

LONG-TERM CONSEQUENCES OF SHORT-TERM THINKING: A STUDY ON THE
EPA REMEDIATION OF ELM CREEK IN PICHER, OKLAHOMA

by

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Introduction

In the early 1960's people began taking notice of the effects of human actions on the environment. Visible damage to our air, water, flora and fauna were brought to the attention of the public through the publication of books like Rachel Carson's Silent Spring. By 1969 public outcry for change spurred congress and the President to create the National Environmental Policy Act (NEPA). NEPA had three goals: (1) to encourage productivity and harmony between people and the environment, (2) to eliminate damage to the environment, and (3) to encourage understanding of the environment (Lewis, 1985). On December 2, 1970, the Environmental Protection Agency (EPA) was established to enforce environmental standards, conduct research, and combat pollution (Guardian, 1992).

In 1980 the federal government established the Comprehensive Environmental Response and Liability Act (CERCLA), commonly known as Superfund, to authorize EPA to investigate and remediate sites that are contaminated with hazardous substances and pollutants. Superfund also forces the responsible parties to pay for the remediation, and in cases where no responsible party can be found, superfund provides the money for the remediation. To become a superfund site, the property must be evaluated and determined to be a risk to human health. It is then added to the National Priorities List (NPL), making it eligible for funding under superfund (EPA, 2018b). After being added to the NPL, the site undergoes a three-step process of investigation, remediation, and post-construction review. When remediation and review are complete, the site can be de-listed (removed from the NPL) and safely re-used and redeveloped. De-listing requires that all the response actions and clean-up goals are achieved, a process which can take years and, in most cases, decades (EPA, 2019b). Superfund sites can range in size from as small as a half-acre to thousands of acres, and they can have multiple contaminants that affect air, soil, sediment, and water quality, all of which can present hazards to human health. The planning, clean-up, and analysis for these sites requires funding from either the responsible parties or the EPA. The EPA superfund budget in 2020 was only \$856 million (EPA, 2019a) for the entire NPL list of 1,335 sites. Between 1986 and 2022, only 447 sites have been completely delisted and deemed safe for re-use (EPA, 2018a).

Of the 1,335 sites presently on the NPL, 104 sites are the result of contamination associated with mining and milling activities (EPA, 2020a). The environmental impacts from mining and milling waste can be sizeable, including acid drainage, contamination of groundwater supplies, and contamination of surface waters and associated sediments, surface and subsurface soils and, physical impacts to the landscape, in addition to impacts on human health, aquatic life and vegetation (Environmental Protection Agency Regions 8, 2000). Examples of the environmental damage caused by mining and milling operations can be found in multiple superfund sites in 32 of the 50 States. In New Mexico, the Cimarron Mining Corporation began mining for iron and other precious metals in 1960, and by the time they closed in 1982 the operations had contaminated the soil, sediment, and groundwater. In 1989, the Cimarron Mining Corporations two locations (which totaled 18.1 acres) were added to the NPL and on September 30, 2020, after three decades of remediation activities these sites were delisted. In Vermont, the Elizabeth Mine began producing iron in the early 1800's and then copper from 1830 to 1958 when the mining ceased. From 1943 to 1958 the mine produced 90 million pounds of copper, leaving two tailing piles, waste rock piles and numerous shafts, tunnels, and on-site structures. The Elizabeth mining site was added to the NPL in 2001 and the remediation work is still on going as of 2022 and is expected to be ready for reuse by February 2023 (EPA, 2020a).

In 2017, EPA released a list of superfund sites determined to be needing immediate and intense action, including the Tar Creek Superfund site (TCSS) in Oklahoma (part of the Tri-State mining district). TCSS's environmental damage was so extreme, that the entire town of Picher, Oklahoma was bought-out by EPA and the residents were relocated (Environmental Protection Agency, 2008; EPA Region 6, 2017).

Background

Tri-State Mining District

In 1850 the discovery of significant amounts of lead and zinc in Oklahoma, Kansas and Missouri resulted in extensive subsurface mining for the next 120 years. Commerce Mining and Royalty Company, Eagle-Picher Company, Federal Mining and Smelting Company, Childers Mining Company, LaCledde Lead and Zinc Company and American Lead and Zinc Company formed the Tri-State Mining district which included 2,500

square miles of the southeast corner of Kansas, the Northeast corner of Oklahoma and the southwest corner of Missouri (Fig. 1) (Council, 2017; Everett, 2020).

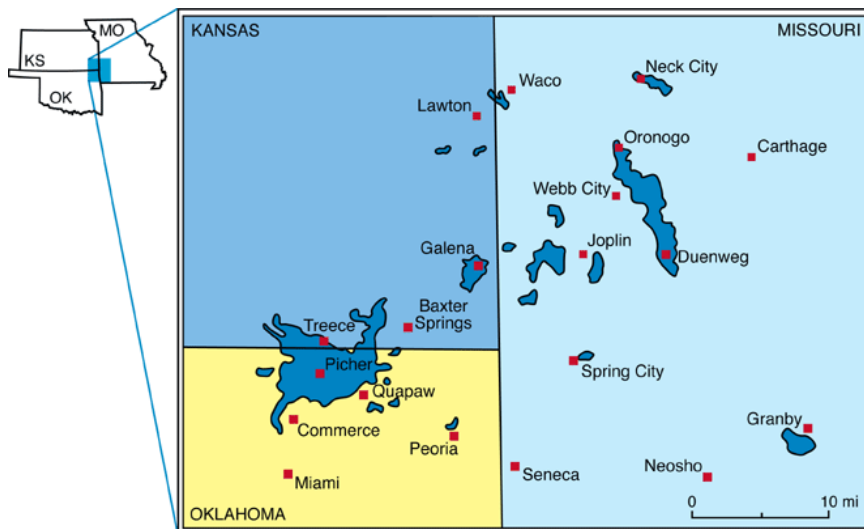


Figure 1: Map of the Tri-State Mining District. Dark Blue represents the mined areas. Image: www.kgs.ku.edu

The mining companies used a subsurface mining method called room and pillar mining to carve out rooms on the first pass that are approximately 30 feet wide and 20 feet tall and spread out in a grid pattern leaving large areas (pillars) in between each room for support. They then mined above and below creating rooms with walls as high as 100 feet. Lastly, the pillars were mined near the end of the total mining process (Brosius & Sawin, 2001; Seeger, 2008). The rock and ore were taken to local milling facilities to be processed. Ore material is generally spread throughout less valuable rock materials, and milling is the process of separating the valuable ore from the less valuable rock materials. Milling is a four-step process that includes crushing or grinding the rock to free the ore, floatation to separate the ore from the rock materials, filtering and dewatering and then finally, tailings disposal (Environmental Protection Agency Regions 8, 2000; Seeger, 2008). In the case of the Tri-State Mining District, the tailings, commonly known as chat, were left in large piles on the land surface because they were deemed to have potential financial benefit to the landowners. (Fig. 2). The contents of these massive chat piles, some as high as 200 feet, are mostly gravel to clay sized particles of chert, and some bits of zinc and lead, along with other metals (Johnson, Gutiérrez, Gouzie, & McAliley, 2016). The estimated

production of zinc and lead for the life span of the Tri-State Mining District is 23 million tons of zinc concentrates and 4 million tons of lead concentrates (Brosius & Sawin, 2001), but for every one ton of ore produced, 16 tons of waste was left behind (Hu, Shine, & Wright, 2007). Residents living in the Tri-State mining district began using the chat in numerous ways, including building driveways and house foundations, they sledded on it in winter and used it to build sandboxes for their children, unaware of the exposure to the lead that remained in the chat (Shriver, 2008). In 1994, 65 of 192 Native American children from the TCSS area tested had blood lead levels in excess of the standards set by the Agency for Toxic Substances and Disease Registry. Additional testing indicated that 97% of the homes in Picher, OK contained lead that exceeded the recommended standards (INSERT Shriver, 2008). The negative health effects related to exposure to lead are well known and documented; exposure to lead in large quantities can cause brain disease that triggers seizures, comas, and cardiac arrest. Smaller chronic exposure causes bioaccumulation of lead in the body that then starts to impair kidney function, weakens immune systems and causes degenerative brain disease (Shriver, 2008; US Department of Health and Human Services, 2020). In children, exposure to lead is worse than adults, because their developing bodies more readily absorb the lead, leading to impaired brain development, decreased cognitive function, and behavioral issues (Q. Wang, 2009; Shriver, 2008; US Department of Health and Human Services, 2020).



Figure 2: Chat pile and abandoned structure near Picher, Oklahoma. (Photo: Author)

Tar Creek

While the Tri-State mining district covers three states and four EPA superfund sites, some of the most intensive mining happened in and around the town of Picher, OK (peak population: 14,252 in 1926) where nearly 37% of zinc concentrates and 42% of lead concentrates were produced (EPA, 2020c; Johnson et al., 2016; Mathews, undated). Mining in the areas around Picher began in 1891 and continued until 1970 when the last of the small mining companies closed (Fig.1) (EPA, 2020c). During the mining, groundwater that seeped into the mines from the Boone aquifer was pumped out to nearby surface waters to keep the mine dry. When the mining stopped, the pumping stopped and the mine cavities filled with groundwater and oxygen-rich rainwater (Council, 2017) which comes into contact with exposed ore and oxidizes, producing metal-rich acid mine drainage that will eventually seep back to the surface (Hudson, 1999). In 1979, the water that had been filling the abandoned mines near Commerce, OK began flowing onto the surface and into Tar Creek. The mine drainage killed the biota and stained the creek red as a result of ferric hydroxide deposition (EPA, 2020d). This was the event that finally brought attention from the EPA and the State of Oklahoma to the area now known as

the TCSS (EPA, 2020d). The poisoning of the waterways in and around the towns of Commerce, Picher, and Quapaw, OK led the state of Oklahoma to establish the Tar Creek Task Force who investigated the mine drainage effects. The State's investigation prompted the EPA to declare Tar Creek a superfund site and it was officially added to the NPL on September 8, 1983. The boundaries of the entire Tar Creek Superfund site remain undefined; however, the superfund site includes any area within Ottawa County, OK that has been impacted by historical mining wastes, which originally included an estimated 325 chat piles, although the actual number is unknown (Fig. 1) (EPA, 2020d).

Purpose & Objectives

The aim of this thesis was to determine the effectiveness of an EPA remediation of a stream (Elm Creek) contaminated by mine waste materials to acceptable levels for arsenic (As), cadmium (Cd), iron (Fe), lead (Pb), manganese (Mn), and zinc (Zn) in both water and sediment. To assess the impact of the remediation this study sampled the water and sediment within a one-mile reach of Elm Creek, located in TCSS, quarterly for a period of nineteen months during the remediation of a single chat pile adjacent to the creek. The water and sediment were analyzed to determine levels of As, Cd, Fe, Pb, Mn, and Zn, both upstream and downstream of the remediation. To further assess the extent to which the contamination found within Elm Creek can be attributed to the adjacent chat pile, we monitored a range of variables including depth of water in the stream (water depth), stream velocity (velocity), turbidity, sediment input and discharge, conductivity, pH, and dissolved oxygen (DO). The expectation for this study was a drop in the levels of As, Cd, Fe, Pb, Mn, and Zn in the water and sediment, which would confirm that the cleanup and removal of mine waste materials is effective at returning the water and sediment to acceptable levels. Additionally, increases in depth, turbidity, velocity, and sediment input that correlate with known rainfall events, as well as increases in conductivity and decreases in DO were expected, which would indicate increased sediment input of contaminated sediments during known rainfall events.

Study Area

The study site is an approximate 0.5 square mile area in Picher, OK, that was previously a disposal site for local mining chat. The area commonly identified as "CP004 Distal Group" or "Bird dog" (Fig. 3) is being remediated

jointly by the EPA and Tribal Nations (United States Environmental Protection Agency, 2017). The north, south, and eastern perimeters of the site are unpaved (gravel) country roads (Treece Rd, E20 Rd, and S560 Rd, respectively) and the western perimeter is met by another approximate 0.5 square miles of agricultural field and then paved road (S550 Rd) beyond (Fig. 3). Elm Creek flows from north to south along the eastern boundary of the Bird Dog Area, immediately adjacent to the chat pile on the west. Agricultural fields are located to the east of Elm Creek. The headwaters for Elm Creek are located ~2.5 miles north of the study site, which is part of the 22.7 square mile Elm Creek Watershed. Elm Creek enters the study area through a concrete culvert located beneath Treece Road, then flows through the study area for an approximate 1-mile reach before exiting the study area through another concrete culvert beneath E20 Rd. During heavy rainfall events, ponding occurs directly north of each culvert. The unnamed tributary enters the study site in the northeastern corner, by flowing under S560 Rd and during heavy rainfall events it also flows over S560 Rd. The entire Bird Dog Area is generally flat, with only 2 to 5 feet in elevation change; however, the elevation increases by as much as 14 feet to the east and as much as 24 feet to the northwest of the study site. Surface water flow is to the east and south on the western side of Elm Creek and to the west and south on the eastern side (ch2m, 2018)(United States Environmental Protection Agency, 2017). Groundwater in the area is comprised of two aquifers: the Boone and the Roubidoux. The Boone aquifer is unconfined and near the surface and is recharged primarily from precipitation. Beneath the Boone aquifer is a confining layer of shales and limestone which separates the Boone aquifer from the lower Roubidoux aquifer. However, ground water elevation in and around the study area indicates a groundwater mound which suggests that the study site and the area directly west of the study site is a recharge zone for the Boone Aquifer (ch2m, 2018). The Roubidoux Aquifer receives its recharge from precipitation and seepage in its outcrop areas which are located in the Ozark Mountains, ~50 to 100 miles east of Ottawa County, OK (United States Environmental Protection Agency, 2017).

To monitor the sediment and water quality and identify the origins of the metal contamination in Elm Creek, three sampling locations (Fig. 3 on page 14 & Table 1 on page 20) were selected for monitoring: the north gauging station (north location) at the culvert under Treece Road, the unnamed tributary that joins Elm Creek within the study site, and the south gauging station (south location) at the culvert at E20 Road. The north and south locations were chosen for the ability to install continuous stream monitoring equipment on the culverts,

while the third location was chosen to determine any potential contributions from the unnamed tributary to Elm Creek.

Elm Creek and the Bird Dog Area is ideal for this study because before entering the study site, Elm Creek flows through agricultural lands with no mining chat present until it reaches the study site. There are no other nearby chat piles within or adjacent to the study area; therefore, the only known source of metals contamination is the chat pile located on the Bird Dog Area (Fig. 3). Additionally, there are no man-made or natural barriers that would prevent the chat pile runoff from entering Elm Creek.

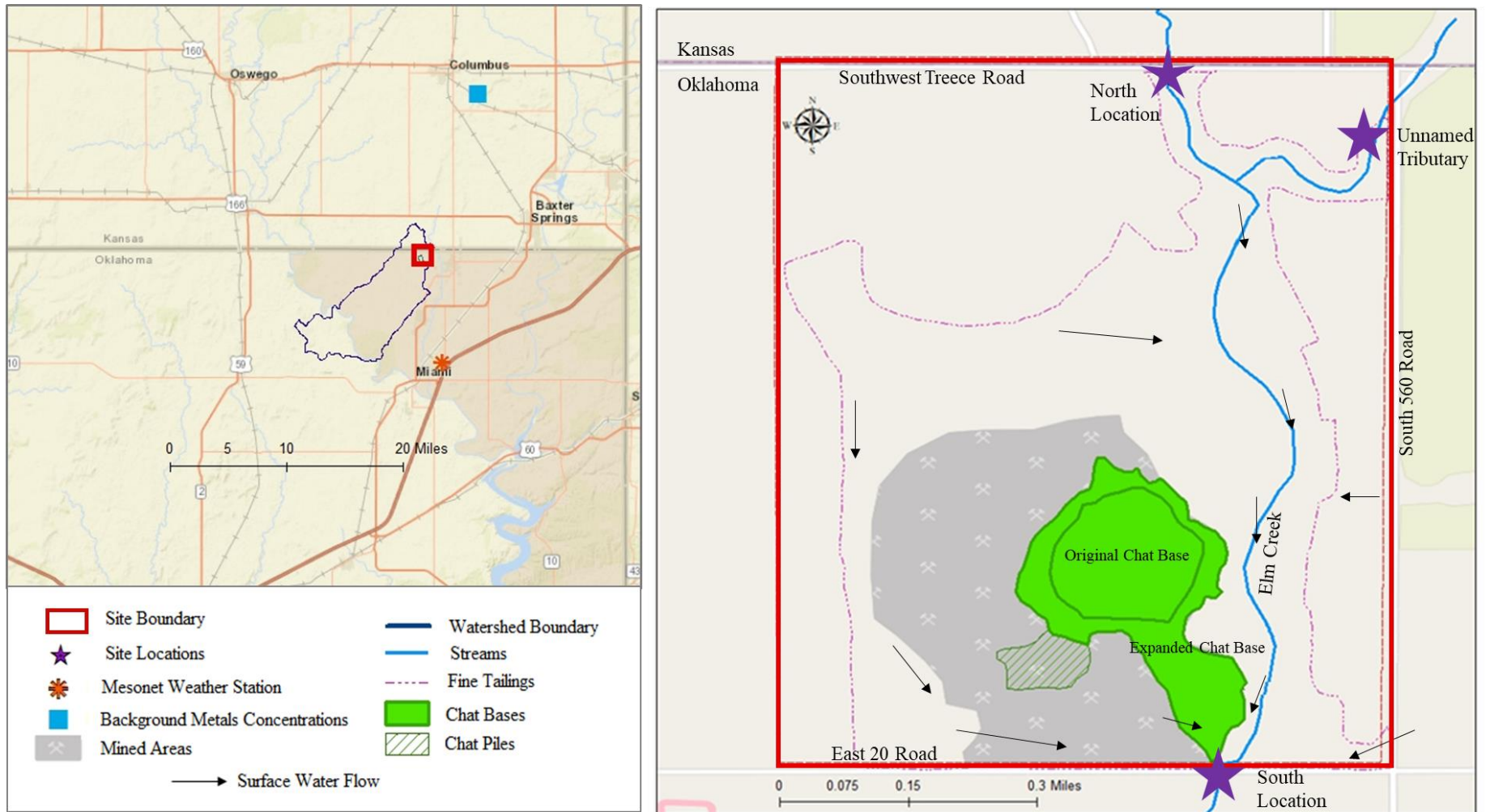


Figure 3: Map of the study area.

Remediation for the entire Tri-State Mining District generally includes the removal of chat piles and underlying and/or nearby adversely impacted surface soils. The remediation plan for the Bird Dog Area consists of three steps 1) removal of marketable chat, 2) the consolidation of unmarketable chat, contaminated soils, and sediment from Elm Creek and its floodplain and placement at a local solid waste management unit, 3) the development of surface water controls to prevent continued contamination of the Elm Creek, including the installation of sediment traps in Elm Creek to promote the settling of contaminated materials. The remediation plan established target concentrations for Cd (10 mg/kg), Pb (500 mg/kg), and Zn (5500 mg/kg) in sediment. There are no target concentrations for As, Fe, and Mn in sediments (ch2m, 2018). The remediation plan lists target concentrations (discharge criteria based on calculated acute exposure limits) of Cd (0.0061 mg/L), Pb (0.303 mg/L), and Zn (0.287 mg/L) in surface water (ch2m, 2018). The Safe Drinking Water Act lists maximum contaminant levels (MCLs) in drinking water for As at 0.010 mg/L, and secondary MCLs for Fe (0.30 mg/L) and Mn (0.05 mg/L)(United States Environmental Protection Agency, 2021).

During the study period, the remedial efforts identified additional marketable chat at the southern boundary of the study site. As a result, starting as early as December 2020, an earthen dam was built above the south sample location to control creek flow from the north sample location, essentially creating a large retention pond (Fig. 4). From mid-April 2021 to August 2021 water was diverted to the retention pond while the construction crew removed the marketable chat. Water was pumped via a large hose from the retention pond into the Elm creek south of the study site. Lastly, in September 2021, a test pit was excavated at the north

location (Fig. 5) that helped to identify the depth of the contaminated sediment in Elm Creek



Figure 4: a) Pre-construction – September 2019, b) during construction – January 2021, and post construction – July 2021 images of earthen dam and new retention pond. Before image courtesy of Quapaw Nation Environmental Office.



Figure 5: Left to right: water hose through culvert at south location and test pit at north location.

Methods

Data collection for this project included: quarterly sampling, continuous collection with permanently installed equipment, and one-time sampling and measurements. Quarterly site visits were conducted to collect samples of sediment and water for laboratory analysis, field measurements including water depth, velocity, pH, DO, and conductivity using handheld equipment, and water samples for suspended sediments analysis. During each site visit, equipment was inspected and maintained, and data from continuous probes installed on the culverts at the north and south locations was downloaded. Note that the unnamed tributary was only sampled when water was present.

Quarterly Sampling

During the first quarterly site visit, a few one-time activities were completed: continuous collection equipment was installed, culvert areas at the north and south locations were measured, and sediment samples were collected for grain-size analysis from the north and south locations and the unnamed tributary. The remainder of the activities described in this section were completed quarterly.

Surface water and sediment samples were collected for laboratory analysis of metals and suspended sediments analysis. Velocity, conductivity, DO, and pH measurements were also collected at a minimum of quarterly intervals.

Water and sediment samples were collected to analyze for As, Cd, Fe, Mn, Pb, and Zn. The following methods were used at each sampling location, beginning with the downstream location (south location), and moving upstream (north and unnamed tributary) to prevent disturbance or contamination at upstream locations:

- A. Surface water samples were collected in lab-supplied, preserved (nitric acid) containers by slowly wading to the middle of the stream and carefully inserting the containers into the stream. The containers were inserted in the upstream direction with the bottles only slightly tilted to allow the stream water to slowly fill the bottle without spilling the preservative or overfilling (EPA, 2016b).
- B. Sediment samples were collected in labeled resealable bags by slowly wading into the stream and scooping a large sample from the stream bed with a metal shovel. To prevent the loss of any fine materials, excess water was carefully drained from the shovel and a plastic shovel was used to remove a smaller lab sample from the large sample, thus preventing cross-contamination from the

metal shovel (EPA, 2020b). Sediment samples collected were visually representative of the sediments found at each sampling location.

- C. The samples were then labeled with the location and collection date, listed on chain of custody documents, and transported in a cooler to a commercial lab, Meridian Analytical Labs, LLC, for metals analysis using EPA method 6010 in accordance with SW846 (Solid Waste: Physical/Chemical Methods Compendium). This test uses inductively coupled plasma-optical emission spectrometry (ICP-OES) to convert the analyte of interest to an excited state of gas-phase atoms or ions. When the atoms or ions return to their grounded state, they emit light at wavelengths characteristic to each individual element. The intensity of this light is proportional to the concentration of the element within the sample (EPA, 2016c). To ensure accurate results, the commercial lab followed quality control (QC) and quality assurance (QA) guidelines set forth by the EPA in SW846, including performing multiple blind quality control samples. Meridian Labs is certified by the National Environmental Laboratory Accreditation Program through the State of Kansas, they are also certified in Oklahoma (Meridian Analytical Labs, 2021).

To measure velocity, a Global Waters Flow Probe FP111, which was calibrated in accordance with the manufacturer's instructions, was used. The probe has a range of 0.3 to 19.9 ft/sec and an accuracy of 0.1 ft/sec. The probe was inserted to a depth of ~60% at or near the center of the stream at both locations and measurements were taken in feet per second over a range of conditions, at least quarterly.

To measure conductivity (siemens), DO (mg/L) and pH, handheld meters from Exstik were used at each location. The conductivity and pH meters were calibrated using manufacturer's instructions prior to the initial visit and are self-calibrating after the initial calibration is completed. The conductivity meter has a range of 0 μ S/cm to 19.99mS/cm and an accuracy of +/- 2%. The pH meter has a range of 0 to 14 with an accuracy of +/- 0.01. The DO sensor was calibrated by the manufacturer and required no additional calibration for this project. The DO sensor has a range of 0 to 20.00mg/L with an accuracy of +/- 2%. For each handheld measurement, the meter was placed a few inches in the stream to expose the nodes to the water and held in place until the measurement stabilized.

Water samples were collected in two 125ml polypropylene bottles from the middle of the stream at both the North and South locations during each quarterly site visit to determine suspended sediment. The bottles were then sealed and labeled with location and collection date and returned to the Texas Christian University (TCU) lab where suspended sediment testing was performed using Buchner Filtration method (Shapiro, 1961).

Continuous Collection

To monitor rainfall, water depth, and turbidity; a rain gauge, multiparameter sondes and water level data loggers were installed on both the north and south culverts (Table 1). Rainfall, water depth, and turbidity were continuously monitored by this equipment and data was and downloaded in spreadsheet format during each site visit.

Table 1: Sampling Location coordinates, equipment, and measurements.

| Location Name | GPS Coordinates | Equipment Installed | Location of Equipment | Measurements |
|--------------------------|--------------------------|--|------------------------------------|--|
| North Location | 36°59'55"N 94°52'14"W | Turbidity and Depth Probe, Water level Data Logger | South side of culvert, to the left | 7.45' in width 3.86' from top of bridge to concrete base |
| Unnamed Tributary | 36°59'52"N 94°52'01"W | N/A | N/A | N/A |
| South Location | 36°59'13"N 94°52'11"W | Turbidity and Depth Probe, Water level Data Logger | South side of culvert, to the left | 10.15' in width 4.95' from top of bridge to concrete base |

To measure on-site rainfall, a Global Water RG 600 tipping bucket rain gauge was installed on 09/25/2020 and programmed to measure every 0.01inches at 5-minute intervals. The rain gauge was installed on a fence post near the south location in an area with no overhead vegetation (Fig. 6) and has an accuracy of +/- 1% at 1 inch per hour. Additional rainfall data was obtained from a weather monitoring station (MIAM65) in Miami, OK which is ~9.5 miles from the study site, but only ~3 miles outside of the study site's watershed boundary, making its data representative of the area. The data, which included daily rainfall totals, were downloaded monthly (February 2020 to October 2021) from mesonet.org, a website that provides free-to-the public data from a collection of environmental monitoring stations throughout the state of Oklahoma.

To measure water depth and turbidity, EXO1 multiparameter sondes with depth and turbidity sensors and Keller DCX-22 water level data loggers were installed using angle iron and screws to attach them to the concrete bridge culverts at the north and south locations (Fig. 6). The depth and turbidity sensors measured water depth in inches every hour and turbidity in Formazin Nephelometric turbidity units (FNU's) and were calibrated in accordance to the manufacturer's calibration guidelines using KorEXO software version 2.2.0.19 ("EXO Calibration - Turbidity," undated).

The water level data loggers were programmed to measure water depth in inches every hour using Keller Logger software version 5.3 and were calibrated by the manufacturer.



Figure 6: Rain Gauge, north location equipment and south location equipment installations, respectively.

One-Time Sampling and Measurements

On the first quarterly sampling visit, sediment samples were collected to analyze soil texture of stream sediments and measurements were taken at the north and south locations to create a cross-section of each location.

To determine soil texture, stream bed sediment samples were collected at each of the three quarterly sampling locations. Grain size analysis was performed for each location using sieve analysis in accordance with tap

sieving procedures (Lucka, 2016) and hydrometer analysis (Bouyoucos, 1962). Each location's sediment was dried, weighed, and placed in the sieve shaker. The sieve sizes used, selected based on native soils for the area, were 5, 10, 40, 80, and 200. Total sample weights ranged from 135.88 to 200.6 grams. Once sediments were sorted by sieve shaker, the sediments passing the #200 sieve were separated into silt and clay fractions using hydrometer analysis.

To determine discharge area at both the north and south locations, cross sections of each area were created using the following measurements: Height from the top of the bridge to the base of the stream at ½ foot to 1-foot intervals, height from the water to the base of the stream (channel depth) at every ½ foot to 1-foot intervals and length across the top of the bridge and length above the water level. Cross-sectional area of each location was calculated using instructions provided by the EPA (United States Environmental Protection Agency, 1997).

Data Processing and Analysis

Data processing included (1) reviewing laboratory reports for metals analysis results and for QA/QC data and data usability, (2) downloading the data from the onsite rain gauge, mesonet.org, depth and turbidity probes, and the water level data loggers, and (3) handheld measurements for velocity, conductivity, DO, and pH. The metal analysis data, rainfall information, downloaded data from monitoring equipment and the hand-held measurements were then transferred to spreadsheets for analysis. Lastly, sediment rating curves and stage discharge curves were created.

Data Analysis was performed in two phases:

Phase 1: Determining whether the remediation successfully reduced metals contamination in Elm Creek:

Quarterly metals concentrations for each constituent were compared to EPA established clean-up standards specific for the Bird Dog Area (ch2m, 2018) and to naturally occurring background metals concentrations obtained from the EPA (ch2m, 2018). Quarterly metals concentrations, EPA clean-up standards, and background metals concentrations were graphed for each tested constituent over the period of the study for each sampling location. Additionally, metals concentrations found at the north location were compared to the metal concentrations found at the south location to assess the amount of contamination contributed to the stream from within the site boundaries. At the north and south sampling locations, first sampling event concentrations were compared to final sampling event concentrations to assess changes in contamination levels over the study

period. Results from the three sampling events obtained from the unnamed tributary were evaluated to determine if contamination from outside sources was present or potentially contributing to the contamination in Elm Creek.

Phase 2: Establishing the origins of the metal contamination in Elm Creek:

Individual parameters (i.e., rainfall data, water depth, velocity, turbidity, suspended sediment, conductivity, DO, pH) were evaluated over the duration of the project. Curve number analysis was evaluated to determine the percentage of runoff from rainfall events for the Bird Dog area. Specific measurements (i.e., rainfall to water depth, turbidity, and suspended sediment) were compared to determine stream response and sediment runoff. Soil texture results from the stream were compared to the area's native soils and to chat size analysis provided by EPA to identify sources for stream sediment contributions. The data collected from the north location was compared to the south location to assess changes within the 1-mile reach, and the amount of overland flow and sediment contribution from the adjacent chat pile. Phase 2 data analysis is further described below.

Rainfall data was grouped into defined rainfall events, any singularly recorded rainfall amount that occurred within one hour of another singularly recorded rainfall was grouped together and defined as a single rainfall event (Appendix A). The defined single rainfall events were used to determine smallest, largest, and average rainfall, longest and average wet periods, and longest and average dry periods. Additionally, rainfall data from the on-site rain gauge was analyzed and separated into categories based on stream response. For each defined single rainfall event the total amount of rainfall was calculated, and the events were placed into two categories (1) events with a total rainfall greater than or equal to 0.80 inches and (2) events with a total rainfall of less than or equal to 0.79 inches. The rainfall events for both rainfall categories, were further divided into single peak events and multiple peak events, and each category of rainfall event was individually graphed. For rainfall events ≥ 0.80 inches, time from start of rainfall to peak stream response was evaluated.

To estimate the percentage of runoff from rainfall events within the study site, runoff curve numbers (CNs) were estimated. Using soil surveys from the United States Department of Agriculture, an estimated range for CNs was determined. The estimated range of CNs was then applied to CN equation ($S = (1000/CN) - 10$) to determine a range of S values (potential maximum retention). The S values were then inserted into the SCS

runoff equation $((P-0.2S)^2 / (P+0.2*S))$ where P is precipitation) to determine runoff over a range of rainfall values (United States Department of Agriculture, 2004).

Velocity measurements were taken during quarterly site visits and after known rainfall events when possible. Measurements were then evaluated for highest, lowest, and average velocities for each sampling location. A value of 0.01 feet per second was assigned to measurements that indicated no flow or negative flow values, this value represents a minimum value, which was used rather than zero as a zero value would result in zero discharge. Velocity measurements were also used to calculate discharge at each sampling location (Dingman, 1994).

Water depth measurements (Appendix A) for each location were grouped based on previously defined rainfall events and evaluated for highest, lowest, and average changes in water depth. Water depth measurements were then combined with velocity, and cross-sectional area to create stage-discharge curves for the north and south locations. Velocity measurements combined with water depth measurements recorded at the same time were used to calculate eight confirmed discharge amounts at each location. These eight discharge measurements were graphed by plotting discharge ($Q=AV$, where Q is the discharge, V is velocity and A is cross-sectional area) on the y-axis and stage (water depth measurements obtained from continuous monitoring equipment) on the x-axis. A power trendline was then applied to the graph which provided an equation and R^2 values, that were then used to convert the water depth measurements (recorded by the probe) to discharge measurements (Appendix A). Discharge was then graphed with rainfall to determine stream response to rainfall events (Dingman, 1994).

Turbidity measurements (Appendix A) for each location were grouped based on previously defined rainfall events and evaluated for highest, lowest, and average changes in turbidity. Turbidity and suspended sediment measurements were used to create sediment ratings curves for the north and south locations. The sediment ratings curves were created by plotting calculated suspended sediment on the y-axis and turbidity measurements (obtained from the continuous monitoring equipment) on the x-axis. A linear trendline was then applied to the graph which provided an equation and R^2 values, which were then used to convert the turbidity measurements (recorded by the probe) to suspended sediment measurements (Appendix A). Suspended sediment measurements were then graphed with rainfall to determine sediment runoff contribution.

Conductivity, DO, and pH measurements were taken with handheld meters and evaluated to determine a range of high, low, and average for each parameter at each sampling location.

Soil texture data from sieve and hydrometer analysis at each sampling location was compared to native soils data obtained from United States Department of Agriculture (Newland, 1964; USDA, 2020), and chat size analysis of the Bird Dog Area provided by EPA (ch2m, 2018). Based on visual inspection of the chat analysis data provided by EPA, ~50% of the chat was gravel sized, therefore pre-analysis of the data was performed to normalize the sand, silt, and clay fractions to 100%.

To determine hydrologic and geomorphic change along the 1-mile reach of the study area, water depth, velocity, turbidity, discharge, suspended sediment, conductivity, DO, and pH measurements, as well as soil texture analysis were evaluated for changes by comparing the data found at the north and south sampling locations.

Data Failures

Raw data from this study included three equipment firmware failures causing both turbidity probes to be removed from the creek for maintenance during the period of 09/25/2020 to 10/08/2020, the north probe and rain gauge during the period of 12/28/2020 to 01/08/2021, and both probes and the rain gauge from 04/15/2021 to 04/23/2021. Additionally, from 12/24/2020 to 12/28/2020 and 6/12/2021 to 7/21/2021 the rain gauge experienced battery failure and there were multiple instances in which construction activities created data disruptions. These instances will be described in the discussions section, if necessary.

Results

Phase 1: Determining whether the remediation successfully reduced metals contamination in Elm Creek:

Metal contamination was assessed for both surface water and sediment from Elm Creek. The surface water metal analysis (Table 2) indicated of fifteen total samples Cd ranging from none detected to 0.175 mg/L with seven samples exceeding the EPA cleanup target. Fe ranged from none detected to 18.20 mg/L with thirteen samples exceeding the EPA cleanup target. Pb ranged from none detected to 9.16 mg/L with four samples exceeding the EPA cleanup target. Mn ranged from none detected to 2.37 mg/L with fourteen samples

exceeding the EPA cleanup target. Finally, Zn ranged from 0.108 mg/L to 23.9 mg/L with eleven samples exceeding the EPA cleanup target. None of the samples contained any detectable levels of As. While both the north and south locations had samples that exceeded the cleanup targets, the average lab-reported level for Cd exceeded the EPA cleanup target by 807.7 % at the south location, while the north location reported no Cd in all sampling instances. The average lab-reported level for Fe exceeded the EPA cleanup target by 1,015.2 % at the south location and 616.3 % at the north location, while Pb exceeded the EPA target by 584.8 % at the south location (Pb did not exceed EPA cleanup standard at the north location). The average lab-reported levels for Mn and Zn exceeded the EPA cleanup target by 2,718.7 % and 2,674.8 %, respectively, at the south location and 1,168 % and 126.9 %, respectively, at the north location.

Overall, contamination levels in surface water from the first sampling event compared to the final sampling event resulted in no changes in Cd at the north location and increases in Fe, Pb, Mn and Zn, from 14.9 % to 100 %. The same comparison at the south location resulted in no changes in As, increases in Cd and Pb by ~100 %, and decreases in Fe, Mn, and Zn from 29.1 % to 75.9 % (Fig. 7). Obvious spikes in the data are addressed further in the discussion.

Surface water samples taken from the unnamed tributary (Table 2) showed Cd ranging from 0.036 mg/L to 0.0998 mg/L, Fe ranging from none detected to 18.2 mg/L, Pb ranging from none detected to 0.952 mg/L, Mn

ranging from none detected to 0.298 mg/L, and Zn ranging from 6.75 mg/L to 21.1 mg/L. Ten of the eighteen samples taken exceeded EPA cleanup targets. There was no detectable level of As.

