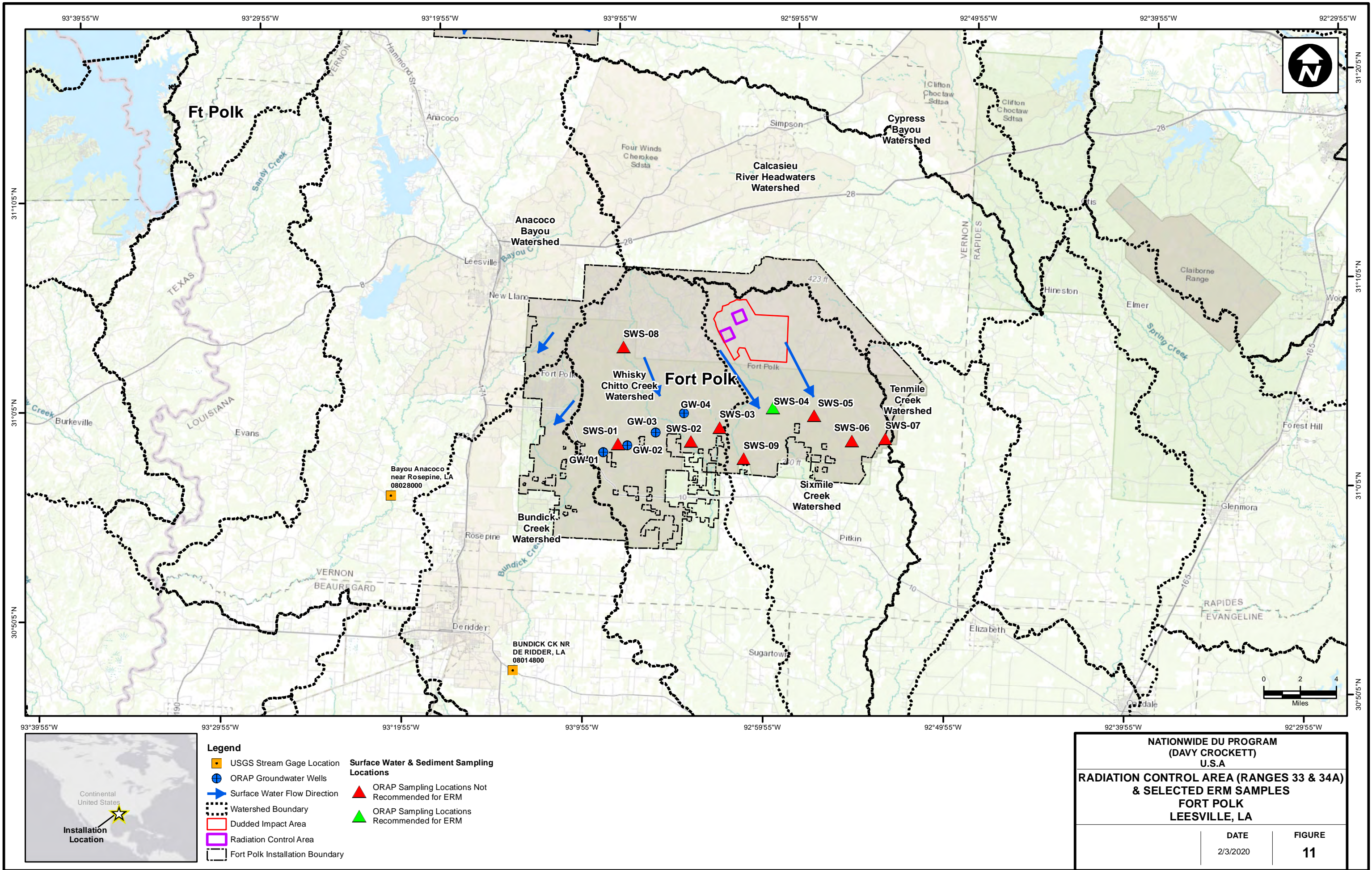




USGS 03302030 POND CREEK AT PENDLETON ROAD NEAR LOUISVILLE, KY

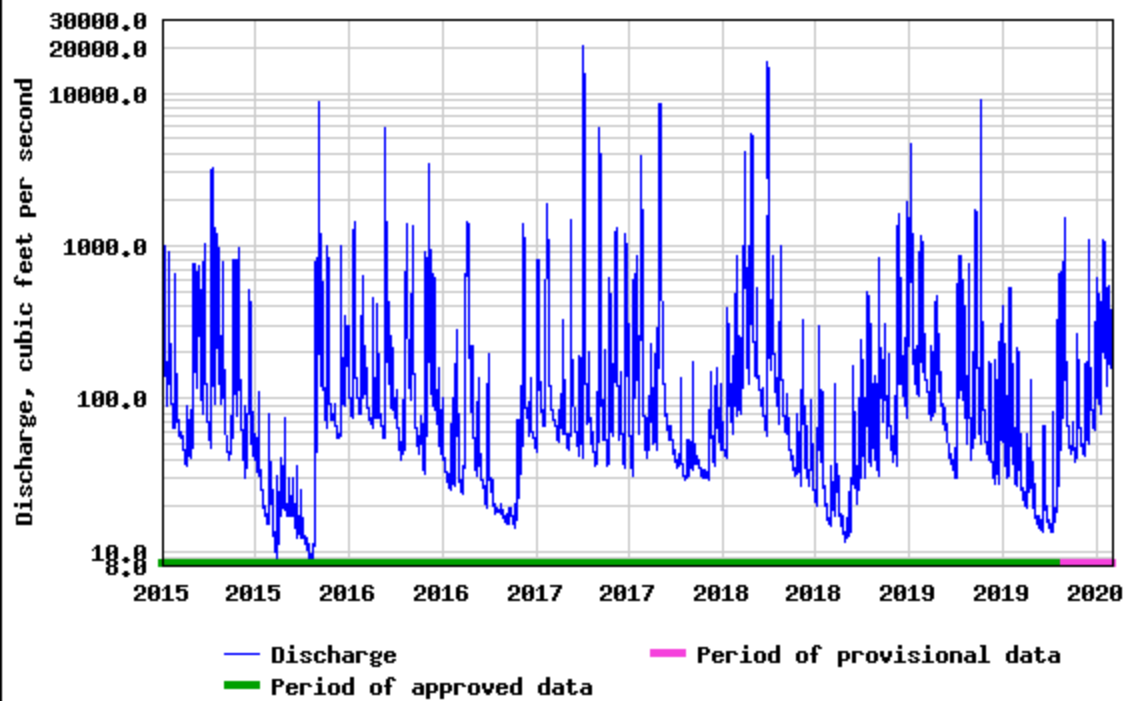


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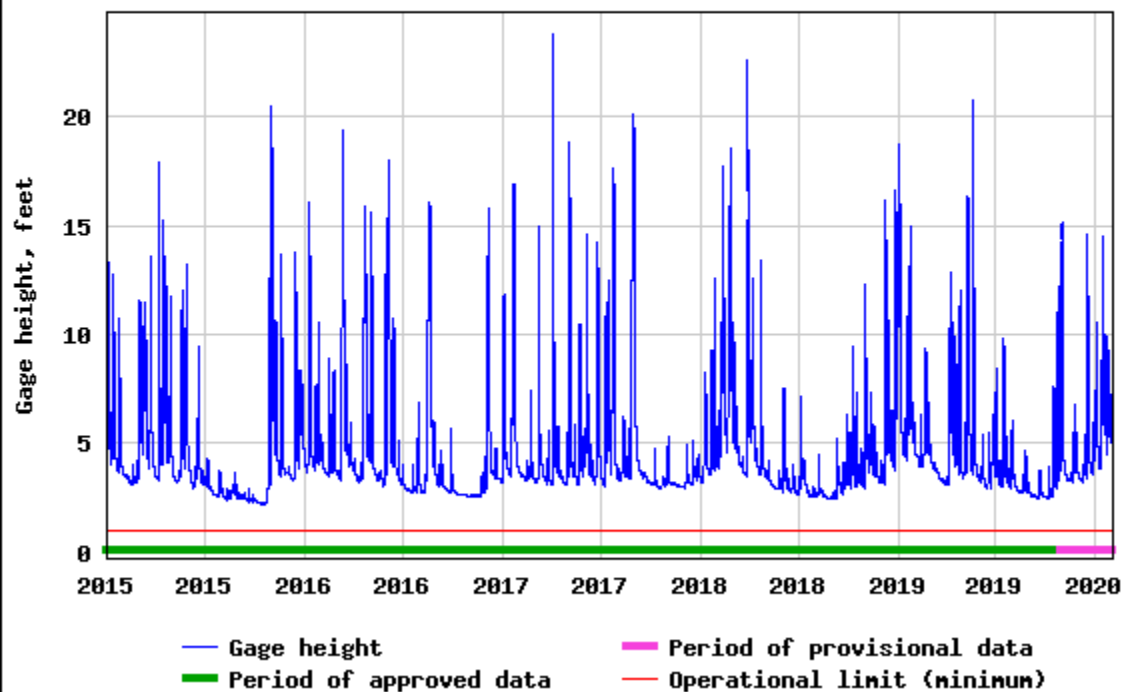