Table 2: Surface water metal analysis results.

| Water Results | | | | | | | |
|--------------------|------------|-----------|---------------|--------------|--------------|--------------|--------------|
| Sample ID | Date | As (mg/L) | Cd (mg/L) | Fe (mg/L) | Pb (mg/L) | Mn (mg/L) | Zn (mg/L) |
| EPA Cleanup Target | | 0.34 | 0.0061 | 0.3 | 0.303 | 0.05 | 0.287 |
| North | 2/22/2020 | ND | ND | 1.19 | ND | 0.24 | 0.212 |
| South | 2/22/2020 | ND | 0.00600 | 3.15 | 0.112 | 0.648 | 1.41 |
| Tributary | - | - | - | - | - | - | - |
| North | 6/12/2020 | ND | ND | 1.90 | 0.0210 | 0.842 | 0.110 |
| South | 6/12/2020 | ND | 0.00600 | 0.993 | 0.419 | 2.37 | 3.76 |
| Tributary | - | - | - | - | - | - | - |
| North | 9/24/2020 | ND | ND | 3.49 | 0.232 | 1.05 | 0.651 |
| South | 9/24/2020 | ND | 0.0714 | 2.36 | 0.0300 | 2.19 | 13.8 |
| Tributary | 9/24/2020 | ND | 0.0998 | 18.2 | 0.952 | 0.298 | 21.1 |
| North | 12/28/2020 | ND | ND | 0.983 | ND | 0.136 | 0.855 |
| South | 12/28/2020 | ND | 0.175 | 8.84 | 9.16 | 2.35 | 23.9 |
| Tributary | - | - | - | - | - | - | - |
| North | 4/15/2021 | ND | ND | 1.65 | ND | 0.156 | 0.108 |
| South | 4/15/2021 | ND | 0.0252 | 1.87 | 0.685 | 0.442 | 2.19 |
| Tributary | 4/15/2021 | ND | 0.0467 | ND | ND | ND | 9.58 |
| North | 7/21/2021 | ND | ND | 1.88 | 0.034 | 1.08 | 0.249 |
| South | 7/21/2021 | ND | 0.012 | 1.06 | 0.225 | 0.156 | 1.00 |
| Tributary | 7/21/2021 | ND | 0.036 | ND | ND | 0.073 | 6.75 |

Bolded items exceed EPA cleanup target. ND = Non Detectible.

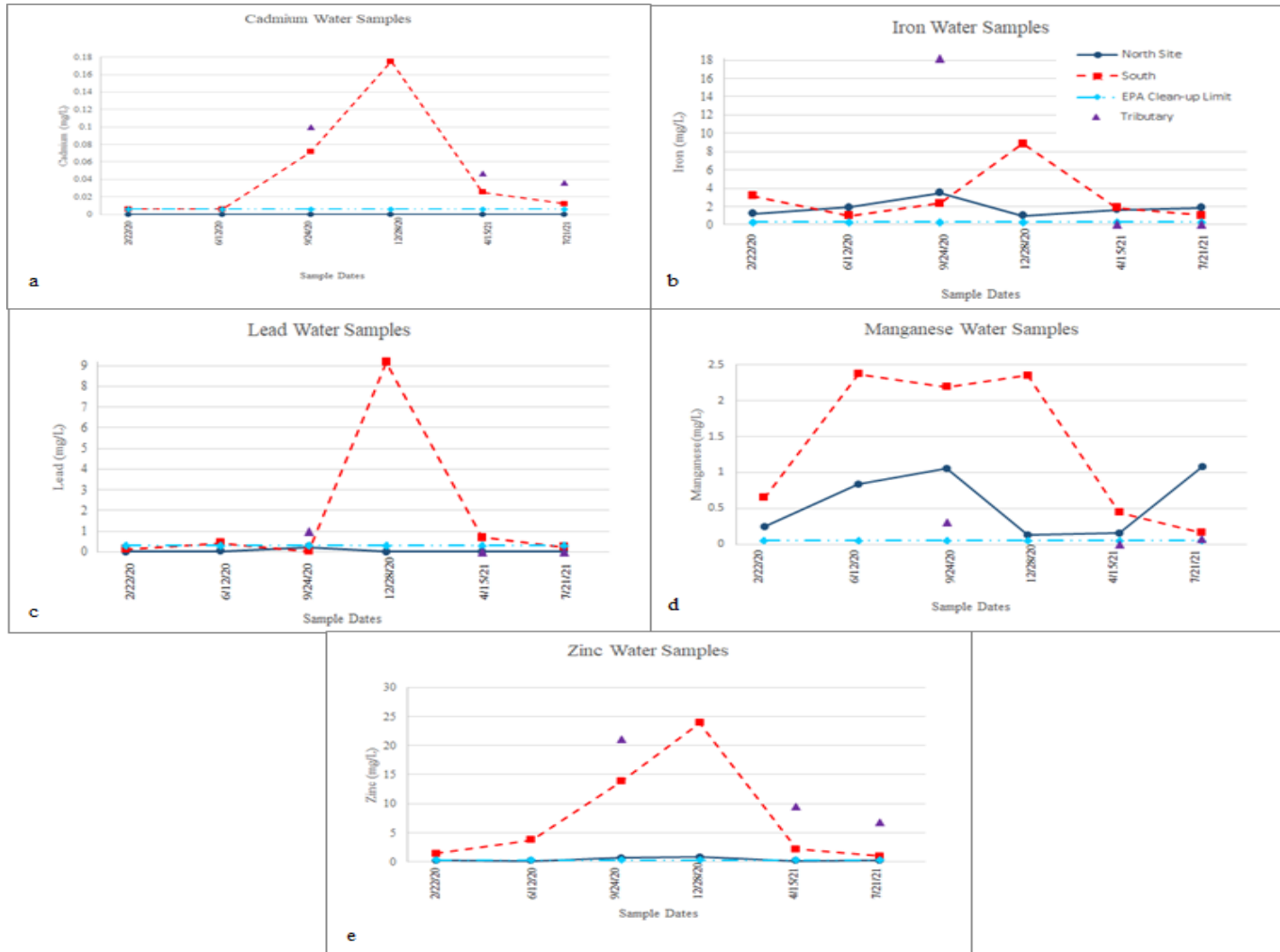


Figure 7: Surface water metal analysis: a. Cadmium, b. Iron, c. Lead, d. Manganese, and e. Zinc. Dark blue line indicates changes at north location, red line indicates changes at south location, turquoise line indicates EPA cleanup standard, and the tributary samples are indicated by a purple triangle.

The sediment sample analysis is shown in Table 3. Cd ranging from 2.72 mg/kg to 573 mg/kg with ten samples exceeding the EPA cleanup target and all samples exceeding the known background metals concentrations for this area. Fe values ranged from 3,640 mg/kg to 29,300 mg/kg with all the samples below known background concentrations. There is no EPA cleanup target for Fe. Pb ranged from 51.5 mg/kg to 43,300 mg/kg with seven samples exceeding EPA cleanup target and fourteen samples exceeding known background concentrations. Mn ranged from 41.2 mg/kg to 410 mg/kg with none of the samples exceeding known background concentrations. Like Fe, there is no EPA cleanup target for Mn. Zn ranged from 515 mg/kg to 81,000 mg/kg with seven samples exceeding EPA cleanup target and fourteen samples exceeding known background concentrations. The only detectable levels of As were found in two samples at the south location with both samples exceeding the EPA cleanup standard; however, they were both within 13% of known background levels. Again, both north and south locations had individual samples that exceeded EPA cleanup targets; however, the average of reported levels from the north location did not exceed EPA cleanup targets for any of the tested constituents (Cd, Pb, and Zn exceeded known background concentrations by 939.7%, 217.7% and 223.3%, respectively). At the south location, Cd, Pb, and Zn average concentrations exceeded background concentrations by 33,673.8 %, 33,299 %, and 7,567.4 %, respectively (Fe and Mn did not exceed background concentrations). The average of reported levels for the south location exceeded EPA cleanup targets for As by 300 %, Cd by 2,357.2 %, Pb by 3,889.3 %, and Zn by 734.7%.

Comparison of the contamination levels at the north location from the first sampling event compared to the final sampling event resulted increases in Cd, Fe, Pb, Mn and Zn, from 33.8 % to 79.5 %. The same comparison at the south location resulted in decreases in all constituents from 44% to 61.4% (Fig. 8).

Sediment samples of the unnamed tributary (Table 3) showed Cd ranging from 13.3 mg/kg to 21.2 mg/kg with all samples exceeding the EPA cleanup standard and known background concentrations, Fe ranging from 3,900 mg/kg to 23,800 mg/kg with none of the samples exceeding known background concentrations, Pb ranging from 107 mg/kg to 648 mg/kg with one sample exceeding EPA cleanup standards and all samples exceeding known background concentrations, Mn ranging from 52.4 mg/kg to 269 mg/kg with none of the samples exceeding known background concentrations, and Zn ranging from 1,980 mg/kg to 10,800 mg/kg with one

sample exceeding the EPA cleanup standard and all of the samples exceeding known background concentrations. There were no detectable levels of As reported.

Table 3: Sediment metal analysis results.

| Sediment Results | | | | | | | |
|---------------------------|------------|-------------|-------------|------------|--------------|------------|--------------|
| Sample ID | Date | As (mg/kg) | Cd (mg/kg) | Fe (mg/kg) | Pb (mg/kg) | Mn (mg/kg) | Zn (mg/kg) |
| EPA Cleanup Target | | 5.00 | 10 | N/A | 500 | N/A | 5,500 |
| Background Concentrations | | 14.4 | 0.7 | 100734 | 58.4 | 1174 | 534 |
| North | 2/22/2020 | ND | 2.72 | 3640 | 51.5 | 59.7 | 515 |
| South | 2/22/2020 | 13.4 | 473 | 25400 | 43300 | 340 | 81000 |
| Tributary | - | - | - | - | - | - | - |
| North | 6/12/2020 | ND | 15.9 | 11000 | 244 | 260 | 2620 |
| South | 6/12/2020 | 16.6 | 537 | 29300 | 37900 | 410 | 79000 |
| Tributary | - | - | - | - | - | - | - |
| North | 9/24/2020 | ND | 5.92 | 6020 | 90.4 | 71.4 | 1390 |
| South | 9/24/2020 | ND | 83.1 | 14800 | 6470 | 324 | 17900 |
| Tributary | 9/24/2020 | ND | 13.3 | 8930 | 113 | 114 | 1980 |
| North | 12/28/2020 | ND | 2.72 | 4060 | 67.4 | 41.2 | 632 |
| South | 12/28/2020 | ND | 36.3 | 15200 | 4110 | 381 | 9960 |
| Tributary | - | - | - | - | - | - | - |
| North | 4/15/2021 | ND | 5.05 | 11700 | 58.5 | 62.5 | 739 |
| South | 4/15/2021 | ND | 61.9 | 12200 | 4700 | 88.5 | 18500 |
| Tributary | 4/15/2021 | ND | 21.2 | 23800 | 648 | 269 | 10800 |
| North | 7/21/2021 | ND | 7.16 | 5500 | 251 | 92.3 | 1260 |
| South | 7/21/2021 | ND | 223 | 15600 | 20200 | 151 | 36100 |
| Tributary | 7/21/2021 | ND | 15.6 | 3900 | 107 | 52.4 | 3870 |

Bolded items exceed EPA cleanup target. ND = Non Detectible.



Figure 8: Sediment metal analysis: a. Arsenic, b. Cadmium, c. Iron, d. Lead, e. Zinc, and f. Manganese. Dark blue line indicates changes at north location, red line indicates changes at south location, turquoise line indicates EPA clean-up standard, green line indicates background concentrations, and the tributary samples are indicated by a purple triangle.

A seventh round of sampling at the north and south location was omitted from this study (Table 4), because it was determined to have been adversely impacted by construction activities. On 9/13/2021, the EPA construction crew excavated a test pit at the north location, which it is hypothesized to have caused an excess amount of loose contaminated sediment to be mobilized into the stream channel. On 9/21/2021, the site received a 1.18-inch rainfall event which then carried the loose sediment into the stream, likely causing the elevated metals concentrations seen in the seventh round of sampling. It is also likely that the construction equipment itself introduced contaminants to the location, as it is doubtful that the equipment was decontaminated prior to the pit excavation.

Table 4: Seventh round of sampling results, omitted from this study.

| Water Results | | | | | | | |
|--|------------|------------|--------------|--------------|-------------|--------------|--------------|
| Sample ID | Date | As (mg/L) | Cd (mg/L) | Fe (mg/L) | Pb (mg/L) | Mn (mg/L) | Zn (mg/L) |
| EPA Cleanup Target | | 0.34 | 0.0061 | 0.3 | 0.303 | 0.05 | 0.287 |
| North | 10/01/2021 | ND | 0.021 | 0.611 | 0.28 | 0.401 | 1.74 |
| South | 10/01/2021 | ND | ND | 4.56 | 0.074 | 0.209 | 0.546 |
| Tributary | - | - | - | - | - | - | - |
| Bolded items exceed EPA cleanup target. ND = Non Detectible. | | | | | | | |
| Sediment Results | | | | | | | |
| Sample ID | Date | As (mg/kg) | Cd (mg/kg) | Fe (mg/kg) | Pb (mg/kg) | Mn (mg/kg) | Zn (mg/kg) |
| EPA Cleanup Target | | 5.00 | 10 | N/A | 500 | N/A | 5,500 |
| Background Concentrations | | 14.4 | 0.7 | 100734 | 58.4 | 1174 | 534 |
| North | 10/01/2021 | ND | 6.43 | 69400 | 22.4 | 1700 | 238 |
| South | 10/01/2021 | ND | 22.3 | 11100 | 1440 | 144 | 3930 |
| Tributary | - | - | - | - | - | - | - |
| Bolded items exceed EPA cleanup target. ND = Non Detectible. | | | | | | | |

Phase 2: Establishing the origins of the metal contamination in Elm Creek:

Individual parameter measurements were compared with rainfall events, for both the north and south sample locations, to quantify the hydrologic response for the Bird Dog area and how it relates to the transfer of fine-grained, contaminated sediments from the chat pile remediation to the Elm Creek.

Fifty-two rainfall events occurred between September 25, 2020 and October 01, 2021 with totals ranging from 0.0157 inches to 6.87 inches with an average rainfall of 0.756 inches. The longest dry period was ~28 days, the

average dry period was ~5 days, and the longest wet period was ~4 days, with the average wet period being ~2 days. During the driest periods (February and June), it was not uncommon for the streambed and ponded areas (but not the artificially created retention pond) to dry up completely. In total, there were 11 rainfall events that were greater than or equal to 0.80 inches and 24 rainfall events that were less than or equal to 0.79 inches (7 events were eliminated due to construction related data failures). There were also 10 minimal events that only recorded 0.0079 inches of rainfall in a 5-minute period. Events of this size and duration (i.e. intensity) resulted in no measurable changes to water depth and were, therefore, excluded from this study. Of the 11 rainfall events that were ≥ 0.80 inches, 7 were single peak events and 4 were multiple peak events. Of the 24 rainfall events that were ≤ 0.79 inches, 16 were single peak events and 8 were multiple peak events (Fig. 9). Peak stream response for rainfall events ≥ 0.80 inches ranged between one to seven hours and shifted to between 13 to 33 hours, when a smaller rainfall event occurred 2 to 5 days prior to the ≥ 0.80 inches rainfall event.

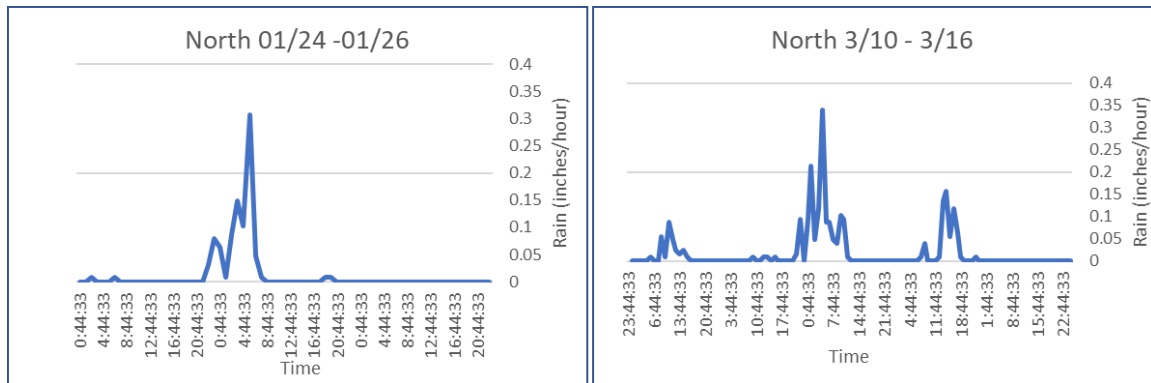


Figure 9: Example of a single peak rain event on the left and a multiple peak rain event on the right.

The curve number (CN) analysis resulted in a range of curve numbers from 83.706 to 90.772, that, when applied to the SCS Curve number equation, predicted runoff potentials ranging from 2.75% to 81.39%, for precipitation from 0.5 inches to 3.0 inches (Table 5).

Table 5: Results from curve number analysis.

| CN 83.706 S = 1.947 | | | CN 90.772 S = 1.107 | | |
|---------------------|-----------------|----------|---------------------|-----------------|----------|
| Rainfall (Inches) | Runoff (inches) | % Runoff | Rainfall (Inches) | Runoff (Inches) | % Runoff |
| 0.50 | 0.014 | 2.76 | 0.50 | 0.125 | 25.03 |
| 1.0 | 0.268 | 26.84 | 1.0 | 0.527 | 52.75 |
| 1.5 | 0.653 | 43.53 | 1.5 | 0.987 | 65.81 |
| 2.0 | 1.086 | 54.29 | 2.0 | 1.465 | 73.25 |
| 2.5 | 1.542 | 61.68 | 2.5 | 1.951 | 78.05 |
| 3.0 | 2.011 | 67.03 | 3.0 | 2.442 | 81.39 |

Velocity measurements indicated a range of flow velocities from no flow (a flow of 0.01 feet per second for ponded water was assumed) to as much as 4.2 feet per second, with an average of 0.658 feet per second at the north location and a range of 0.01 feet per second to 4.8 feet per second, with an average of 1.072 feet per second at the south location. (Velocity measurements can be found in table 6 on page 44, with the handheld sampling measurements).

The average change in water depth at the north location for rainfall events that were ≥ 0.80 inches was 1.47 feet with a range of 0.574 feet to 3.051 feet and the average at the south location was 1.79 feet with a range of 0.912 feet to 2.96 feet (Fig. 10). The average change in water depth at the north location for rainfall events that were ≤ 0.79 inches was 0.314 feet with a range of 0.079 feet to 0.686 feet and the south location had an average change of 0.321 feet with a range of 0.069 feet to 0.804 feet (Fig 11).



Figure 10: Examples of changes in water depth with rainfall ≥ 0.80 inches. a) Single peak 0.913-inch rainfall over 9 hours, which resulted in a depth change of 1.08 feet at the north location and 2.17 feet at the south location. b) Single peak 0.976-inch rainfall over 11 hours, which resulted in a depth change of 1.05 feet at the north location and 1.15 feet at the south location. c) Multiple peak 2.29-inch rainfall over 25 hours, which resulted in a depth change of 1.68 feet at the north location and 1.37 feet at the south location. d) Multiple peak 0.88-inch rainfall over 25 hours, which resulted in a depth change of 1.27 feet at the north location and 1.20 feet at the south location.

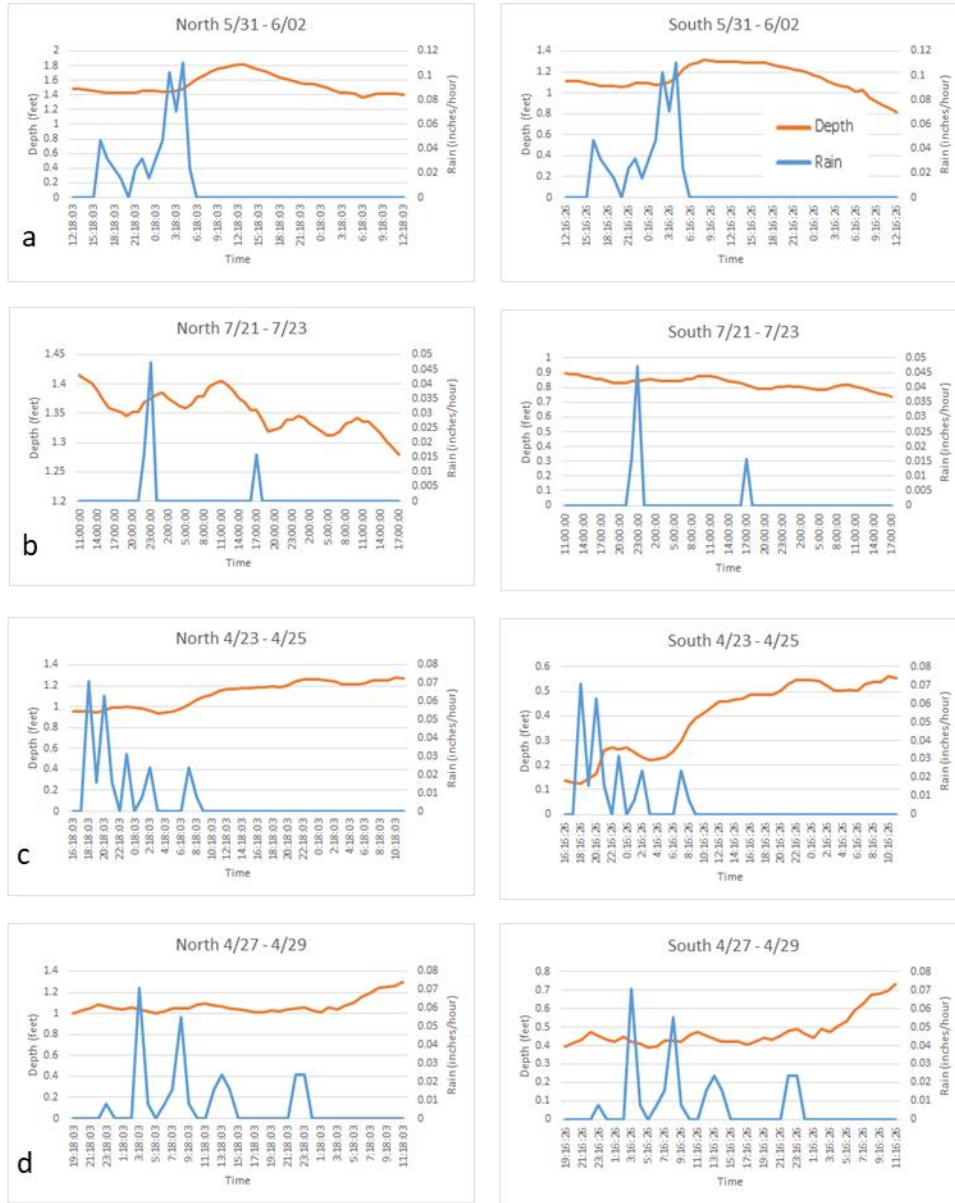


Figure 11: Examples of changes in water depth with rainfall ≤ 0.79 inches. a) Single peak 0.575-inch rainfall over 13 hours, which resulted in a depth change of 0.446 feet at the north location and 0.495 feet at the south location. b) Single peak 0.0787-inch rainfall over 19 hours, which resulted in a depth change of 0.135 feet at the north location and 0.154 feet at the south location. c) Multiple peak 0.26-inch rainfall over 14 hours, which resulted in a depth change of 0.0008 feet at the north location and 0.436 feet at the south location. d) Multiple peak 0.276-inch rainfall over 24 hours, which resulted in a depth change of 0.295 feet at the north location and 0.345 feet at the south location.

Turbidity at the north location varied between 0.11 fnu (i.e., trace turbidity) to 31.21 fnu (average = 3.90 fnu) for rainfall events ≥ 0.80 inches. At the south location, turbidity varied between 65.7 fnu and 2,397.5 fnu (average = 614 fnu), over two orders-of-magnitude larger than the north location (Fig. 12). For rainfall events ≤ 0.79 inches, turbidity at the north location was similar to larger events, ranging between 0.16 fnu and 32.93 fnu (average = 7.69 fnu). At the south location, overall turbidity values were significantly lower during these smaller rainfall events, ranging between 1.8 fnu and 321.4 fnu (average = 56.14 fnu, Fig. 13).

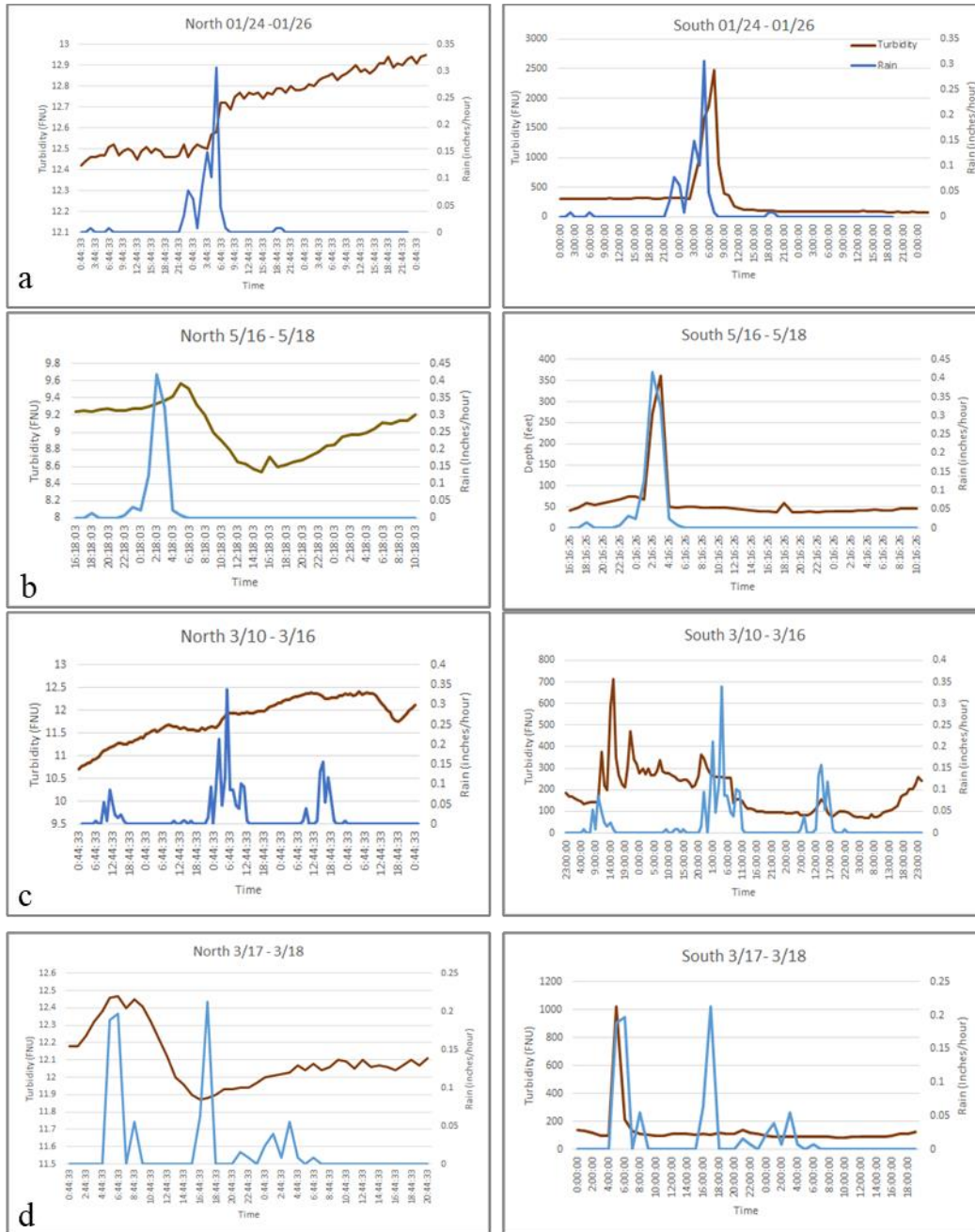


Figure 12: Examples of changes in turbidity with rainfall ≥ 0.80 inches. a) Single peak 0.913-inch rainfall over 9 hours, which resulted in a change of 0.53 FNU at the north location and 2397.47 FNU at the south location. b) Single peak 0.976-inch rainfall over 11 hours, which resulted in a change of 1.03 FNU at the north location and 324.71 FNU at the south location. c) Multiple peak 2.29-inch rainfall over 25 hours, which resulted in a change of 1.71 FNU at the north location and 642.79 FNU at the south location. d) Multiple peak 0.88-inch rainfall over 25 hours, which resulted in a change of 0.60 FNU at the north location and 938.51 FNU at the south location.

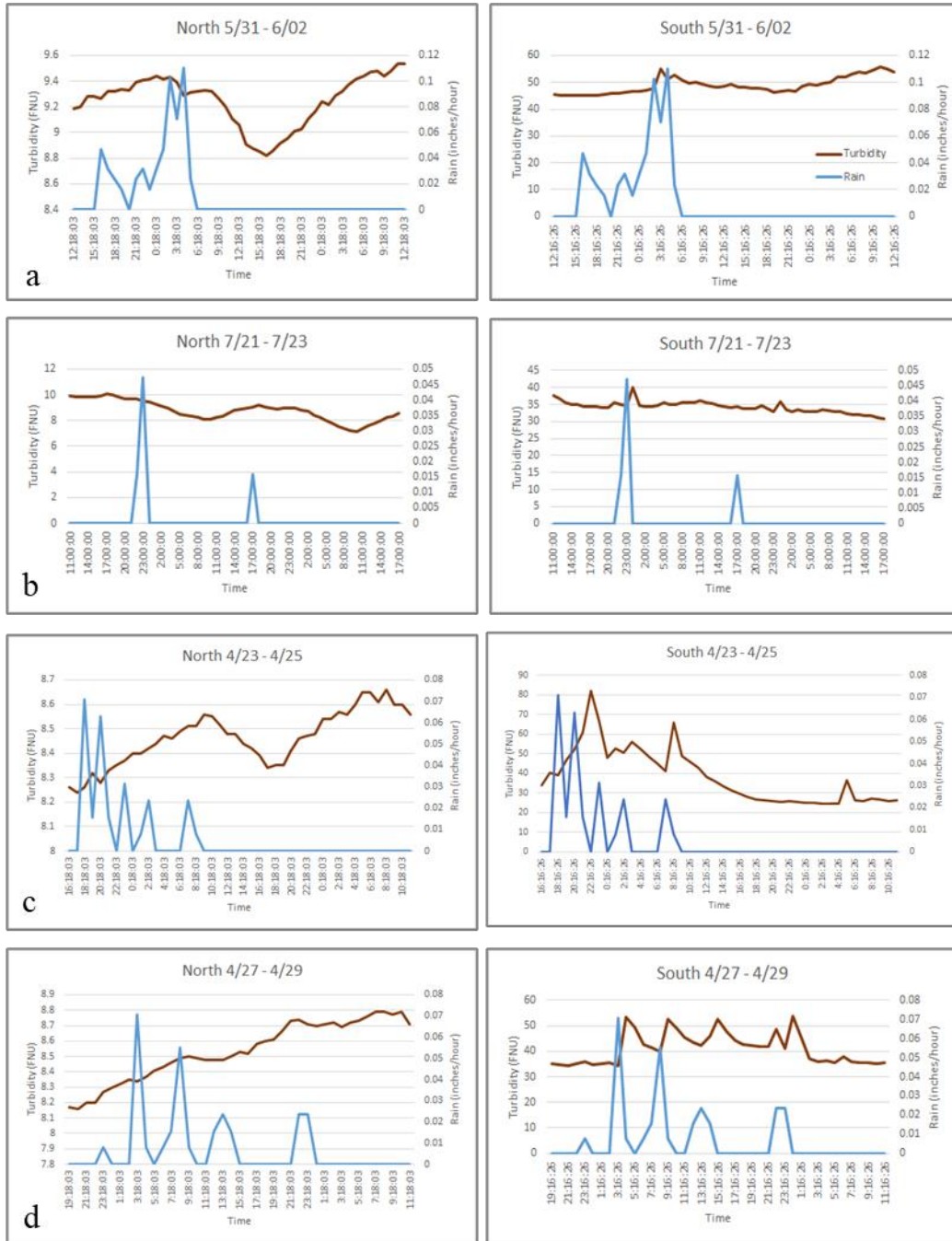


Figure 13: Examples of changes in turbidity with rainfall ≤ 0.79 inches. a) Single peak 0.575-inch rainfall over 13 hours, which resulted in a change of 0.72 FNU at the north location and 10.5 FNU at the south location. b) Single peak 0.0787-inch rainfall over 19 hours, which resulted in a change of 2.91 FNU at the north location and 9.29 FNU at the south location. c) Multiple peak 0.26-inch rainfall over 14 hours, which resulted in a change of 0.42 FNU at the north location and 57.43 FNU at the south location. d) Multiple peak 0.276-inch rainfall over 24 hours, which resulted in a change of 0.63 FNU at the north location and 19.42 FNU at the south location.

Stage-discharge curves (Fig. 14) were created using velocity measurements and area for the purpose of converting continuous water depth measurements into discharge. However, due to (1) constraints at the installations sites, which did not allow for the equipment to be installed within the middle of the stream, and (2) the location of the study area, which made it difficult to collect enough velocity measurements over a larger range of conditions, the discharge for this area remains unresolved.

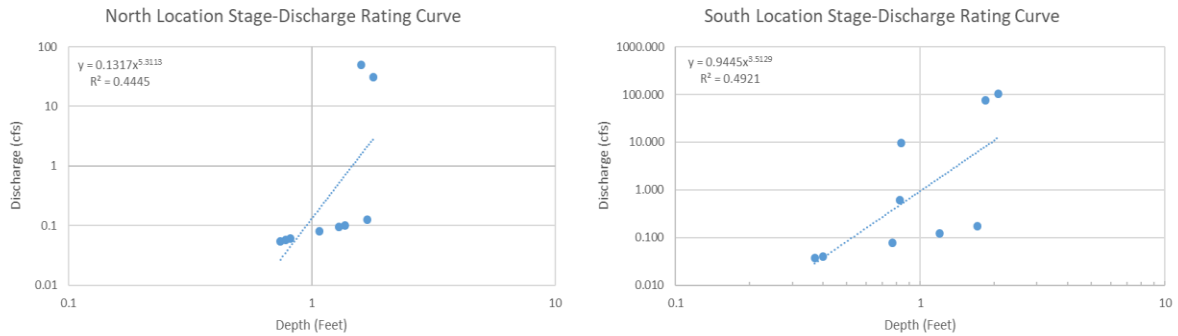


Figure 14: North and south location stage-discharge rating curves.

Sediment concentrations generated from turbidity-suspended sediment rating curves (Fig 15) showed suspended sediment ranging between 0.209 mg/L and 59.3 mg/L (average = 7.4 mg/L) for rainfall events ≥ 0.80 inches at the north location. At the south location, suspended sediment concentrations ranged between 13.1 mg/L and 479.5 mg/L (average = 122.8 mg/L, see Fig 16). Thus, suspended sediment concentrations were, on average, 17 times higher at the south location. For events ≤ 0.79 inches, suspended sediment concentrations at the north location averaged 14.63 mg/L (ranging between 0.03 mg/L and 62.6 mg/L) whereas at the south location, suspended sediment concentrations averaged 11.2 mg/L (with a range of 0.3 to 64.2 mg/L, see Fig. 17).

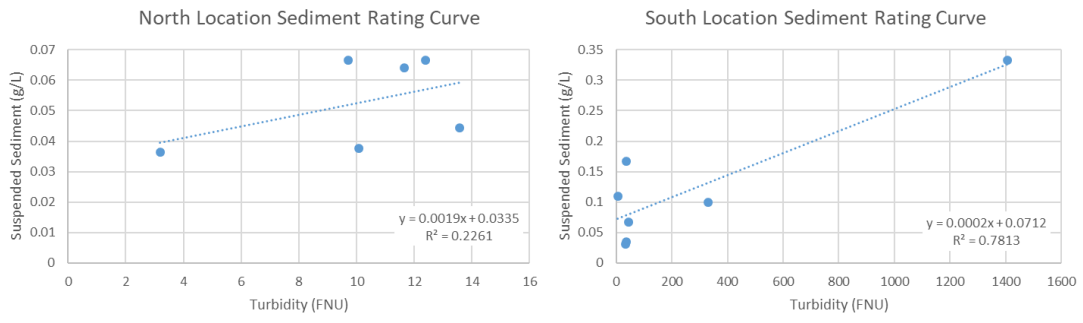


Figure 15: North and south location sediment rating curves.