USGS 08014800 Bundick Creek near DeRidder, LA



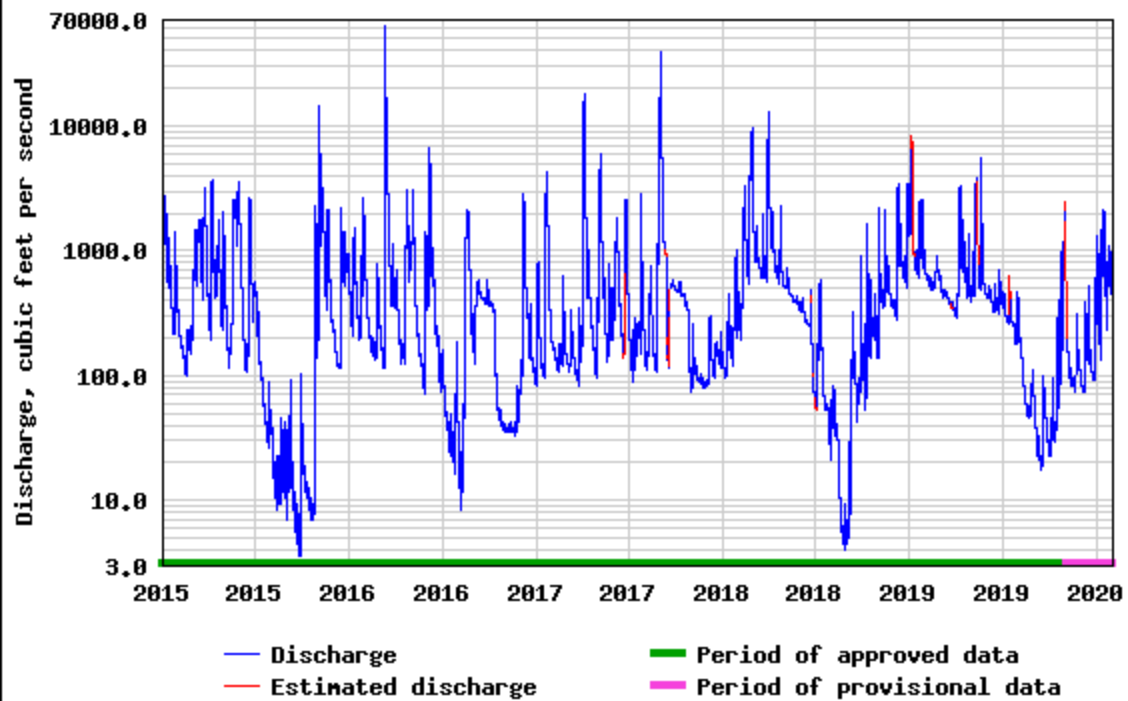
USGS 08014800 Bundick Creek near DeRidder, LA



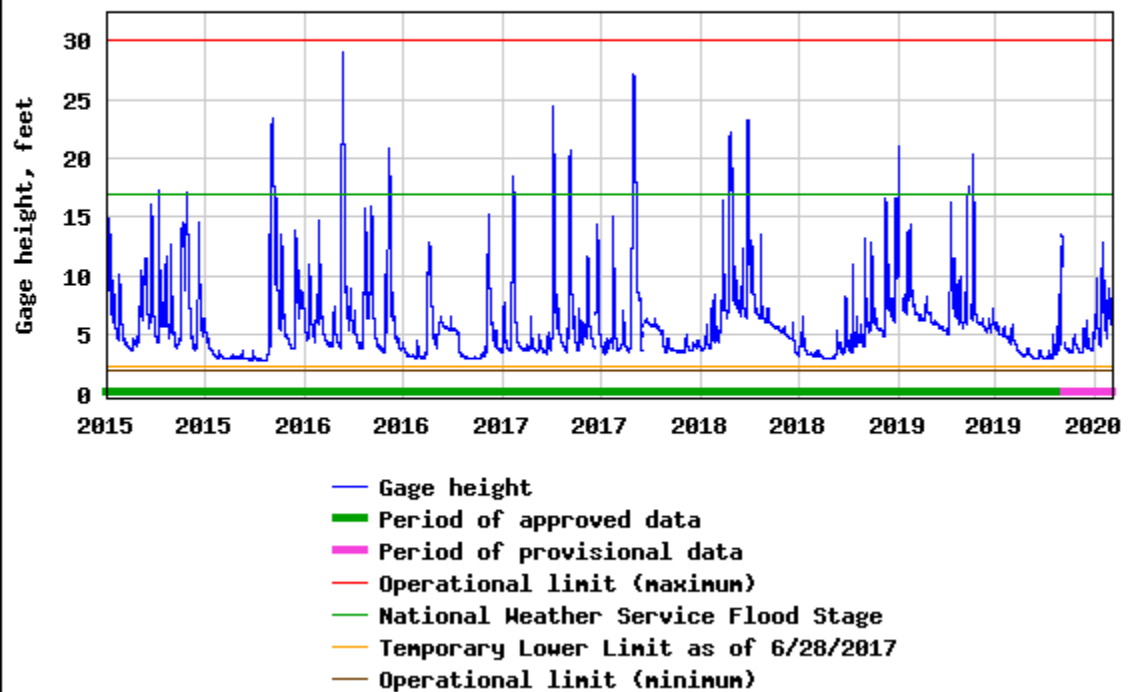
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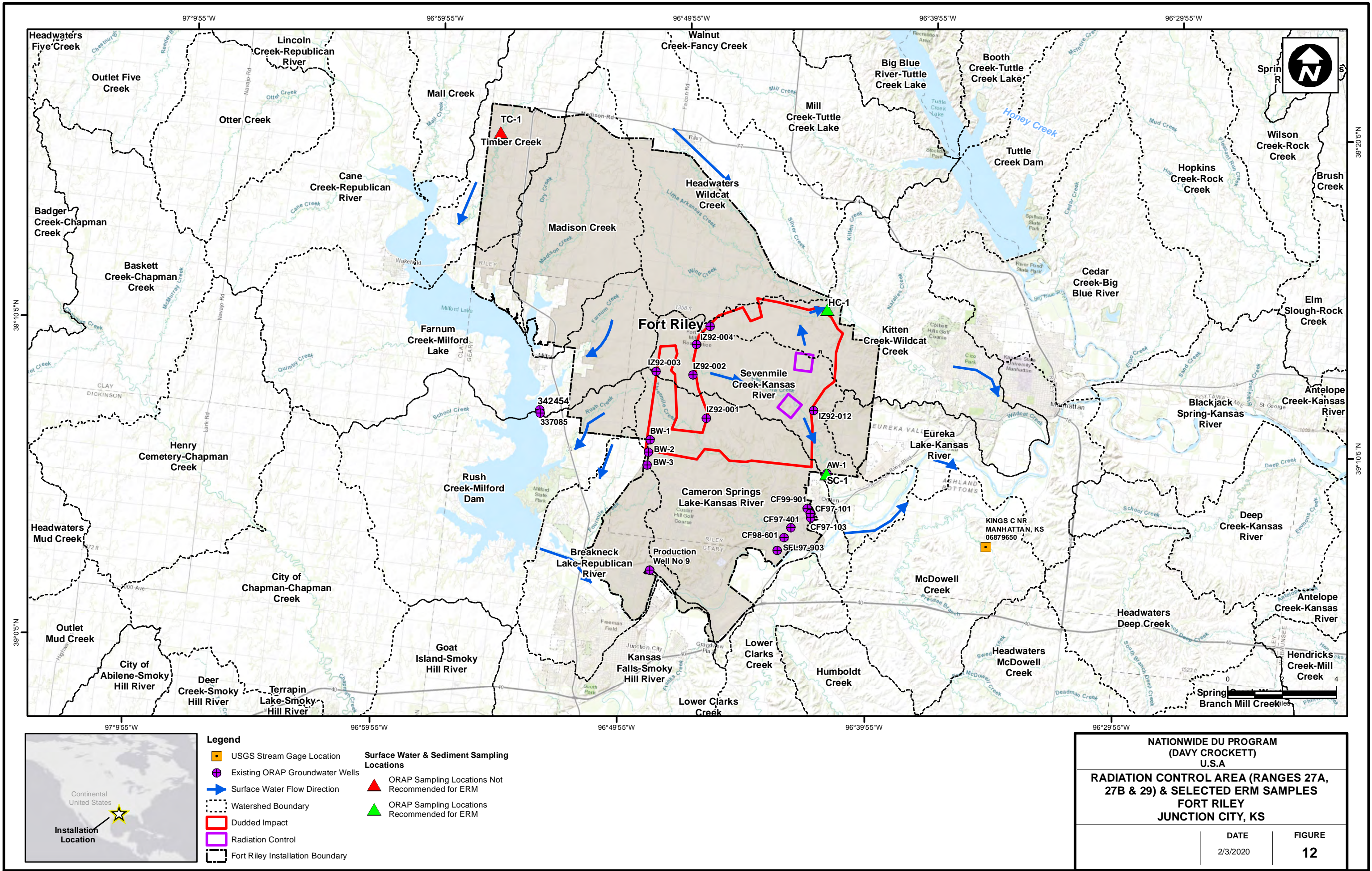
USGS 08028000 Bayou Anacoco near Rosepine, LA

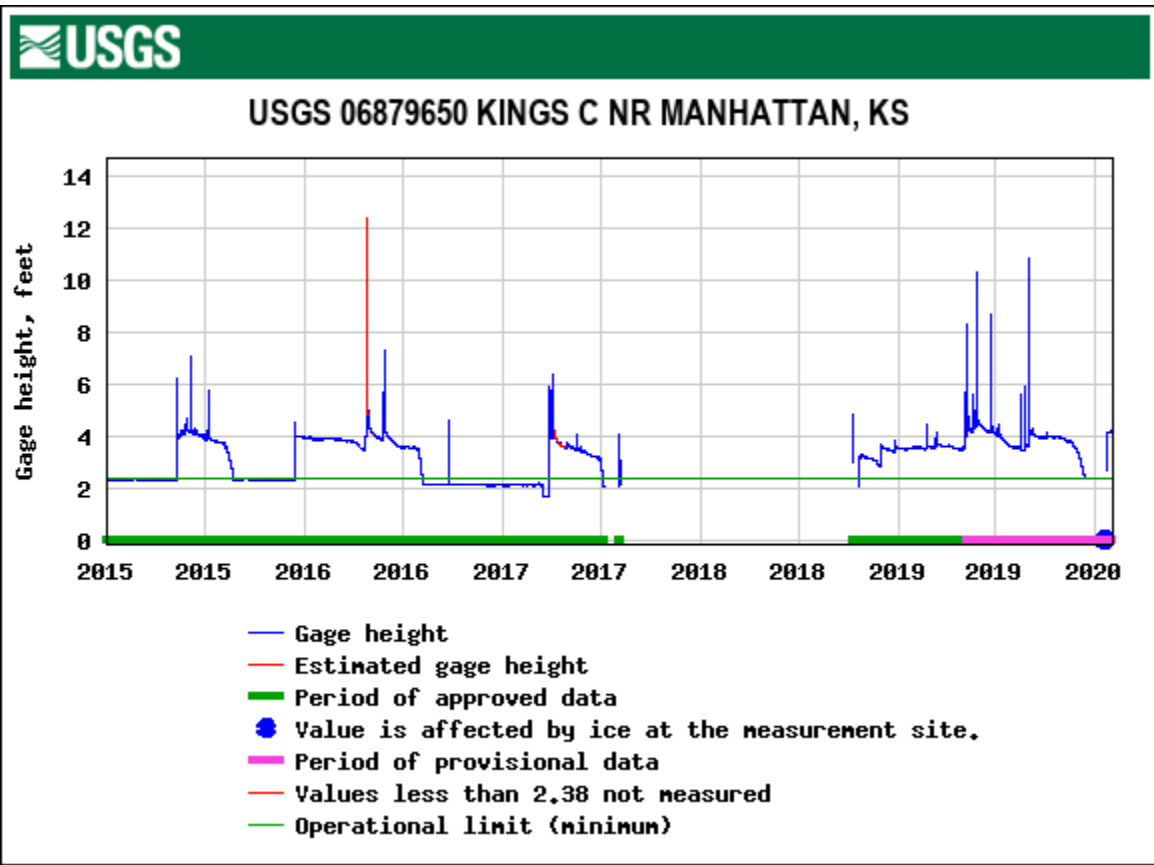
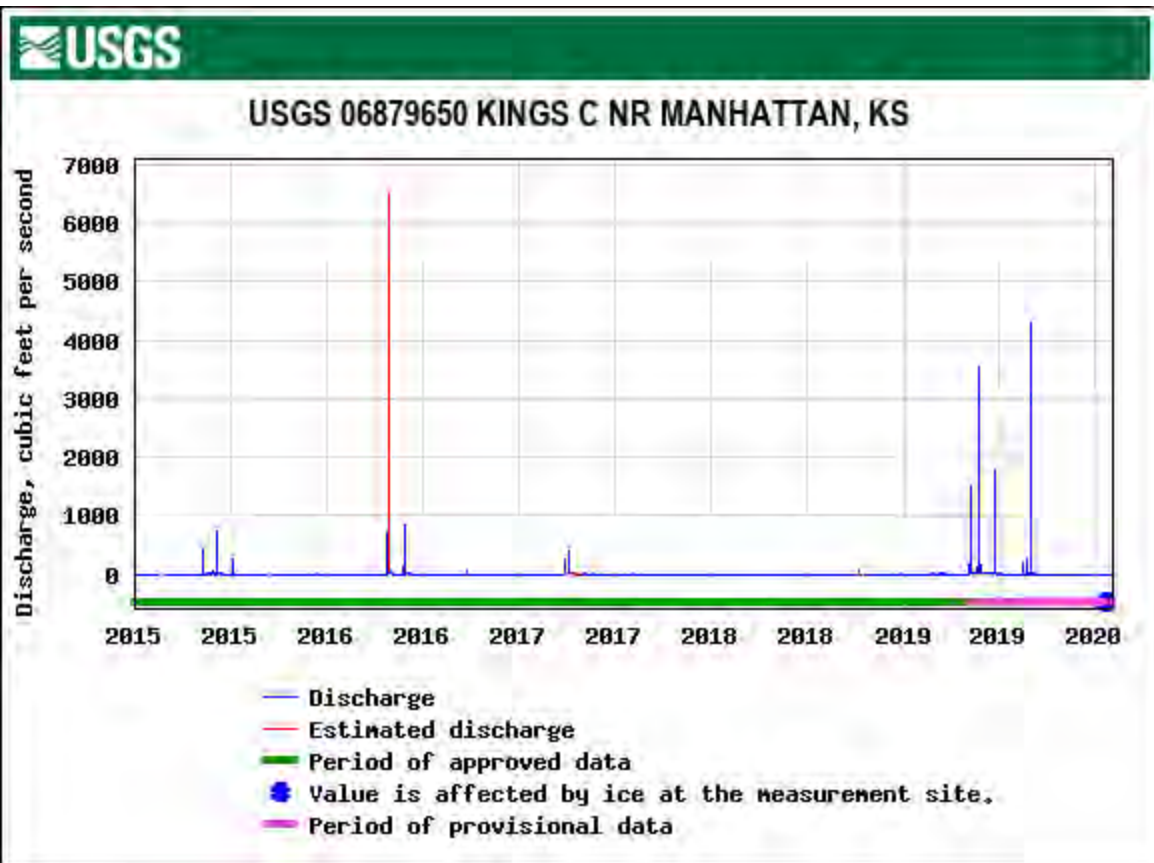