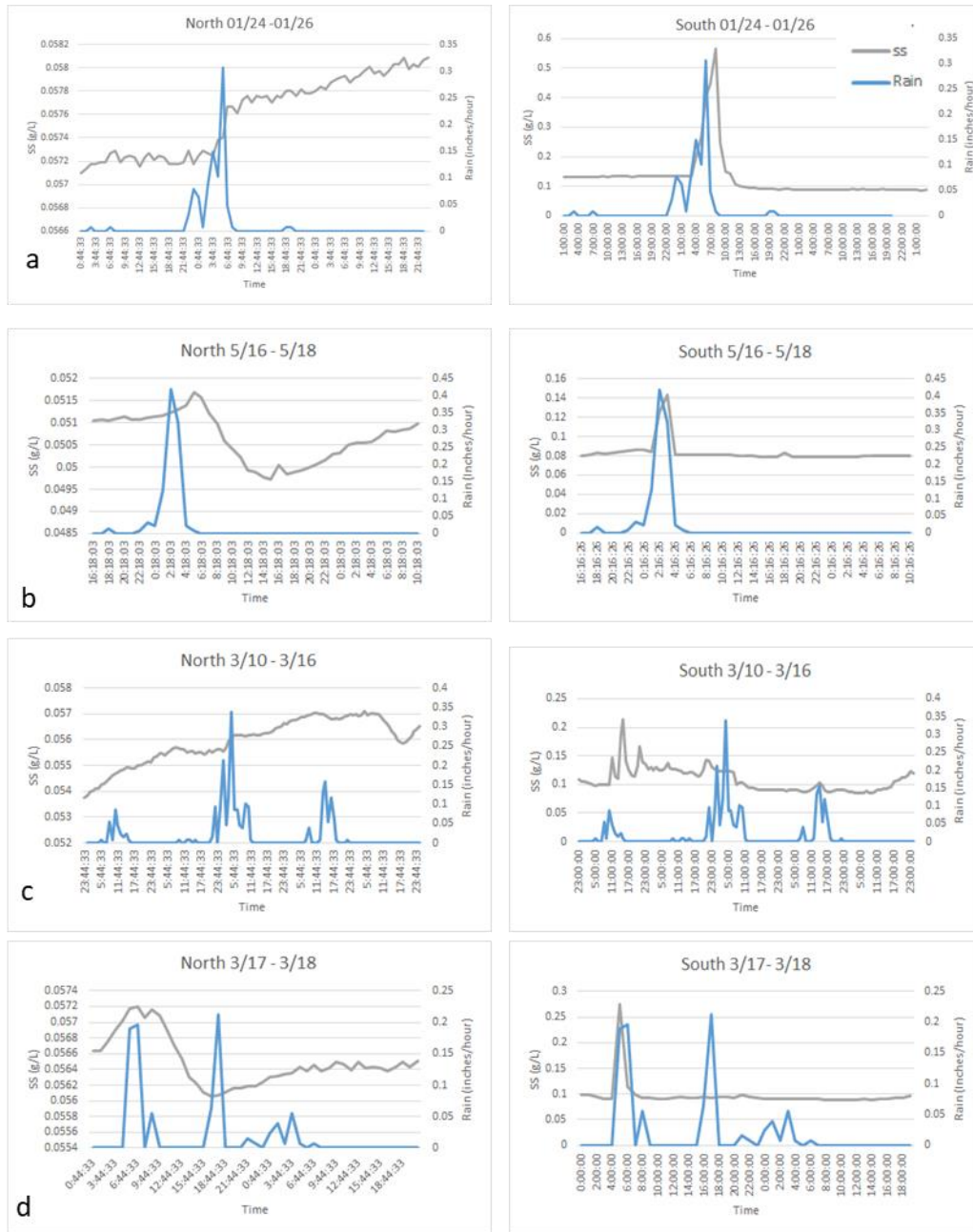


Figure 16: Examples of changes in suspended sediment with rainfall ≥ 0.80 inches. a) Single peak 0.913-inch rainfall over 9 hours, which resulted in a suspended sediment change of 0.001 g/L at the north location and 0.479 g/L at the south location. b) Single peak 0.976-inch rainfall over 11 hours, which resulted in a suspended sediment change of 0.019 g/L at the north location and 0.065 g/L at the south location. c) Multiple peak 2.29-inch rainfall over 25 hours, which resulted in a suspended sediment change of 0.0032 g/L at the north location and 0.129 g/L at the south location. d) Multiple peak 0.88-inch rainfall over 25 hours, which resulted in a suspended sediment change of 0.0011 g/L at the north location and 0.188 g/L at the south location.

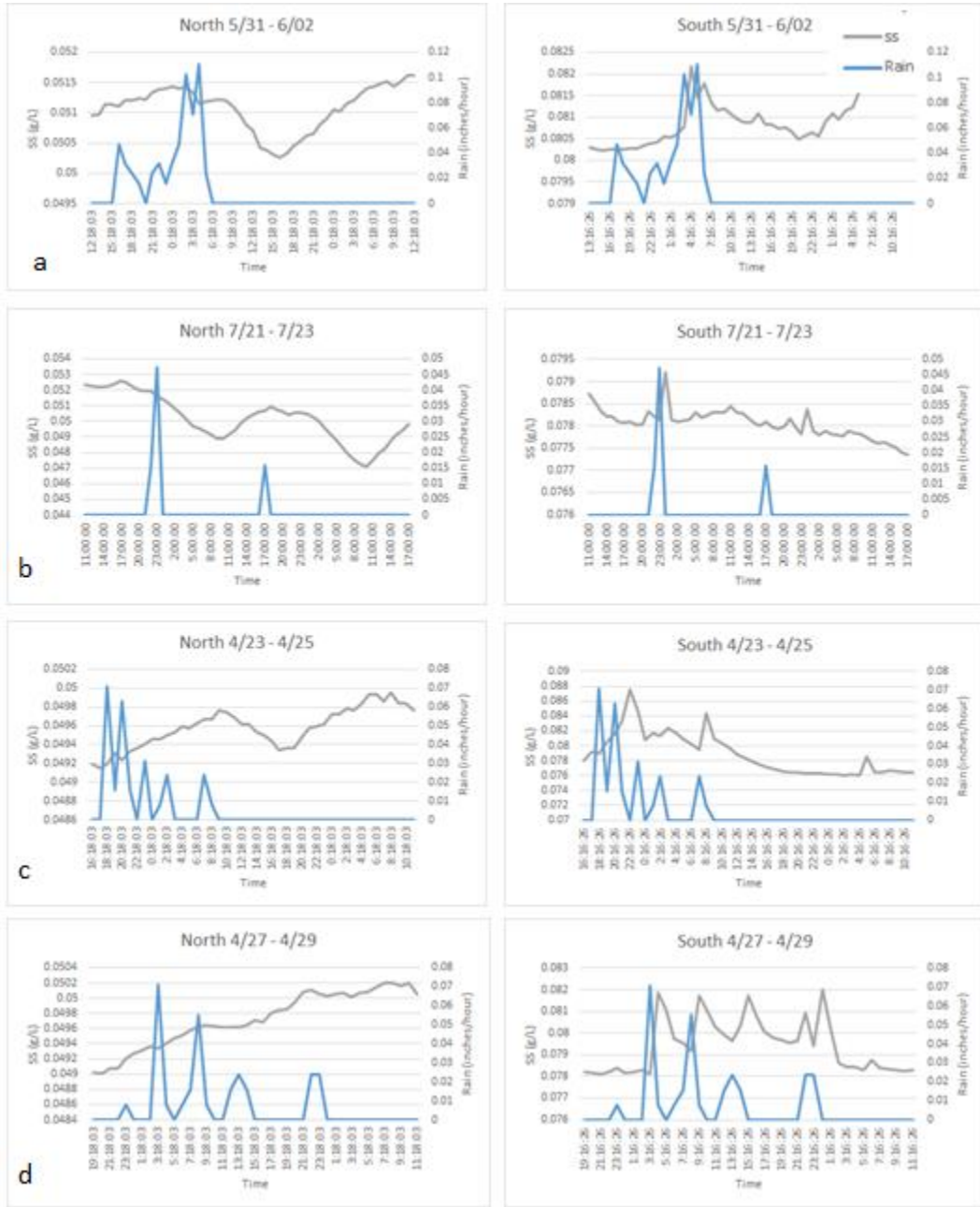


Figure 17: Examples of changes in suspended sediment with rainfall ≤ 0.79 inches. a) Single peak 0.575-inch rainfall over 13 hours, which resulted in a suspended sediment change of 0.0014 g/L at the north location and 0.0021 g/L at the south location. b) Single peak 0.0787-inch rainfall over 19 hours, which resulted in a suspended sediment change of 0.0055 g/L at the north location and 0.00186 g/L at the south location. c) Multiple peak 0.26-inch rainfall over 14 hours, which resulted in a suspended sediment change of 0.0008 g/L at the north location and 0.0115 g/L at the south location. d) Multiple peak 0.276-inch rainfall over 24 hours, which resulted in a suspended sediment change of 0.0012 g/L at the north location and 0.0039 g/L at the south location.

Conductivity measurements at the north location ranged from 30.2 μ S to 1249 μ S, with an average of 382.86 μ S and the measurements at the south location show an increase ranging from 211 μ S to 2410 μ S with an average of 1029.4 μ S. DO levels ranged from 2.14 mg/L to 11.86 mg/L at the north location, averaging 5.86 mg/L and ranged between 5.61 mg/L to 13.83 mg/L at the south location with an average of 7.72 mg/L. The pH measurements at the north location ranged from 7.14 to 9.04, with an average of 7.92 and at the south location pH ranged from 7.12 to 7.97, with an average of 7.66 (Table 6).

Table 6: Results from handheld sampling at north and south locations.

| Sampling location | Date | pH | DO (mg/L) | Conductivity (μ S) | Velocity(ft/sec) |
|-----------------------|------------|------|-----------|-------------------------|------------------|
| North Location | 2/22/2020 | 9.04 | 7.44 | 349 | 0.01* |
| | 6/11/2020 | 7.59 | 2.14 | 30.2 | 0.01* |
| | 9/24/2020 | 7.76 | 5.22 | 333 | 0.01* |
| | 12/28/2020 | 8.35 | 11.86 | 373 | 0.01* |
| | 1/25/2021 | - | - | - | 4.2 |
| | 3/18/2021 | - | - | - | 2.3 |
| | 4/16/2021 | 8.13 | 7.3 | 244 | 0.01* |
| | 6/1/2021 | - | - | - | 0.01* |
| | 7/21/2021 | 7.14 | 2.69 | 101.8 | 0.01* |
| | 9/30/2021 | 7.46 | 4.35 | 1249 | 0.01* |
| South Location | 2/22/2020 | 7.86 | 6.67 | 542 | 0.01* |
| | 6/11/2020 | 7.41 | 6.94 | 1852 | 0.01* |
| | 9/24/2020 | 7.12 | 6.41 | 2410 | 0.01* |
| | 12/28/2020 | 7.97 | 13.83 | 667 | 0.01* |
| | 1/25/2021 | - | - | - | 4.8 |
| | 3/18/2021 | - | - | - | 4 |
| | 4/16/2021 | 7.84 | 6.96 | 404 | 0.01* |
| | 6/1/2021 | - | - | - | 0.6 |
| | 7/21/2021 | 7.8 | 5.61 | 211 | 0.073 |
| | 9/30/2021 | 7.6 | 7.63 | 1120 | 1.2 |

*indicates a minimum measurement was used

Sediment grain size analysis showed sediment taken from the north location consisting of 89.72% sand, 0.01% silt and 10.27% clay giving it a soil texture of loamy sand. The south location consisted of 0.28% silt and 99.7% clay giving it a soil texture of clay. The unnamed tributary consisted of 87.76% sand, 0.05% silt and 12.19% clay giving it a soil texture of loamy sand (Table 7). The background soils for this area are defined as 51.5% silt

loam, 44.7% mine dumping, 2.7% silt clay and 1.1% loam according to soil surveys provided by the United States Department of Agriculture, giving it a soil texture of silt loam. As part of the EPA site assessment six samples of the mine tailings were analyzed for grain size: 20 to 60% of each sample was gravel sized sediment with an average of 46.4%, while the remaining 40 to 80% consisted, on average, of 75.1% sand, 10.2% silt and 14.7% clay, giving it a soil texture of sandy loam (Fig. 18).

Table 7: Results of grain size and hydrometer analysis for north sampling location, unnamed tributary, and south sampling location.

| Soil ID & Name | North Location | Unnamed Tributary | South Location |
|--|---|---|---|
| Total Sample Weight | 200.3 | 200.06 | 135.88 |
| Sieve Size | % Retained ($W_{\text{sieve}}/W_t * 100$) | % Retained ($W_{\text{sieve}}/W_t * 100$) | % Retained ($W_{\text{sieve}}/W_t * 100$) |
| Gravel W1 (#5 Sieve) | 24.74 | 47.17 | 0.00 |
| Sand W2 (#10 Sieve) | 22.88 | 12.52 | 0.00 |
| Sand W3 (#40 Sieve) | 36.33 | 17.93 | 0.00 |
| Sand W4 (#80 Sieve) | 8.26 | 5.66 | 0.00 |
| Silt W5 (#200 Sieve) | 5.22 | 3.30 | 37.49 |
| Clay & Silt W6 (Pan) | 2.51 | 3.12 | 98.09 |
| Total | 99.93 | 99.71 | 99.78 |
| Hydrometer Analysis | | | |
| Sand* | 89.72% | 87.76% | 0.0% |
| Silt * | 0.01% | 0.05% | 0.29% |
| Clay* | 10.27% | 12.19% | 99.71% |
| * Percentages normalize to equal 100% | | | |

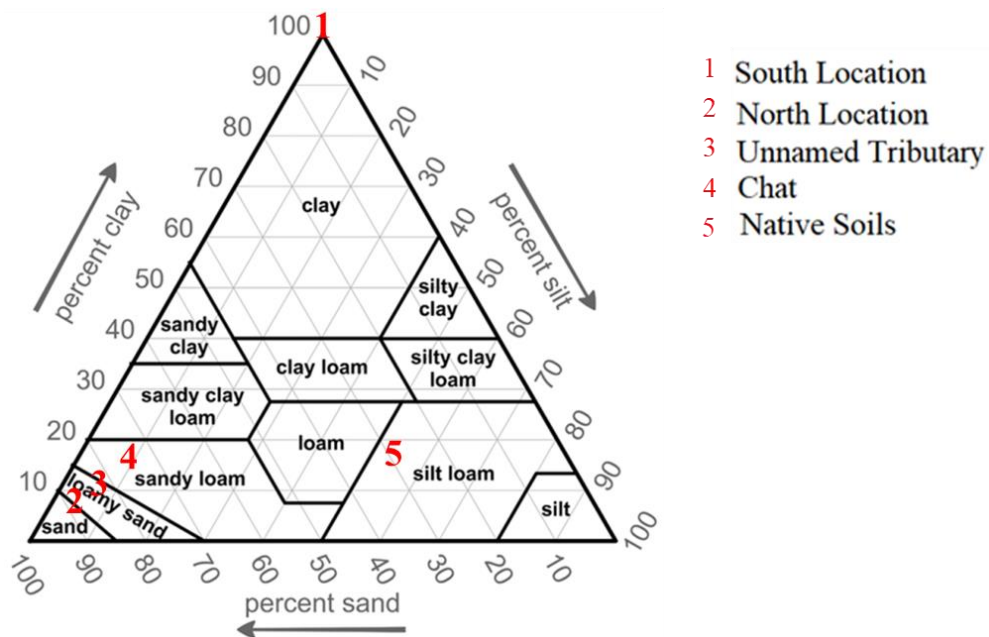


Figure 18: Soil texture triangle displaying textures for the south and north locations, the unnamed tributary, chat texture and native soils.

Overall, when comparing the results of the measurements taken at the north location to the measurements taken at the south location, all measurements with the exception of suspended sediment change in rainfall events \leq 0.79 inches and pH were higher at the south location (Table 8).

Table 8: Comparison of measurements from north and south locations.

| Measurement | % difference |
|--|--------------------------|
| Stream Velocity | 63% higher at south |
| Change in Depth (\geq 0.80 Inches) | 21.5% higher at south |
| Change in Depth (\leq 0.79 Inches) | 2.12% higher at south |
| Change in Suspended Sediment (\geq 0.80 inches) | 1,555.8% higher at south |
| Change in Suspended Sediment (\leq 0.79 Inches) | 29.5% higher at north |
| Conductivity | 168.9% higher at south |
| Dissolved Oxygen (DO) | 31.8% higher at south |
| pH | 3.5% higher at north |

Discussion

Data collected over 19 months showed the Elm Creek area to hydrologically dynamic and responsive, with rainfall events ≥ 0.8 inches generating overland flow relatively quickly through the area. Overland flow generated within the headwater area (i.e. upstream of the north location) as well as east of the study area along the unnamed tributary traversed agricultural lands but carried little to no fine-grained sediments. In addition, there were no chat piles north of the study site. Within the study site, runoff from the chat pile was higher than that generated and routed from the surrounding native soils due to soil compaction from the weight of the chat itself and the heavy equipment being used to remove it. Overland flow within the study area flowed predominately in a south and easterly direction, across the site, over the chat pile and into Elm Creek. This runoff would have likely introduced high amounts of metal-laden, contaminated silt and clay-sized particles into the Elm Creek, amounts that are not naturally occurring in this area. The high concentrations of metal-laden, contaminated silt and clay-sized particles would then have flowed toward the south sampling location but become trapped in the man-made retention pond and sequestered into temporary storage when Elm Creek and the ponds dried up. The evidence of this hydrologic response is based on the measured increase in water depth, stream velocity, and suspended sediment at the south location, especially during rainfall events ≥ 0.80 inches. The significantly elevated turbidity, conductivity and metals content from water and sediment samples indicated that runoff from the chat pile was carrying metal-laden sediments to the area outlet, as discussed below.

The evidence for increased overland flow within the study area can be seen in the analysis of rainfall events and the resulting water depth changes between the north and south locations. Rainfall events ≥ 0.80 inches which had peak stream response ranging from one to seven hours and generated increases in flow depth at the south location that were, on average, 21.5 % higher than the depth increases seen at the north location, indicating that overland flow from within the area was flowing into the 1-mile reach and exiting the south location. Rainfall events ≤ 0.79 inches (both single peak and multiple peak), however, produced a more muted increase in depth (i.e. the rising limb of the hydrograph) which resulted in, on average, only a 2.12% increase in depth at the south location. This type of response is to be expected because even though abstraction occurs early on in these rainfall events, infiltration capacities remain low at the start of the storm event, which generates less initial runoff. These results indicated that there is increased overland flow from within the site boundaries ranging

from 2.12 % to 21.5 %. In addition to increased water depths at the south location, velocity measurements taken after known rainfall events indicated an average of 62.9% increased velocity when compared with the north location. For rainfall events ≥ 0.80 inches, the average change in suspended sediment at the south location was 1,555.8% more than the north location. The water depth, velocity, and suspended sediment increases seen at the south location indicate increased overland flow and sediment transport from within the study site entering Elm Creek.

Further analysis of turbidity and derived suspended sediment response during both large and small rainfall events indicated significant increases in suspended sediment within the first few hours of the rainfall event. This initial spike in suspended sediment is the result of the “first flush” phenomenon, where the initial rainfall collects loose “available” sediments within the area and quickly moves them into the stream flow (Zeng, 2019). This flushing of sediment is also why a smaller, gentler rainfall events might result in very similar suspended sediment measurements at both locations, as there would only be enough rainfall to carry the already loosened sediments, created by the dust from the gravel roads, into the stream flow.

The evidence that the sediments being transported by overland flow and into Elm Creek are metal-laden can be found in the conductivity, DO and pH measurements taken during quarterly site visits, the soil texture analysis and the laboratory results from the water and sediment sampling. The conductivity measurements taken at the south location were on average 168.9 % higher than those taken at the north location. Conductivity is an indication of the waters ability to pass an electrical current and increased conductivity is often found in streams that run through areas with heavy clay content, because clay sized particles tend to adsorb metal ions (EPA, 2016a; Jain, 2009). While the conductivity measurements indicate metal-laden sediments, the DO measurements and pH measurements taken contemporaneously were within normal ranges (7.00 mg/L or greater for DO and 6.5 to 8.0 pH), which was not the expected result (Dohner, 1997; Oram, 2020). It was expected that the DO levels would have been low and the pH measurement should have been slightly acidic, given that the rainfall in this area generally has a pH range of 4.8 to 5.0 (USGS, 2002). However, the pH measurements appeared to have been normalized by the stream flow that is naturally buffered by native limestone. Given these conditions, the metals entering the stream would not have continued to oxidize, using the DO in the water (Dunne, 1978). Instead, they would precipitate out of solution, adsorbing onto sediments

present in the stream, thereby creating the “normal” DO measurements seen in this study (Gutierrez, 2016; Reed, 1955; Schraider, 2014).

The soil texture analysis also indicates that the predominately silt or clay sized particles from the chat are being carried by overland flow into the stream. Grain texture analysis of the north and south locations as well as the unnamed tributary, when compared to background soils and chat pile texture, strongly suggest that the metal-laden, fine-grained sediment originated at the chat pile adjacent to the stream. The north location and the unnamed tributary’s textural analysis reflects a mix of the grain sizes of the naturally occurring soils for the region and larger particles from the chat piles and the adjacent gravel roads. However, the south location was 99.7% clay sized particles, which is highly unlikely to have originated from the native soils in the area. This high concentration of fine-grained sediments is most likely being transported via rainfall from the chat piles, continuing as overland flow across the heavily compacted soils beneath the chat pile, entering Elm Creek, and entering the ponded area at the south location, where they remained suspended until the area periodically dried up leaving behind the fine-grained sediments.

Lastly, metals analysis of the water and sediment conducted at the north and south locations six times, and at the unnamed tributary three times (only when water was present). Of the fifteen total tests, multiple samples exceeded EPA cleanup standards for both water and sediment for Cd, Fe, Pb, Mn, and Zn. Additionally, multiple sediment samples exceeded background concentrations for As, Cd, Pb, and Zn. This provided strong evidence of metals derived from the chat. The laboratory analysis also confirmed that the levels of contamination found in the surface water samples at the south location exceeded the levels found at the north location by 64.7% for Fe, 3,604.2% for Pb, 132.8% for Mn, and 2008.0% for Zn. The levels found in the sediment samples for the south location exceeded the levels found at the north location by 3,483.2% for Cd, 168.4 % for Fe, 15,196.3% for Pb, 188.6% for Mn, and 3,288.2% for Zn. The pattern of higher levels found at the south location indicated that the metals contamination was entering Elm Creek from within the study site. Moreover, there were no potential sources of the metals in the upstream or headwaters areas.

To determine if the EPA remediation of the area was effective at reducing contamination, a comparison of the initial and final samples for both water and sediment samples at the north location, indicated that metals concentrations either remained the same or increased from 17 % to as much as 387.4 %. The increases at the

north location are likely examples of how construction activities may make contamination worse until completed. In this case, the constant removal and transportation of contaminated sediments most likely caused the contamination to spread through physical and aeolian transport. Construction activities also contributed to a spike in metals contamination of the water samples seen at the south location on December 28, 2020. This would coincide with the construction of the earthen dam and retention pond.

The comparison of the initial and final water and sediment samples taken at the south location (where the worst contamination was seen) showed decreases in metals content in the surface water for Fe, Mn, and Zn ranging from 29.1 % to 75.9 % and in the sediment samples there were decreases in all tested constituents ranging from 38.6 % to 55.6 %. Metal analysis of the water and sediment samples taken at the unnamed tributary indicated that, except for As, all constituents tested exceeded EPA cleanup targets by 12% to 2000%. The increased metals concentrations found in the water and sediment at the unnamed tributary location can be explained as an accumulation of metal contamination resulting from frequent inundation resulting from flooding of the area during large rainfall events when Elm Creek backs up into the tributary, carrying contaminated sediment up into this channel. When the area floods, metals are transported from the chat upstream in the tributary, and then dries out, leaving the metals contaminated sediments behind to accumulate. Since this area was only tested when water was present, it is reasonable to expect that there would be increased metals contamination at this location.

Conclusions

The aim of this thesis was to determine the effectiveness of the EPA remediation of the water and sediment in Elm Creek. To achieve this water and sediment were sampled and analyzed to determine levels of As, Cd, Fe, Pb, Mn, and Zn within a one-mile reach of Elm Creek quarterly for a period of nineteen months during the remediation. Metals analysis of the last water sample compared to the first sample at the south location resulted in a decrease in Fe, Mn, and Zn by as much as four times. Sediment analysis of the last sample compared to the first sample at the south location resulted in a decrease of all constituents by as much as 2.25 times.

In addition to monitoring water and sediment, this thesis determined that the contamination found within Elm Creek originated from the adjacent chat pile. This was achieved by monitoring water depth, velocity, turbidity, sediment input and discharge, conductivity, pH, and dissolved oxygen (DO). Hydrologic and sedimentologic sampling and monitoring upstream and downstream of the chat pile indicated that the pile itself is not only the

dominant source of sediment in the study area, but also likely the area that generates and delivers the majority of overland flow to the stream. The evidence collected and presented here showed that velocity at the south location (downstream of the chat pile) was, on average, 1.6 times higher than north location. Average change in water depth during rainfall events ranged from 1.02 to 1.22 times higher at the south location and the average change in suspended sediment ranged from 0.8 to 16.6 times higher at the south location, all of which indicated that there was increased overland flow and sediment transport within the study site. Additionally, there was average increase at the south location in conductivity of 2.7 times combined with soil texture analysis that indicated the soils found at the south location were predominately fine-grained particles that likely originated from the chat pile, and laboratory metals analysis that indicated an average increase in metals contamination at the south location ranging from 1.7 times to as much as 153 times. The conductivity, soil texture analysis, and laboratory metals analysis indicate that the increased suspended sediments found at the south location are metal-laden and that the source of these metal-laden sediments is the adjacent chat pile.

At the conclusion of this study, the remediation was still on-going, and a final sample of the surface water and sediment at the completion of remediation could not be obtained. However, given that the hydrologic analysis of the area indicates increased overland flow and metal-laden sediment transport from within the study site, and that the metal analysis indicates that the worst contamination is at the south location, the continued removal of the adjacent chat pile (i.e., source), should reduce the levels of each constituent at the south location. Once chat source removal is complete and the contaminated sediments have been removed from Elm Creek, the levels of metals in both surface water and sediment should remain at or below the EPA established cleanup standards. Given that Elm Creek is just one of dozens of similar creeks and waterways within the Tar Creek Superfund site, and that Bird Dog is one of ~83 chat piles remaining, the results of this study assisted the tribe in the planning of creek diversion during the in stream remediation. Additionally, this study should aid in the future remediation plans for other similar sites by informing on the success of this type of remediation, as well as, providing hydrologic analysis of how this site (and thereby, similar sites) respond to rainfall events.

The creeks and waterways within the TCSS feed into the Neosho River or the Spring River, both of which feed into Grand Lake o' the Cherokees, which is a major drinking water reservoir for the entire region (Oklahoma Water Resources Board, 2001). Metal concentrations that exceed the EPA cleanup standard by as much as 38

times the allowable levels at dozens of sites within 7 defined watersheds in the TCSS could result in the deterioration of drinking water resources with potentially adverse impacts to human health. These impacts would affect not only for the residents within the TCSS area, but also the water resources and residents still living in the Tri-State mining district and the downstream communities (an estimated 154,000 people in 2020) that rely on Grand Lake o' the Cherokees for their drinking water (Oklahoma Water Resources Board, 2012). Environmental impacts of mining are not only found in the Tri-State Mining District; there are presently only 104 superfund sites listed on the NPL that are the result of mining activities (EPA, 2020a). However, the EPA abandoned mine inventory includes 479,439 sites and 254,200 acres over 32 states, all of which have the potential to pose risks to human health or wildlife (EPA, undated). In 2000, the EPA estimated that mining activities contaminated 40% of the watersheds in western united states, and that remediation of the estimated 500,000 abandoned mines would cost at least \$35 billion (EPA, 2000). The western United States includes 22 states west of the Mississippi River, and has an estimated population of over 138 million people (United States Census Bureau, 2020). If these sites have impacts that are similar to the impacts seen at the Bird Dog area, as many as 55 million people could, unknowingly, be at risk of exposure to unsafe drinking water that exceeds EPA safe drinking water limits by as much as 2600%.

Future Study

The Quapaw nation has received additional superfund budget to extend remediation further south of the south location of this study site. A continuation of this study with an expansion of sampling and monitoring further downstream could confirm the conclusions of this study. In addition, an expansion of this study further downstream would allow for a determination of the actual spread of the contamination from the Bird Dog chat pile beyond this immediately adjacent study site and help to identify the risks posed to drinking water resources for the region. During the course of this study, an attempt to quantify expected overland flows was conducted using curve number analysis: however, even with maximum curve numbers applied to the area, the measured discharge volumes exceeded estimated volumes, indicating that estimated discharge volumes could not be accurately calculated without further study into accurate curve numbers for mining talus and the resulting compaction of the soil in areas where tons of additional overburden has been artificially added. In addition to a potential study in curve number analysis, this area could be an excellent area to study aeolian movement of fine-

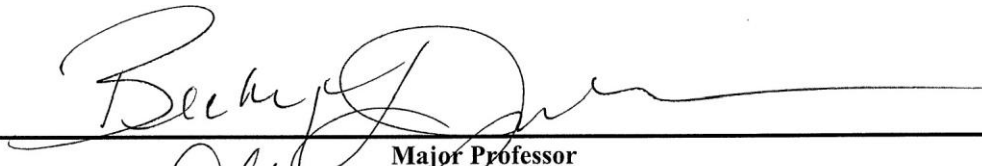
grained sediment, as it is possible that some of the contamination seen at the north location of this study was the result of aeolian transport.

LONG-TERM CONSEQUENCES OF SHORT-TERM THINKING: A STUDY ON THE
EPA REMEDIATION OF ELM CREEK IN PICHER, OKLAHOMA

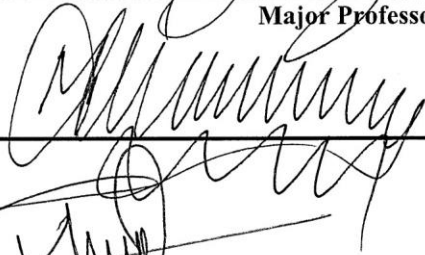
by


Summer A Barrett

Dissertation approved:



Major Professor







For The College of Science and Engineering

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Appendix A

Appendix A: South Location selected rainfall events ≤ 0.79 inches

10/17/2020 – 10/20/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 10/17/2020 | 22:00:00 | 9.985 | 32.75919 | 371.22 | 0.261687 | 0.008499 | 0.145444 | 0 |
| 10/17/2020 | 23:00:00 | 9.991 | 32.77887 | 369.59 | 0.281372 | 0.010965 | 0.145118 | 0 |
| 10/18/2020 | 0:00:00 | 9.995 | 32.792 | 374.29 | 0.294496 | 0.01287 | 0.146058 | 0 |
| 10/18/2020 | 1:00:00 | 9.995 | 32.792 | 381.39 | 0.294496 | 0.01287 | 0.147478 | 0 |
| 10/18/2020 | 2:00:00 | 9.995 | 32.792 | 376.38 | 0.294496 | 0.01287 | 0.146476 | 0 |
| 10/18/2020 | 3:00:00 | 9.991 | 32.77887 | 377.54 | 0.281372 | 0.010965 | 0.146708 | 0 |
| 10/18/2020 | 4:00:00 | 9.987 | 32.76575 | 401.34 | 0.268249 | 0.009271 | 0.151468 | 0 |
| 10/18/2020 | 5:00:00 | 9.983 | 32.75263 | 380.6 | 0.255126 | 0.007773 | 0.14732 | 0 |
| 10/18/2020 | 6:00:00 | 9.991 | 32.77887 | 385.27 | 0.281372 | 0.010965 | 0.148254 | 0 |
| 10/18/2020 | 7:00:00 | 9.997 | 32.79856 | 386.44 | 0.301057 | 0.013905 | 0.148488 | 0 |
| 10/18/2020 | 8:00:00 | 10.003 | 32.81824 | 395.47 | 0.320743 | 0.017371 | 0.150294 | 0 |
| 10/18/2020 | 9:00:00 | 10.01 | 32.84121 | 428.47 | 0.343708 | 0.022148 | 0.156894 | 0.01574804 |
| 10/18/2020 | 10:00:00 | 10.023 | 32.88386 | 405 | 0.386359 | 0.033404 | 0.1522 | 0.01574804 |
| 10/18/2020 | 11:00:00 | 10.027 | 32.89698 | 403.02 | 0.399483 | 0.037563 | 0.151804 | 0 |
| 10/18/2020 | 12:00:00 | 10.034 | 32.91995 | 446.68 | 0.422449 | 0.045714 | 0.160536 | 0 |
| 10/18/2020 | 13:00:00 | 10.038 | 32.93307 | 412.01 | 0.435572 | 0.050901 | 0.153602 | 0.00787402 |
| 10/18/2020 | 14:00:00 | 10.033 | 32.91667 | 366.64 | 0.419168 | 0.044479 | 0.144528 | 0 |
| 10/18/2020 | 15:00:00 | 10.03 | 32.90683 | 357.75 | 0.409325 | 0.040917 | 0.14275 | 0.00787402 |
| 10/18/2020 | 16:00:00 | 10.032 | 32.91339 | 351.12 | 0.415887 | 0.043268 | 0.141424 | 0 |
| 10/18/2020 | 17:00:00 | 10.033 | 32.91667 | 361.84 | 0.419168 | 0.044479 | 0.143568 | 0.07874 |

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|------------|----------|--------|----------|--------|----------|----------|----------|------------|
| 10/18/2020 | 18:00:00 | 10.036 | 32.92651 | 415.47 | 0.42901 | 0.048257 | 0.154294 | 0.01574804 |
| 10/18/2020 | 19:00:00 | 10.038 | 32.93307 | 396.33 | 0.435572 | 0.050901 | 0.150466 | 0.00787402 |
| 10/18/2020 | 20:00:00 | 10.04 | 32.93963 | 365.26 | 0.442134 | 0.053646 | 0.144252 | 0.00787402 |
| 10/18/2020 | 21:00:00 | 10.047 | 32.9626 | 350.39 | 0.465099 | 0.064091 | 0.141278 | 0 |
| 10/18/2020 | 22:00:00 | 10.054 | 32.98557 | 336.93 | 0.488065 | 0.075916 | 0.138586 | 0 |
| 10/18/2020 | 23:00:00 | 10.049 | 32.96916 | 335.3 | 0.471661 | 0.067324 | 0.13826 | 0 |
| 10/19/2020 | 0:00:00 | 10.049 | 32.96916 | 348.56 | 0.471661 | 0.067324 | 0.140912 | 0 |
| 10/19/2020 | 1:00:00 | 10.049 | 32.96916 | 351.58 | 0.471661 | 0.067324 | 0.141516 | 0 |
| 10/19/2020 | 2:00:00 | 10.043 | 32.94948 | 346.33 | 0.451976 | 0.05796 | 0.140466 | 0 |
| 10/19/2020 | 3:00:00 | 10.029 | 32.90354 | 341.88 | 0.406044 | 0.039776 | 0.139576 | 0 |
| 10/19/2020 | 4:00:00 | 10.029 | 32.90354 | 344.24 | 0.406044 | 0.039776 | 0.140048 | 0 |
| 10/19/2020 | 5:00:00 | 10.026 | 32.8937 | 393.27 | 0.396202 | 0.036491 | 0.149854 | 0 |
| 10/19/2020 | 6:00:00 | 10.028 | 32.90026 | 402.12 | 0.402764 | 0.038658 | 0.151624 | 0.03149608 |
| 10/19/2020 | 7:00:00 | 10.024 | 32.88714 | 430.9 | 0.38964 | 0.034411 | 0.15738 | 0.01574804 |
| 10/19/2020 | 8:00:00 | 10.025 | 32.89042 | 434.89 | 0.392921 | 0.03544 | 0.158178 | 0 |
| 10/19/2020 | 9:00:00 | 10.023 | 32.88386 | 443.26 | 0.386359 | 0.033404 | 0.159852 | 0 |
| 10/19/2020 | 10:00:00 | 10.026 | 32.8937 | 444 | 0.396202 | 0.036491 | 0.16 | 0 |
| 10/19/2020 | 11:00:00 | 10.034 | 32.91995 | 431.32 | 0.422449 | 0.045714 | 0.157464 | 0 |
| 10/19/2020 | 12:00:00 | 10.033 | 32.91667 | 433.42 | 0.419168 | 0.044479 | 0.157884 | 0 |
| 10/19/2020 | 13:00:00 | 10.032 | 32.91339 | 397.09 | 0.415887 | 0.043268 | 0.150618 | 0 |
| 10/19/2020 | 14:00:00 | 10.029 | 32.90354 | 405.2 | 0.406044 | 0.039776 | 0.15224 | 0 |
| 10/19/2020 | 15:00:00 | 10.023 | 32.88386 | 406.89 | 0.386359 | 0.033404 | 0.152578 | 0 |
| 10/19/2020 | 16:00:00 | 10.023 | 32.88386 | 383.98 | 0.386359 | 0.033404 | 0.147996 | 0 |
| 10/19/2020 | 17:00:00 | 10.027 | 32.89698 | 374.61 | 0.399483 | 0.037563 | 0.146122 | 0 |
| 10/19/2020 | 18:00:00 | 10.027 | 32.89698 | 401.13 | 0.399483 | 0.037563 | 0.151426 | 0 |
| 10/19/2020 | 19:00:00 | 10.031 | 32.91011 | 391.21 | 0.412606 | 0.04208 | 0.149442 | 0 |
| 10/19/2020 | 20:00:00 | 10.036 | 32.92651 | 402.16 | 0.42901 | 0.048257 | 0.151632 | 0 |
| 10/19/2020 | 21:00:00 | 10.034 | 32.91995 | 398.67 | 0.422449 | 0.045714 | 0.150934 | 0 |
| 10/19/2020 | 22:00:00 | 10.037 | 32.92979 | 374.82 | 0.432291 | 0.049566 | 0.146164 | 0 |
| 10/19/2020 | 23:00:00 | 10.043 | 32.94948 | 376.5 | 0.451976 | 0.05796 | 0.1465 | 0 |

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|------------|---------|--------|----------|--------|----------|----------|----------|---|
| 10/20/2020 | 0:00:00 | 10.036 | 32.92651 | 390.13 | 0.42901 | 0.048257 | 0.149226 | 0 |
| 10/20/2020 | 1:00:00 | 10.035 | 32.92323 | 400.47 | 0.425729 | 0.046973 | 0.151294 | 0 |
| 10/20/2020 | 2:00:00 | 10.033 | 32.91667 | 405.7 | 0.419168 | 0.044479 | 0.15234 | 0 |
| 10/20/2020 | 3:00:00 | 10.033 | 32.91667 | 405.24 | 0.419168 | 0.044479 | 0.152248 | 0 |
| 10/20/2020 | 4:00:00 | 10.03 | 32.90683 | 398.7 | 0.409325 | 0.040917 | 0.15094 | 0 |
| 10/20/2020 | 5:00:00 | 10.021 | 32.8773 | 391.93 | 0.379798 | 0.031453 | 0.149586 | 0 |

10/22/2020 – 10/23/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 10/22/2020 | 19:00:00 | 9.964 | 32.69029 | 435.52 | 0.19279 | 0.002905 | 0.158304 | 0 |
| 10/22/2020 | 20:00:00 | 9.969 | 32.70669 | 439.21 | 0.209194 | 0.00387 | 0.159042 | 0 |
| 10/22/2020 | 21:00:00 | 9.969 | 32.70669 | 440.24 | 0.209194 | 0.00387 | 0.159248 | 0 |
| 10/22/2020 | 22:00:00 | 9.976 | 32.72966 | 443.76 | 0.23216 | 0.005581 | 0.159952 | 0 |
| 10/22/2020 | 23:00:00 | 9.987 | 32.76575 | 452.11 | 0.268249 | 0.009271 | 0.161622 | 0 |
| 10/23/2020 | 0:00:00 | 9.985 | 32.75919 | 455.94 | 0.261687 | 0.008499 | 0.162388 | 0 |
| 10/23/2020 | 1:00:00 | 9.982 | 32.74934 | 463.87 | 0.251845 | 0.007428 | 0.163974 | 0 |
| 10/23/2020 | 2:00:00 | 9.975 | 32.72638 | 470.36 | 0.228879 | 0.005309 | 0.165272 | 0 |
| 10/23/2020 | 3:00:00 | 9.981 | 32.74606 | 473.28 | 0.248564 | 0.007093 | 0.165856 | 0 |
| 10/23/2020 | 4:00:00 | 9.997 | 32.79856 | 469.28 | 0.301057 | 0.013905 | 0.165056 | 0.01574804 |
| 10/23/2020 | 5:00:00 | 10.001 | 32.81168 | 475.1 | 0.314181 | 0.016154 | 0.16622 | 0 |
| 10/23/2020 | 6:00:00 | 10.014 | 32.85433 | 469.71 | 0.356832 | 0.025264 | 0.165142 | 0 |
| 10/23/2020 | 7:00:00 | 10.026 | 32.8937 | 472.84 | 0.396202 | 0.036491 | 0.165768 | 0 |
| 10/23/2020 | 8:00:00 | 10.04 | 32.93963 | 473.16 | 0.442134 | 0.053646 | 0.165832 | 0 |
| 10/23/2020 | 9:00:00 | 10.062 | 33.01181 | 480.84 | 0.514312 | 0.091254 | 0.167368 | 0 |
| 10/23/2020 | 10:00:00 | 10.073 | 33.0479 | 465.34 | 0.550401 | 0.115804 | 0.164268 | 0 |
| 10/23/2020 | 11:00:00 | 10.081 | 33.07415 | 454.98 | 0.576648 | 0.136395 | 0.162196 | 0 |

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|------------|----------|--------|----------|--------|----------|----------|----------|---|
| 10/23/2020 | 12:00:00 | 10.083 | 33.08071 | 468.55 | 0.58321 | 0.141926 | 0.16491 | 0 |
| 10/23/2020 | 13:00:00 | 10.087 | 33.09383 | 473.11 | 0.596333 | 0.153466 | 0.165822 | 0 |
| 10/23/2020 | 14:00:00 | 10.086 | 33.09055 | 457.88 | 0.593052 | 0.15052 | 0.162776 | 0 |
| 10/23/2020 | 15:00:00 | 10.098 | 33.12992 | 447.91 | 0.632422 | 0.188651 | 0.160782 | 0 |
| 10/23/2020 | 16:00:00 | 10.085 | 33.08727 | 481.04 | 0.589771 | 0.147615 | 0.167408 | 0 |
| 10/23/2020 | 17:00:00 | 10.087 | 33.09383 | 494.57 | 0.596333 | 0.153466 | 0.170114 | 0 |
| 10/23/2020 | 18:00:00 | 10.094 | 33.1168 | 496.45 | 0.619299 | 0.175254 | 0.17049 | 0 |

12/12/2020 – 12/14/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 12/12/2020 | 23:00:00 | 10.146 | 33.2874 | 1961.43 | 0.789903 | 0.41201 | 0.463486 | 0 |
| 12/13/2020 | 0:00:00 | 10.154 | 33.31365 | 1959.54 | 0.816149 | 0.462147 | 0.463108 | 0 |
| 12/13/2020 | 1:00:00 | 10.155 | 33.31693 | 1958.62 | 0.81943 | 0.468706 | 0.462924 | 0 |
| 12/13/2020 | 2:00:00 | 10.161 | 33.33662 | 1957.51 | 0.839115 | 0.509471 | 0.462702 | 0 |
| 12/13/2020 | 3:00:00 | 10.156 | 33.32021 | 1954.73 | 0.822711 | 0.475332 | 0.462146 | 0 |
| 12/13/2020 | 4:00:00 | 10.156 | 33.32021 | 1952.74 | 0.822711 | 0.475332 | 0.461748 | 0 |
| 12/13/2020 | 5:00:00 | 10.149 | 33.29725 | 1952.23 | 0.799745 | 0.43033 | 0.461646 | 0 |
| 12/13/2020 | 6:00:00 | 10.154 | 33.31365 | 1951.27 | 0.816149 | 0.462147 | 0.461454 | 0 |
| 12/13/2020 | 7:00:00 | 10.162 | 33.3399 | 1950.9 | 0.842396 | 0.516504 | 0.46138 | 0 |
| 12/13/2020 | 8:00:00 | 10.169 | 33.36286 | 1949.09 | 0.865362 | 0.56769 | 0.461018 | 0 |
| 12/13/2020 | 9:00:00 | 10.167 | 33.3563 | 1948.57 | 0.8588 | 0.552712 | 0.460914 | 0 |
| 12/13/2020 | 10:00:00 | 10.171 | 33.36942 | 1948.56 | 0.871924 | 0.582957 | 0.460912 | 0.00787402 |
| 12/13/2020 | 11:00:00 | 10.18 | 33.39895 | 1944.33 | 0.901451 | 0.655314 | 0.460066 | 0.00787402 |
| 12/13/2020 | 12:00:00 | 10.181 | 33.40223 | 1940.49 | 0.904732 | 0.663731 | 0.459298 | 0.02362206 |
| 12/13/2020 | 13:00:00 | 10.176 | 33.38583 | 1937.95 | 0.888328 | 0.622407 | 0.45879 | 0.03149608 |

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|------------|----------|--------|----------|---------|----------|----------|----------|------------|
| 12/13/2020 | 14:00:00 | 10.173 | 33.37599 | 1938.66 | 0.878485 | 0.598516 | 0.458932 | 0.01574804 |
| 12/13/2020 | 15:00:00 | 10.169 | 33.36286 | 1937.41 | 0.865362 | 0.56769 | 0.458682 | 0.01574804 |
| 12/13/2020 | 16:00:00 | 10.171 | 33.36942 | 1935.82 | 0.871924 | 0.582957 | 0.458364 | 0 |
| 12/13/2020 | 17:00:00 | 10.183 | 33.40879 | 1936.14 | 0.911294 | 0.680797 | 0.458428 | 0 |
| 12/13/2020 | 18:00:00 | 10.181 | 33.40223 | 1936.21 | 0.904732 | 0.663731 | 0.458442 | 0 |
| 12/13/2020 | 19:00:00 | 10.189 | 33.42848 | 1936.38 | 0.930979 | 0.733879 | 0.458476 | 0 |
| 12/13/2020 | 20:00:00 | 10.192 | 33.43832 | 1934.72 | 0.940821 | 0.7615 | 0.458144 | 0 |
| 12/13/2020 | 21:00:00 | 10.2 | 33.46457 | 1929.15 | 0.967068 | 0.838786 | 0.45703 | 0 |
| 12/13/2020 | 22:00:00 | 10.202 | 33.47113 | 1924.26 | 0.97363 | 0.858951 | 0.456052 | 0 |
| 12/13/2020 | 23:00:00 | 10.204 | 33.47769 | 1921.22 | 0.980191 | 0.87946 | 0.455444 | 0 |
| 12/14/2020 | 0:00:00 | 10.206 | 33.48425 | 1917.21 | 0.986753 | 0.900317 | 0.454642 | 0 |
| 12/14/2020 | 1:00:00 | 10.201 | 33.46785 | 1911.94 | 0.970349 | 0.848825 | 0.453588 | 0 |
| 12/14/2020 | 2:00:00 | 10.207 | 33.48753 | 1904.87 | 0.990034 | 0.910878 | 0.452174 | 0 |
| 12/14/2020 | 3:00:00 | 10.212 | 33.50394 | 1901.52 | 1.006438 | 0.965013 | 0.451504 | 0 |
| 12/14/2020 | 4:00:00 | 10.219 | 33.5269 | 1900.9 | 1.029404 | 1.044617 | 0.45138 | 0 |
| 12/14/2020 | 5:00:00 | 10.225 | 33.54659 | 1899.14 | 1.049089 | 1.116497 | 0.451028 | 0 |
| 12/14/2020 | 6:00:00 | 10.221 | 33.53347 | 1894.77 | 1.035966 | 1.068198 | 0.450154 | 0 |
| 12/14/2020 | 7:00:00 | 10.218 | 33.52362 | 1892.79 | 1.026123 | 1.032968 | 0.449758 | 0 |
| 12/14/2020 | 8:00:00 | 10.229 | 33.55971 | 1891.73 | 1.062212 | 1.16634 | 0.449546 | 0 |
| 12/14/2020 | 9:00:00 | 10.228 | 33.55643 | 1884.73 | 1.058932 | 1.153733 | 0.448146 | 0 |
| 12/14/2020 | 10:00:00 | 10.23 | 33.56299 | 1874.8 | 1.065493 | 1.179045 | 0.44616 | 0 |
| 12/14/2020 | 11:00:00 | 10.235 | 33.5794 | 1882.74 | 1.081897 | 1.244059 | 0.447748 | 0 |
| 12/14/2020 | 12:00:00 | 10.237 | 33.58596 | 1887.96 | 1.088459 | 1.270769 | 0.448792 | 0 |
| 12/14/2020 | 13:00:00 | 10.233 | 33.57284 | 1883.85 | 1.075336 | 1.217753 | 0.44797 | 0 |
| 12/14/2020 | 14:00:00 | 10.222 | 33.53675 | 1893.31 | 1.039246 | 1.08013 | 0.449862 | 0 |
| 12/14/2020 | 15:00:00 | 10.209 | 33.4941 | 1886.29 | 0.996596 | 0.932264 | 0.448458 | 0 |
| 12/14/2020 | 16:00:00 | 10.203 | 33.47441 | 1897.56 | 0.976911 | 0.869162 | 0.450712 | 0 |
| 12/14/2020 | 17:00:00 | 10.2 | 33.46457 | 1891.59 | 0.967068 | 0.838786 | 0.449518 | 0 |
| 12/14/2020 | 18:00:00 | 10.197 | 33.45473 | 1884.35 | 0.957225 | 0.809176 | 0.44807 | 0 |

01/27/2021 – 01/28/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/27/2021 | 5:00:00 | 10.242 | 33.60236 | 84.74 | 1.104863 | 1.339335 | 0.088148 | 0 |
| 1/27/2021 | 6:00:00 | 10.244 | 33.60892 | 77.96 | 1.111425 | 1.367488 | 0.086792 | 0 |
| 1/27/2021 | 7:00:00 | 10.259 | 33.65814 | 71.79 | 1.160638 | 1.59231 | 0.085558 | 0 |
| 1/27/2021 | 8:00:00 | 10.272 | 33.70079 | 85.74 | 1.203288 | 1.807544 | 0.088348 | 0 |
| 1/27/2021 | 9:00:00 | 10.28 | 33.72704 | 76.07 | 1.229535 | 1.949894 | 0.086414 | 0 |
| 1/27/2021 | 10:00:00 | 10.29 | 33.75984 | 77.27 | 1.262344 | 2.138892 | 0.086654 | 0 |
| 1/27/2021 | 11:00:00 | 10.302 | 33.79921 | 77.72 | 1.301714 | 2.382573 | 0.086744 | 0 |
| 1/27/2021 | 12:00:00 | 10.304 | 33.80578 | 74.38 | 1.308275 | 2.425033 | 0.086076 | 0.01574804 |
| 1/27/2021 | 13:00:00 | 10.303 | 33.80249 | 74.79 | 1.304995 | 2.403736 | 0.086158 | 0 |
| 1/27/2021 | 14:00:00 | 10.307 | 33.81562 | 77.95 | 1.318118 | 2.489735 | 0.08679 | 0 |
| 1/27/2021 | 15:00:00 | 10.315 | 33.84186 | 78.58 | 1.344365 | 2.668303 | 0.086916 | 0 |
| 1/27/2021 | 16:00:00 | 10.319 | 33.85499 | 79.32 | 1.357488 | 2.760938 | 0.087064 | 0 |
| 1/27/2021 | 17:00:00 | 10.326 | 33.87795 | 76.68 | 1.380454 | 2.928551 | 0.086536 | 0 |
| 1/27/2021 | 18:00:00 | 10.327 | 33.88123 | 78.4 | 1.383735 | 2.953076 | 0.08688 | 0 |
| 1/27/2021 | 19:00:00 | 10.333 | 33.90092 | 77.46 | 1.40342 | 3.10332 | 0.086692 | 0 |
| 1/27/2021 | 20:00:00 | 10.339 | 33.9206 | 83.95 | 1.423105 | 3.258955 | 0.08799 | 0 |
| 1/27/2021 | 21:00:00 | 10.341 | 33.92717 | 79.12 | 1.429666 | 3.312051 | 0.087024 | 0 |
| 1/27/2021 | 22:00:00 | 10.341 | 33.92717 | 69.65 | 1.429666 | 3.312051 | 0.08513 | 0 |
| 1/27/2021 | 23:00:00 | 10.341 | 33.92717 | 65.76 | 1.429666 | 3.312051 | 0.084352 | 0 |
| 1/28/2021 | 0:00:00 | 10.344 | 33.93701 | 65.72 | 1.439509 | 3.392851 | 0.084344 | 0 |
| 1/28/2021 | 1:00:00 | 10.344 | 33.93701 | 67.67 | 1.439509 | 3.392851 | 0.084734 | 0 |
| 1/28/2021 | 2:00:00 | 10.347 | 33.94685 | 68.98 | 1.449351 | 3.475052 | 0.084996 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 1/28/2021 | 3:00:00 | 10.351 | 33.95997 | 68.6 | 1.462475 | 3.586856 | 0.08492 | 0 |
| 1/28/2021 | 4:00:00 | 10.351 | 33.95997 | 72.1 | 1.462475 | 3.586856 | 0.08562 | 0 |
| 1/28/2021 | 5:00:00 | 10.353 | 33.96654 | 70.54 | 1.469037 | 3.643713 | 0.085308 | 0 |
| 1/28/2021 | 6:00:00 | 10.351 | 33.95997 | 69.28 | 1.462475 | 3.586856 | 0.085056 | 0 |
| 1/28/2021 | 7:00:00 | 10.356 | 33.97638 | 71.07 | 1.478879 | 3.730202 | 0.085414 | 0 |
| 1/28/2021 | 8:00:00 | 10.376 | 34.042 | 70.33 | 1.544496 | 4.344788 | 0.085266 | 0 |
| 1/28/2021 | 9:00:00 | 10.393 | 34.09777 | 72.07 | 1.60027 | 4.921453 | 0.085614 | 0 |
| 1/28/2021 | 10:00:00 | 10.404 | 34.13386 | 87.69 | 1.636359 | 5.322542 | 0.088738 | 0 |
| 1/28/2021 | 11:00:00 | 10.41 | 34.15354 | 77.87 | 1.656044 | 5.550903 | 0.086774 | 0 |
| 1/28/2021 | 12:00:00 | 10.403 | 34.13058 | 75.84 | 1.633079 | 5.285146 | 0.086368 | 0 |
| 1/28/2021 | 13:00:00 | 10.392 | 34.09449 | 80.45 | 1.596989 | 4.886098 | 0.08729 | 0 |
| 1/28/2021 | 14:00:00 | 10.374 | 34.03543 | 88.37 | 1.537934 | 4.280287 | 0.088874 | 0 |
| 1/28/2021 | 15:00:00 | 10.367 | 34.01247 | 79.7 | 1.514968 | 4.059921 | 0.08714 | 0 |
| 1/28/2021 | 16:00:00 | 10.348 | 33.95013 | 82.87 | 1.452632 | 3.502766 | 0.087774 | 0 |
| 1/28/2021 | 17:00:00 | 10.325 | 33.87467 | 83.24 | 1.377173 | 2.904172 | 0.087848 | 0 |

02/28/2021 – 03/01/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 2/28/2021 | 0:00:00 | 10.206 | 33.48425 | 39.21 | 0.986753 | 0.900317 | 0.079042 | 0 |
| 2/28/2021 | 1:00:00 | 10.206 | 33.48425 | 40.66 | 0.986753 | 0.900317 | 0.079332 | 0 |
| 2/28/2021 | 2:00:00 | 10.204 | 33.47769 | 46.15 | 0.980191 | 0.87946 | 0.08043 | 0 |
| 2/28/2021 | 3:00:00 | 10.206 | 33.48425 | 40.67 | 0.986753 | 0.900317 | 0.079334 | 0 |
| 2/28/2021 | 4:00:00 | 10.205 | 33.48097 | 46.08 | 0.983472 | 0.889845 | 0.080416 | 0 |
| 2/28/2021 | 5:00:00 | 10.209 | 33.4941 | 38.29 | 0.996596 | 0.932264 | 0.078858 | 0 |
| 2/28/2021 | 6:00:00 | 10.212 | 33.50394 | 36.11 | 1.006438 | 0.965013 | 0.078422 | 0 |
| 2/28/2021 | 7:00:00 | 10.221 | 33.53347 | 34.18 | 1.035966 | 1.068198 | 0.078036 | 0.03149608 |
| 2/28/2021 | 8:00:00 | 10.232 | 33.56955 | 34.56 | 1.072055 | 1.204751 | 0.078112 | 0.00787402 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|---|
| 2/28/2021 | 9:00:00 | 10.247 | 33.61877 | 33.29 | 1.121267 | 1.410507 | 0.077858 | 0 |
| 2/28/2021 | 10:00:00 | 10.254 | 33.64173 | 35.96 | 1.144233 | 1.51464 | 0.078392 | 0 |
| 2/28/2021 | 11:00:00 | 10.264 | 33.67454 | 36.66 | 1.177042 | 1.672788 | 0.078532 | 0 |
| 2/28/2021 | 12:00:00 | 10.272 | 33.70079 | 35.12 | 1.203288 | 1.807544 | 0.078224 | 0 |
| 2/28/2021 | 13:00:00 | 10.264 | 33.67454 | 37.59 | 1.177042 | 1.672788 | 0.078718 | 0 |
| 2/28/2021 | 14:00:00 | 10.263 | 33.67126 | 35.95 | 1.173761 | 1.656465 | 0.07839 | 0 |
| 2/28/2021 | 15:00:00 | 10.271 | 33.69751 | 36.79 | 1.200008 | 1.790289 | 0.078558 | 0 |
| 2/28/2021 | 16:00:00 | 10.275 | 33.71063 | 37.4 | 1.213131 | 1.860022 | 0.07868 | 0 |
| 2/28/2021 | 17:00:00 | 10.275 | 33.71063 | 34.63 | 1.213131 | 1.860022 | 0.078126 | 0 |
| 2/28/2021 | 18:00:00 | 10.281 | 33.73032 | 33.49 | 1.232816 | 1.968234 | 0.077898 | 0 |
| 2/28/2021 | 19:00:00 | 10.293 | 33.76969 | 34.06 | 1.272186 | 2.198056 | 0.078012 | 0 |
| 2/28/2021 | 20:00:00 | 10.303 | 33.80249 | 31.81 | 1.304995 | 2.403736 | 0.077562 | 0 |
| 2/28/2021 | 21:00:00 | 10.315 | 33.84186 | 32.51 | 1.344365 | 2.668303 | 0.077702 | 0 |
| 2/28/2021 | 22:00:00 | 10.325 | 33.87467 | 31.93 | 1.377173 | 2.904172 | 0.077586 | 0 |
| 2/28/2021 | 23:00:00 | 10.336 | 33.91076 | 32.97 | 1.413262 | 3.180457 | 0.077794 | 0 |
| 3/1/2021 | 0:00:00 | 10.342 | 33.93045 | 32.75 | 1.432947 | 3.33883 | 0.07775 | 0 |
| 3/1/2021 | 1:00:00 | 10.345 | 33.94029 | 33.29 | 1.44279 | 3.420095 | 0.077858 | 0 |
| 3/1/2021 | 2:00:00 | 10.35 | 33.95669 | 32.39 | 1.459194 | 3.558667 | 0.077678 | 0 |
| 3/1/2021 | 3:00:00 | 10.348 | 33.95013 | 32.78 | 1.452632 | 3.502766 | 0.077756 | 0 |
| 3/1/2021 | 4:00:00 | 10.356 | 33.97638 | 31.61 | 1.478879 | 3.730202 | 0.077522 | 0 |
| 3/1/2021 | 5:00:00 | 10.359 | 33.98622 | 32.02 | 1.488722 | 3.81815 | 0.077604 | 0 |
| 3/1/2021 | 6:00:00 | 10.358 | 33.98294 | 31.61 | 1.485441 | 3.788671 | 0.077522 | 0 |
| 3/1/2021 | 7:00:00 | 10.374 | 34.03543 | 31.32 | 1.537934 | 4.280287 | 0.077464 | 0 |
| 3/1/2021 | 8:00:00 | 10.404 | 34.13386 | 32 | 1.636359 | 5.322542 | 0.0776 | 0 |
| 3/1/2021 | 9:00:00 | 10.449 | 34.2815 | 141.48 | 1.783997 | 7.209659 | 0.099496 | 0 |
| 3/1/2021 | 10:00:00 | 10.437 | 34.24213 | 51.52 | 1.744627 | 6.666031 | 0.081504 | 0 |
| 3/1/2021 | 11:00:00 | 10.43 | 34.21916 | 48.24 | 1.721661 | 6.362822 | 0.080848 | 0 |
| 3/1/2021 | 12:00:00 | 10.426 | 34.20604 | 67.24 | 1.708538 | 6.19406 | 0.084648 | 0 |
| 3/1/2021 | 13:00:00 | 10.414 | 34.16667 | 61.28 | 1.669168 | 5.706983 | 0.083456 | 0 |
| 3/1/2021 | 14:00:00 | 10.402 | 34.1273 | 54.98 | 1.629798 | 5.247939 | 0.082196 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|---|
| 3/1/2021 | 15:00:00 | 10.396 | 34.10761 | 55.25 | 1.610113 | 5.028618 | 0.08225 | 0 |
| 3/1/2021 | 16:00:00 | 10.393 | 34.09777 | 58.42 | 1.60027 | 4.921453 | 0.082884 | 0 |
| 3/1/2021 | 17:00:00 | 10.388 | 34.08137 | 60.96 | 1.583866 | 4.746491 | 0.083392 | 0 |

03/22/2021 – 03/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/22/2021 | 16:00:00 | 10.279 | 33.72375 | 109.76 | 1.226254 | 1.931676 | 0.093152 | 0 |
| 3/22/2021 | 17:00:00 | 10.255 | 33.64501 | 103.19 | 1.147514 | 1.529953 | 0.091838 | 0 |
| 3/22/2021 | 18:00:00 | 10.244 | 33.60892 | 103.97 | 1.111425 | 1.367488 | 0.091994 | 0 |
| 3/22/2021 | 19:00:00 | 10.234 | 33.57612 | 110.82 | 1.078617 | 1.230856 | 0.093364 | 0 |
| 3/22/2021 | 20:00:00 | 10.228 | 33.55643 | 82.3 | 1.058932 | 1.153733 | 0.08766 | 0 |
| 3/22/2021 | 21:00:00 | 10.223 | 33.54003 | 83.46 | 1.042527 | 1.092157 | 0.087892 | 0 |
| 3/22/2021 | 22:00:00 | 10.218 | 33.52362 | 86.04 | 1.026123 | 1.032968 | 0.088408 | 0 |
| 3/22/2021 | 23:00:00 | 10.212 | 33.50394 | 86.9 | 1.006438 | 0.965013 | 0.08858 | 0.10236226 |
| 3/23/2021 | 0:00:00 | 10.211 | 33.50066 | 94.78 | 1.003157 | 0.954007 | 0.090156 | 0.03149608 |
| 3/23/2021 | 1:00:00 | 10.19 | 33.43176 | 91.11 | 0.93426 | 0.743005 | 0.089422 | 0 |
| 3/23/2021 | 2:00:00 | 10.176 | 33.38583 | 96.36 | 0.888328 | 0.622407 | 0.090472 | 0 |
| 3/23/2021 | 3:00:00 | 10.167 | 33.3563 | 82.87 | 0.8588 | 0.552712 | 0.087774 | 0 |
| 3/23/2021 | 4:00:00 | 10.155 | 33.31693 | 89.75 | 0.81943 | 0.468706 | 0.08915 | 0 |
| 3/23/2021 | 5:00:00 | 10.156 | 33.32021 | 96.83 | 0.822711 | 0.475332 | 0.090566 | 0 |
| 3/23/2021 | 6:00:00 | 10.16 | 33.33333 | 84 | 0.835834 | 0.502507 | 0.088 | 0.00787402 |
| 3/23/2021 | 7:00:00 | 10.17 | 33.36614 | 81.76 | 0.868643 | 0.575288 | 0.087552 | 0 |
| 3/23/2021 | 8:00:00 | 10.196 | 33.45144 | 85.89 | 0.953945 | 0.799475 | 0.088378 | 0 |
| 3/23/2021 | 9:00:00 | 10.219 | 33.5269 | 89.94 | 1.029404 | 1.044617 | 0.089188 | 0 |
| 3/23/2021 | 10:00:00 | 10.231 | 33.56627 | 87.49 | 1.068774 | 1.191848 | 0.088698 | 0 |
| 3/23/2021 | 11:00:00 | 10.24 | 33.5958 | 113.44 | 1.098302 | 1.311599 | 0.093888 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/23/2021 | 12:00:00 | 10.245 | 33.61221 | 104.41 | 1.114706 | 1.381722 | 0.092082 | 0.00787402 |
| 3/23/2021 | 13:00:00 | 10.248 | 33.62205 | 98.35 | 1.124548 | 1.42506 | 0.09087 | 0 |
| 3/23/2021 | 14:00:00 | 10.243 | 33.60564 | 103.3 | 1.108144 | 1.353359 | 0.09186 | 0 |
| 3/23/2021 | 15:00:00 | 10.229 | 33.55971 | 116.97 | 1.062212 | 1.16634 | 0.094594 | 0 |
| 3/23/2021 | 16:00:00 | 10.216 | 33.51706 | 114.45 | 1.019561 | 1.009948 | 0.09409 | 0 |
| 3/23/2021 | 17:00:00 | 10.212 | 33.50394 | 112.38 | 1.006438 | 0.965013 | 0.093676 | 0 |
| 3/23/2021 | 18:00:00 | 10.216 | 33.51706 | 111.36 | 1.019561 | 1.009948 | 0.093472 | 0 |
| 3/23/2021 | 19:00:00 | 10.219 | 33.5269 | 101.73 | 1.029404 | 1.044617 | 0.091546 | 0 |

03/24/2021 – 03/26/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/24/2021 | 19:00:00 | 10.258 | 33.65486 | 76.76 | 1.157357 | 1.576553 | 0.086552 | 0 |
| 3/24/2021 | 20:00:00 | 10.264 | 33.67454 | 76.09 | 1.177042 | 1.672788 | 0.086418 | 0 |
| 3/24/2021 | 21:00:00 | 10.268 | 33.68767 | 75.86 | 1.190165 | 1.739232 | 0.086372 | 0 |
| 3/24/2021 | 22:00:00 | 10.261 | 33.6647 | 76.36 | 1.167199 | 1.624161 | 0.086472 | 0 |
| 3/24/2021 | 23:00:00 | 10.281 | 33.73032 | 75.62 | 1.232816 | 1.968234 | 0.086324 | 0 |
| 3/25/2021 | 0:00:00 | 10.274 | 33.70735 | 74.18 | 1.20985 | 1.84241 | 0.086036 | 0.0393701 |
| 3/25/2021 | 1:00:00 | 10.252 | 33.63517 | 73.69 | 1.137672 | 1.484346 | 0.085938 | 0.02362206 |
| 3/25/2021 | 2:00:00 | 10.232 | 33.56955 | 71.61 | 1.072055 | 1.204751 | 0.085522 | 0 |
| 3/25/2021 | 3:00:00 | 10.236 | 33.58268 | 71.07 | 1.085178 | 1.257363 | 0.085414 | 0 |
| 3/25/2021 | 4:00:00 | 10.221 | 33.53347 | 72.7 | 1.035966 | 1.068198 | 0.08574 | 0 |
| 3/25/2021 | 5:00:00 | 10.223 | 33.54003 | 70.3 | 1.042527 | 1.092157 | 0.08526 | 0 |
| 3/25/2021 | 6:00:00 | 10.222 | 33.53675 | 69.47 | 1.039246 | 1.08013 | 0.085094 | 0 |
| 3/25/2021 | 7:00:00 | 10.23 | 33.56299 | 71.8 | 1.065493 | 1.179045 | 0.08556 | 0 |
| 3/25/2021 | 8:00:00 | 10.268 | 33.68767 | 73.16 | 1.190165 | 1.739232 | 0.085832 | 0 |
| 3/25/2021 | 9:00:00 | 10.283 | 33.73688 | 78.73 | 1.239378 | 2.005283 | 0.086946 | 0 |
| 3/25/2021 | 10:00:00 | 10.285 | 33.74344 | 87.77 | 1.245939 | 2.04283 | 0.088754 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/25/2021 | 11:00:00 | 10.279 | 33.72375 | 83.25 | 1.226254 | 1.931676 | 0.08785 | 0 |
| 3/25/2021 | 12:00:00 | 10.257 | 33.65158 | 87.39 | 1.154076 | 1.560909 | 0.088678 | 0 |
| 3/25/2021 | 13:00:00 | 10.257 | 33.65158 | 92.44 | 1.154076 | 1.560909 | 0.089688 | 0.07086618 |
| 3/25/2021 | 14:00:00 | 10.254 | 33.64173 | 102.15 | 1.144233 | 1.51464 | 0.09163 | 0.0393701 |
| 3/25/2021 | 15:00:00 | 10.249 | 33.62533 | 97.12 | 1.127829 | 1.43972 | 0.090624 | 0 |
| 3/25/2021 | 16:00:00 | 10.248 | 33.62205 | 92.11 | 1.124548 | 1.42506 | 0.089622 | 0 |
| 3/25/2021 | 17:00:00 | 10.263 | 33.67126 | 96.06 | 1.173761 | 1.656465 | 0.090412 | 0 |
| 3/25/2021 | 18:00:00 | 10.267 | 33.68438 | 92.12 | 1.186884 | 1.722447 | 0.089624 | 0 |
| 3/25/2021 | 19:00:00 | 10.266 | 33.6811 | 93.01 | 1.183603 | 1.705779 | 0.089802 | 0 |
| 3/25/2021 | 20:00:00 | 10.273 | 33.70407 | 94.09 | 1.206569 | 1.824917 | 0.090018 | 0 |
| 3/25/2021 | 21:00:00 | 10.279 | 33.72375 | 90.31 | 1.226254 | 1.931676 | 0.089262 | 0 |
| 3/25/2021 | 22:00:00 | 10.284 | 33.74016 | 87.69 | 1.242659 | 2.023994 | 0.088738 | 0 |
| 3/25/2021 | 23:00:00 | 10.292 | 33.76641 | 83.42 | 1.268905 | 2.178206 | 0.087884 | 0 |
| 3/26/2021 | 0:00:00 | 10.301 | 33.79593 | 81.8 | 1.298433 | 2.361543 | 0.08756 | 0 |
| 3/26/2021 | 1:00:00 | 10.301 | 33.79593 | 81.39 | 1.298433 | 2.361543 | 0.087478 | 0 |
| 3/26/2021 | 2:00:00 | 10.299 | 33.78937 | 80.68 | 1.291871 | 2.319883 | 0.087336 | 0 |
| 3/26/2021 | 3:00:00 | 10.297 | 33.78281 | 81.03 | 1.285309 | 2.278751 | 0.087406 | 0 |
| 3/26/2021 | 4:00:00 | 10.3 | 33.79265 | 81.29 | 1.295152 | 2.340647 | 0.087458 | 0 |
| 3/26/2021 | 5:00:00 | 10.304 | 33.80578 | 82.69 | 1.308275 | 2.425033 | 0.087738 | 0 |
| 3/26/2021 | 6:00:00 | 10.304 | 33.80578 | 84.98 | 1.308275 | 2.425033 | 0.088196 | 0.00787402 |
| 3/26/2021 | 7:00:00 | 10.308 | 33.8189 | 84.35 | 1.321399 | 2.511574 | 0.08807 | 0 |
| 3/26/2021 | 8:00:00 | 10.315 | 33.84186 | 87.07 | 1.344365 | 2.668303 | 0.088614 | 0 |
| 3/26/2021 | 9:00:00 | 10.321 | 33.86155 | 87.16 | 1.36405 | 2.808108 | 0.088632 | 0 |
| 3/26/2021 | 10:00:00 | 10.322 | 33.86483 | 90.01 | 1.36733 | 2.831908 | 0.089202 | 0 |
| 3/26/2021 | 11:00:00 | 10.321 | 33.86155 | 90.43 | 1.36405 | 2.808108 | 0.089286 | 0 |
| 3/26/2021 | 12:00:00 | 10.315 | 33.84186 | 91.02 | 1.344365 | 2.668303 | 0.089404 | 0 |
| 3/26/2021 | 13:00:00 | 10.307 | 33.81562 | 94.81 | 1.318118 | 2.489735 | 0.090162 | 0 |
| 3/26/2021 | 14:00:00 | 10.295 | 33.77625 | 102.9 | 1.278748 | 2.238144 | 0.09178 | 0 |
| 3/26/2021 | 15:00:00 | 10.283 | 33.73688 | 107.74 | 1.239378 | 2.005283 | 0.092748 | 0 |

04/07/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/7/2021 | 3:00:00 | 10.164 | 33.34646 | 173.25 | 0.848958 | 0.530776 | 0.10585 | 0 |
| 4/7/2021 | 4:00:00 | 10.171 | 33.36942 | 166.8 | 0.871924 | 0.582957 | 0.10456 | 0 |
| 4/7/2021 | 5:00:00 | 10.165 | 33.34974 | 179.59 | 0.852239 | 0.538018 | 0.107118 | 0 |
| 4/7/2021 | 6:00:00 | 10.167 | 33.3563 | 183.42 | 0.8588 | 0.552712 | 0.107884 | 0 |
| 4/7/2021 | 7:00:00 | 10.172 | 33.3727 | 136.94 | 0.875204 | 0.5907 | 0.098588 | 0 |
| 4/7/2021 | 8:00:00 | 10.169 | 33.36286 | 140.31 | 0.865362 | 0.56769 | 0.099262 | 0 |
| 4/7/2021 | 9:00:00 | 10.162 | 33.3399 | 117.57 | 0.842396 | 0.516504 | 0.094714 | 0 |
| 4/7/2021 | 10:00:00 | 10.171 | 33.36942 | 128.77 | 0.871924 | 0.582957 | 0.096954 | 0 |
| 4/7/2021 | 11:00:00 | 10.185 | 33.41536 | 131.69 | 0.917855 | 0.698175 | 0.097538 | 0.02362206 |
| 4/7/2021 | 12:00:00 | 10.182 | 33.40551 | 131.91 | 0.908013 | 0.672225 | 0.097582 | 0 |
| 4/7/2021 | 13:00:00 | 10.181 | 33.40223 | 132.5 | 0.904732 | 0.663731 | 0.0977 | 0 |
| 4/7/2021 | 14:00:00 | 10.178 | 33.39239 | 141.95 | 0.89489 | 0.638709 | 0.09959 | 0 |
| 4/7/2021 | 15:00:00 | 10.179 | 33.39567 | 159.29 | 0.89817 | 0.646973 | 0.103058 | 0 |
| 4/7/2021 | 16:00:00 | 10.183 | 33.40879 | 135.42 | 0.911294 | 0.680797 | 0.098284 | 0 |
| 4/7/2021 | 17:00:00 | 10.18 | 33.39895 | 130.9 | 0.901451 | 0.655314 | 0.09738 | 0 |
| 4/7/2021 | 18:00:00 | 10.179 | 33.39567 | 133.58 | 0.89817 | 0.646973 | 0.097916 | 0 |
| 4/7/2021 | 19:00:00 | 10.185 | 33.41536 | 147 | 0.917855 | 0.698175 | 0.1006 | 0 |