USGS 08028000 Bayou Anacoco near Rosepine, LA

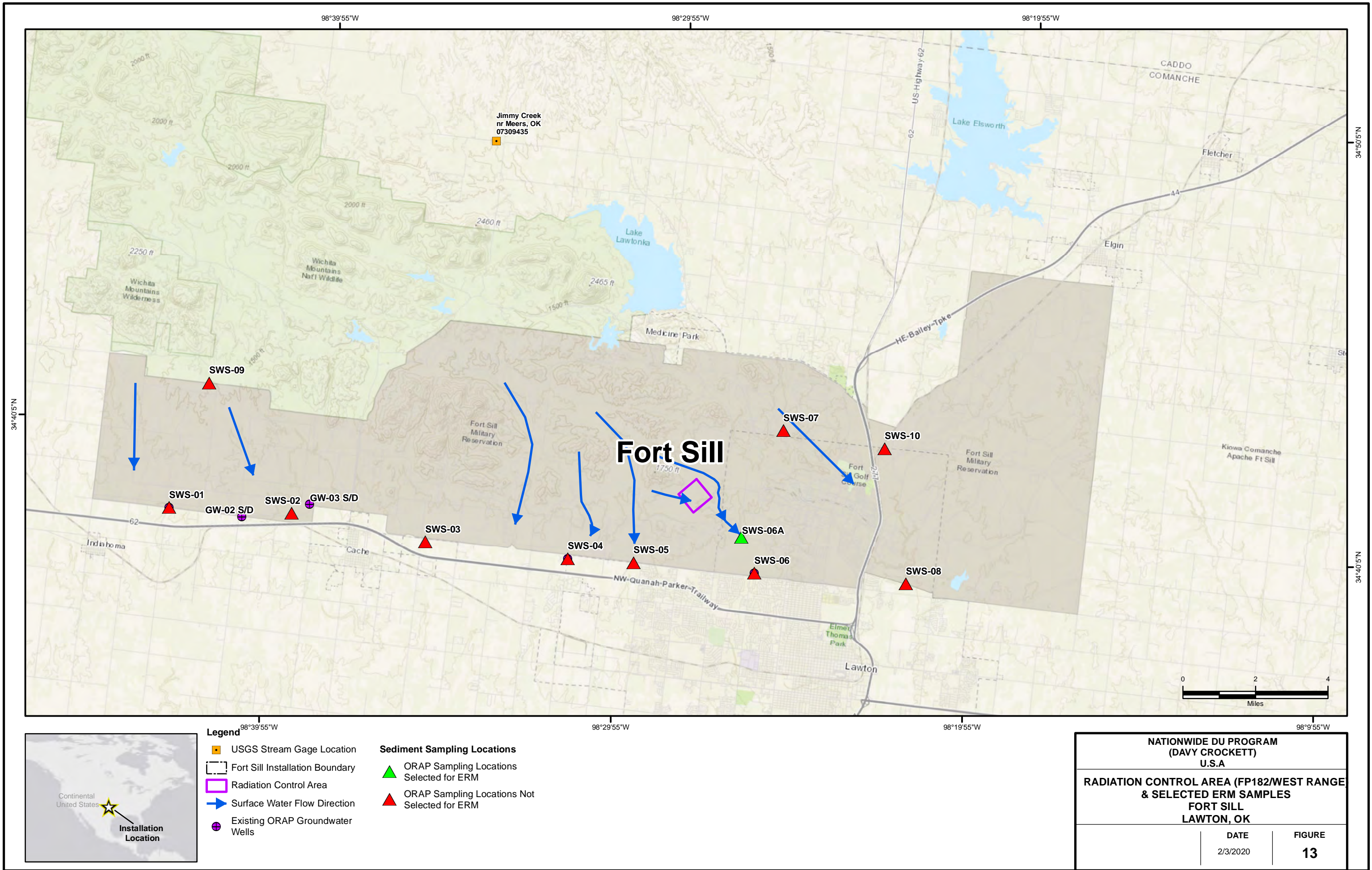


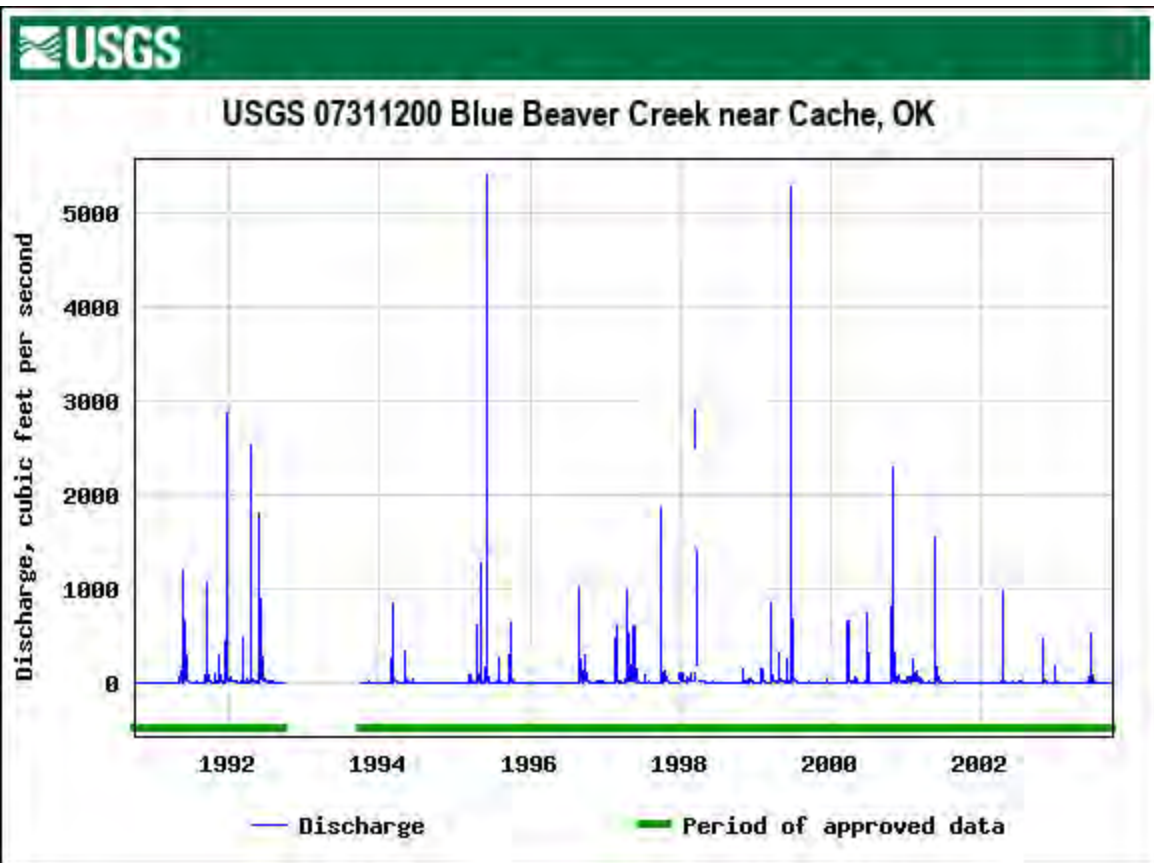
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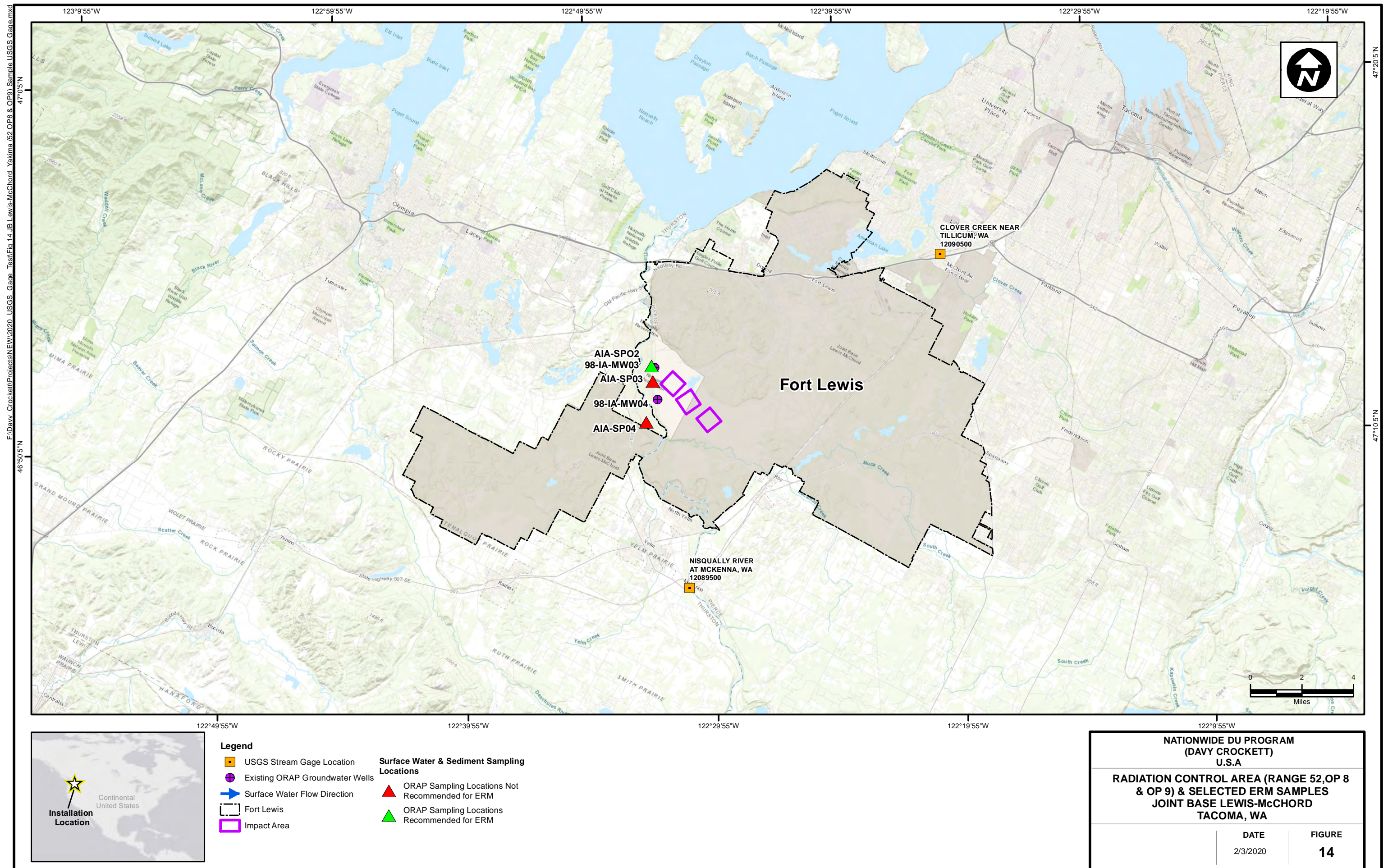


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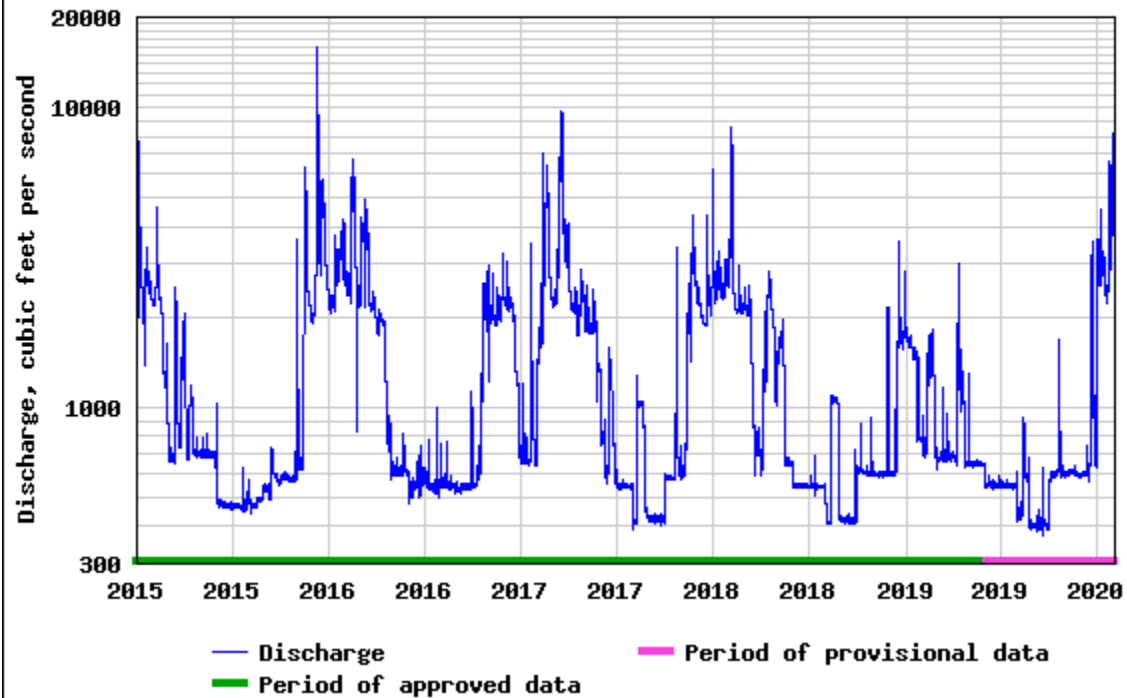