4/23/2020 – 4/25/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/23/2021 | 16:16:26 | 9.947 | 32.63452 | 34.08 | 0.137015 | 0.000875 | 0.078016 | 0 |
| 4/23/2021 | 17:16:26 | 9.945 | 32.62795 | 40.13 | 0.130454 | 0.000737 | 0.079226 | 0 |
| 4/23/2021 | 18:16:26 | 9.943 | 32.62139 | 38.93 | 0.123892 | 0.000614 | 0.078986 | 0.07086618 |
| 4/23/2021 | 19:16:26 | 9.949 | 32.64108 | 46.59 | 0.143577 | 0.001032 | 0.080518 | 0.01574804 |
| 4/23/2021 | 20:16:26 | 9.956 | 32.66404 | 52.21 | 0.166543 | 0.001737 | 0.081642 | 0.06299216 |
| 4/23/2021 | 21:16:26 | 9.985 | 32.75919 | 60.56 | 0.261687 | 0.008499 | 0.083312 | 0.01574804 |
| 4/23/2021 | 22:16:26 | 9.988 | 32.76903 | 81.86 | 0.27153 | 0.009676 | 0.087572 | 0 |
| 4/23/2021 | 23:16:26 | 9.986 | 32.76247 | 66.9 | 0.264968 | 0.008879 | 0.08458 | 0.03149608 |
| 4/24/2021 | 0:16:26 | 9.988 | 32.76903 | 48.17 | 0.27153 | 0.009676 | 0.080834 | 0 |
| 4/24/2021 | 1:16:26 | 9.982 | 32.74934 | 52.68 | 0.251845 | 0.007428 | 0.081736 | 0.00787402 |
| 4/24/2021 | 2:16:26 | 9.976 | 32.72966 | 50.54 | 0.23216 | 0.005581 | 0.081308 | 0.02362206 |
| 4/24/2021 | 3:16:26 | 9.972 | 32.71654 | 56.09 | 0.219036 | 0.004549 | 0.082418 | 0 |
| 4/24/2021 | 4:16:26 | 9.974 | 32.7231 | 52.33 | 0.225598 | 0.005046 | 0.081666 | 0 |
| 4/24/2021 | 5:16:26 | 9.976 | 32.72966 | 48.3 | 0.23216 | 0.005581 | 0.08086 | 0 |
| 4/24/2021 | 6:16:26 | 9.983 | 32.75263 | 45.13 | 0.255126 | 0.007773 | 0.080226 | 0 |
| 4/24/2021 | 7:16:26 | 9.995 | 32.792 | 41.12 | 0.294496 | 0.01287 | 0.079424 | 0.02362206 |
| 4/24/2021 | 8:16:26 | 10.015 | 32.85761 | 65.7 | 0.360113 | 0.026089 | 0.08434 | 0.00787402 |
| 4/24/2021 | 9:16:26 | 10.024 | 32.88714 | 48.64 | 0.38964 | 0.034411 | 0.080928 | 0 |
| 4/24/2021 | 10:16:26 | 10.03 | 32.90683 | 46 | 0.409325 | 0.040917 | 0.0804 | 0 |
| 4/24/2021 | 11:16:26 | 10.038 | 32.93307 | 42.78 | 0.435572 | 0.050901 | 0.079756 | 0 |
| 4/24/2021 | 12:16:26 | 10.045 | 32.95604 | 38.16 | 0.458538 | 0.06097 | 0.078832 | 0 |
| 4/24/2021 | 13:16:26 | 10.045 | 32.95604 | 35.94 | 0.458538 | 0.06097 | 0.078388 | 0 |
| 4/24/2021 | 14:16:26 | 10.048 | 32.96588 | 33.6 | 0.46838 | 0.065693 | 0.07792 | 0 |
| 4/24/2021 | 15:16:26 | 10.049 | 32.96916 | 31.5 | 0.471661 | 0.067324 | 0.0775 | 0 |
| 4/24/2021 | 16:16:26 | 10.053 | 32.98228 | 29.7 | 0.484785 | 0.074138 | 0.07714 | 0 |
| 4/24/2021 | 17:16:26 | 10.054 | 32.98557 | 27.85 | 0.488065 | 0.075916 | 0.07677 | 0 |
| 4/24/2021 | 18:16:26 | 10.054 | 32.98557 | 26.87 | 0.488065 | 0.075916 | 0.076574 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 4/24/2021 | 19:16:26 | 10.053 | 32.98228 | 26.19 | 0.484785 | 0.074138 | 0.076438 | 0 |
| 4/24/2021 | 20:16:26 | 10.058 | 32.99869 | 25.89 | 0.501189 | 0.083333 | 0.076378 | 0 |
| 4/24/2021 | 21:16:26 | 10.067 | 33.02822 | 25.54 | 0.530716 | 0.101896 | 0.076308 | 0 |
| 4/24/2021 | 22:16:26 | 10.072 | 33.04462 | 25.7 | 0.54712 | 0.113397 | 0.07634 | 0 |
| 4/24/2021 | 23:16:26 | 10.072 | 33.04462 | 25.4 | 0.54712 | 0.113397 | 0.07628 | 0 |
| 4/25/2021 | 0:16:26 | 10.072 | 33.04462 | 25.11 | 0.54712 | 0.113397 | 0.076222 | 0 |
| 4/25/2021 | 1:16:26 | 10.07 | 33.03806 | 24.88 | 0.540559 | 0.108691 | 0.076176 | 0 |
| 4/25/2021 | 2:16:26 | 10.065 | 33.02165 | 24.46 | 0.524155 | 0.097538 | 0.076092 | 0 |
| 4/25/2021 | 3:16:26 | 10.058 | 32.99869 | 24.54 | 0.501189 | 0.083333 | 0.076108 | 0 |
| 4/25/2021 | 4:16:26 | 10.058 | 32.99869 | 24.43 | 0.501189 | 0.083333 | 0.076086 | 0 |
| 4/25/2021 | 5:16:26 | 10.06 | 33.00525 | 36.56 | 0.50775 | 0.087229 | 0.078512 | 0 |
| 4/25/2021 | 6:16:26 | 10.059 | 33.00197 | 26.09 | 0.50447 | 0.085265 | 0.076418 | 0 |
| 4/25/2021 | 7:16:26 | 10.067 | 33.02822 | 25.85 | 0.530716 | 0.101896 | 0.07637 | 0 |
| 4/25/2021 | 8:16:26 | 10.069 | 33.03478 | 27.14 | 0.537278 | 0.106391 | 0.076628 | 0 |
| 4/25/2021 | 9:16:26 | 10.069 | 33.03478 | 26.51 | 0.537278 | 0.106391 | 0.076502 | 0 |
| 4/25/2021 | 10:16:26 | 10.076 | 33.05774 | 26.05 | 0.560244 | 0.123244 | 0.07641 | 0 |
| 4/25/2021 | 11:16:26 | 10.074 | 33.05118 | 26.13 | 0.553682 | 0.118247 | 0.076426 | 0 |

4/27/2021 – 4/29/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/27/2021 | 19:16:26 | 10.025 | 32.89042 | 35.07 | 0.392921 | 0.03544 | 0.078214 | 0 |
| 4/27/2021 | 20:16:26 | 10.032 | 32.91339 | 34.7 | 0.415887 | 0.043268 | 0.07814 | 0 |
| 4/27/2021 | 21:16:26 | 10.037 | 32.92979 | 34.51 | 0.432291 | 0.049566 | 0.078102 | 0 |
| 4/27/2021 | 22:16:26 | 10.05 | 32.97244 | 35.09 | 0.474942 | 0.068984 | 0.078218 | 0 |
| 4/27/2021 | 23:16:26 | 10.043 | 32.94948 | 36.02 | 0.451976 | 0.05796 | 0.078404 | 0.00787402 |
| 4/28/2021 | 0:16:26 | 10.037 | 32.92979 | 34.68 | 0.432291 | 0.049566 | 0.078136 | 0 |
| 4/28/2021 | 1:16:26 | 10.034 | 32.91995 | 35.01 | 0.422449 | 0.045714 | 0.078202 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 4/28/2021 | 2:16:26 | 10.042 | 32.9462 | 35.59 | 0.448695 | 0.056495 | 0.078318 | 0 |
| 4/28/2021 | 3:16:26 | 10.034 | 32.91995 | 34.48 | 0.422449 | 0.045714 | 0.078096 | 0.07086618 |
| 4/28/2021 | 4:16:26 | 10.031 | 32.91011 | 53.32 | 0.412606 | 0.04208 | 0.081864 | 0.00787402 |
| 4/28/2021 | 5:16:26 | 10.024 | 32.88714 | 49.44 | 0.38964 | 0.034411 | 0.081088 | 0 |
| 4/28/2021 | 6:16:26 | 10.026 | 32.8937 | 42.73 | 0.396202 | 0.036491 | 0.079746 | 0.00787402 |
| 4/28/2021 | 7:16:26 | 10.035 | 32.92323 | 41.66 | 0.425729 | 0.046973 | 0.079532 | 0.01574804 |
| 4/28/2021 | 8:16:26 | 10.036 | 32.92651 | 39.91 | 0.42901 | 0.048257 | 0.079182 | 0.05511814 |
| 4/28/2021 | 9:16:26 | 10.033 | 32.91667 | 52.59 | 0.419168 | 0.044479 | 0.081718 | 0.00787402 |
| 4/28/2021 | 10:16:26 | 10.045 | 32.95604 | 49.05 | 0.458538 | 0.06097 | 0.08101 | 0 |
| 4/28/2021 | 11:16:26 | 10.049 | 32.96916 | 45.43 | 0.471661 | 0.067324 | 0.080286 | 0 |
| 4/28/2021 | 12:16:26 | 10.044 | 32.95276 | 43.53 | 0.455257 | 0.059452 | 0.079906 | 0.01574804 |
| 4/28/2021 | 13:16:26 | 10.039 | 32.93635 | 42.15 | 0.438853 | 0.05226 | 0.07963 | 0.02362206 |
| 4/28/2021 | 14:16:26 | 10.034 | 32.91995 | 45.69 | 0.422449 | 0.045714 | 0.080338 | 0.01574804 |
| 4/28/2021 | 15:16:26 | 10.034 | 32.91995 | 52.62 | 0.422449 | 0.045714 | 0.081724 | 0 |
| 4/28/2021 | 16:16:26 | 10.034 | 32.91995 | 47.89 | 0.422449 | 0.045714 | 0.080778 | 0 |
| 4/28/2021 | 17:16:26 | 10.029 | 32.90354 | 44.18 | 0.406044 | 0.039776 | 0.080036 | 0 |
| 4/28/2021 | 18:16:26 | 10.034 | 32.91995 | 42.86 | 0.422449 | 0.045714 | 0.079772 | 0 |
| 4/28/2021 | 19:16:26 | 10.04 | 32.93963 | 42.49 | 0.442134 | 0.053646 | 0.079698 | 0 |
| 4/28/2021 | 20:16:26 | 10.037 | 32.92979 | 41.82 | 0.432291 | 0.049566 | 0.079564 | 0 |
| 4/28/2021 | 21:16:26 | 10.044 | 32.95276 | 42.09 | 0.455257 | 0.059452 | 0.079618 | 0 |
| 4/28/2021 | 22:16:26 | 10.051 | 32.97572 | 48.74 | 0.478223 | 0.070673 | 0.080948 | 0.02362206 |
| 4/28/2021 | 23:16:26 | 10.054 | 32.98557 | 40.94 | 0.488065 | 0.075916 | 0.079388 | 0.02362206 |
| 4/29/2021 | 0:16:26 | 10.047 | 32.9626 | 53.9 | 0.465099 | 0.064091 | 0.08198 | 0 |
| 4/29/2021 | 1:16:26 | 10.04 | 32.93963 | 45.03 | 0.442134 | 0.053646 | 0.080206 | 0 |
| 4/29/2021 | 2:16:26 | 10.055 | 32.98885 | 37.08 | 0.491346 | 0.077724 | 0.078616 | 0 |
| 4/29/2021 | 3:16:26 | 10.049 | 32.96916 | 36.13 | 0.471661 | 0.067324 | 0.078426 | 0 |
| 4/29/2021 | 4:16:26 | 10.06 | 33.00525 | 36.18 | 0.50775 | 0.087229 | 0.078436 | 0 |
| 4/29/2021 | 5:16:26 | 10.068 | 33.0315 | 35.46 | 0.533997 | 0.104126 | 0.078292 | 0 |
| 4/29/2021 | 6:16:26 | 10.085 | 33.08727 | 37.79 | 0.589771 | 0.147615 | 0.078758 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 4/29/2021 | 7:16:26 | 10.097 | 33.12664 | 35.9 | 0.629141 | 0.185236 | 0.07838 | 0 |
| 4/29/2021 | 8:16:26 | 10.111 | 33.17257 | 35.61 | 0.675073 | 0.237265 | 0.078322 | 0 |
| 4/29/2021 | 9:16:26 | 10.112 | 33.17585 | 35.47 | 0.678354 | 0.241341 | 0.078294 | 0 |
| 4/29/2021 | 10:16:26 | 10.118 | 33.19554 | 35.14 | 0.698039 | 0.266855 | 0.078228 | 0 |
| 4/29/2021 | 11:16:26 | 10.129 | 33.23163 | 35.54 | 0.734128 | 0.318556 | 0.078308 | 0 |

5/9/2021 – 5/10/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/9/2021 | 4:16:26 | 9.905 | 32.49672 | 36.92 | 0 | 0 | 0.078584 | 0 |
| 5/9/2021 | 5:16:26 | 9.914 | 32.52625 | 35.87 | 0.028748 | 3.63E-06 | 0.078374 | 0 |
| 5/9/2021 | 6:16:26 | 9.921 | 32.54921 | 37.12 | 0.051714 | 2.85E-05 | 0.078624 | 0 |
| 5/9/2021 | 7:16:26 | 9.931 | 32.58202 | 38.52 | 0.084522 | 0.00016 | 0.078904 | 0.03149608 |
| 5/9/2021 | 8:16:26 | 9.957 | 32.66732 | 35.3 | 0.169824 | 0.001861 | 0.07826 | 0 |
| 5/9/2021 | 9:16:26 | 9.979 | 32.7395 | 33.04 | 0.242002 | 0.006457 | 0.077808 | 0 |
| 5/9/2021 | 10:16:26 | 9.997 | 32.79856 | 32.19 | 0.301057 | 0.013905 | 0.077638 | 0 |
| 5/9/2021 | 11:16:26 | 10.011 | 32.84449 | 32.56 | 0.346989 | 0.0229 | 0.077712 | 0 |
| 5/9/2021 | 12:16:26 | 10.019 | 32.87074 | 31.13 | 0.373236 | 0.029585 | 0.077426 | 0 |
| 5/9/2021 | 13:16:26 | 10.025 | 32.89042 | 30.7 | 0.392921 | 0.03544 | 0.07734 | 0 |
| 5/9/2021 | 14:16:26 | 10.033 | 32.91667 | 30.57 | 0.419168 | 0.044479 | 0.077314 | 0 |
| 5/9/2021 | 15:16:26 | 10.034 | 32.91995 | 29.58 | 0.422449 | 0.045714 | 0.077116 | 0 |
| 5/9/2021 | 16:16:26 | 10.035 | 32.92323 | 29.59 | 0.425729 | 0.046973 | 0.077118 | 0 |
| 5/9/2021 | 17:16:26 | 10.036 | 32.92651 | 29.5 | 0.42901 | 0.048257 | 0.0771 | 0 |
| 5/9/2021 | 18:16:26 | 10.037 | 32.92979 | 29.41 | 0.432291 | 0.049566 | 0.077082 | 0 |
| 5/9/2021 | 19:16:26 | 10.043 | 32.94948 | 30.34 | 0.451976 | 0.05796 | 0.077268 | 0 |
| 5/9/2021 | 20:16:26 | 10.04 | 32.93963 | 29.12 | 0.442134 | 0.053646 | 0.077024 | 0 |
| 5/9/2021 | 21:16:26 | 10.047 | 32.9626 | 29.28 | 0.465099 | 0.064091 | 0.077056 | 0 |
| 5/9/2021 | 22:16:26 | 10.061 | 33.00853 | 29.25 | 0.511031 | 0.089225 | 0.07705 | 0 |
| 5/9/2021 | 23:16:26 | 10.071 | 33.04134 | 42.46 | 0.54384 | 0.111026 | 0.079692 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 5/10/2021 | 0:16:26 | 10.075 | 33.05446 | 33.66 | 0.556963 | 0.120727 | 0.077932 | 0 |
| 5/10/2021 | 1:16:26 | 10.077 | 33.06102 | 30.33 | 0.563525 | 0.125798 | 0.077266 | 0 |
| 5/10/2021 | 2:16:26 | 10.067 | 33.02822 | 28.82 | 0.530716 | 0.101896 | 0.076964 | 0 |
| 5/10/2021 | 3:16:26 | 10.068 | 33.0315 | 28.59 | 0.533997 | 0.104126 | 0.076918 | 0 |
| 5/10/2021 | 4:16:26 | 10.071 | 33.04134 | 28.36 | 0.54384 | 0.111026 | 0.076872 | 0 |
| 5/10/2021 | 5:16:26 | 10.074 | 33.05118 | 28.19 | 0.553682 | 0.118247 | 0.076838 | 0 |
| 5/10/2021 | 6:16:26 | 10.065 | 33.02165 | 29.04 | 0.524155 | 0.097538 | 0.077008 | 0 |
| 5/10/2021 | 7:16:26 | 10.072 | 33.04462 | 28.45 | 0.54712 | 0.113397 | 0.07689 | 0 |
| 5/10/2021 | 8:16:26 | 10.073 | 33.0479 | 28.4 | 0.550401 | 0.115804 | 0.07688 | 0.00787402 |
| 5/10/2021 | 9:16:26 | 10.093 | 33.11352 | 28.34 | 0.616018 | 0.172014 | 0.076868 | 0 |
| 5/10/2021 | 10:16:26 | 10.092 | 33.11024 | 27.64 | 0.612737 | 0.168817 | 0.076728 | 0.02362206 |
| 5/10/2021 | 11:16:26 | 10.088 | 33.09711 | 29.38 | 0.599614 | 0.156453 | 0.077076 | 0.01574804 |
| 5/10/2021 | 12:16:26 | 10.082 | 33.07743 | 27.96 | 0.579929 | 0.139141 | 0.076792 | 0 |
| 5/10/2021 | 13:16:26 | 10.085 | 33.08727 | 27.85 | 0.589771 | 0.147615 | 0.07677 | 0 |
| 5/10/2021 | 14:16:26 | 10.08 | 33.07087 | 27.88 | 0.573367 | 0.133688 | 0.076776 | 0 |
| 5/10/2021 | 15:16:26 | 10.082 | 33.07743 | 27.83 | 0.579929 | 0.139141 | 0.076766 | 0 |
| 5/10/2021 | 16:16:26 | 10.08 | 33.07087 | 27.61 | 0.573367 | 0.133688 | 0.076722 | 0 |
| 5/10/2021 | 17:16:26 | 10.076 | 33.05774 | 27.84 | 0.560244 | 0.123244 | 0.076768 | 0 |
| 5/10/2021 | 18:16:26 | 10.077 | 33.06102 | 27.94 | 0.563525 | 0.125798 | 0.076788 | 0 |
| 5/10/2021 | 19:16:26 | 10.075 | 33.05446 | 27.84 | 0.556963 | 0.120727 | 0.076768 | 0 |
| 5/10/2021 | 20:16:26 | 10.072 | 33.04462 | 27.91 | 0.54712 | 0.113397 | 0.076782 | 0 |
| 5/10/2021 | 21:16:26 | 10.077 | 33.06102 | 27.93 | 0.563525 | 0.125798 | 0.076786 | 0 |

5/14/2021 – 5/15/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/14/2021 | 21:16:26 | 10.056 | 32.99213 | 26.67 | 0.494627 | 0.079563 | 0.076534 | 0 |
| 5/14/2021 | 22:16:26 | 10.06 | 33.00525 | 26.69 | 0.50775 | 0.087229 | 0.076538 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 5/14/2021 | 23:16:26 | 10.064 | 33.01837 | 26.77 | 0.520874 | 0.09541 | 0.076554 | 0 |
| 5/15/2021 | 0:16:26 | 10.065 | 33.02165 | 27.92 | 0.524155 | 0.097538 | 0.076784 | 0 |
| 5/15/2021 | 1:16:26 | 10.068 | 33.0315 | 28.17 | 0.533997 | 0.104126 | 0.076834 | 0 |
| 5/15/2021 | 2:16:26 | 10.062 | 33.01181 | 27.78 | 0.514312 | 0.091254 | 0.076756 | 0 |
| 5/15/2021 | 3:16:26 | 10.059 | 33.00197 | 27.57 | 0.50447 | 0.085265 | 0.076714 | 0 |
| 5/15/2021 | 4:16:26 | 10.05 | 32.97244 | 27.75 | 0.474942 | 0.068984 | 0.07675 | 0 |
| 5/15/2021 | 5:16:26 | 10.064 | 33.01837 | 28.7 | 0.520874 | 0.09541 | 0.07694 | 0 |
| 5/15/2021 | 6:16:26 | 10.065 | 33.02165 | 27.91 | 0.524155 | 0.097538 | 0.076782 | 0 |
| 5/15/2021 | 7:16:26 | 10.063 | 33.01509 | 27.7 | 0.517593 | 0.093316 | 0.07674 | 0.05511814 |
| 5/15/2021 | 8:16:26 | 10.057 | 32.99541 | 27.93 | 0.497908 | 0.081432 | 0.076786 | 0.13385834 |
| 5/15/2021 | 9:16:26 | 10.069 | 33.03478 | 113.87 | 0.537278 | 0.106391 | 0.093974 | 0.01574804 |
| 5/15/2021 | 10:16:26 | 10.065 | 33.02165 | 77.67 | 0.524155 | 0.097538 | 0.086734 | 0 |
| 5/15/2021 | 11:16:26 | 10.065 | 33.02165 | 62.3 | 0.524155 | 0.097538 | 0.08366 | 0 |
| 5/15/2021 | 12:16:26 | 10.067 | 33.02822 | 33.74 | 0.530716 | 0.101896 | 0.077948 | 0 |
| 5/15/2021 | 13:16:26 | 10.063 | 33.01509 | 37.24 | 0.517593 | 0.093316 | 0.078648 | 0 |
| 5/15/2021 | 14:16:26 | 10.054 | 32.98557 | 51.87 | 0.488065 | 0.075916 | 0.081574 | 0 |
| 5/15/2021 | 15:16:26 | 10.055 | 32.98885 | 29.34 | 0.491346 | 0.077724 | 0.077068 | 0 |
| 5/15/2021 | 16:16:26 | 10.052 | 32.979 | 29.4 | 0.481504 | 0.072391 | 0.07708 | 0 |
| 5/15/2021 | 17:16:26 | 10.048 | 32.96588 | 28.69 | 0.46838 | 0.065693 | 0.076938 | 0 |

5/18/2021 – 5/21/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) | |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|--|
| 5/18/2021 | 14:16:26 | 10.105 | 33.15289 | 46.78 | 0.655388 | 0.213837 | 0.080556 | 0 | |
| 5/18/2021 | 15:16:26 | 10.1 | 33.13648 | 46.27 | 0.638984 | 0.195618 | 0.080454 | 0 | |
| 5/18/2021 | 16:16:26 | 10.09 | 33.10368 | 46.77 | 0.606176 | 0.162551 | 0.080554 | 0 | |
| 5/18/2021 | 17:16:26 | 10.086 | 33.09055 | 47.12 | 0.593052 | 0.15052 | 0.080624 | 0 | |
| 5/18/2021 | 18:16:26 | 10.08 | 33.07087 | 48.19 | 0.573367 | 0.133688 | 0.080838 | 0 | |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 5/18/2021 | 19:16:26 | 10.076 | 33.05774 | 47.74 | 0.560244 | 0.123244 | 0.080748 | 0 |
| 5/18/2021 | 20:16:26 | 10.076 | 33.05774 | 48.18 | 0.560244 | 0.123244 | 0.080836 | 0 |
| 5/18/2021 | 21:16:26 | 10.078 | 33.06431 | 48.28 | 0.566806 | 0.12839 | 0.080856 | 0 |
| 5/18/2021 | 22:16:26 | 10.078 | 33.06431 | 48.15 | 0.566806 | 0.12839 | 0.08083 | 0 |
| 5/18/2021 | 23:16:26 | 10.078 | 33.06431 | 48.65 | 0.566806 | 0.12839 | 0.08093 | 0 |
| 5/19/2021 | 0:16:26 | 10.08 | 33.07087 | 48.43 | 0.573367 | 0.133688 | 0.080886 | 0 |
| 5/19/2021 | 1:16:26 | 10.077 | 33.06102 | 51.85 | 0.563525 | 0.125798 | 0.08157 | 0 |
| 5/19/2021 | 2:16:26 | 10.072 | 33.04462 | 49.58 | 0.54712 | 0.113397 | 0.081116 | 0 |
| 5/19/2021 | 3:16:26 | 10.068 | 33.0315 | 49.18 | 0.533997 | 0.104126 | 0.081036 | 0.06299216 |
| 5/19/2021 | 4:16:26 | 10.07 | 33.03806 | 50.17 | 0.540559 | 0.108691 | 0.081234 | 0.1181103 |
| 5/19/2021 | 5:16:26 | 10.075 | 33.05446 | 63.41 | 0.556963 | 0.120727 | 0.083882 | 0.007874 |
| 5/19/2021 | 6:16:26 | 10.088 | 33.09711 | 52.09 | 0.599614 | 0.156453 | 0.081618 | 0 |
| 5/19/2021 | 7:16:26 | 10.093 | 33.11352 | 51.56 | 0.616018 | 0.172014 | 0.081512 | 0 |
| 5/19/2021 | 8:16:26 | 10.108 | 33.16273 | 50.54 | 0.665231 | 0.225334 | 0.081308 | 0.02362206 |
| 5/19/2021 | 9:16:26 | 10.117 | 33.19226 | 52.79 | 0.694758 | 0.262475 | 0.081758 | 0.007874 |
| 5/19/2021 | 10:16:26 | 10.115 | 33.1857 | 51.36 | 0.688197 | 0.253869 | 0.081472 | 0 |
| 5/19/2021 | 11:16:26 | 10.106 | 33.15617 | 50.68 | 0.658669 | 0.217622 | 0.081336 | 0 |
| 5/19/2021 | 12:16:26 | 10.104 | 33.14961 | 50.72 | 0.652107 | 0.2101 | 0.081344 | 0 |
| 5/19/2021 | 13:16:26 | 10.1 | 33.13648 | 51.76 | 0.638984 | 0.195618 | 0.081552 | 0 |
| 5/19/2021 | 14:16:26 | 10.093 | 33.11352 | 52.72 | 0.616018 | 0.172014 | 0.081744 | 0 |
| 5/19/2021 | 15:16:26 | 10.088 | 33.09711 | 85.83 | 0.599614 | 0.156453 | 0.088366 | 0.05511814 |
| 5/19/2021 | 16:16:26 | 10.088 | 33.09711 | 60.48 | 0.599614 | 0.156453 | 0.083296 | 0 |
| 5/19/2021 | 17:16:26 | 10.084 | 33.08399 | 54.86 | 0.586491 | 0.14475 | 0.082172 | 0.007874 |
| 5/19/2021 | 18:16:26 | 10.083 | 33.08071 | 53.93 | 0.58321 | 0.141926 | 0.081986 | 0.05511814 |
| 5/19/2021 | 19:16:26 | 10.08 | 33.07087 | 55.31 | 0.573367 | 0.133688 | 0.082262 | 0.05511814 |
| 5/19/2021 | 20:16:26 | 10.082 | 33.07743 | 63.03 | 0.579929 | 0.139141 | 0.083806 | 0.01574804 |
| 5/19/2021 | 21:16:26 | 10.089 | 33.10039 | 52.33 | 0.602895 | 0.159481 | 0.081666 | 0 |
| 5/19/2021 | 22:16:26 | 10.1 | 33.13648 | 48.91 | 0.638984 | 0.195618 | 0.080982 | 0 |
| 5/19/2021 | 23:16:26 | 10.104 | 33.14961 | 46.91 | 0.652107 | 0.2101 | 0.080582 | 0.0393701 |
| 5/20/2021 | 0:16:26 | 10.107 | 33.15945 | 49.45 | 0.66195 | 0.221454 | 0.08109 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 5/20/2021 | 1:16:26 | 10.108 | 33.16273 | 49.98 | 0.665231 | 0.225334 | 0.081196 | 0 |
| 5/20/2021 | 2:16:26 | 10.11 | 33.16929 | 49.9 | 0.671792 | 0.233239 | 0.08118 | 0 |
| 5/20/2021 | 3:16:26 | 10.109 | 33.16601 | 50.05 | 0.668512 | 0.229262 | 0.08121 | 0 |
| 5/20/2021 | 4:16:26 | 10.107 | 33.15945 | 49.72 | 0.66195 | 0.221454 | 0.081144 | 0 |
| 5/20/2021 | 5:16:26 | 10.112 | 33.17585 | 50.49 | 0.678354 | 0.241341 | 0.081298 | 0 |
| 5/20/2021 | 6:16:26 | 10.114 | 33.18242 | 50.39 | 0.684916 | 0.249643 | 0.081278 | 0 |
| 5/20/2021 | 7:16:26 | 10.12 | 33.2021 | 50.59 | 0.704601 | 0.275772 | 0.081318 | 0 |
| 5/20/2021 | 8:16:26 | 10.124 | 33.21522 | 49.79 | 0.717724 | 0.294243 | 0.081158 | 0 |
| 5/20/2021 | 9:16:26 | 10.127 | 33.22507 | 49.67 | 0.727567 | 0.308665 | 0.081134 | 0 |
| 5/20/2021 | 10:16:26 | 10.131 | 33.23819 | 50.62 | 0.74069 | 0.328671 | 0.081324 | 0.007874 |
| 5/20/2021 | 11:16:26 | 10.134 | 33.24803 | 50.52 | 0.750533 | 0.344273 | 0.081304 | 0.08661422 |
| 5/20/2021 | 12:16:26 | 10.142 | 33.27428 | 63.31 | 0.776779 | 0.38846 | 0.083862 | 0.01574804 |
| 5/20/2021 | 13:16:26 | 10.15 | 33.30053 | 54.73 | 0.803026 | 0.436564 | 0.082146 | 0.01574804 |
| 5/20/2021 | 14:16:26 | 10.152 | 33.30709 | 53.02 | 0.809588 | 0.449225 | 0.081804 | 0 |
| 5/20/2021 | 15:16:26 | 10.151 | 33.30381 | 52.51 | 0.806307 | 0.442862 | 0.081702 | 0 |
| 5/20/2021 | 16:16:26 | 10.147 | 33.29068 | 53.16 | 0.793183 | 0.418053 | 0.081832 | 0 |
| 5/20/2021 | 17:16:26 | 10.146 | 33.2874 | 55.26 | 0.789903 | 0.41201 | 0.082252 | 0 |
| 5/20/2021 | 18:16:26 | 10.143 | 33.27756 | 55.52 | 0.78006 | 0.394255 | 0.082304 | 0 |
| 5/20/2021 | 19:16:26 | 10.142 | 33.27428 | 56.28 | 0.776779 | 0.38846 | 0.082456 | 0 |
| 5/20/2021 | 20:16:26 | 10.143 | 33.27756 | 55.95 | 0.78006 | 0.394255 | 0.08239 | 0 |
| 5/20/2021 | 21:16:26 | 10.147 | 33.29068 | 56.66 | 0.793183 | 0.418053 | 0.082532 | 0 |
| 5/20/2021 | 22:16:26 | 10.153 | 33.31037 | 55.98 | 0.812869 | 0.455653 | 0.082396 | 0 |
| 5/20/2021 | 23:16:26 | 10.159 | 33.33005 | 56.46 | 0.832554 | 0.495612 | 0.082492 | 0 |
| 5/21/2021 | 0:16:26 | 10.164 | 33.34646 | 56.18 | 0.848958 | 0.530776 | 0.082436 | 0.03149608 |
| 5/21/2021 | 1:16:26 | 10.166 | 33.35302 | 56.72 | 0.855519 | 0.545329 | 0.082544 | 0 |
| 5/21/2021 | 2:16:26 | 10.164 | 33.34646 | 56.63 | 0.848958 | 0.530776 | 0.082526 | 0 |
| 5/21/2021 | 3:16:26 | 10.166 | 33.35302 | 56.28 | 0.855519 | 0.545329 | 0.082456 | 0 |
| 5/21/2021 | 4:16:26 | 10.17 | 33.36614 | 56.47 | 0.868643 | 0.575288 | 0.082494 | 0 |
| 5/21/2021 | 5:16:26 | 10.176 | 33.38583 | 56.99 | 0.888328 | 0.622407 | 0.082598 | 0 |
| 5/21/2021 | 6:16:26 | 10.181 | 33.40223 | 57.63 | 0.904732 | 0.663731 | 0.082726 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 5/21/2021 | 7:16:26 | 10.189 | 33.42848 | 57.68 | 0.930979 | 0.733879 | 0.082736 | 0 |
| 5/21/2021 | 8:16:26 | 10.196 | 33.45144 | 59.12 | 0.953945 | 0.799475 | 0.083024 | 0 |
| 5/21/2021 | 9:16:26 | 10.197 | 33.45473 | 58.39 | 0.957225 | 0.809176 | 0.082878 | 0 |
| 5/21/2021 | 10:16:26 | 10.199 | 33.46129 | 58.88 | 0.963787 | 0.828831 | 0.082976 | 0 |
| 5/21/2021 | 11:16:26 | 10.2 | 33.46457 | 59.47 | 0.967068 | 0.838786 | 0.083094 | 0 |

5/21/2021 – 5/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/21/2021 | 12:16:26 | 10.2 | 33.46457 | 58.85 | 0.967068 | 0.838786 | 0.08297 | 0 |
| 5/21/2021 | 13:16:26 | 10.203 | 33.47441 | 59.58 | 0.976911 | 0.869162 | 0.083116 | 0 |
| 5/21/2021 | 14:16:26 | 10.203 | 33.47441 | 60.96 | 0.976911 | 0.869162 | 0.083392 | 0 |
| 5/21/2021 | 15:16:26 | 10.198 | 33.45801 | 61.01 | 0.960506 | 0.818961 | 0.083402 | 0 |
| 5/21/2021 | 16:16:26 | 10.193 | 33.4416 | 62.32 | 0.944102 | 0.77087 | 0.083664 | 0 |
| 5/21/2021 | 17:16:26 | 10.192 | 33.43832 | 62.82 | 0.940821 | 0.7615 | 0.083764 | 0 |
| 5/21/2021 | 18:16:26 | 10.191 | 33.43504 | 63.52 | 0.93754 | 0.752212 | 0.083904 | 0 |
| 5/21/2021 | 19:16:26 | 10.19 | 33.43176 | 64.37 | 0.93426 | 0.743005 | 0.084074 | 0 |
| 5/21/2021 | 20:16:26 | 10.189 | 33.42848 | 64.84 | 0.930979 | 0.733879 | 0.084168 | 0 |
| 5/21/2021 | 21:16:26 | 10.189 | 33.42848 | 65.62 | 0.930979 | 0.733879 | 0.084324 | 0 |
| 5/21/2021 | 22:16:26 | 10.192 | 33.43832 | 66.48 | 0.940821 | 0.7615 | 0.084496 | 0.02362206 |
| 5/21/2021 | 23:16:26 | 10.192 | 33.43832 | 66.83 | 0.940821 | 0.7615 | 0.084566 | 0 |
| 5/22/2021 | 0:16:26 | 10.189 | 33.42848 | 65.98 | 0.930979 | 0.733879 | 0.084396 | 0 |
| 5/22/2021 | 1:16:26 | 10.186 | 33.41864 | 67.37 | 0.921136 | 0.706982 | 0.084674 | 0 |
| 5/22/2021 | 2:16:26 | 10.183 | 33.40879 | 67.5 | 0.911294 | 0.680797 | 0.0847 | 0 |
| 5/22/2021 | 3:16:26 | 10.181 | 33.40223 | 66.1 | 0.904732 | 0.663731 | 0.08442 | 0 |
| 5/22/2021 | 4:16:26 | 10.185 | 33.41536 | 64.83 | 0.917855 | 0.698175 | 0.084166 | 0 |
| 5/22/2021 | 5:16:26 | 10.189 | 33.42848 | 64.88 | 0.930979 | 0.733879 | 0.084176 | 0 |
| 5/22/2021 | 6:16:26 | 10.194 | 33.44488 | 65.7 | 0.947383 | 0.780322 | 0.08434 | 0.07874 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 5/22/2021 | 7:16:26 | 10.207 | 33.48753 | 74.67 | 0.990034 | 0.910878 | 0.086134 | 0.09448824 |
| 5/22/2021 | 8:16:26 | 10.224 | 33.54331 | 83.95 | 1.045808 | 1.104279 | 0.08799 | 0.1574804 |
| 5/22/2021 | 9:16:26 | 10.261 | 33.6647 | 80.92 | 1.167199 | 1.624161 | 0.087384 | 0.01574804 |
| 5/22/2021 | 10:16:26 | 10.29 | 33.75984 | 66.01 | 1.262344 | 2.138892 | 0.084402 | 0 |
| 5/22/2021 | 11:16:26 | 10.299 | 33.78937 | 59.7 | 1.291871 | 2.319883 | 0.08314 | 0 |
| 5/22/2021 | 12:16:26 | 10.299 | 33.78937 | 59.3 | 1.291871 | 2.319883 | 0.08306 | 0 |
| 5/22/2021 | 13:16:26 | 10.299 | 33.78937 | 56.6 | 1.291871 | 2.319883 | 0.08252 | 0 |
| 5/22/2021 | 14:16:26 | 10.297 | 33.78281 | 56.62 | 1.285309 | 2.278751 | 0.082524 | 0 |
| 5/22/2021 | 15:16:26 | 10.303 | 33.80249 | 56.43 | 1.304995 | 2.403736 | 0.082486 | 0 |
| 5/22/2021 | 16:16:26 | 10.307 | 33.81562 | 54.29 | 1.318118 | 2.489735 | 0.082058 | 0 |
| 5/22/2021 | 17:16:26 | 10.308 | 33.8189 | 54.42 | 1.321399 | 2.511574 | 0.082084 | 0 |
| 5/22/2021 | 18:16:26 | 10.306 | 33.81234 | 53.2 | 1.314837 | 2.468033 | 0.08184 | 0 |
| 5/22/2021 | 19:16:26 | 10.305 | 33.80906 | 52.11 | 1.311556 | 2.446465 | 0.081622 | 0 |
| 5/22/2021 | 20:16:26 | 10.301 | 33.79593 | 51.34 | 1.298433 | 2.361543 | 0.081468 | 0 |
| 5/22/2021 | 21:16:26 | 10.294 | 33.77297 | 51.27 | 1.275467 | 2.218035 | 0.081454 | 0 |
| 5/22/2021 | 22:16:26 | 10.289 | 33.75656 | 51.17 | 1.259063 | 2.119426 | 0.081434 | 0 |
| 5/22/2021 | 23:16:26 | 10.283 | 33.73688 | 51.42 | 1.239378 | 2.005283 | 0.081484 | 0 |
| 5/23/2021 | 0:16:26 | 10.273 | 33.70407 | 51.8 | 1.206569 | 1.824917 | 0.08156 | 0 |
| 5/23/2021 | 1:16:26 | 10.267 | 33.68438 | 51.94 | 1.186884 | 1.722447 | 0.081588 | 0 |
| 5/23/2021 | 2:16:26 | 10.258 | 33.65486 | 51.99 | 1.157357 | 1.576553 | 0.081598 | 0 |
| 5/23/2021 | 3:16:26 | 10.247 | 33.61877 | 52.33 | 1.121267 | 1.410507 | 0.081666 | 0 |
| 5/23/2021 | 4:16:26 | 10.238 | 33.58924 | 52.88 | 1.09174 | 1.284276 | 0.081776 | 0 |
| 5/23/2021 | 5:16:26 | 10.231 | 33.56627 | 51.58 | 1.068774 | 1.191848 | 0.081516 | 0 |
| 5/23/2021 | 6:16:26 | 10.23 | 33.56299 | 51.92 | 1.065493 | 1.179045 | 0.081584 | 0 |
| 5/23/2021 | 7:16:26 | 10.232 | 33.56955 | 51.87 | 1.072055 | 1.204751 | 0.081574 | 0 |
| 5/23/2021 | 8:16:26 | 10.228 | 33.55643 | 52.39 | 1.058932 | 1.153733 | 0.081678 | 0 |
| 5/23/2021 | 9:16:26 | 10.228 | 33.55643 | 52.66 | 1.058932 | 1.153733 | 0.081732 | 0 |
| 5/23/2021 | 10:16:26 | 10.223 | 33.54003 | 53.51 | 1.042527 | 1.092157 | 0.081902 | 0 |
| 5/23/2021 | 11:16:26 | 10.221 | 33.53347 | 53.63 | 1.035966 | 1.068198 | 0.081926 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 5/23/2021 | 12:16:26 | 10.217 | 33.52034 | 53.91 | 1.022842 | 1.021412 | 0.081982 | 0 |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|

5/31/2021 – 6/02/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/31/2021 | 12:16:26 | 10.245 | 33.61221 | 45.5 | 1.114706 | 1.381722 | 0.0803 | 0 |
| 5/31/2021 | 13:16:26 | 10.244 | 33.60892 | 45.24 | 1.111425 | 1.367488 | 0.080248 | 0 |
| 5/31/2021 | 14:16:26 | 10.244 | 33.60892 | 45.11 | 1.111425 | 1.367488 | 0.080222 | 0 |
| 5/31/2021 | 15:16:26 | 10.238 | 33.58924 | 45.22 | 1.09174 | 1.284276 | 0.080244 | 0 |
| 5/31/2021 | 16:16:26 | 10.235 | 33.5794 | 45.22 | 1.081897 | 1.244059 | 0.080244 | 0.04724412 |
| 5/31/2021 | 17:16:26 | 10.229 | 33.55971 | 45.26 | 1.062212 | 1.16634 | 0.080252 | 0.03149608 |
| 5/31/2021 | 18:16:26 | 10.23 | 33.56299 | 45.32 | 1.065493 | 1.179045 | 0.080264 | 0.02362206 |
| 5/31/2021 | 19:16:26 | 10.23 | 33.56299 | 45.4 | 1.065493 | 1.179045 | 0.08028 | 0.01574804 |
| 5/31/2021 | 20:16:26 | 10.228 | 33.55643 | 45.77 | 1.058932 | 1.153733 | 0.080354 | 0 |
| 5/31/2021 | 21:16:26 | 10.23 | 33.56299 | 45.98 | 1.065493 | 1.179045 | 0.080396 | 0.02362206 |
| 5/31/2021 | 22:16:26 | 10.239 | 33.59252 | 46.12 | 1.095021 | 1.297886 | 0.080424 | 0.03149608 |
| 5/31/2021 | 23:16:26 | 10.239 | 33.59252 | 46.76 | 1.095021 | 1.297886 | 0.080552 | 0.01574804 |
| 6/1/2021 | 0:16:26 | 10.238 | 33.58924 | 46.66 | 1.09174 | 1.284276 | 0.080532 | 0.03149608 |
| 6/1/2021 | 1:16:26 | 10.232 | 33.56955 | 46.96 | 1.072055 | 1.204751 | 0.080592 | 0.04724412 |
| 6/1/2021 | 2:16:26 | 10.235 | 33.5794 | 47.93 | 1.081897 | 1.244059 | 0.080786 | 0.10236226 |
| 6/1/2021 | 3:16:26 | 10.242 | 33.60236 | 54.93 | 1.104863 | 1.339335 | 0.082186 | 0.07086618 |
| 6/1/2021 | 4:16:26 | 10.254 | 33.64173 | 51.33 | 1.144233 | 1.51464 | 0.081466 | 0.11023628 |
| 6/1/2021 | 5:16:26 | 10.278 | 33.72047 | 52.88 | 1.222974 | 1.913581 | 0.081776 | 0.02362206 |
| 6/1/2021 | 6:16:26 | 10.293 | 33.76969 | 50.68 | 1.272186 | 2.198056 | 0.081336 | 0 |
| 6/1/2021 | 7:16:26 | 10.298 | 33.78609 | 49.73 | 1.28859 | 2.299251 | 0.081146 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|---|
| 6/1/2021 | 8:16:26 | 10.306 | 33.81234 | 50.06 | 1.314837 | 2.468033 | 0.081212 | 0 |
| 6/1/2021 | 9:16:26 | 10.303 | 33.80249 | 49.37 | 1.304995 | 2.403736 | 0.081074 | 0 |
| 6/1/2021 | 10:16:26 | 10.301 | 33.79593 | 48.74 | 1.298433 | 2.361543 | 0.080948 | 0 |
| 6/1/2021 | 11:16:26 | 10.301 | 33.79593 | 48.36 | 1.298433 | 2.361543 | 0.080872 | 0 |
| 6/1/2021 | 12:16:26 | 10.301 | 33.79593 | 48.42 | 1.298433 | 2.361543 | 0.080884 | 0 |
| 6/1/2021 | 13:16:26 | 10.3 | 33.79265 | 49.38 | 1.295152 | 2.340647 | 0.081076 | 0 |
| 6/1/2021 | 14:16:26 | 10.298 | 33.78609 | 48.21 | 1.28859 | 2.299251 | 0.080842 | 0 |
| 6/1/2021 | 15:16:26 | 10.299 | 33.78937 | 48.14 | 1.291871 | 2.319883 | 0.080828 | 0 |
| 6/1/2021 | 16:16:26 | 10.299 | 33.78937 | 47.66 | 1.291871 | 2.319883 | 0.080732 | 0 |
| 6/1/2021 | 17:16:26 | 10.298 | 33.78609 | 47.81 | 1.28859 | 2.299251 | 0.080762 | 0 |
| 6/1/2021 | 18:16:26 | 10.291 | 33.76312 | 47.32 | 1.265624 | 2.158485 | 0.080664 | 0 |
| 6/1/2021 | 19:16:26 | 10.286 | 33.74672 | 46.46 | 1.24922 | 2.06179 | 0.080492 | 0 |
| 6/1/2021 | 20:16:26 | 10.284 | 33.74016 | 46.84 | 1.242659 | 2.023994 | 0.080568 | 0 |
| 6/1/2021 | 21:16:26 | 10.277 | 33.71719 | 47.19 | 1.219693 | 1.895607 | 0.080638 | 0 |
| 6/1/2021 | 22:16:26 | 10.274 | 33.70735 | 46.82 | 1.20985 | 1.84241 | 0.080564 | 0 |
| 6/1/2021 | 23:16:26 | 10.271 | 33.69751 | 48.55 | 1.200008 | 1.790289 | 0.08091 | 0 |
| 6/2/2021 | 0:16:26 | 10.262 | 33.66798 | 49.43 | 1.17048 | 1.640256 | 0.081086 | 0 |
| 6/2/2021 | 1:16:26 | 10.256 | 33.6483 | 48.77 | 1.150795 | 1.545375 | 0.080954 | 0 |
| 6/2/2021 | 2:16:26 | 10.244 | 33.60892 | 49.76 | 1.111425 | 1.367488 | 0.081152 | 0 |
| 6/2/2021 | 3:16:26 | 10.235 | 33.5794 | 50.11 | 1.081897 | 1.244059 | 0.081222 | 0 |
| 6/2/2021 | 4:16:26 | 10.231 | 33.56627 | 52.08 | 1.068774 | 1.191848 | 0.081616 | 0 |
| 6/2/2021 | 5:16:26 | 10.226 | 33.54987 | 52.08 | 1.05237 | 1.128812 | 0.081616 | 0 |
| 6/2/2021 | 6:16:26 | 10.213 | 33.50722 | 53.29 | 1.009719 | 0.97611 | 0.081858 | 0 |
| 6/2/2021 | 7:16:26 | 10.218 | 33.52362 | 53.96 | 1.026123 | 1.032968 | 0.081992 | 0 |
| 6/2/2021 | 8:16:26 | 10.196 | 33.45144 | 53.68 | 0.953945 | 0.799475 | 0.081936 | 0 |
| 6/2/2021 | 9:16:26 | 10.185 | 33.41536 | 54.48 | 0.917855 | 0.698175 | 0.082096 | 0 |
| 6/2/2021 | 10:16:26 | 10.173 | 33.37599 | 55.61 | 0.878485 | 0.598516 | 0.082322 | 0 |
| 6/2/2021 | 11:16:26 | 10.165 | 33.34974 | 55 | 0.852239 | 0.538018 | 0.0822 | 0 |

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|----------|----------|--------|----------|-------|---------|----------|----------|---|
| 6/2/2021 | 12:16:26 | 10.155 | 33.31693 | 53.73 | 0.81943 | 0.468706 | 0.081946 | 0 |
|----------|----------|--------|----------|-------|---------|----------|----------|---|

6/7/2021 – 6/8/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 6/7/2021 | 15:16:26 | 10.081 | 33.07415 | 64.09 | 0.576648 | 0.136395 | 0.084018 | 0 |
| 6/7/2021 | 16:16:26 | 10.068 | 33.0315 | 63.23 | 0.533997 | 0.104126 | 0.083846 | 0 |
| 6/7/2021 | 17:16:26 | 10.056 | 32.99213 | 62.62 | 0.494627 | 0.079563 | 0.083724 | 0 |
| 6/7/2021 | 18:16:26 | 10.043 | 32.94948 | 62.95 | 0.451976 | 0.05796 | 0.08379 | 0 |
| 6/7/2021 | 19:16:26 | 10.042 | 32.9462 | 62.86 | 0.448695 | 0.056495 | 0.083772 | 0 |
| 6/7/2021 | 20:16:26 | 10.046 | 32.95932 | 62.82 | 0.461819 | 0.062517 | 0.083764 | 0 |
| 6/7/2021 | 21:16:26 | 10.048 | 32.96588 | 63.21 | 0.46838 | 0.065693 | 0.083842 | 0 |
| 6/7/2021 | 22:16:26 | 10.052 | 32.979 | 63.27 | 0.481504 | 0.072391 | 0.083854 | 0 |
| 6/7/2021 | 23:16:26 | 10.053 | 32.98228 | 64.38 | 0.484785 | 0.074138 | 0.084076 | 0 |
| 6/8/2021 | 0:16:26 | 10.048 | 32.96588 | 64.42 | 0.46838 | 0.065693 | 0.084084 | 0.01574804 |
| 6/8/2021 | 1:16:26 | 10.042 | 32.9462 | 64.11 | 0.448695 | 0.056495 | 0.084022 | 0.18110246 |
| 6/8/2021 | 2:16:26 | 10.039 | 32.93635 | 64.2 | 0.438853 | 0.05226 | 0.08404 | 0 |
| 6/8/2021 | 3:16:26 | 10.035 | 32.92323 | 63.85 | 0.425729 | 0.046973 | 0.08397 | 0 |
| 6/8/2021 | 4:16:26 | 10.035 | 32.92323 | 63.81 | 0.425729 | 0.046973 | 0.083962 | 0 |
| 6/8/2021 | 5:16:26 | 10.042 | 32.9462 | 64.17 | 0.448695 | 0.056495 | 0.084034 | 0 |
| 6/8/2021 | 6:16:26 | 10.048 | 32.96588 | 63.99 | 0.46838 | 0.065693 | 0.083998 | 0 |
| 6/8/2021 | 7:16:26 | 10.08 | 33.07087 | 64.05 | 0.573367 | 0.133688 | 0.08401 | 0 |
| 6/8/2021 | 8:16:26 | 10.102 | 33.14305 | 63.55 | 0.645546 | 0.202767 | 0.08391 | 0 |
| 6/8/2021 | 9:16:26 | 10.117 | 33.19226 | 62.92 | 0.694758 | 0.262475 | 0.083784 | 0 |

7/21/2021 – 7/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 7/21/2021 | 11:00:00 | 10.178 | 33.39239 | 37.58 | 0.89489 | 0.638709 | 0.078716 | 0 |
| 7/21/2021 | 12:00:00 | 10.177 | 33.38911 | 36.72 | 0.891609 | 0.63052 | 0.078544 | 0 |
| 7/21/2021 | 13:00:00 | 10.177 | 33.38911 | 35.69 | 0.891609 | 0.63052 | 0.078338 | 0 |
| 7/21/2021 | 14:00:00 | 10.173 | 33.37599 | 35.12 | 0.878485 | 0.598516 | 0.078224 | 0 |
| 7/21/2021 | 15:00:00 | 10.17 | 33.36614 | 35.05 | 0.868643 | 0.575288 | 0.07821 | 0 |
| 7/21/2021 | 16:00:00 | 10.167 | 33.3563 | 34.53 | 0.8588 | 0.552712 | 0.078106 | 0 |
| 7/21/2021 | 17:00:00 | 10.166 | 33.35302 | 34.33 | 0.855519 | 0.545329 | 0.078066 | 0 |
| 7/21/2021 | 18:00:00 | 10.163 | 33.34318 | 34.44 | 0.845677 | 0.523605 | 0.078088 | 0 |
| 7/21/2021 | 19:00:00 | 10.159 | 33.33005 | 34.17 | 0.832554 | 0.495612 | 0.078034 | 0 |
| 7/21/2021 | 20:00:00 | 10.158 | 33.32677 | 34.15 | 0.829273 | 0.488785 | 0.07803 | 0 |
| 7/21/2021 | 21:00:00 | 10.158 | 33.32677 | 35.59 | 0.829273 | 0.488785 | 0.078318 | 0 |
| 7/21/2021 | 22:00:00 | 10.162 | 33.3399 | 35.01 | 0.842396 | 0.516504 | 0.078202 | 0.01574804 |
| 7/21/2021 | 23:00:00 | 10.163 | 33.34318 | 34.72 | 0.845677 | 0.523605 | 0.078144 | 0.04724412 |
| 7/22/2021 | 0:00:00 | 10.165 | 33.34974 | 40.1 | 0.852239 | 0.538018 | 0.07922 | 0 |
| 7/22/2021 | 1:00:00 | 10.166 | 33.35302 | 34.71 | 0.855519 | 0.545329 | 0.078142 | 0 |
| 7/22/2021 | 2:00:00 | 10.164 | 33.34646 | 34.44 | 0.848958 | 0.530776 | 0.078088 | 0 |
| 7/22/2021 | 3:00:00 | 10.163 | 33.34318 | 34.55 | 0.845677 | 0.523605 | 0.07811 | 0 |
| 7/22/2021 | 4:00:00 | 10.163 | 33.34318 | 34.77 | 0.845677 | 0.523605 | 0.078154 | 0 |
| 7/22/2021 | 5:00:00 | 10.162 | 33.3399 | 35.57 | 0.842396 | 0.516504 | 0.078314 | 0 |
| 7/22/2021 | 6:00:00 | 10.163 | 33.34318 | 34.94 | 0.845677 | 0.523605 | 0.078188 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 7/22/2021 | 7:00:00 | 10.166 | 33.35302 | 35.13 | 0.855519 | 0.545329 | 0.078226 | 0 |
| 7/22/2021 | 8:00:00 | 10.167 | 33.3563 | 35.51 | 0.8588 | 0.552712 | 0.078302 | 0 |
| 7/22/2021 | 9:00:00 | 10.172 | 33.3727 | 35.5 | 0.875204 | 0.5907 | 0.0783 | 0 |
| 7/22/2021 | 10:00:00 | 10.173 | 33.37599 | 35.56 | 0.878485 | 0.598516 | 0.078312 | 0 |
| 7/22/2021 | 11:00:00 | 10.173 | 33.37599 | 36.24 | 0.878485 | 0.598516 | 0.078448 | 0 |
| 7/22/2021 | 12:00:00 | 10.171 | 33.36942 | 35.55 | 0.871924 | 0.582957 | 0.07831 | 0 |
| 7/22/2021 | 13:00:00 | 10.167 | 33.3563 | 35.43 | 0.8588 | 0.552712 | 0.078286 | 0 |
| 7/22/2021 | 14:00:00 | 10.162 | 33.3399 | 34.82 | 0.842396 | 0.516504 | 0.078164 | 0 |
| 7/22/2021 | 15:00:00 | 10.16 | 33.33333 | 34.4 | 0.835834 | 0.502507 | 0.07808 | 0 |
| 7/22/2021 | 16:00:00 | 10.158 | 33.32677 | 34.08 | 0.829273 | 0.488785 | 0.078016 | 0 |
| 7/22/2021 | 17:00:00 | 10.154 | 33.31365 | 34.5 | 0.816149 | 0.462147 | 0.0781 | 0.01574804 |
| 7/22/2021 | 18:00:00 | 10.151 | 33.30381 | 33.91 | 0.806307 | 0.442862 | 0.077982 | 0 |
| 7/22/2021 | 19:00:00 | 10.146 | 33.2874 | 33.73 | 0.789903 | 0.41201 | 0.077946 | 0 |
| 7/22/2021 | 20:00:00 | 10.146 | 33.2874 | 33.86 | 0.789903 | 0.41201 | 0.077972 | 0 |
| 7/22/2021 | 21:00:00 | 10.147 | 33.29068 | 34.84 | 0.793183 | 0.418053 | 0.078168 | 0 |
| 7/22/2021 | 22:00:00 | 10.15 | 33.30053 | 33.77 | 0.803026 | 0.436564 | 0.077954 | 0 |
| 7/22/2021 | 23:00:00 | 10.15 | 33.30053 | 33.06 | 0.803026 | 0.436564 | 0.077812 | 0 |
| 7/23/2021 | 0:00:00 | 10.152 | 33.30709 | 35.92 | 0.809588 | 0.449225 | 0.078384 | 0 |
| 7/23/2021 | 1:00:00 | 10.151 | 33.30381 | 33.44 | 0.806307 | 0.442862 | 0.077888 | 0 |
| 7/23/2021 | 2:00:00 | 10.15 | 33.30053 | 33.03 | 0.803026 | 0.436564 | 0.077806 | 0 |
| 7/23/2021 | 3:00:00 | 10.148 | 33.29396 | 33.45 | 0.796464 | 0.42416 | 0.07789 | 0 |
| 7/23/2021 | 4:00:00 | 10.147 | 33.29068 | 33.06 | 0.793183 | 0.418053 | 0.077812 | 0 |
| 7/23/2021 | 5:00:00 | 10.145 | 33.28412 | 32.96 | 0.786622 | 0.406029 | 0.077792 | 0 |
| 7/23/2021 | 6:00:00 | 10.145 | 33.28412 | 32.9 | 0.786622 | 0.406029 | 0.07778 | 0 |
| 7/23/2021 | 7:00:00 | 10.148 | 33.29396 | 33.44 | 0.796464 | 0.42416 | 0.077888 | 0 |
| 7/23/2021 | 8:00:00 | 10.152 | 33.30709 | 33.21 | 0.809588 | 0.449225 | 0.077842 | 0 |
| 7/23/2021 | 9:00:00 | 10.154 | 33.31365 | 33.07 | 0.816149 | 0.462147 | 0.077814 | 0 |
| 7/23/2021 | 10:00:00 | 10.154 | 33.31365 | 32.78 | 0.816149 | 0.462147 | 0.077756 | 0 |
| 7/23/2021 | 11:00:00 | 10.15 | 33.30053 | 32.26 | 0.803026 | 0.436564 | 0.077652 | 0 |
| 7/23/2021 | 12:00:00 | 10.148 | 33.29396 | 32.09 | 0.796464 | 0.42416 | 0.077618 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 7/23/2021 | 13:00:00 | 10.145 | 33.28412 | 32.16 | 0.786622 | 0.406029 | 0.077632 | 0 |
| 7/23/2021 | 14:00:00 | 10.141 | 33.271 | 31.88 | 0.773498 | 0.382727 | 0.077576 | 0 |
| 7/23/2021 | 15:00:00 | 10.136 | 33.25459 | 31.62 | 0.757094 | 0.354963 | 0.077524 | 0 |
| 7/23/2021 | 16:00:00 | 10.134 | 33.24803 | 31.05 | 0.750533 | 0.344273 | 0.07741 | 0 |
| 7/23/2021 | 17:00:00 | 10.131 | 33.23819 | 30.81 | 0.74069 | 0.328671 | 0.077362 | 0 |

7/31/2021 – 8/1/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 7/31/2021 | 21:00:00 | 10.056 | 32.99213 | 20.81 | 0.494627 | 0.079563 | 0.075362 | 0 |
| 7/31/2021 | 22:00:00 | 10.07 | 33.03806 | 20.81 | 0.540559 | 0.108691 | 0.075362 | 0 |
| 7/31/2021 | 23:00:00 | 10.075 | 33.05446 | 20.84 | 0.556963 | 0.120727 | 0.075368 | 0 |
| 8/1/2021 | 0:00:00 | 10.074 | 33.05118 | 20.9 | 0.553682 | 0.118247 | 0.07538 | 0 |
| 8/1/2021 | 1:00:00 | 10.082 | 33.07743 | 20.95 | 0.579929 | 0.139141 | 0.07539 | 0.04724412 |
| 8/1/2021 | 2:00:00 | 10.081 | 33.07415 | 21.08 | 0.576648 | 0.136395 | 0.075416 | 0 |
| 8/1/2021 | 3:00:00 | 10.077 | 33.06102 | 21.11 | 0.563525 | 0.125798 | 0.075422 | 0 |
| 8/1/2021 | 4:00:00 | 10.083 | 33.08071 | 21.23 | 0.58321 | 0.141926 | 0.075446 | 0 |
| 8/1/2021 | 5:00:00 | 10.085 | 33.08727 | 21.31 | 0.589771 | 0.147615 | 0.075462 | 0 |
| 8/1/2021 | 6:00:00 | 10.087 | 33.09383 | 21.27 | 0.596333 | 0.153466 | 0.075454 | 0 |
| 8/1/2021 | 7:00:00 | 10.092 | 33.11024 | 20.8 | 0.612737 | 0.168817 | 0.07536 | 0 |
| 8/1/2021 | 8:00:00 | 10.091 | 33.10696 | 20.96 | 0.609456 | 0.165662 | 0.075392 | 0 |
| 8/1/2021 | 9:00:00 | 10.099 | 33.1332 | 20.8 | 0.635703 | 0.192112 | 0.07536 | 0 |
| 8/1/2021 | 10:00:00 | 10.096 | 33.12336 | 20.91 | 0.625861 | 0.181864 | 0.075382 | 0 |
| 8/1/2021 | 11:00:00 | 10.097 | 33.12664 | 21.25 | 0.629141 | 0.185236 | 0.07545 | 0 |
| 8/1/2021 | 12:00:00 | 10.101 | 33.13976 | 21.26 | 0.642265 | 0.199169 | 0.075452 | 0 |
| 8/1/2021 | 13:00:00 | 10.106 | 33.15617 | 21.35 | 0.658669 | 0.217622 | 0.07547 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|---|
| 8/1/2021 | 14:00:00 | 10.098 | 33.12992 | 21.54 | 0.632422 | 0.188651 | 0.075508 | 0 |
| 8/1/2021 | 15:00:00 | 10.093 | 33.11352 | 21.13 | 0.616018 | 0.172014 | 0.075426 | 0 |
| 8/1/2021 | 16:00:00 | 10.09 | 33.10368 | 21.12 | 0.606176 | 0.162551 | 0.075424 | 0 |
| 8/1/2021 | 17:00:00 | 10.088 | 33.09711 | 20.4 | 0.599614 | 0.156453 | 0.07528 | 0 |
| 8/1/2021 | 18:00:00 | 10.083 | 33.08071 | 20.05 | 0.58321 | 0.141926 | 0.07521 | 0 |
| 8/1/2021 | 19:00:00 | 10.081 | 33.07415 | 18.6 | 0.576648 | 0.136395 | 0.07492 | 0 |
| 8/1/2021 | 20:00:00 | 10.083 | 33.08071 | 18.43 | 0.58321 | 0.141926 | 0.074886 | 0 |
| 8/1/2021 | 21:00:00 | 10.085 | 33.08727 | 18 | 0.589771 | 0.147615 | 0.0748 | 0 |
| 8/1/2021 | 22:00:00 | 10.091 | 33.10696 | 18.33 | 0.609456 | 0.165662 | 0.074866 | 0 |
| 8/1/2021 | 23:00:00 | 10.094 | 33.1168 | 19.8 | 0.619299 | 0.175254 | 0.07516 | 0 |

8/13/2021 – 8/14/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/13/2021 | 2:00:00 | 10.046 | 32.95932 | 19.92 | 0.461819 | 0.062517 | 0.075184 | 0 |
| 8/13/2021 | 3:00:00 | 10.038 | 32.93307 | 20.13 | 0.435572 | 0.050901 | 0.075226 | 0 |
| 8/13/2021 | 4:00:00 | 10.05 | 32.97244 | 19.99 | 0.474942 | 0.068984 | 0.075198 | 0 |
| 8/13/2021 | 5:00:00 | 10.051 | 32.97572 | 20.12 | 0.478223 | 0.070673 | 0.075224 | 0 |
| 8/13/2021 | 6:00:00 | 10.06 | 33.00525 | 20.07 | 0.50775 | 0.087229 | 0.075214 | 0 |
| 8/13/2021 | 7:00:00 | 10.077 | 33.06102 | 20.23 | 0.563525 | 0.125798 | 0.075246 | 0.10236226 |
| 8/13/2021 | 8:00:00 | 10.089 | 33.10039 | 20.67 | 0.602895 | 0.159481 | 0.075334 | 0.0393701 |
| 8/13/2021 | 9:00:00 | 10.093 | 33.11352 | 23.39 | 0.616018 | 0.172014 | 0.075878 | 0.01574804 |
| 8/13/2021 | 10:00:00 | 10.09 | 33.10368 | 23.81 | 0.606176 | 0.162551 | 0.075962 | 0 |
| 8/13/2021 | 11:00:00 | 10.076 | 33.05774 | 22.87 | 0.560244 | 0.123244 | 0.075774 | 0 |
| 8/13/2021 | 12:00:00 | 10.069 | 33.03478 | 23.52 | 0.537278 | 0.106391 | 0.075904 | 0 |
| 8/13/2021 | 13:00:00 | 10.074 | 33.05118 | 22.71 | 0.553682 | 0.118247 | 0.075742 | 0 |
| 8/13/2021 | 14:00:00 | 10.086 | 33.09055 | 21.47 | 0.593052 | 0.15052 | 0.075494 | 0 |
| 8/13/2021 | 15:00:00 | 10.081 | 33.07415 | 21.45 | 0.576648 | 0.136395 | 0.07549 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 8/13/2021 | 16:00:00 | 10.08 | 33.07087 | 21 | 0.573367 | 0.133688 | 0.0754 | 0 |
| 8/13/2021 | 17:00:00 | 10.075 | 33.05446 | 20.97 | 0.556963 | 0.120727 | 0.075394 | 0 |
| 8/13/2021 | 18:00:00 | 10.081 | 33.07415 | 21.1 | 0.576648 | 0.136395 | 0.07542 | 0 |
| 8/13/2021 | 19:00:00 | 10.082 | 33.07743 | 20.9 | 0.579929 | 0.139141 | 0.07538 | 0 |
| 8/13/2021 | 20:00:00 | 10.086 | 33.09055 | 20.62 | 0.593052 | 0.15052 | 0.075324 | 0 |
| 8/13/2021 | 21:00:00 | 10.087 | 33.09383 | 21.25 | 0.596333 | 0.153466 | 0.07545 | 0 |
| 8/13/2021 | 22:00:00 | 10.091 | 33.10696 | 21.11 | 0.609456 | 0.165662 | 0.075422 | 0 |
| 8/13/2021 | 23:00:00 | 10.095 | 33.12008 | 21.16 | 0.62258 | 0.178537 | 0.075432 | 0 |
| 8/14/2021 | 0:00:00 | 10.099 | 33.1332 | 21.06 | 0.635703 | 0.192112 | 0.075412 | 0 |
| 8/14/2021 | 1:00:00 | 10.097 | 33.12664 | 21.09 | 0.629141 | 0.185236 | 0.075418 | 0 |
| 8/14/2021 | 2:00:00 | 10.094 | 33.1168 | 21.06 | 0.619299 | 0.175254 | 0.075412 | 0 |

8/18/2021 – 8/20/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/18/2021 | 2:00:00 | 10.027 | 32.89698 | 21.5 | 0.399483 | 0.037563 | 0.0755 | 0 |
| 8/18/2021 | 3:00:00 | 10.026 | 32.8937 | 21.02 | 0.396202 | 0.036491 | 0.075404 | 0 |
| 8/18/2021 | 4:00:00 | 10.028 | 32.90026 | 20.97 | 0.402764 | 0.038658 | 0.075394 | 0 |
| 8/18/2021 | 5:00:00 | 10.028 | 32.90026 | 21.02 | 0.402764 | 0.038658 | 0.075404 | 0 |
| 8/18/2021 | 6:00:00 | 10.028 | 32.90026 | 21.1 | 0.402764 | 0.038658 | 0.07542 | 0 |
| 8/18/2021 | 7:00:00 | 10.031 | 32.91011 | 21.18 | 0.412606 | 0.04208 | 0.075436 | 0 |
| 8/18/2021 | 8:00:00 | 10.038 | 32.93307 | 21.15 | 0.435572 | 0.050901 | 0.07543 | 0 |
| 8/18/2021 | 9:00:00 | 10.048 | 32.96588 | 21.1 | 0.46838 | 0.065693 | 0.07542 | 0 |
| 8/18/2021 | 10:00:00 | 10.047 | 32.9626 | 21.37 | 0.465099 | 0.064091 | 0.075474 | 0 |
| 8/18/2021 | 11:00:00 | 10.05 | 32.97244 | 20.92 | 0.474942 | 0.068984 | 0.075384 | 0 |
| 8/18/2021 | 12:00:00 | 10.05 | 32.97244 | 20.79 | 0.474942 | 0.068984 | 0.075358 | 0 |
| 8/18/2021 | 13:00:00 | 10.05 | 32.97244 | 20.93 | 0.474942 | 0.068984 | 0.075386 | 0.13385834 |
| 8/18/2021 | 14:00:00 | 10.049 | 32.96916 | 21.06 | 0.471661 | 0.067324 | 0.075412 | 0 |
| 8/18/2021 | 15:00:00 | 10.047 | 32.9626 | 27.16 | 0.465099 | 0.064091 | 0.076632 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 8/18/2021 | 16:00:00 | 10.04 | 32.93963 | 24.44 | 0.442134 | 0.053646 | 0.076088 | 0 |
| 8/18/2021 | 17:00:00 | 10.039 | 32.93635 | 25.88 | 0.438853 | 0.05226 | 0.076376 | 0 |
| 8/18/2021 | 18:00:00 | 10.035 | 32.92323 | 24.69 | 0.425729 | 0.046973 | 0.076138 | 0 |
| 8/18/2021 | 19:00:00 | 10.036 | 32.92651 | 24.05 | 0.42901 | 0.048257 | 0.07601 | 0 |
| 8/18/2021 | 20:00:00 | 10.038 | 32.93307 | 24.19 | 0.435572 | 0.050901 | 0.076038 | 0 |
| 8/18/2021 | 21:00:00 | 10.042 | 32.9462 | 24.72 | 0.448695 | 0.056495 | 0.076144 | 0 |
| 8/18/2021 | 22:00:00 | 10.047 | 32.9626 | 24.11 | 0.465099 | 0.064091 | 0.076022 | 0 |
| 8/18/2021 | 23:00:00 | 10.047 | 32.9626 | 24.31 | 0.465099 | 0.064091 | 0.076062 | 0 |
| 8/19/2021 | 0:00:00 | 10.046 | 32.95932 | 24.94 | 0.461819 | 0.062517 | 0.076188 | 0 |
| 8/19/2021 | 1:00:00 | 10.046 | 32.95932 | 25.34 | 0.461819 | 0.062517 | 0.076268 | 0 |
| 8/19/2021 | 2:00:00 | 10.046 | 32.95932 | 24.99 | 0.461819 | 0.062517 | 0.076198 | 0 |
| 8/19/2021 | 3:00:00 | 10.042 | 32.9462 | 24.69 | 0.448695 | 0.056495 | 0.076138 | 0 |
| 8/19/2021 | 4:00:00 | 10.045 | 32.95604 | 25.97 | 0.458538 | 0.06097 | 0.076394 | 0 |
| 8/19/2021 | 5:00:00 | 10.044 | 32.95276 | 25.01 | 0.455257 | 0.059452 | 0.076202 | 0 |
| 8/19/2021 | 6:00:00 | 10.042 | 32.9462 | 25.95 | 0.448695 | 0.056495 | 0.07639 | 0 |
| 8/19/2021 | 7:00:00 | 10.044 | 32.95276 | 24.72 | 0.455257 | 0.059452 | 0.076144 | 0 |
| 8/19/2021 | 8:00:00 | 10.047 | 32.9626 | 24.96 | 0.465099 | 0.064091 | 0.076192 | 0 |
| 8/19/2021 | 9:00:00 | 10.049 | 32.96916 | 25.16 | 0.471661 | 0.067324 | 0.076232 | 0 |
| 8/19/2021 | 10:00:00 | 10.05 | 32.97244 | 25.31 | 0.474942 | 0.068984 | 0.076262 | 0 |
| 8/19/2021 | 11:00:00 | 10.054 | 32.98557 | 25.31 | 0.488065 | 0.075916 | 0.076262 | 0 |
| 8/19/2021 | 12:00:00 | 10.055 | 32.98885 | 24.91 | 0.491346 | 0.077724 | 0.076182 | 0.00787402 |
| 8/19/2021 | 13:00:00 | 10.047 | 32.9626 | 24.97 | 0.465099 | 0.064091 | 0.076194 | 0 |
| 8/19/2021 | 14:00:00 | 10.046 | 32.95932 | 24.93 | 0.461819 | 0.062517 | 0.076186 | 0.03149608 |
| 8/19/2021 | 15:00:00 | 10.041 | 32.94291 | 24.16 | 0.445414 | 0.055057 | 0.076032 | 0 |
| 8/19/2021 | 16:00:00 | 10.033 | 32.91667 | 23.95 | 0.419168 | 0.044479 | 0.07599 | 0 |
| 8/19/2021 | 17:00:00 | 10.024 | 32.88714 | 23.89 | 0.38964 | 0.034411 | 0.075978 | 0 |
| 8/19/2021 | 18:00:00 | 10.02 | 32.87402 | 23.07 | 0.376517 | 0.030509 | 0.075814 | 0 |
| 8/19/2021 | 19:00:00 | 10.017 | 32.86417 | 23 | 0.366674 | 0.027798 | 0.0758 | 0 |
| 8/19/2021 | 20:00:00 | 10.014 | 32.85433 | 23.74 | 0.356832 | 0.025264 | 0.075948 | 0 |
| 8/19/2021 | 21:00:00 | 10.018 | 32.86746 | 22.97 | 0.369955 | 0.028682 | 0.075794 | 0 |
| 8/19/2021 | 22:00:00 | 10.02 | 32.87402 | 23.85 | 0.376517 | 0.030509 | 0.07597 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 8/19/2021 | 23:00:00 | 10.017 | 32.86417 | 23.28 | 0.366674 | 0.027798 | 0.075856 | 0 |
| 8/20/2021 | 0:00:00 | 10.016 | 32.86089 | 23.18 | 0.363393 | 0.026934 | 0.075836 | 0 |
| 8/20/2021 | 1:00:00 | 10.015 | 32.85761 | 23.43 | 0.360113 | 0.026089 | 0.075886 | 0 |
| 8/20/2021 | 2:00:00 | 10.014 | 32.85433 | 23.44 | 0.356832 | 0.025264 | 0.075888 | 0.01574804 |
| 8/20/2021 | 3:00:00 | 10.007 | 32.83137 | 23.61 | 0.333866 | 0.019999 | 0.075922 | 0 |
| 8/20/2021 | 4:00:00 | 10 | 32.8084 | 23.45 | 0.3109 | 0.015569 | 0.07589 | 0 |
| 8/20/2021 | 5:00:00 | 10 | 32.8084 | 23.47 | 0.3109 | 0.015569 | 0.075894 | 0 |
| 8/20/2021 | 6:00:00 | 9.995 | 32.792 | 23.61 | 0.294496 | 0.01287 | 0.075922 | 0.00787402 |