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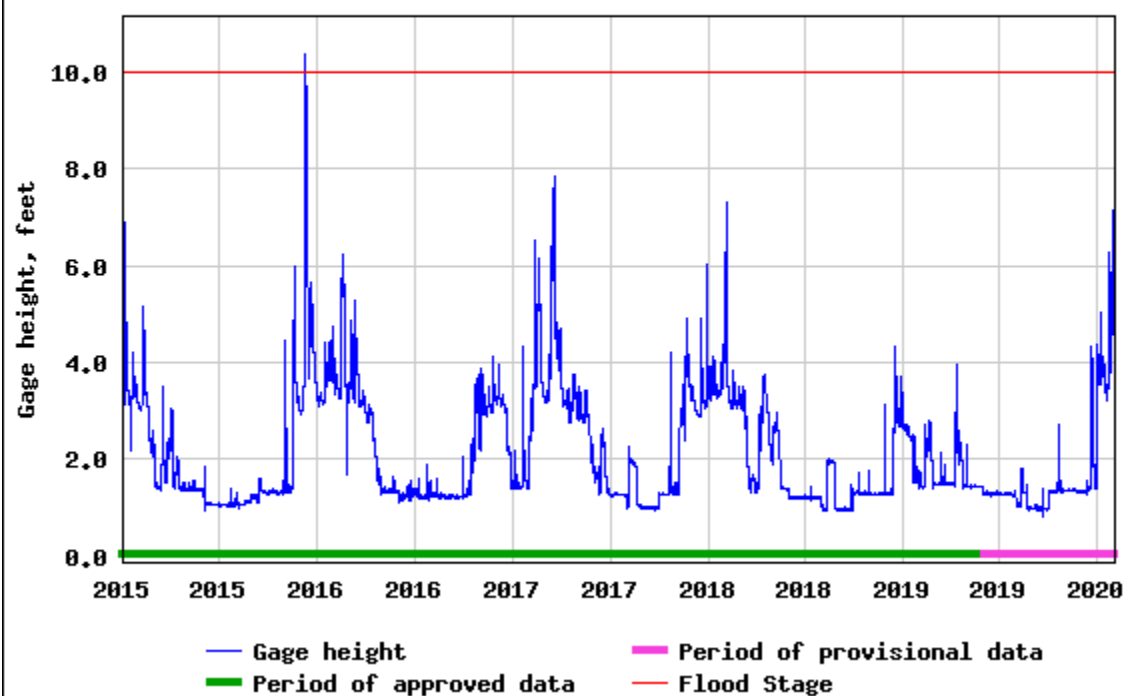




USGS 12089500 NISQUALLY RIVER AT MCKENNA, WA



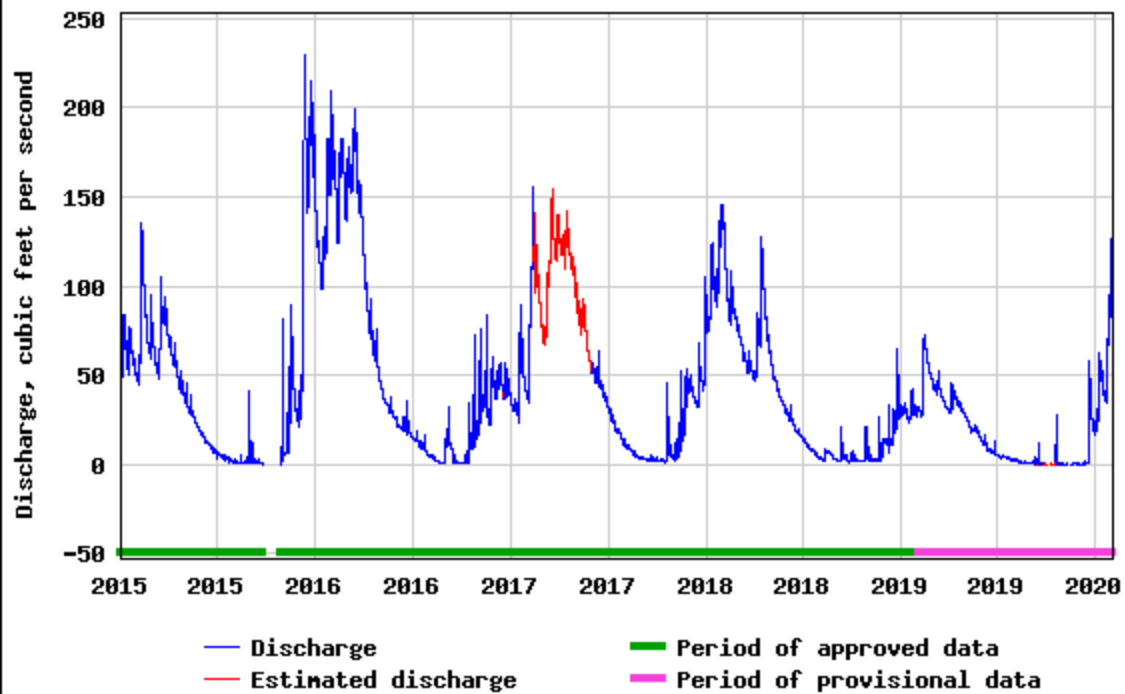
USGS 12089500 NISQUALLY RIVER AT MCKENNA, WA



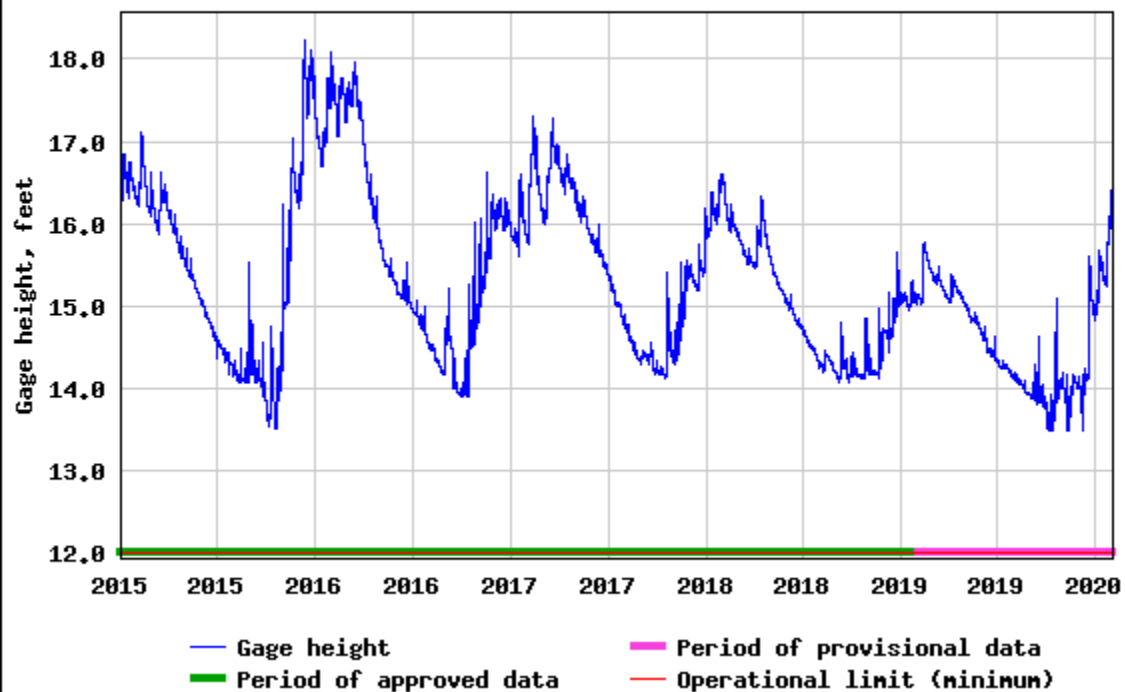
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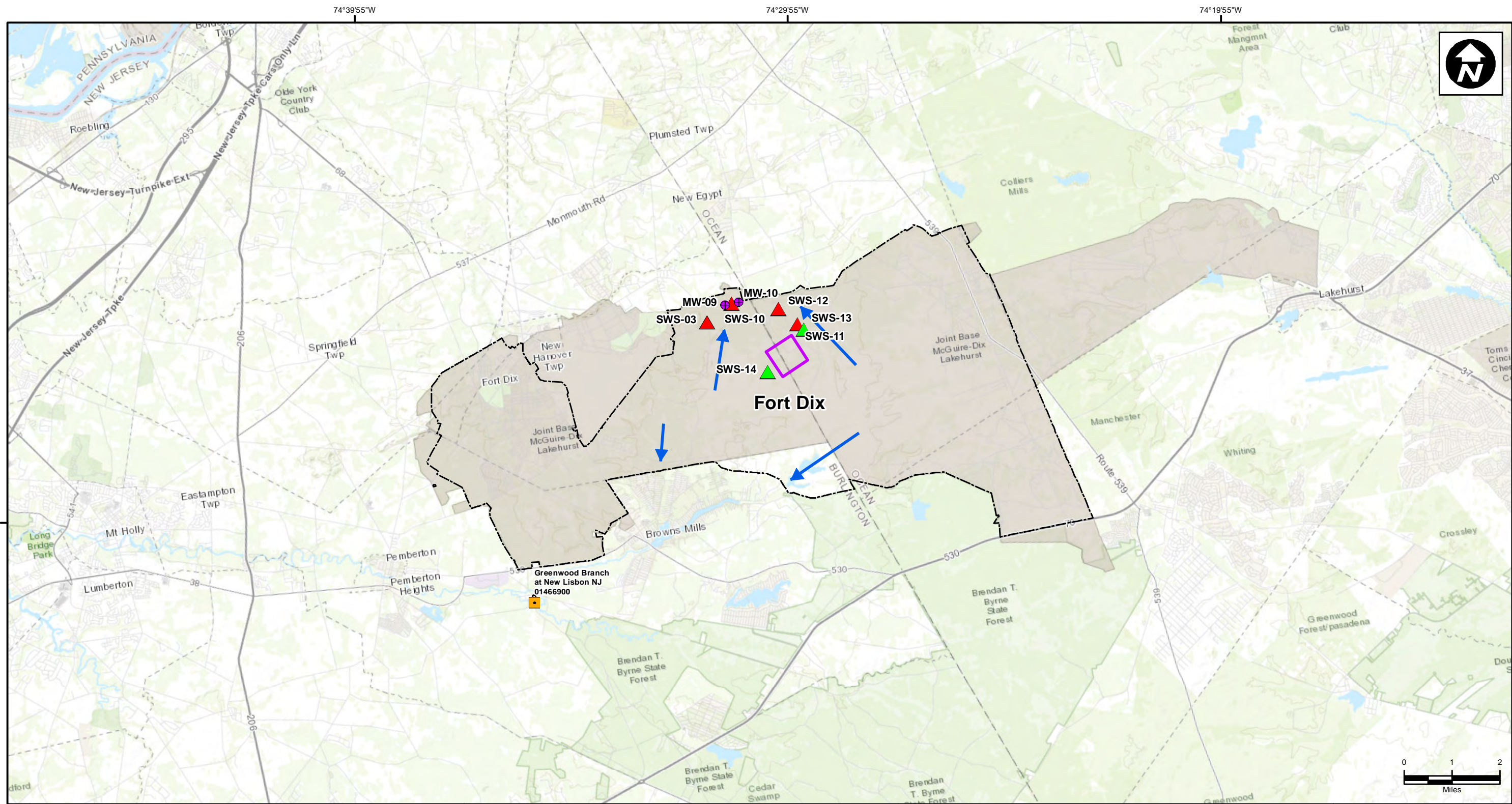
USGS 12090500 CLOVER CREEK NEAR TILlicUM, WA



USGS 12090500 CLOVER CREEK NEAR TILlicUM, WA



Source: https://waterdata.usgs.gov/wa/nwis/uv?site_no=12090500



Legend

- USGS Stream Gage Location
- Existing ORAP Groundwater Wells
- Fort Dix Installation
- Radiation Control
- Surface Water Flow Direction

Sediment Sampling Locations

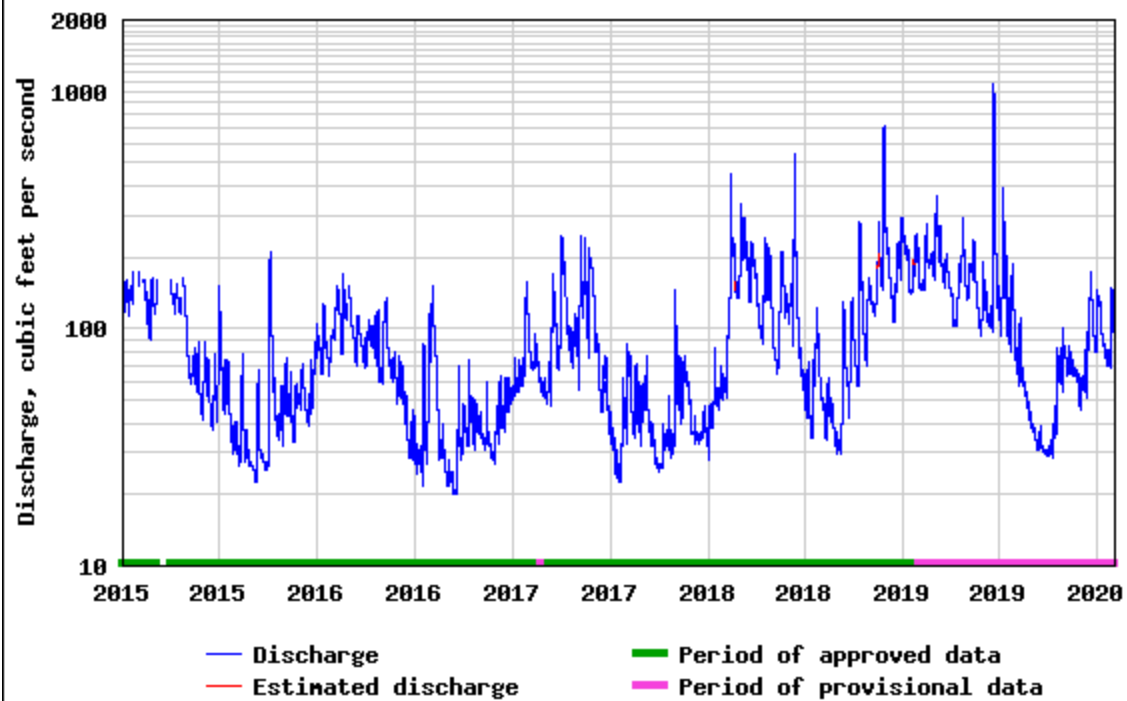
- ORAP Sampling Locations Not Selected for ERM
- ORAP Sampling Locations Selected for ERM

*Note: Only those ORAP sampling locations near the RCA are shown on this figure.

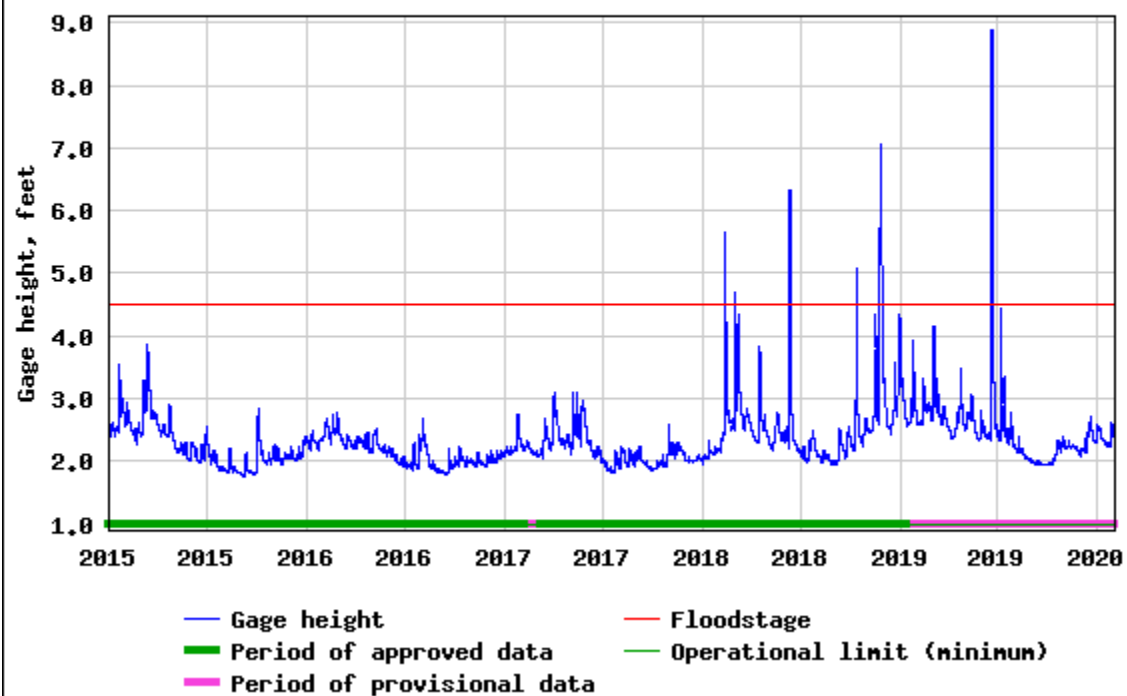
NATIONWIDE DU PROGRAM (DAVY CROCKETT) U.S.A		
RADIATION CONTROL AREA (FRANKFORD ARSENAL RANGE) & SELECTED ERM SAMPLES FORT DIX TRENTON, NJ		
DATE 2/3/2020	FIGURE 16	