8/20/2021 – 8/22/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/20/2021 | 12:00:00 | 9.999 | 32.80512 | 23.45 | 0.307619 | 0.015 | 0.07589 | 0 |
| 8/20/2021 | 13:00:00 | 10 | 32.8084 | 23.23 | 0.3109 | 0.015569 | 0.075846 | 0 |
| 8/20/2021 | 14:00:00 | 9.991 | 32.77887 | 23.19 | 0.281372 | 0.010965 | 0.075838 | 0 |
| 8/20/2021 | 15:00:00 | 9.985 | 32.75919 | 22.85 | 0.261687 | 0.008499 | 0.07577 | 0 |
| 8/20/2021 | 16:00:00 | 9.982 | 32.74934 | 22.69 | 0.251845 | 0.007428 | 0.075738 | 0 |
| 8/20/2021 | 17:00:00 | 9.979 | 32.7395 | 22.82 | 0.242002 | 0.006457 | 0.075764 | 0 |
| 8/20/2021 | 18:00:00 | 9.977 | 32.73294 | 22.91 | 0.235441 | 0.005863 | 0.075782 | 0 |
| 8/20/2021 | 19:00:00 | 9.973 | 32.71982 | 22.96 | 0.222317 | 0.004793 | 0.075792 | 0 |
| 8/20/2021 | 20:00:00 | 9.966 | 32.69685 | 22.98 | 0.199351 | 0.003268 | 0.075796 | 0 |
| 8/20/2021 | 21:00:00 | 9.967 | 32.70013 | 23.06 | 0.202632 | 0.003461 | 0.075812 | 0 |
| 8/20/2021 | 22:00:00 | 9.981 | 32.74606 | 23.63 | 0.248564 | 0.007093 | 0.075926 | 0 |
| 8/20/2021 | 23:00:00 | 9.987 | 32.76575 | 23.75 | 0.268249 | 0.009271 | 0.07595 | 0 |
| 8/21/2021 | 0:00:00 | 9.981 | 32.74606 | 24.07 | 0.248564 | 0.007093 | 0.076014 | 0 |
| 8/21/2021 | 1:00:00 | 9.984 | 32.75591 | 24.06 | 0.258407 | 0.00813 | 0.076012 | 0 |
| 8/21/2021 | 2:00:00 | 9.986 | 32.76247 | 24.1 | 0.264968 | 0.008879 | 0.07602 | 0 |
| 8/21/2021 | 3:00:00 | 9.987 | 32.76575 | 24.43 | 0.268249 | 0.009271 | 0.076086 | 0 |
| 8/21/2021 | 4:00:00 | 10.002 | 32.81496 | 23.91 | 0.317462 | 0.016755 | 0.075982 | 0.51968532 |
| 8/21/2021 | 5:00:00 | 9.995 | 32.792 | 219.18 | 0.294496 | 0.01287 | 0.115036 | 0.14173236 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 8/21/2021 | 6:00:00 | 10.004 | 32.82152 | 130.26 | 0.324023 | 0.018003 | 0.097252 | 0.02362206 |
| 8/21/2021 | 7:00:00 | 9.994 | 32.78871 | 101.9 | 0.291215 | 0.012373 | 0.09158 | 0.00787402 |
| 8/21/2021 | 8:00:00 | 10.005 | 32.8248 | 91.13 | 0.327304 | 0.018652 | 0.089426 | 0 |
| 8/21/2021 | 9:00:00 | 10.008 | 32.83465 | 78.7 | 0.337147 | 0.020698 | 0.08694 | 0 |
| 8/21/2021 | 10:00:00 | 10.016 | 32.86089 | 60.11 | 0.363393 | 0.026934 | 0.083222 | 0 |
| 8/21/2021 | 11:00:00 | 10.02 | 32.87402 | 47.27 | 0.376517 | 0.030509 | 0.080654 | 0 |
| 8/21/2021 | 12:00:00 | 10.024 | 32.88714 | 42.35 | 0.38964 | 0.034411 | 0.07967 | 0 |
| 8/21/2021 | 13:00:00 | 10.023 | 32.88386 | 36.24 | 0.386359 | 0.033404 | 0.078448 | 0 |
| 8/21/2021 | 14:00:00 | 10.024 | 32.88714 | 33.08 | 0.38964 | 0.034411 | 0.077816 | 0 |
| 8/21/2021 | 15:00:00 | 10.023 | 32.88386 | 30.28 | 0.386359 | 0.033404 | 0.077256 | 0 |
| 8/21/2021 | 16:00:00 | 10.021 | 32.8773 | 28.36 | 0.379798 | 0.031453 | 0.076872 | 0 |
| 8/21/2021 | 17:00:00 | 10.022 | 32.88058 | 27.96 | 0.383078 | 0.032418 | 0.076792 | 0 |
| 8/21/2021 | 18:00:00 | 10.018 | 32.86746 | 28.84 | 0.369955 | 0.028682 | 0.076968 | 0 |
| 8/21/2021 | 19:00:00 | 10.014 | 32.85433 | 28.49 | 0.356832 | 0.025264 | 0.076898 | 0 |
| 8/21/2021 | 20:00:00 | 10.021 | 32.8773 | 28.02 | 0.379798 | 0.031453 | 0.076804 | 0 |
| 8/21/2021 | 21:00:00 | 10.028 | 32.90026 | 28.21 | 0.402764 | 0.038658 | 0.076842 | 0 |
| 8/21/2021 | 22:00:00 | 10.035 | 32.92323 | 26.62 | 0.425729 | 0.046973 | 0.076524 | 0 |
| 8/21/2021 | 23:00:00 | 10.031 | 32.91011 | 26.02 | 0.412606 | 0.04208 | 0.076404 | 0 |
| 8/22/2021 | 0:00:00 | 10.037 | 32.92979 | 25.73 | 0.432291 | 0.049566 | 0.076346 | 0 |
| 8/22/2021 | 1:00:00 | 10.046 | 32.95932 | 25.54 | 0.461819 | 0.062517 | 0.076308 | 0 |
| 8/22/2021 | 2:00:00 | 10.044 | 32.95276 | 25.32 | 0.455257 | 0.059452 | 0.076264 | 0 |
| 8/22/2021 | 3:00:00 | 10.034 | 32.91995 | 24.88 | 0.422449 | 0.045714 | 0.076176 | 0 |
| 8/22/2021 | 4:00:00 | 10.031 | 32.91011 | 25.02 | 0.412606 | 0.04208 | 0.076204 | 0 |
| 8/22/2021 | 5:00:00 | 10.028 | 32.90026 | 25.19 | 0.402764 | 0.038658 | 0.076238 | 0 |
| 8/22/2021 | 6:00:00 | 10.033 | 32.91667 | 25.17 | 0.419168 | 0.044479 | 0.076234 | 0 |
| 8/22/2021 | 7:00:00 | 10.038 | 32.93307 | 25 | 0.435572 | 0.050901 | 0.0762 | 0 |
| 8/22/2021 | 8:00:00 | 10.044 | 32.95276 | 23.72 | 0.455257 | 0.059452 | 0.075944 | 0 |
| 8/22/2021 | 9:00:00 | 10.042 | 32.9462 | 23.16 | 0.448695 | 0.056495 | 0.075832 | 0 |
| 8/22/2021 | 10:00:00 | 10.04 | 32.93963 | 23.18 | 0.442134 | 0.053646 | 0.075836 | 0 |
| 8/22/2021 | 11:00:00 | 10.042 | 32.9462 | 22.86 | 0.448695 | 0.056495 | 0.075772 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 8/22/2021 | 12:00:00 | 10.042 | 32.9462 | 22.41 | 0.448695 | 0.056495 | 0.075682 | 0 |
| 8/22/2021 | 13:00:00 | 10.04 | 32.93963 | 21.79 | 0.442134 | 0.053646 | 0.075558 | 0 |
| 8/22/2021 | 14:00:00 | 10.039 | 32.93635 | 21.73 | 0.438853 | 0.05226 | 0.075546 | 0 |
| 8/22/2021 | 15:00:00 | 10.037 | 32.92979 | 22.06 | 0.432291 | 0.049566 | 0.075612 | 0 |
| 8/22/2021 | 16:00:00 | 10.032 | 32.91339 | 21.38 | 0.415887 | 0.043268 | 0.075476 | 0 |
| 8/22/2021 | 17:00:00 | 10.025 | 32.89042 | 21.66 | 0.392921 | 0.03544 | 0.075532 | 0 |
| 8/22/2021 | 18:00:00 | 10.021 | 32.8773 | 21.68 | 0.379798 | 0.031453 | 0.075536 | 0 |
| 8/22/2021 | 19:00:00 | 10.017 | 32.86417 | 21.89 | 0.366674 | 0.027798 | 0.075578 | 0 |
| 8/22/2021 | 20:00:00 | 10.011 | 32.84449 | 21.58 | 0.346989 | 0.0229 | 0.075516 | 0 |
| 8/22/2021 | 21:00:00 | 10.021 | 32.8773 | 21.42 | 0.379798 | 0.031453 | 0.075484 | 0 |
| 8/22/2021 | 22:00:00 | 10.025 | 32.89042 | 21.18 | 0.392921 | 0.03544 | 0.075436 | 0 |
| 8/22/2021 | 23:00:00 | 10.028 | 32.90026 | 20.74 | 0.402764 | 0.038658 | 0.075348 | 0 |

9/3/2021 – 9/5/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/3/2021 | 15:00:00 | 10.01 | 32.84121 | 28.74 | 0.343708 | 0.022148 | 0.076948 | 0 |
| 9/3/2021 | 16:00:00 | 10.004 | 32.82152 | 29.07 | 0.324023 | 0.018003 | 0.077014 | 0 |
| 9/3/2021 | 17:00:00 | 9.998 | 32.80184 | 29.07 | 0.304338 | 0.014445 | 0.077014 | 0 |
| 9/3/2021 | 18:00:00 | 9.997 | 32.79856 | 29.44 | 0.301057 | 0.013905 | 0.077088 | 0 |
| 9/3/2021 | 19:00:00 | 9.996 | 32.79528 | 29.61 | 0.297777 | 0.01338 | 0.077122 | 0 |
| 9/3/2021 | 20:00:00 | 9.996 | 32.79528 | 29.81 | 0.297777 | 0.01338 | 0.077162 | 0 |
| 9/3/2021 | 21:00:00 | 9.998 | 32.80184 | 28.66 | 0.304338 | 0.014445 | 0.076932 | 0 |
| 9/3/2021 | 22:00:00 | 10.008 | 32.83465 | 28.8 | 0.337147 | 0.020698 | 0.07696 | 0.01574804 |
| 9/3/2021 | 23:00:00 | 10.016 | 32.86089 | 28.72 | 0.363393 | 0.026934 | 0.076944 | 0.03149608 |
| 9/4/2021 | 0:00:00 | 10.01 | 32.84121 | 29.48 | 0.343708 | 0.022148 | 0.077096 | 0.00787402 |
| 9/4/2021 | 1:00:00 | 10.015 | 32.85761 | 29.07 | 0.360113 | 0.026089 | 0.077014 | 0.06299216 |
| 9/4/2021 | 2:00:00 | 10.011 | 32.84449 | 29.87 | 0.346989 | 0.0229 | 0.077174 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 9/4/2021 | 3:00:00 | 10.009 | 32.83793 | 30.77 | 0.340428 | 0.021414 | 0.077354 | 0 |
| 9/4/2021 | 4:00:00 | 10.006 | 32.82809 | 30.92 | 0.330585 | 0.019317 | 0.077384 | 0 |
| 9/4/2021 | 5:00:00 | 10.006 | 32.82809 | 32.4 | 0.330585 | 0.019317 | 0.07768 | 0 |
| 9/4/2021 | 6:00:00 | 10.007 | 32.83137 | 32.49 | 0.333866 | 0.019999 | 0.077698 | 0 |
| 9/4/2021 | 7:00:00 | 10.011 | 32.84449 | 32.97 | 0.346989 | 0.0229 | 0.077794 | 0 |
| 9/4/2021 | 8:00:00 | 10.015 | 32.85761 | 35.76 | 0.360113 | 0.026089 | 0.078352 | 0 |
| 9/4/2021 | 9:00:00 | 10.019 | 32.87074 | 33.01 | 0.373236 | 0.029585 | 0.077802 | 0 |
| 9/4/2021 | 10:00:00 | 10.02 | 32.87402 | 32.83 | 0.376517 | 0.030509 | 0.077766 | 0 |
| 9/4/2021 | 11:00:00 | 10.021 | 32.8773 | 33.34 | 0.379798 | 0.031453 | 0.077868 | 0 |
| 9/4/2021 | 12:00:00 | 10.019 | 32.87074 | 33.38 | 0.373236 | 0.029585 | 0.077876 | 0 |
| 9/4/2021 | 13:00:00 | 10.015 | 32.85761 | 32.16 | 0.360113 | 0.026089 | 0.077632 | 0 |
| 9/4/2021 | 14:00:00 | 10.012 | 32.84777 | 32.9 | 0.35027 | 0.023669 | 0.07778 | 0.11023628 |
| 9/4/2021 | 15:00:00 | 10.002 | 32.81496 | 30.37 | 0.317462 | 0.016755 | 0.077274 | 0 |
| 9/4/2021 | 16:00:00 | 10.003 | 32.81824 | 37.31 | 0.320743 | 0.017371 | 0.078662 | 0 |
| 9/4/2021 | 17:00:00 | 10.004 | 32.82152 | 38.45 | 0.324023 | 0.018003 | 0.07889 | 0 |
| 9/4/2021 | 18:00:00 | 10.005 | 32.8248 | 39.71 | 0.327304 | 0.018652 | 0.079142 | 0 |
| 9/4/2021 | 19:00:00 | 10.005 | 32.8248 | 38.21 | 0.327304 | 0.018652 | 0.078842 | 0 |
| 9/4/2021 | 20:00:00 | 10.01 | 32.84121 | 37.86 | 0.343708 | 0.022148 | 0.078772 | 0 |
| 9/4/2021 | 21:00:00 | 10.016 | 32.86089 | 38.83 | 0.363393 | 0.026934 | 0.078966 | 0 |
| 9/4/2021 | 22:00:00 | 10.021 | 32.8773 | 38.29 | 0.379798 | 0.031453 | 0.078858 | 0 |
| 9/4/2021 | 23:00:00 | 10.023 | 32.88386 | 38.02 | 0.386359 | 0.033404 | 0.078804 | 0 |
| 9/5/2021 | 0:00:00 | 10.024 | 32.88714 | 39.97 | 0.38964 | 0.034411 | 0.079194 | 0 |
| 9/5/2021 | 1:00:00 | 10.025 | 32.89042 | 38.6 | 0.392921 | 0.03544 | 0.07892 | 0 |
| 9/5/2021 | 2:00:00 | 10.026 | 32.8937 | 39.54 | 0.396202 | 0.036491 | 0.079108 | 0 |
| 9/5/2021 | 3:00:00 | 10.023 | 32.88386 | 35.66 | 0.386359 | 0.033404 | 0.078332 | 0 |
| 9/5/2021 | 4:00:00 | 10.02 | 32.87402 | 34.13 | 0.376517 | 0.030509 | 0.078026 | 0 |
| 9/5/2021 | 5:00:00 | 10.021 | 32.8773 | 33.84 | 0.379798 | 0.031453 | 0.077968 | 0 |

9/7/2021 – 9/8/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/7/2021 | 14:00:00 | 10.001 | 32.81168 | 32.01 | 0.314181 | 0.016154 | 0.077602 | 0 |
| 9/7/2021 | 15:00:00 | 9.993 | 32.78543 | 32.18 | 0.287934 | 0.01189 | 0.077636 | 0 |
| 9/7/2021 | 16:00:00 | 9.983 | 32.75263 | 32.95 | 0.255126 | 0.007773 | 0.07779 | 0 |
| 9/7/2021 | 17:00:00 | 9.982 | 32.74934 | 32.71 | 0.251845 | 0.007428 | 0.077742 | 0 |
| 9/7/2021 | 18:00:00 | 9.983 | 32.75263 | 32.74 | 0.255126 | 0.007773 | 0.077748 | 0 |
| 9/7/2021 | 19:00:00 | 9.979 | 32.7395 | 32.61 | 0.242002 | 0.006457 | 0.077722 | 0 |
| 9/7/2021 | 20:00:00 | 9.978 | 32.73622 | 32.63 | 0.238722 | 0.006155 | 0.077726 | 0.10236226 |
| 9/7/2021 | 21:00:00 | 9.995 | 32.792 | 32.8 | 0.294496 | 0.01287 | 0.07776 | 0 |
| 9/7/2021 | 22:00:00 | 9.996 | 32.79528 | 34.21 | 0.297777 | 0.01338 | 0.078042 | 0 |
| 9/7/2021 | 23:00:00 | 10.004 | 32.82152 | 33.62 | 0.324023 | 0.018003 | 0.077924 | 0 |
| 9/8/2021 | 0:00:00 | 10.006 | 32.82809 | 34.11 | 0.330585 | 0.019317 | 0.078022 | 0 |
| 9/8/2021 | 1:00:00 | 10.018 | 32.86746 | 33.59 | 0.369955 | 0.028682 | 0.077918 | 0 |
| 9/8/2021 | 2:00:00 | 10.019 | 32.87074 | 37.11 | 0.373236 | 0.029585 | 0.078622 | 0 |
| 9/8/2021 | 3:00:00 | 10.017 | 32.86417 | 36.12 | 0.366674 | 0.027798 | 0.078424 | 0 |
| 9/8/2021 | 4:00:00 | 10.022 | 32.88058 | 36.08 | 0.383078 | 0.032418 | 0.078416 | 0 |
| 9/8/2021 | 5:00:00 | 10.027 | 32.89698 | 37.24 | 0.399483 | 0.037563 | 0.078648 | 0 |
| 9/8/2021 | 6:00:00 | 10.031 | 32.91011 | 36.64 | 0.412606 | 0.04208 | 0.078528 | 0 |
| 9/8/2021 | 7:00:00 | 10.035 | 32.92323 | 36.26 | 0.425729 | 0.046973 | 0.078452 | 0 |
| 9/8/2021 | 8:00:00 | 10.044 | 32.95276 | 35.89 | 0.455257 | 0.059452 | 0.078378 | 0 |
| 9/8/2021 | 9:00:00 | 10.053 | 32.98228 | 34.64 | 0.484785 | 0.074138 | 0.078128 | 0 |
| 9/8/2021 | 10:00:00 | 10.056 | 32.99213 | 33.77 | 0.494627 | 0.079563 | 0.077954 | 0 |
| 9/8/2021 | 11:00:00 | 10.062 | 33.01181 | 33.07 | 0.514312 | 0.091254 | 0.077814 | 0 |
| 9/8/2021 | 12:00:00 | 10.06 | 33.00525 | 33.56 | 0.50775 | 0.087229 | 0.077912 | 0 |
| 9/8/2021 | 13:00:00 | 10.052 | 32.979 | 33.04 | 0.481504 | 0.072391 | 0.077808 | 0 |
| 9/8/2021 | 14:00:00 | 10.042 | 32.9462 | 33.71 | 0.448695 | 0.056495 | 0.077942 | 0 |
| 9/8/2021 | 15:00:00 | 10.034 | 32.91995 | 33.45 | 0.422449 | 0.045714 | 0.07789 | 0 |
| 9/8/2021 | 16:00:00 | 10.029 | 32.90354 | 33.72 | 0.406044 | 0.039776 | 0.077944 | 0 |

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|----------|----------|--------|---------|-------|----------|----------|---------|---|
| 9/8/2021 | 17:00:00 | 10.026 | 32.8937 | 33.55 | 0.396202 | 0.036491 | 0.07791 | 0 |
|----------|----------|--------|---------|-------|----------|----------|---------|---|

9/14/2021 - 9/16/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/14/2021 | 12:00:00 | 10.04 | 32.93963 | 340.08 | 0.442134 | 0.053646 | 0.139216 | 0 |
| 9/14/2021 | 13:00:00 | 10.036 | 32.92651 | 339.75 | 0.42901 | 0.048257 | 0.13915 | 0 |
| 9/14/2021 | 14:00:00 | 10.026 | 32.8937 | 341.12 | 0.396202 | 0.036491 | 0.139424 | 0 |
| 9/14/2021 | 15:00:00 | 10.022 | 32.88058 | 339.85 | 0.383078 | 0.032418 | 0.13917 | 0 |
| 9/14/2021 | 16:00:00 | 10.014 | 32.85433 | 339.96 | 0.356832 | 0.025264 | 0.139192 | 0 |
| 9/14/2021 | 17:00:00 | 10.006 | 32.82809 | 341.7 | 0.330585 | 0.019317 | 0.13954 | 0 |
| 9/14/2021 | 18:00:00 | 10.005 | 32.8248 | 342.16 | 0.327304 | 0.018652 | 0.139632 | 0 |
| 9/14/2021 | 19:00:00 | 9.996 | 32.79528 | 345.12 | 0.297777 | 0.01338 | 0.140224 | 0 |
| 9/14/2021 | 20:00:00 | 9.997 | 32.79856 | 351.53 | 0.301057 | 0.013905 | 0.141506 | 0 |
| 9/14/2021 | 21:00:00 | 9.999 | 32.80512 | 352.5 | 0.307619 | 0.015 | 0.1417 | 0 |
| 9/14/2021 | 22:00:00 | 10.001 | 32.81168 | 353.67 | 0.314181 | 0.016154 | 0.141934 | 0 |
| 9/14/2021 | 23:00:00 | 10 | 32.8084 | 354.18 | 0.3109 | 0.015569 | 0.142036 | 0 |
| 9/15/2021 | 0:00:00 | 10 | 32.8084 | 353.91 | 0.3109 | 0.015569 | 0.141982 | 0 |
| 9/15/2021 | 1:00:00 | 10.008 | 32.83465 | 352.84 | 0.337147 | 0.020698 | 0.141768 | 0.05511814 |
| 9/15/2021 | 2:00:00 | 10.028 | 32.90026 | 354.13 | 0.402764 | 0.038658 | 0.142026 | 0.5905515 |
| 9/15/2021 | 3:00:00 | 10.016 | 32.86089 | 298.67 | 0.363393 | 0.026934 | 0.130934 | 0.03149608 |
| 9/15/2021 | 4:00:00 | 10.008 | 32.83465 | 87.1 | 0.337147 | 0.020698 | 0.08862 | 0 |
| 9/15/2021 | 5:00:00 | 10.016 | 32.86089 | 74.98 | 0.363393 | 0.026934 | 0.086196 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|---|
| 9/15/2021 | 6:00:00 | 10.02 | 32.87402 | 81.26 | 0.376517 | 0.030509 | 0.087452 | 0 |
| 9/15/2021 | 7:00:00 | 10.023 | 32.88386 | 138.6 | 0.386359 | 0.033404 | 0.09892 | 0 |
| 9/15/2021 | 8:00:00 | 10.023 | 32.88386 | 196.84 | 0.386359 | 0.033404 | 0.110568 | 0 |
| 9/15/2021 | 9:00:00 | 10.024 | 32.88714 | 117.96 | 0.38964 | 0.034411 | 0.094792 | 0 |
| 9/15/2021 | 10:00:00 | 10.027 | 32.89698 | 77.63 | 0.399483 | 0.037563 | 0.086726 | 0 |
| 9/15/2021 | 11:00:00 | 10.031 | 32.91011 | 62.13 | 0.412606 | 0.04208 | 0.083626 | 0 |
| 9/15/2021 | 12:00:00 | 10.032 | 32.91339 | 54.56 | 0.415887 | 0.043268 | 0.082112 | 0 |
| 9/15/2021 | 13:00:00 | 10.028 | 32.90026 | 55.16 | 0.402764 | 0.038658 | 0.082232 | 0 |
| 9/15/2021 | 14:00:00 | 10.025 | 32.89042 | 45.13 | 0.392921 | 0.03544 | 0.080226 | 0 |
| 9/15/2021 | 15:00:00 | 10.015 | 32.85761 | 42.27 | 0.360113 | 0.026089 | 0.079654 | 0 |
| 9/15/2021 | 16:00:00 | 10.008 | 32.83465 | 36.88 | 0.337147 | 0.020698 | 0.078576 | 0 |
| 9/15/2021 | 17:00:00 | 10.006 | 32.82809 | 35.99 | 0.330585 | 0.019317 | 0.078398 | 0 |
| 9/15/2021 | 18:00:00 | 10.004 | 32.82152 | 35.46 | 0.324023 | 0.018003 | 0.078292 | 0 |
| 9/15/2021 | 19:00:00 | 10.004 | 32.82152 | 35.48 | 0.324023 | 0.018003 | 0.078296 | 0 |
| 9/15/2021 | 20:00:00 | 10.005 | 32.8248 | 38.11 | 0.327304 | 0.018652 | 0.078822 | 0 |
| 9/15/2021 | 21:00:00 | 10.009 | 32.83793 | 36.79 | 0.340428 | 0.021414 | 0.078558 | 0 |
| 9/15/2021 | 22:00:00 | 10.015 | 32.85761 | 39.25 | 0.360113 | 0.026089 | 0.07905 | 0 |
| 9/15/2021 | 23:00:00 | 10.014 | 32.85433 | 36.84 | 0.356832 | 0.025264 | 0.078568 | 0 |
| 9/16/2021 | 0:00:00 | 10.012 | 32.84777 | 35.36 | 0.35027 | 0.023669 | 0.078272 | 0 |
| 9/16/2021 | 1:00:00 | 10.012 | 32.84777 | 36.47 | 0.35027 | 0.023669 | 0.078494 | 0 |
| 9/16/2021 | 2:00:00 | 10.011 | 32.84449 | 37.43 | 0.346989 | 0.0229 | 0.078686 | 0 |
| 9/16/2021 | 3:00:00 | 10.008 | 32.83465 | 36.5 | 0.337147 | 0.020698 | 0.0785 | 0 |
| 9/16/2021 | 4:00:00 | 10.009 | 32.83793 | 37.34 | 0.340428 | 0.021414 | 0.078668 | 0 |
| 9/16/2021 | 5:00:00 | 10.011 | 32.84449 | 38.1 | 0.346989 | 0.0229 | 0.07882 | 0 |
| 9/16/2021 | 6:00:00 | 10.012 | 32.84777 | 34.3 | 0.35027 | 0.023669 | 0.07806 | 0 |
| 9/16/2021 | 7:00:00 | 10.014 | 32.85433 | 34.04 | 0.356832 | 0.025264 | 0.078008 | 0 |
| 9/16/2021 | 8:00:00 | 10.023 | 32.88386 | 32.78 | 0.386359 | 0.033404 | 0.077756 | 0 |
| 9/16/2021 | 9:00:00 | 10.027 | 32.89698 | 33.98 | 0.399483 | 0.037563 | 0.077996 | 0 |
| 9/16/2021 | 10:00:00 | 10.029 | 32.90354 | 34 | 0.406044 | 0.039776 | 0.078 | 0 |
| 9/16/2021 | 11:00:00 | 10.03 | 32.90683 | 33.63 | 0.409325 | 0.040917 | 0.077926 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 9/16/2021 | 12:00:00 | 10.028 | 32.90026 | 33.13 | 0.402764 | 0.038658 | 0.077826 | 0 |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|

South location selected rainfall events ≥ 0.80 inches

1/24/2021 – 1/27/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/24/2021 | 0:00:00 | 10.118 | 33.19554 | 302.3 | 0.698039 | 0.266855 | 0.13166 | 0 |
| 1/24/2021 | 1:00:00 | 10.122 | 33.20866 | 301.64 | 0.711162 | 0.284901 | 0.131528 | 0 |
| 1/24/2021 | 2:00:00 | 10.12 | 33.2021 | 302.64 | 0.704601 | 0.275772 | 0.131728 | 0.00787402 |
| 1/24/2021 | 3:00:00 | 10.116 | 33.18898 | 302.47 | 0.691477 | 0.258146 | 0.131694 | 0 |
| 1/24/2021 | 4:00:00 | 10.117 | 33.19226 | 303.77 | 0.694758 | 0.262475 | 0.131954 | 0 |
| 1/24/2021 | 5:00:00 | 10.118 | 33.19554 | 303.22 | 0.698039 | 0.266855 | 0.131844 | 0 |
| 1/24/2021 | 6:00:00 | 10.119 | 33.19882 | 304.03 | 0.70132 | 0.271288 | 0.132006 | 0.00787402 |
| 1/24/2021 | 7:00:00 | 10.12 | 33.2021 | 303.92 | 0.704601 | 0.275772 | 0.131984 | 0 |
| 1/24/2021 | 8:00:00 | 10.125 | 33.21851 | 309.53 | 0.721005 | 0.298996 | 0.133106 | 0 |
| 1/24/2021 | 9:00:00 | 10.128 | 33.22835 | 307.84 | 0.730848 | 0.313582 | 0.132768 | 0 |
| 1/24/2021 | 10:00:00 | 10.138 | 33.26116 | 313.35 | 0.763656 | 0.365889 | 0.13387 | 0 |
| 1/24/2021 | 11:00:00 | 10.14 | 33.26772 | 308.59 | 0.770218 | 0.377054 | 0.132918 | 0 |
| 1/24/2021 | 12:00:00 | 10.13 | 33.23491 | 310.32 | 0.737409 | 0.323585 | 0.133264 | 0 |
| 1/24/2021 | 13:00:00 | 10.125 | 33.21851 | 310 | 0.721005 | 0.298996 | 0.1332 | 0 |
| 1/24/2021 | 14:00:00 | 10.118 | 33.19554 | 307.47 | 0.698039 | 0.266855 | 0.132694 | 0 |
| 1/24/2021 | 15:00:00 | 10.114 | 33.18242 | 312.48 | 0.684916 | 0.249643 | 0.133696 | 0 |
| 1/24/2021 | 16:00:00 | 10.114 | 33.18242 | 313.99 | 0.684916 | 0.249643 | 0.133998 | 0 |
| 1/24/2021 | 17:00:00 | 10.111 | 33.17257 | 314.63 | 0.675073 | 0.237265 | 0.134126 | 0 |

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|-----------|----------|--------|----------|---------|----------|----------|----------|------------|
| 1/24/2021 | 18:00:00 | 10.11 | 33.16929 | 315.05 | 0.671792 | 0.233239 | 0.13421 | 0 |
| 1/24/2021 | 19:00:00 | 10.098 | 33.12992 | 310.6 | 0.632422 | 0.188651 | 0.13332 | 0 |
| 1/24/2021 | 20:00:00 | 10.097 | 33.12664 | 311.95 | 0.629141 | 0.185236 | 0.13359 | 0 |
| 1/24/2021 | 21:00:00 | 10.09 | 33.10368 | 312.27 | 0.606176 | 0.162551 | 0.133654 | 0 |
| 1/24/2021 | 22:00:00 | 10.089 | 33.10039 | 313.72 | 0.602895 | 0.159481 | 0.133944 | 0.03149608 |
| 1/24/2021 | 23:00:00 | 10.083 | 33.08071 | 312.33 | 0.58321 | 0.141926 | 0.133666 | 0.0787402 |
| 1/25/2021 | 0:00:00 | 10.06 | 33.00525 | 321.06 | 0.50775 | 0.087229 | 0.135412 | 0.06299216 |
| 1/25/2021 | 1:00:00 | 10.041 | 32.94291 | 316.79 | 0.445414 | 0.055057 | 0.134558 | 0.00787402 |
| 1/25/2021 | 2:00:00 | 10.055 | 32.98885 | 310.73 | 0.491346 | 0.077724 | 0.133346 | 0.08661422 |
| 1/25/2021 | 3:00:00 | 10.049 | 32.96916 | 630.98 | 0.471661 | 0.067324 | 0.197396 | 0.14960638 |
| 1/25/2021 | 4:00:00 | 10.067 | 33.02822 | 988.37 | 0.530716 | 0.101896 | 0.268874 | 0.10236226 |
| 1/25/2021 | 5:00:00 | 10.137 | 33.25788 | 1659.48 | 0.760375 | 0.360397 | 0.403096 | 0.30708678 |
| 1/25/2021 | 6:00:00 | 10.188 | 33.4252 | 1871.99 | 0.927698 | 0.724833 | 0.445598 | 0.04724412 |
| 1/25/2021 | 7:00:00 | 10.208 | 33.49081 | 2473.95 | 0.993315 | 0.921526 | 0.56599 | 0.00787402 |
| 1/25/2021 | 8:00:00 | 10.238 | 33.58924 | 888.17 | 1.09174 | 1.284276 | 0.248834 | 0 |
| 1/25/2021 | 9:00:00 | 10.437 | 34.24213 | 398.86 | 1.744627 | 6.666031 | 0.150972 | 0 |
| 1/25/2021 | 10:00:00 | 10.542 | 34.58662 | 360.39 | 2.089115 | 12.55457 | 0.143278 | 0 |
| 1/25/2021 | 11:00:00 | 10.677 | 35.02953 | 176.21 | 2.532029 | 24.66991 | 0.106442 | 0 |
| 1/25/2021 | 12:00:00 | 10.702 | 35.11155 | 151 | 2.61405 | 27.59352 | 0.1014 | 0 |
| 1/25/2021 | 13:00:00 | 10.667 | 34.99672 | 126.94 | 2.49922 | 23.56509 | 0.096588 | 0 |
| 1/25/2021 | 14:00:00 | 10.625 | 34.85893 | 118.05 | 2.361425 | 19.30812 | 0.09481 | 0 |
| 1/25/2021 | 15:00:00 | 10.578 | 34.70473 | 113.97 | 2.207226 | 15.23035 | 0.093994 | 0 |
| 1/25/2021 | 16:00:00 | 10.53 | 34.54725 | 108.16 | 2.049745 | 11.74288 | 0.092832 | 0 |
| 1/25/2021 | 17:00:00 | 10.481 | 34.38648 | 106.35 | 1.888984 | 8.813725 | 0.09247 | 0 |
| 1/25/2021 | 18:00:00 | 10.431 | 34.22244 | 99.42 | 1.724942 | 6.40552 | 0.091084 | 0.00787402 |
| 1/25/2021 | 19:00:00 | 10.389 | 34.08465 | 98.09 | 1.587147 | 4.781122 | 0.090818 | 0.00787402 |
| 1/25/2021 | 20:00:00 | 10.348 | 33.95013 | 92.83 | 1.452632 | 3.502766 | 0.089766 | 0 |
| 1/25/2021 | 21:00:00 | 10.32 | 33.85827 | 96.64 | 1.360769 | 2.784452 | 0.090528 | 0 |
| 1/25/2021 | 22:00:00 | 10.291 | 33.76312 | 94.1 | 1.265624 | 2.158485 | 0.09002 | 0 |
| 1/25/2021 | 23:00:00 | 10.276 | 33.71391 | 92.11 | 1.216412 | 1.877754 | 0.089622 | 0 |
| 1/26/2021 | 0:00:00 | 10.259 | 33.65814 | 90.6 | 1.160638 | 1.59231 | 0.08932 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 1/26/2021 | 1:00:00 | 10.25 | 33.62861 | 88.05 | 1.13111 | 1.454487 | 0.08881 | 0 |
| 1/26/2021 | 2:00:00 | 10.243 | 33.60564 | 88.94 | 1.108144 | 1.353359 | 0.088988 | 0 |
| 1/26/2021 | 3:00:00 | 10.239 | 33.59252 | 92.28 | 1.095021 | 1.297886 | 0.089656 | 0 |
| 1/26/2021 | 4:00:00 | 10.232 | 33.56955 | 90.48 | 1.072055 | 1.204751 | 0.089296 | 0 |
| 1/26/2021 | 5:00:00 | 10.232 | 33.56955 | 90.1 | 1.072055 | 1.204751 | 0.08922 | 0 |
| 1/26/2021 | 6:00:00 | 10.233 | 33.57284 | 90.85 | 1.075336 | 1.217753 | 0.08937 | 0 |
| 1/26/2021 | 7:00:00 | 10.234 | 33.57612 | 84.35 | 1.078617 | 1.230856 | 0.08807 | 0 |
| 1/26/2021 | 8:00:00 | 10.238 | 33.58924 | 84.56 | 1.09174 | 1.284276 | 0.088112 | 0 |
| 1/26/2021 | 9:00:00 | 10.246 | 33.61549 | 86.2 | 1.117987 | 1.396062 | 0.08844 | 0 |
| 1/26/2021 | 10:00:00 | 10.26 | 33.66142 | 91.1 | 1.163918 | 1.608179 | 0.08942 | 0 |
| 1/26/2021 | 11:00:00 | 10.264 | 33.67454 | 96.64 | 1.177042 | 1.672788 | 0.090528 | 0 |
| 1/26/2021 | 12:00:00 | 10.261 | 33.6647 | 89.98 | 1.167199 | 1.624161 | 0.089196 | 0 |
| 1/26/2021 | 13:00:00 | 10.257 | 33.65158 | 99.93 | 1.154076 | 1.560909 | 0.091186 | 0 |
| 1/26/2021 | 14:00:00 | 10.25 | 33.62861 | 88.72 | 1.13111 | 1.454487 | 0.088944 | 0 |
| 1/26/2021 | 15:00:00 | 10.248 | 33.62205 | 84.91 | 1.124548 | 1.42506 | 0.088182 | 0 |
| 1/26/2021 | 16:00:00 | 10.242 | 33.60236 | 92.47 | 1.104863 | 1.339335 | 0.089694 | 0 |
| 1/26/2021 | 17:00:00 | 10.236 | 33.58268 | 94.1 | 1.085178 | 1.257363 | 0.09002 | 0 |
| 1/26/2021 | 18:00:00 | 10.231 | 33.56627 | 80.57 | 1.068774 | 1.191848 | 0.087314 | 0 |
| 1/26/2021 | 19:00:00 | 10.232 | 33.56955 | 81.33 | 1.072055 | 1.204751 | 0.087466 | 0 |
| 1/26/2021 | 20:00:00 | 10.235 | 33.5794 | 86.44 | 1.081897 | 1.244059 | 0.088488 | 0 |
| 1/26/2021 | 21:00:00 | 10.243 | 33.60564 | 82.07 | 1.108144 | 1.353359 | 0.087614 | 0 |
| 1/26/2021 | 22:00:00 | 10.237 | 33.58596 | 81.3 | 1.088459 | 1.270769 | 0.08746 | 0 |
| 1/26/2021 | 23:00:00 | 10.246 | 33.61549 | 83.47 | 1.117987 | 1.396062 | 0.087894 | 0 |
| 1/27/2021 | 0:00:00 | 10.235 | 33.5794 | 80.24 | 1.081897 | 1.244059 | 0.087248 | 0 |
| 1/27/2021 | 1:00:00 | 10.241 | 33.59908 | 76.48 | 1.101582 | 1.325415 | 0.086496 | 0 |
| 1/27/2021 | 2:00:00 | 10.242 | 33.60236 | 79.75 | 1.104863 | 1.339335 | 0.08715 | 0 |