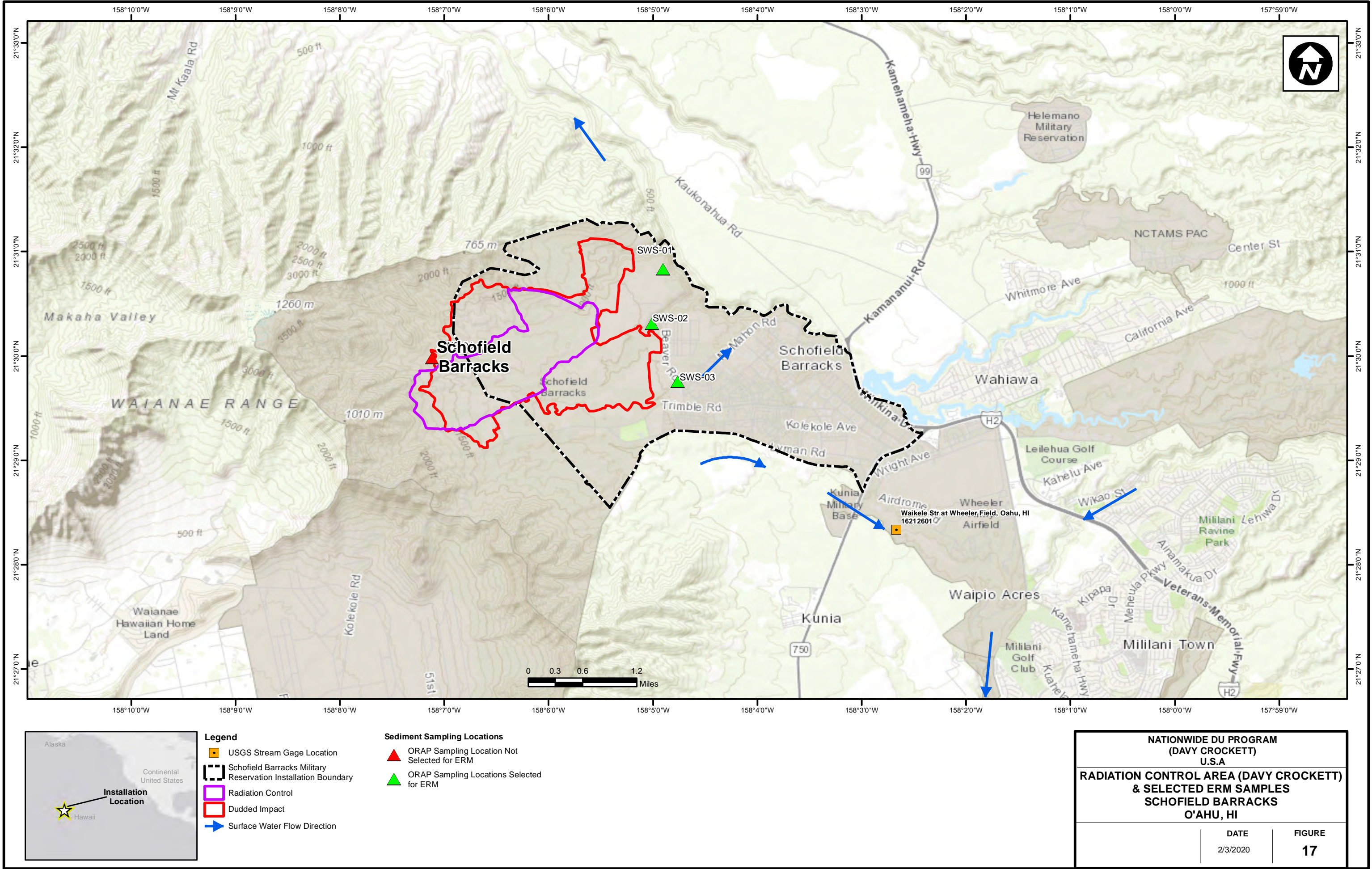
USGS 01466900 Greenwood Branch at New Lisbon NJ

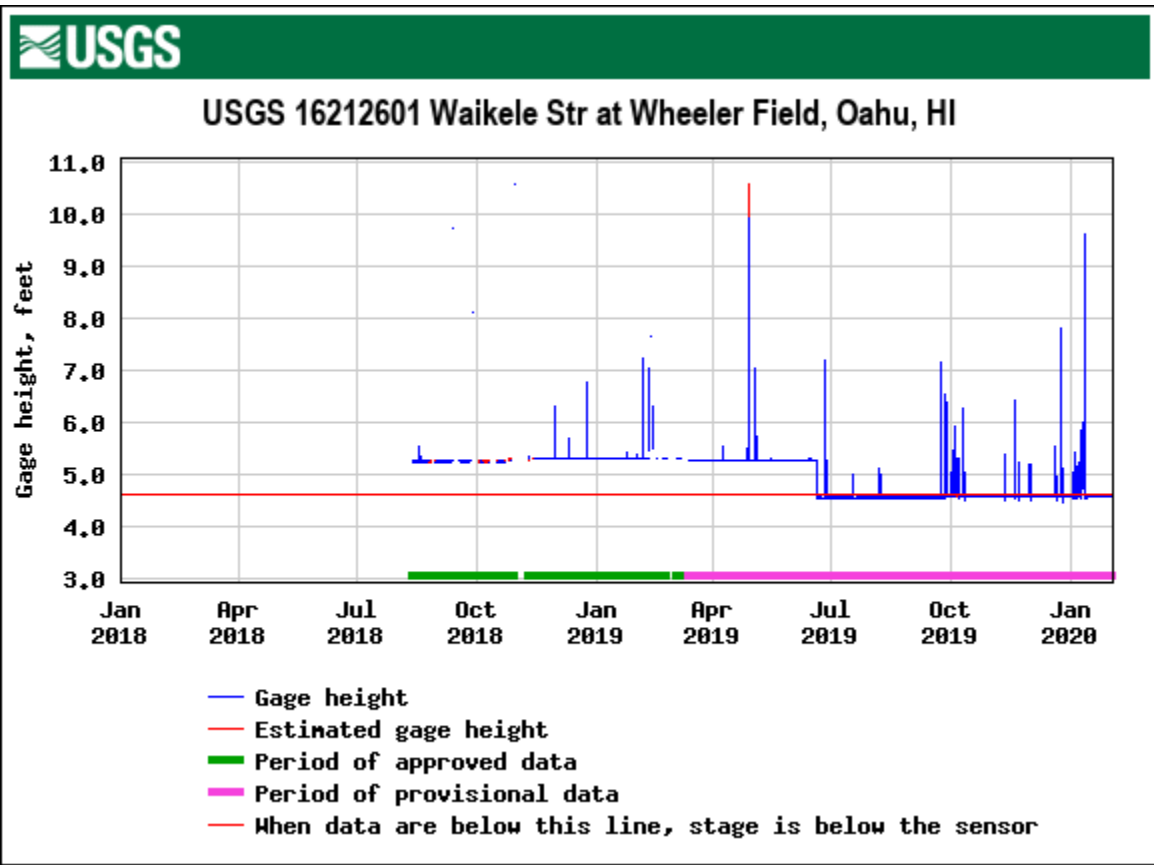
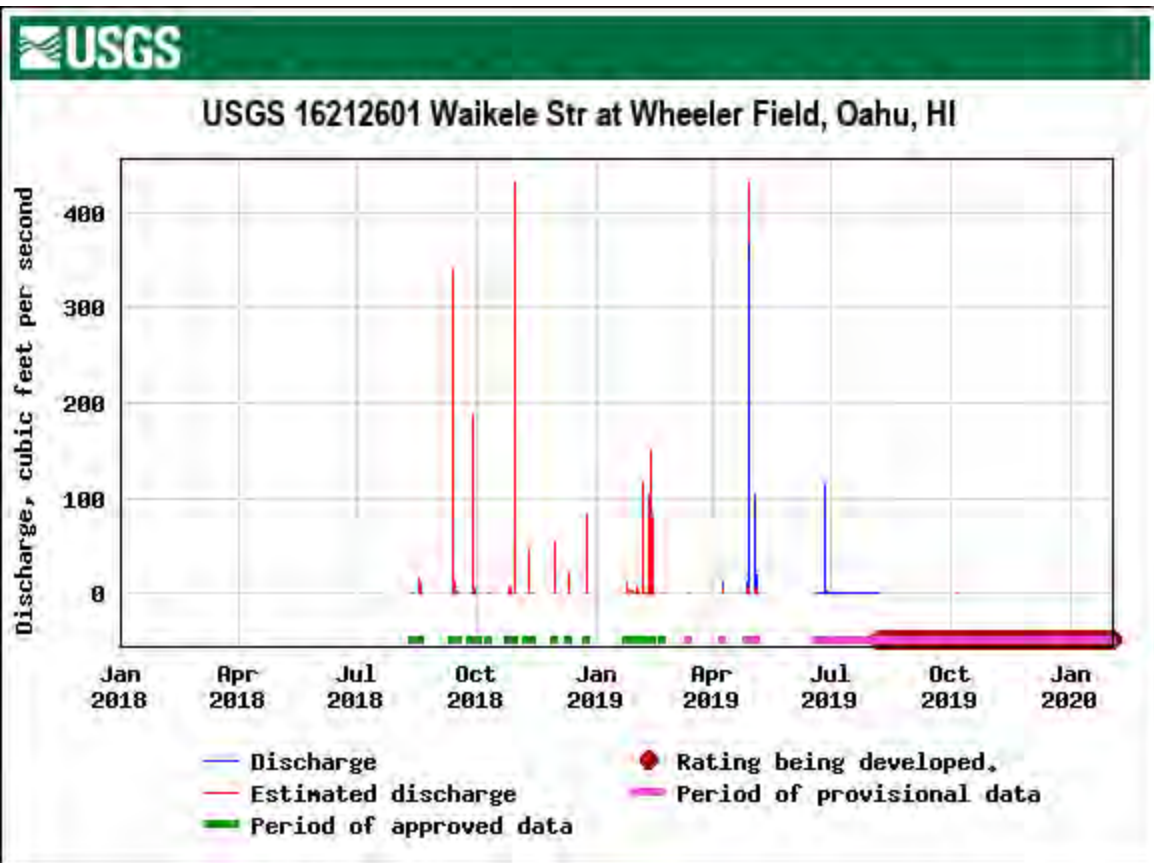


USGS 01466900 Greenwood Branch at New Lisbon NJ

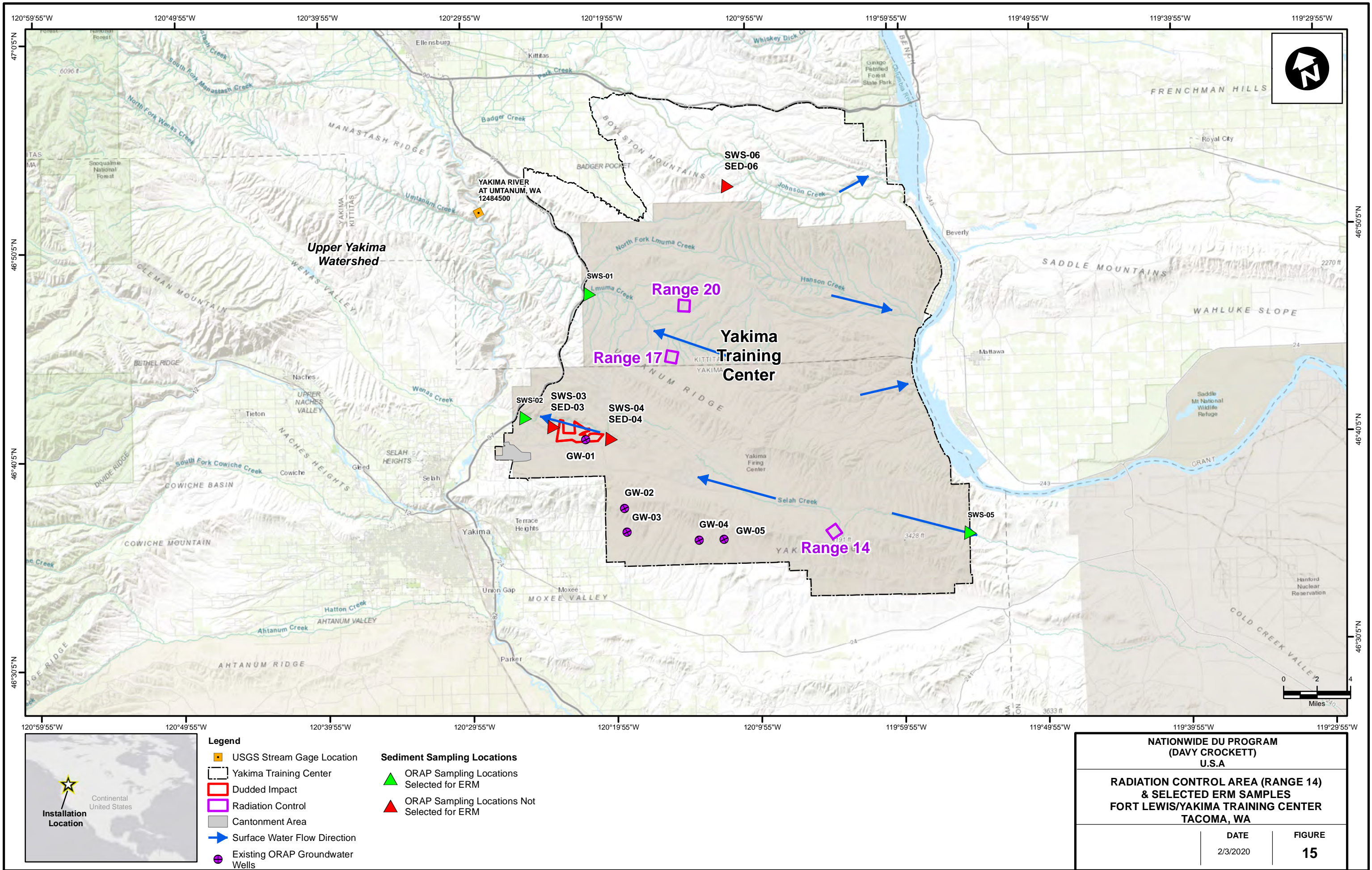


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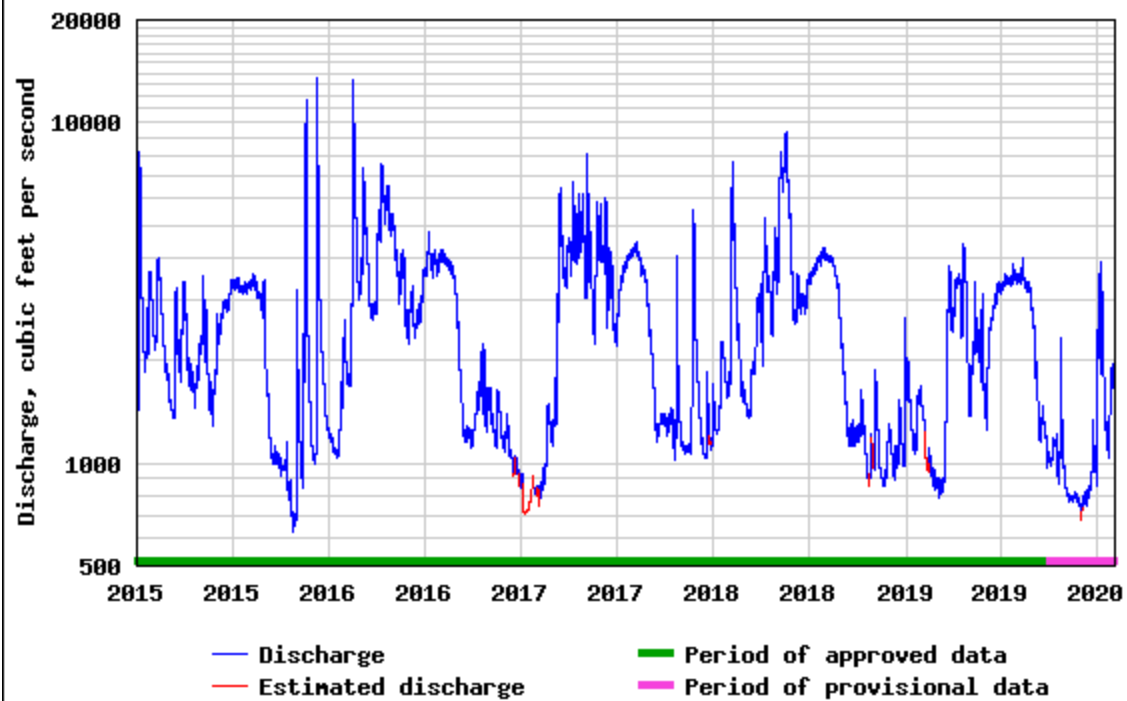


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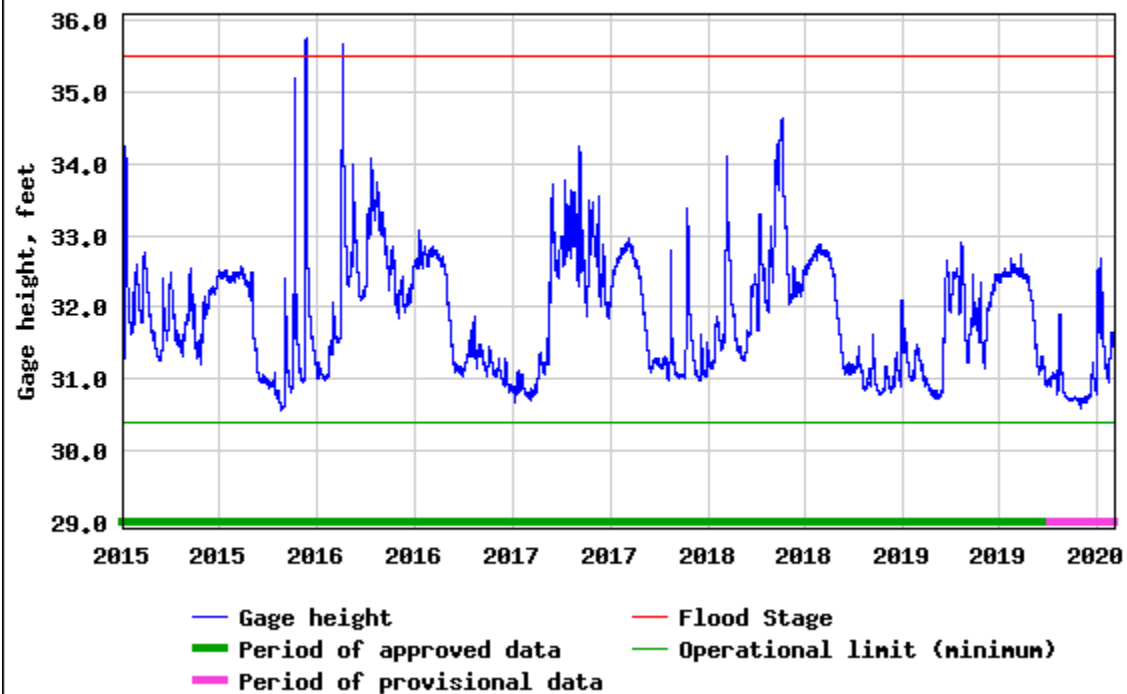




USGS 12484500 YAKIMA RIVER AT UMTANUM, WA



USGS 12484500 YAKIMA RIVER AT UMTANUM, WA



Source: https://waterdata.usgs.gov/wa/nwis/uv?site_no=12484500