1/29/2021 – 1/31/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/29/2021 | 20:00:00 | 10.115 | 33.1857 | 78.11 | 0.688197 | 0.253869 | 0.086822 | 0 |
| 1/29/2021 | 21:00:00 | 10.105 | 33.15289 | 79.51 | 0.655388 | 0.213837 | 0.087102 | 0 |
| 1/29/2021 | 22:00:00 | 10.094 | 33.1168 | 78.84 | 0.619299 | 0.175254 | 0.086968 | 0 |
| 1/29/2021 | 23:00:00 | 10.083 | 33.08071 | 79.32 | 0.58321 | 0.141926 | 0.087064 | 0 |
| 1/30/2021 | 0:00:00 | 10.063 | 33.01509 | 78.71 | 0.517593 | 0.093316 | 0.086942 | 0 |
| 1/30/2021 | 1:00:00 | 10.061 | 33.00853 | 74.2 | 0.511031 | 0.089225 | 0.08604 | 0 |
| 1/30/2021 | 2:00:00 | 10.043 | 32.94948 | 72.02 | 0.451976 | 0.05796 | 0.085604 | 0 |
| 1/30/2021 | 3:00:00 | 10.044 | 32.95276 | 74.37 | 0.455257 | 0.059452 | 0.086074 | 0 |
| 1/30/2021 | 4:00:00 | 10.037 | 32.92979 | 77.75 | 0.432291 | 0.049566 | 0.08675 | 0 |
| 1/30/2021 | 5:00:00 | 10.043 | 32.94948 | 72.43 | 0.451976 | 0.05796 | 0.085686 | 0.02362206 |
| 1/30/2021 | 6:00:00 | 10.023 | 32.88386 | 79.23 | 0.386359 | 0.033404 | 0.087046 | 0.0393701 |
| 1/30/2021 | 7:00:00 | 10.018 | 32.86746 | 84.46 | 0.369955 | 0.028682 | 0.088092 | 0 |
| 1/30/2021 | 8:00:00 | 10.011 | 32.84449 | 77.69 | 0.346989 | 0.0229 | 0.086738 | 0.04724412 |
| 1/30/2021 | 9:00:00 | 10.015 | 32.85761 | 154.2 | 0.360113 | 0.026089 | 0.10204 | 0.06299216 |
| 1/30/2021 | 10:00:00 | 10.006 | 32.82809 | 554.85 | 0.330585 | 0.019317 | 0.18217 | 0.0787402 |
| 1/30/2021 | 11:00:00 | 10.006 | 32.82809 | 389.45 | 0.330585 | 0.019317 | 0.14909 | 0.10236226 |
| 1/30/2021 | 12:00:00 | 10.028 | 32.90026 | 199.35 | 0.402764 | 0.038658 | 0.11107 | 0.09448824 |
| 1/30/2021 | 13:00:00 | 10.055 | 32.98885 | 112.21 | 0.491346 | 0.077724 | 0.093642 | 0.06299216 |
| 1/30/2021 | 14:00:00 | 10.09 | 33.10368 | 126.37 | 0.606176 | 0.162551 | 0.096474 | 0.13385834 |
| 1/30/2021 | 15:00:00 | 10.13 | 33.23491 | 91.67 | 0.737409 | 0.323585 | 0.089534 | 0 |
| 1/30/2021 | 16:00:00 | 10.231 | 33.56627 | 126.18 | 1.068774 | 1.191848 | 0.096436 | 0.33858286 |
| 1/30/2021 | 17:00:00 | 10.496 | 34.4357 | 209.63 | 1.938197 | 9.647155 | 0.113126 | 0.07086618 |
| 1/30/2021 | 18:00:00 | 10.703 | 35.11483 | 285.74 | 2.617331 | 27.71538 | 0.128348 | 0.0393701 |
| 1/30/2021 | 19:00:00 | 10.865 | 35.64633 | 263.14 | 3.148827 | 53.06257 | 0.123828 | 0.00787402 |
| 1/30/2021 | 20:00:00 | 10.515 | 34.49803 | 189.75 | 2.000533 | 10.78193 | 0.10915 | 0 |
| 1/30/2021 | 21:00:00 | 10.522 | 34.521 | 155.58 | 2.023498 | 11.22308 | 0.102316 | 0 |
| 1/30/2021 | 22:00:00 | 10.526 | 34.53412 | 143.77 | 2.036622 | 11.48088 | 0.099954 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|---|
| 1/30/2021 | 23:00:00 | 10.538 | 34.57349 | 136.82 | 2.075992 | 12.27969 | 0.098564 | 0 |
| 1/31/2021 | 0:00:00 | 10.624 | 34.85564 | 137.34 | 2.358144 | 19.21405 | 0.098668 | 0 |
| 1/31/2021 | 1:00:00 | 10.7 | 35.10499 | 145.01 | 2.607488 | 27.35096 | 0.100202 | 0 |
| 1/31/2021 | 2:00:00 | 10.622 | 34.84908 | 134.07 | 2.351582 | 19.02688 | 0.098014 | 0 |
| 1/31/2021 | 3:00:00 | 10.576 | 34.69816 | 129.32 | 2.200664 | 15.07188 | 0.097064 | 0 |
| 1/31/2021 | 4:00:00 | 10.641 | 34.91142 | 122.12 | 2.413918 | 20.85858 | 0.095624 | 0 |
| 1/31/2021 | 5:00:00 | 10.643 | 34.91798 | 122.98 | 2.42048 | 21.05845 | 0.095796 | 0 |
| 1/31/2021 | 6:00:00 | 10.713 | 35.14764 | 125.09 | 2.650139 | 28.95523 | 0.096218 | 0 |
| 1/31/2021 | 7:00:00 | 10.724 | 35.18373 | 116.11 | 2.686228 | 30.36434 | 0.094422 | 0 |
| 1/31/2021 | 8:00:00 | 10.72 | 35.1706 | 117.77 | 2.673105 | 29.84639 | 0.094754 | 0 |
| 1/31/2021 | 9:00:00 | 10.722 | 35.17717 | 130.4 | 2.679666 | 30.10457 | 0.09728 | 0 |
| 1/31/2021 | 10:00:00 | 10.714 | 35.15092 | 117.61 | 2.65342 | 29.08135 | 0.094722 | 0 |
| 1/31/2021 | 11:00:00 | 10.708 | 35.13123 | 118.86 | 2.633735 | 28.33045 | 0.094972 | 0 |
| 1/31/2021 | 12:00:00 | 10.693 | 35.08202 | 113.61 | 2.584522 | 26.51398 | 0.093922 | 0 |
| 1/31/2021 | 13:00:00 | 10.678 | 35.03281 | 105.8 | 2.53531 | 24.78239 | 0.09236 | 0 |
| 1/31/2021 | 14:00:00 | 10.666 | 34.99344 | 116.7 | 2.495939 | 23.45659 | 0.09454 | 0 |
| 1/31/2021 | 15:00:00 | 10.659 | 34.97047 | 114.59 | 2.472974 | 22.70708 | 0.094118 | 0 |
| 1/31/2021 | 16:00:00 | 10.655 | 34.95735 | 113.97 | 2.45985 | 22.28656 | 0.093994 | 0 |
| 1/31/2021 | 17:00:00 | 10.654 | 34.95407 | 109.19 | 2.456569 | 22.18231 | 0.093038 | 0 |
| 1/31/2021 | 18:00:00 | 10.657 | 34.96391 | 114.33 | 2.466412 | 22.49612 | 0.094066 | 0 |

3/10/2021 – 3/16/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) | |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|--|
| 3/10/2021 | 23:00:00 | 10.235 | 33.5794 | 187.12 | 1.081897 | 1.244059 | 0.108624 | 0 | |
| 3/11/2021 | 0:00:00 | 10.236 | 33.58268 | 167.67 | 1.085178 | 1.257363 | 0.104734 | 0 | |
| 3/11/2021 | 1:00:00 | 10.239 | 33.59252 | 168.89 | 1.095021 | 1.297886 | 0.104978 | 0 | |
| 3/11/2021 | 2:00:00 | 10.236 | 33.58268 | 161.7 | 1.085178 | 1.257363 | 0.10354 | 0 | |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/11/2021 | 3:00:00 | 10.243 | 33.60564 | 150.58 | 1.108144 | 1.353359 | 0.101316 | 0 |
| 3/11/2021 | 4:00:00 | 10.255 | 33.64501 | 145.47 | 1.147514 | 1.529953 | 0.100294 | 0 |
| 3/11/2021 | 5:00:00 | 10.26 | 33.66142 | 132.65 | 1.163918 | 1.608179 | 0.09773 | 0.00787402 |
| 3/11/2021 | 6:00:00 | 10.268 | 33.68767 | 138.12 | 1.190165 | 1.739232 | 0.098824 | 0 |
| 3/11/2021 | 7:00:00 | 10.274 | 33.70735 | 143.45 | 1.20985 | 1.84241 | 0.09989 | 0 |
| 3/11/2021 | 8:00:00 | 10.284 | 33.74016 | 143.64 | 1.242659 | 2.023994 | 0.099928 | 0.05511814 |
| 3/11/2021 | 9:00:00 | 10.285 | 33.74344 | 143.33 | 1.245939 | 2.04283 | 0.099866 | 0.00787402 |
| 3/11/2021 | 10:00:00 | 10.296 | 33.77953 | 143.05 | 1.282029 | 2.258382 | 0.09981 | 0.08661422 |
| 3/11/2021 | 11:00:00 | 10.307 | 33.81562 | 375.87 | 1.318118 | 2.489735 | 0.146374 | 0.04724412 |
| 3/11/2021 | 12:00:00 | 10.308 | 33.8189 | 218.63 | 1.321399 | 2.511574 | 0.114926 | 0.02362206 |
| 3/11/2021 | 13:00:00 | 10.309 | 33.82218 | 196.97 | 1.32468 | 2.53355 | 0.110594 | 0.01574804 |
| 3/11/2021 | 14:00:00 | 10.307 | 33.81562 | 587.33 | 1.318118 | 2.489735 | 0.188666 | 0.02362206 |
| 3/11/2021 | 15:00:00 | 10.314 | 33.83858 | 712.58 | 1.341084 | 2.645497 | 0.213716 | 0.00787402 |
| 3/11/2021 | 16:00:00 | 10.316 | 33.84515 | 349.36 | 1.347645 | 2.69125 | 0.141072 | 0 |
| 3/11/2021 | 17:00:00 | 10.32 | 33.85827 | 267.73 | 1.360769 | 2.784452 | 0.124746 | 0 |
| 3/11/2021 | 18:00:00 | 10.324 | 33.87139 | 225.6 | 1.373892 | 2.879939 | 0.11632 | 0 |
| 3/11/2021 | 19:00:00 | 10.33 | 33.89108 | 212.62 | 1.393577 | 3.027531 | 0.113724 | 0 |
| 3/11/2021 | 20:00:00 | 10.332 | 33.89764 | 306.49 | 1.400139 | 3.077908 | 0.132498 | 0 |
| 3/11/2021 | 21:00:00 | 10.334 | 33.9042 | 472.92 | 1.406701 | 3.128882 | 0.165784 | 0 |
| 3/11/2021 | 22:00:00 | 10.338 | 33.91732 | 339.7 | 1.419824 | 3.232637 | 0.13914 | 0 |
| 3/11/2021 | 23:00:00 | 10.334 | 33.9042 | 319.65 | 1.406701 | 3.128882 | 0.13513 | 0 |
| 3/12/2021 | 0:00:00 | 10.336 | 33.91076 | 275.05 | 1.413262 | 3.180457 | 0.12621 | 0 |
| 3/12/2021 | 1:00:00 | 10.337 | 33.91404 | 296.55 | 1.416543 | 3.206471 | 0.13051 | 0 |
| 3/12/2021 | 2:00:00 | 10.335 | 33.90748 | 270.6 | 1.409981 | 3.154594 | 0.12532 | 0 |
| 3/12/2021 | 3:00:00 | 10.333 | 33.90092 | 298.29 | 1.40342 | 3.10332 | 0.130858 | 0 |
| 3/12/2021 | 4:00:00 | 10.332 | 33.89764 | 268.77 | 1.400139 | 3.077908 | 0.124954 | 0 |
| 3/12/2021 | 5:00:00 | 10.334 | 33.9042 | 266.14 | 1.406701 | 3.128882 | 0.124428 | 0 |
| 3/12/2021 | 6:00:00 | 10.337 | 33.91404 | 289.06 | 1.416543 | 3.206471 | 0.129012 | 0 |
| 3/12/2021 | 7:00:00 | 10.337 | 33.91404 | 336.01 | 1.416543 | 3.206471 | 0.138402 | 0 |
| 3/12/2021 | 8:00:00 | 10.341 | 33.92717 | 287.23 | 1.429666 | 3.312051 | 0.128646 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/12/2021 | 9:00:00 | 10.342 | 33.93045 | 275.1 | 1.432947 | 3.33883 | 0.12622 | 0.00787402 |
| 3/12/2021 | 10:00:00 | 10.344 | 33.93701 | 277.83 | 1.439509 | 3.392851 | 0.126766 | 0 |
| 3/12/2021 | 11:00:00 | 10.346 | 33.94357 | 268.67 | 1.446071 | 3.447495 | 0.124934 | 0 |
| 3/12/2021 | 12:00:00 | 10.346 | 33.94357 | 258.19 | 1.446071 | 3.447495 | 0.122838 | 0.00787402 |
| 3/12/2021 | 13:00:00 | 10.345 | 33.94029 | 245.46 | 1.44279 | 3.420095 | 0.120292 | 0.00787402 |
| 3/12/2021 | 14:00:00 | 10.343 | 33.93373 | 242.03 | 1.436228 | 3.365763 | 0.119606 | 0 |
| 3/12/2021 | 15:00:00 | 10.343 | 33.93373 | 247.1 | 1.436228 | 3.365763 | 0.12062 | 0.00787402 |
| 3/12/2021 | 16:00:00 | 10.342 | 33.93045 | 248.46 | 1.432947 | 3.33883 | 0.120892 | 0 |
| 3/12/2021 | 17:00:00 | 10.345 | 33.94029 | 234.93 | 1.44279 | 3.420095 | 0.118186 | 0 |
| 3/12/2021 | 18:00:00 | 10.344 | 33.93701 | 210.12 | 1.439509 | 3.392851 | 0.113224 | 0 |
| 3/12/2021 | 19:00:00 | 10.342 | 33.93045 | 221.13 | 1.432947 | 3.33883 | 0.115426 | 0 |
| 3/12/2021 | 20:00:00 | 10.337 | 33.91404 | 265.33 | 1.416543 | 3.206471 | 0.124266 | 0 |
| 3/12/2021 | 21:00:00 | 10.349 | 33.95341 | 361.13 | 1.455913 | 3.530638 | 0.143426 | 0.01574804 |
| 3/12/2021 | 22:00:00 | 10.357 | 33.97966 | 346.35 | 1.48216 | 3.759355 | 0.14047 | 0.09448824 |
| 3/12/2021 | 23:00:00 | 10.353 | 33.96654 | 297.53 | 1.469037 | 3.643713 | 0.130706 | 0 |
| 3/13/2021 | 0:00:00 | 10.372 | 34.02887 | 276.09 | 1.531372 | 4.216474 | 0.126418 | 0.09448824 |
| 3/13/2021 | 1:00:00 | 10.388 | 34.08137 | 265.76 | 1.583866 | 4.746491 | 0.124352 | 0.21259854 |
| 3/13/2021 | 2:00:00 | 10.421 | 34.18963 | 260.88 | 1.692134 | 5.98764 | 0.123376 | 0.04724412 |
| 3/13/2021 | 3:00:00 | 10.447 | 34.27494 | 259.76 | 1.777435 | 7.116929 | 0.123152 | 0.1181103 |
| 3/13/2021 | 4:00:00 | 10.519 | 34.51116 | 258.49 | 2.013656 | 11.03247 | 0.122898 | 0.33858286 |
| 3/13/2021 | 5:00:00 | 10.61 | 34.80971 | 256.32 | 2.312212 | 17.93113 | 0.122464 | 0.08661422 |
| 3/13/2021 | 6:00:00 | 10.645 | 34.92454 | 255.98 | 2.427042 | 21.25968 | 0.122396 | 0.08661422 |
| 3/13/2021 | 7:00:00 | 10.652 | 34.94751 | 254.96 | 2.450008 | 21.97486 | 0.122192 | 0.04724412 |
| 3/13/2021 | 8:00:00 | 10.512 | 34.48819 | 137.98 | 1.99069 | 10.59672 | 0.098796 | 0.0393701 |
| 3/13/2021 | 9:00:00 | 10.635 | 34.89173 | 156.92 | 2.394233 | 20.2671 | 0.102584 | 0.10236226 |
| 3/13/2021 | 10:00:00 | 10.588 | 34.73753 | 157.7 | 2.240034 | 16.04063 | 0.10274 | 0.09448824 |
| 3/13/2021 | 11:00:00 | 10.527 | 34.5374 | 145 | 2.039903 | 11.54598 | 0.1002 | 0.00787402 |
| 3/13/2021 | 12:00:00 | 10.523 | 34.52428 | 124.27 | 2.026779 | 11.28713 | 0.096054 | 0 |
| 3/13/2021 | 13:00:00 | 10.494 | 34.42913 | 114.23 | 1.931635 | 9.532904 | 0.094046 | 0 |
| 3/13/2021 | 14:00:00 | 10.469 | 34.34711 | 114.47 | 1.849614 | 8.18511 | 0.094094 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/13/2021 | 15:00:00 | 10.407 | 34.1437 | 109.19 | 1.646202 | 5.435865 | 0.093038 | 0 |
| 3/13/2021 | 16:00:00 | 10.406 | 34.14042 | 99.44 | 1.642921 | 5.397901 | 0.091088 | 0 |
| 3/13/2021 | 17:00:00 | 10.411 | 34.15683 | 99 | 1.659325 | 5.589633 | 0.091 | 0 |
| 3/13/2021 | 18:00:00 | 10.434 | 34.23228 | 98.99 | 1.734785 | 6.534847 | 0.090998 | 0 |
| 3/13/2021 | 19:00:00 | 10.434 | 34.23228 | 94.65 | 1.734785 | 6.534847 | 0.09013 | 0 |
| 3/13/2021 | 20:00:00 | 10.487 | 34.40617 | 95.22 | 1.908669 | 9.140642 | 0.090244 | 0 |
| 3/13/2021 | 21:00:00 | 10.494 | 34.42913 | 93.95 | 1.931635 | 9.532904 | 0.08999 | 0 |
| 3/13/2021 | 22:00:00 | 10.534 | 34.56037 | 93.94 | 2.062869 | 12.00914 | 0.089988 | 0 |
| 3/13/2021 | 23:00:00 | 10.572 | 34.68504 | 93.1 | 2.18754 | 14.75848 | 0.08982 | 0 |
| 3/14/2021 | 0:00:00 | 10.56 | 34.64567 | 95.43 | 2.14817 | 13.84626 | 0.090286 | 0 |
| 3/14/2021 | 1:00:00 | 10.546 | 34.59974 | 93.27 | 2.102239 | 12.83382 | 0.089854 | 0 |
| 3/14/2021 | 2:00:00 | 10.527 | 34.5374 | 92.26 | 2.039903 | 11.54598 | 0.089652 | 0 |
| 3/14/2021 | 3:00:00 | 10.497 | 34.43898 | 92.79 | 1.941477 | 9.704646 | 0.089758 | 0 |
| 3/14/2021 | 4:00:00 | 10.486 | 34.40289 | 92.84 | 1.905388 | 9.085564 | 0.089768 | 0 |
| 3/14/2021 | 5:00:00 | 10.462 | 34.32415 | 95.33 | 1.826648 | 7.833605 | 0.090266 | 0 |
| 3/14/2021 | 6:00:00 | 10.44 | 34.25197 | 96.4 | 1.75447 | 6.799088 | 0.09048 | 0 |
| 3/14/2021 | 7:00:00 | 10.429 | 34.21588 | 83.64 | 1.71838 | 6.320327 | 0.087928 | 0.00787402 |
| 3/14/2021 | 8:00:00 | 10.416 | 34.17323 | 82.74 | 1.675729 | 5.786189 | 0.087748 | 0.0393701 |
| 3/14/2021 | 9:00:00 | 10.403 | 34.13058 | 83.22 | 1.633079 | 5.285146 | 0.087844 | 0 |
| 3/14/2021 | 10:00:00 | 10.391 | 34.09121 | 87.2 | 1.593708 | 4.850924 | 0.08864 | 0 |
| 3/14/2021 | 11:00:00 | 10.38 | 34.05512 | 96.93 | 1.557619 | 4.475872 | 0.090586 | 0 |
| 3/14/2021 | 12:00:00 | 10.373 | 34.03215 | 114.44 | 1.534653 | 4.248295 | 0.094088 | 0.00787402 |
| 3/14/2021 | 13:00:00 | 10.377 | 34.04528 | 132.47 | 1.547777 | 4.377298 | 0.097694 | 0.13385834 |
| 3/14/2021 | 14:00:00 | 10.393 | 34.09777 | 157.31 | 1.60027 | 4.921453 | 0.102662 | 0.1574804 |
| 3/14/2021 | 15:00:00 | 10.408 | 34.14698 | 137.49 | 1.649483 | 5.47402 | 0.098698 | 0.05511814 |
| 3/14/2021 | 16:00:00 | 10.429 | 34.21588 | 95.89 | 1.71838 | 6.320327 | 0.090378 | 0.1181103 |
| 3/14/2021 | 17:00:00 | 10.425 | 34.20276 | 81.93 | 1.705257 | 6.152375 | 0.087586 | 0.06299216 |
| 3/14/2021 | 18:00:00 | 10.465 | 34.33399 | 78.36 | 1.836491 | 7.982899 | 0.086872 | 0.00787402 |
| 3/14/2021 | 19:00:00 | 10.433 | 34.229 | 89.84 | 1.731504 | 6.491533 | 0.089168 | 0 |
| 3/14/2021 | 20:00:00 | 10.383 | 34.06496 | 100.3 | 1.567462 | 4.576024 | 0.09126 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/14/2021 | 21:00:00 | 10.318 | 33.85171 | 99.85 | 1.354207 | 2.737567 | 0.09117 | 0 |
| 3/14/2021 | 22:00:00 | 10.283 | 33.73688 | 99.84 | 1.239378 | 2.005283 | 0.091168 | 0.00787402 |
| 3/14/2021 | 23:00:00 | 10.322 | 33.86483 | 95.55 | 1.36733 | 2.831908 | 0.09031 | 0 |
| 3/15/2021 | 0:00:00 | 10.247 | 33.61877 | 86.37 | 1.121267 | 1.410507 | 0.088474 | 0 |
| 3/15/2021 | 1:00:00 | 10.283 | 33.73688 | 78.22 | 1.239378 | 2.005283 | 0.086844 | 0 |
| 3/15/2021 | 2:00:00 | 10.358 | 33.98294 | 74.66 | 1.485441 | 3.788671 | 0.086132 | 0 |
| 3/15/2021 | 3:00:00 | 10.387 | 34.07809 | 74.2 | 1.580585 | 4.71204 | 0.08604 | 0 |
| 3/15/2021 | 4:00:00 | 10.388 | 34.08137 | 72.5 | 1.583866 | 4.746491 | 0.0857 | 0 |
| 3/15/2021 | 5:00:00 | 10.434 | 34.23228 | 71.32 | 1.734785 | 6.534847 | 0.085464 | 0 |
| 3/15/2021 | 6:00:00 | 10.461 | 34.32087 | 69.79 | 1.823367 | 7.784288 | 0.085158 | 0 |
| 3/15/2021 | 7:00:00 | 10.451 | 34.28806 | 85.1 | 1.790559 | 7.30325 | 0.08822 | 0 |
| 3/15/2021 | 8:00:00 | 10.395 | 34.10433 | 71.81 | 1.606832 | 4.992713 | 0.085562 | 0 |
| 3/15/2021 | 9:00:00 | 10.38 | 34.05512 | 72.65 | 1.557619 | 4.475872 | 0.08573 | 0 |
| 3/15/2021 | 10:00:00 | 10.391 | 34.09121 | 82.09 | 1.593708 | 4.850924 | 0.087618 | 0 |
| 3/15/2021 | 11:00:00 | 10.393 | 34.09777 | 95.61 | 1.60027 | 4.921453 | 0.090322 | 0 |
| 3/15/2021 | 12:00:00 | 10.385 | 34.07152 | 99.27 | 1.574023 | 4.643676 | 0.091054 | 0 |
| 3/15/2021 | 13:00:00 | 10.37 | 34.02231 | 104.99 | 1.524811 | 4.153344 | 0.092198 | 0 |
| 3/15/2021 | 14:00:00 | 10.363 | 33.99934 | 108.93 | 1.501845 | 3.937708 | 0.092986 | 0 |
| 3/15/2021 | 15:00:00 | 10.346 | 33.94357 | 116.56 | 1.446071 | 3.447495 | 0.094512 | 0 |
| 3/15/2021 | 16:00:00 | 10.335 | 33.90748 | 125.12 | 1.409981 | 3.154594 | 0.096224 | 0 |
| 3/15/2021 | 17:00:00 | 10.33 | 33.89108 | 169.71 | 1.393577 | 3.027531 | 0.105142 | 0 |
| 3/15/2021 | 18:00:00 | 10.331 | 33.89436 | 176.7 | 1.396858 | 3.052645 | 0.10654 | 0 |
| 3/15/2021 | 19:00:00 | 10.337 | 33.91404 | 183.06 | 1.416543 | 3.206471 | 0.107812 | 0 |
| 3/15/2021 | 20:00:00 | 10.339 | 33.9206 | 203.27 | 1.423105 | 3.258955 | 0.111854 | 0 |
| 3/15/2021 | 21:00:00 | 10.337 | 33.91404 | 203.47 | 1.416543 | 3.206471 | 0.111894 | 0 |
| 3/15/2021 | 22:00:00 | 10.339 | 33.9206 | 226.14 | 1.423105 | 3.258955 | 0.116428 | 0 |
| 3/15/2021 | 23:00:00 | 10.337 | 33.91404 | 258.06 | 1.416543 | 3.206471 | 0.122812 | 0 |
| 3/16/2021 | 0:00:00 | 10.333 | 33.90092 | 244.27 | 1.40342 | 3.10332 | 0.120054 | 0 |

3/17/2021 – 3/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/17/2021 | 0:00:00 | 10.267 | 33.68438 | 140.72 | 1.186884 | 1.722447 | 0.099344 | 0 |
| 3/17/2021 | 1:00:00 | 10.258 | 33.65486 | 133.74 | 1.157357 | 1.576553 | 0.097948 | 0 |
| 3/17/2021 | 2:00:00 | 10.231 | 33.56627 | 117.18 | 1.068774 | 1.191848 | 0.094636 | 0 |
| 3/17/2021 | 3:00:00 | 10.222 | 33.53675 | 98.13 | 1.039246 | 1.08013 | 0.090826 | 0 |
| 3/17/2021 | 4:00:00 | 10.207 | 33.48753 | 95.4 | 0.990034 | 0.910878 | 0.09028 | 0 |
| 3/17/2021 | 5:00:00 | 10.236 | 33.58268 | 1023.72 | 1.085178 | 1.257363 | 0.275944 | 0.18897648 |
| 3/17/2021 | 6:00:00 | 10.298 | 33.78609 | 214.47 | 1.28859 | 2.299251 | 0.114094 | 0.1968505 |
| 3/17/2021 | 7:00:00 | 10.361 | 33.99278 | 132.11 | 1.495283 | 3.877599 | 0.097622 | 0 |
| 3/17/2021 | 8:00:00 | 10.385 | 34.07152 | 107.94 | 1.574023 | 4.643676 | 0.092788 | 0.05511814 |
| 3/17/2021 | 9:00:00 | 10.399 | 34.11746 | 101.46 | 1.619955 | 5.137441 | 0.091492 | 0 |
| 3/17/2021 | 10:00:00 | 10.403 | 34.13058 | 98.99 | 1.633079 | 5.285146 | 0.090998 | 0 |
| 3/17/2021 | 11:00:00 | 10.399 | 34.11746 | 96.65 | 1.619955 | 5.137441 | 0.09053 | 0 |
| 3/17/2021 | 12:00:00 | 10.464 | 34.33071 | 110.7 | 1.83321 | 7.93291 | 0.09334 | 0 |
| 3/17/2021 | 13:00:00 | 10.368 | 34.01575 | 114.25 | 1.518249 | 4.090893 | 0.09405 | 0 |
| 3/17/2021 | 14:00:00 | 10.338 | 33.91732 | 108.85 | 1.419824 | 3.232637 | 0.09297 | 0 |
| 3/17/2021 | 15:00:00 | 10.45 | 34.28478 | 105.97 | 1.787278 | 7.256346 | 0.092394 | 0 |
| 3/17/2021 | 16:00:00 | 10.452 | 34.29134 | 112.29 | 1.79384 | 7.350369 | 0.093658 | 0.06299216 |
| 3/17/2021 | 17:00:00 | 10.42 | 34.18635 | 103.1 | 1.688853 | 5.946955 | 0.09182 | 0.21259854 |
| 3/17/2021 | 18:00:00 | 10.394 | 34.10105 | 118.82 | 1.603551 | 4.956991 | 0.094964 | 0 |
| 3/17/2021 | 19:00:00 | 10.447 | 34.27494 | 111.67 | 1.777435 | 7.116929 | 0.093534 | 0 |
| 3/17/2021 | 20:00:00 | 10.524 | 34.52756 | 110.05 | 2.03006 | 11.35145 | 0.09321 | 0 |
| 3/17/2021 | 21:00:00 | 10.224 | 33.54331 | 136.28 | 1.045808 | 1.104279 | 0.098456 | 0.01574804 |
| 3/17/2021 | 22:00:00 | 10.287 | 33.75 | 119.02 | 1.252501 | 2.080876 | 0.095004 | 0.00787402 |
| 3/17/2021 | 23:00:00 | 10.344 | 33.93701 | 108.2 | 1.439509 | 3.392851 | 0.09284 | 0 |
| 3/18/2021 | 0:00:00 | 10.423 | 34.1962 | 97.71 | 1.698695 | 6.069608 | 0.090742 | 0.02362206 |
| 3/18/2021 | 1:00:00 | 10.381 | 34.0584 | 93.06 | 1.5609 | 4.50908 | 0.089812 | 0.0393701 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 3/18/2021 | 2:00:00 | 10.359 | 33.98622 | 92.08 | 1.488722 | 3.81815 | 0.089616 | 0.00787402 |
| 3/18/2021 | 3:00:00 | 10.349 | 33.95341 | 91.93 | 1.455913 | 3.530638 | 0.089586 | 0.05511814 |
| 3/18/2021 | 4:00:00 | 10.385 | 34.07152 | 91.19 | 1.574023 | 4.643676 | 0.089438 | 0.00787402 |
| 3/18/2021 | 5:00:00 | 10.437 | 34.24213 | 92.39 | 1.744627 | 6.666031 | 0.089678 | 0 |
| 3/18/2021 | 6:00:00 | 10.419 | 34.18307 | 92.51 | 1.685572 | 5.906468 | 0.089702 | 0.00787402 |
| 3/18/2021 | 7:00:00 | 10.415 | 34.16995 | 91.14 | 1.672449 | 5.746489 | 0.089428 | 0 |
| 3/18/2021 | 8:00:00 | 10.48 | 34.3832 | 87.9 | 1.885703 | 8.760064 | 0.08878 | 0 |
| 3/18/2021 | 9:00:00 | 10.469 | 34.34711 | 85.21 | 1.849614 | 8.18511 | 0.088242 | 0 |
| 3/18/2021 | 10:00:00 | 10.478 | 34.37664 | 86.42 | 1.879142 | 8.653444 | 0.088484 | 0 |
| 3/18/2021 | 11:00:00 | 10.526 | 34.53412 | 87.81 | 2.036622 | 11.48088 | 0.088762 | 0 |
| 3/18/2021 | 12:00:00 | 10.529 | 34.54396 | 86.76 | 2.046464 | 11.67698 | 0.088552 | 0 |
| 3/18/2021 | 13:00:00 | 10.573 | 34.68832 | 91.8 | 2.190821 | 14.83639 | 0.08956 | 0 |
| 3/18/2021 | 14:00:00 | 10.574 | 34.6916 | 89.96 | 2.194102 | 14.91459 | 0.089192 | 0 |
| 3/18/2021 | 15:00:00 | 10.572 | 34.68504 | 91.59 | 2.18754 | 14.75848 | 0.089518 | 0 |
| 3/18/2021 | 16:00:00 | 10.571 | 34.68176 | 95.93 | 2.18426 | 14.68087 | 0.090386 | 0 |
| 3/18/2021 | 17:00:00 | 10.571 | 34.68176 | 107.84 | 2.18426 | 14.68087 | 0.092768 | 0 |
| 3/18/2021 | 18:00:00 | 10.564 | 34.65879 | 107.93 | 2.161294 | 14.14572 | 0.092786 | 0 |
| 3/18/2021 | 19:00:00 | 10.559 | 34.64239 | 122.32 | 2.14489 | 13.77211 | 0.095664 | 0 |

4/9/2021 – 4/11/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/9/2021 | 0:00:00 | 10.041 | 32.94291 | 609.44 | 0.445414 | 0.055057 | 0.193088 | 0 |
| 4/9/2021 | 1:00:00 | 10.038 | 32.93307 | 608.47 | 0.435572 | 0.050901 | 0.192894 | 0 |
| 4/9/2021 | 2:00:00 | 10.037 | 32.92979 | 608.35 | 0.432291 | 0.049566 | 0.19287 | 0 |
| 4/9/2021 | 3:00:00 | 10.039 | 32.93635 | 604.41 | 0.438853 | 0.05226 | 0.192082 | 0 |
| 4/9/2021 | 4:00:00 | 10.042 | 32.9462 | 605.7 | 0.448695 | 0.056495 | 0.19234 | 0 |
| 4/9/2021 | 5:00:00 | 10.045 | 32.95604 | 605.39 | 0.458538 | 0.06097 | 0.192278 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 4/9/2021 | 6:00:00 | 10.144 | 33.28084 | 534.76 | 0.783341 | 0.400111 | 0.178152 | 0 |
| 4/9/2021 | 7:00:00 | 10.145 | 33.28412 | 241.66 | 0.786622 | 0.406029 | 0.119532 | 0 |
| 4/9/2021 | 8:00:00 | 10.138 | 33.26116 | 573.92 | 0.763656 | 0.365889 | 0.185984 | 0 |
| 4/9/2021 | 9:00:00 | 10.147 | 33.29068 | 472.7 | 0.793183 | 0.418053 | 0.16574 | 0 |
| 4/9/2021 | 10:00:00 | 10.134 | 33.24803 | 770.22 | 0.750533 | 0.344273 | 0.225244 | 0 |
| 4/9/2021 | 11:00:00 | 10.147 | 33.29068 | 503.29 | 0.793183 | 0.418053 | 0.171858 | 0 |
| 4/9/2021 | 12:00:00 | 10.128 | 33.22835 | 870.49 | 0.730848 | 0.313582 | 0.245298 | 0 |
| 4/9/2021 | 13:00:00 | 10.121 | 33.20538 | 835.29 | 0.707882 | 0.28031 | 0.238258 | 0 |
| 4/9/2021 | 14:00:00 | 9.974 | 32.7231 | 900.75 | 0.225598 | 0.005046 | 0.25135 | 0 |
| 4/9/2021 | 15:00:00 | 9.967 | 32.70013 | 902.54 | 0.202632 | 0.003461 | 0.251708 | 0.11023628 |
| 4/9/2021 | 16:00:00 | 9.967 | 32.70013 | 903.64 | 0.202632 | 0.003461 | 0.251928 | 0.07086618 |
| 4/9/2021 | 17:00:00 | 9.952 | 32.65092 | 905.09 | 0.15342 | 0.001302 | 0.252218 | 0.01574804 |
| 4/9/2021 | 18:00:00 | 9.959 | 32.67389 | 905.06 | 0.176386 | 0.002126 | 0.252212 | 0.00787402 |
| 4/9/2021 | 19:00:00 | 10.034 | 32.91995 | 904.52 | 0.422449 | 0.045714 | 0.252104 | 0.22834658 |
| 4/9/2021 | 20:00:00 | 10.149 | 33.29725 | 911.43 | 0.799745 | 0.43033 | 0.253486 | 0.36220492 |
| 4/9/2021 | 21:00:00 | 10.186 | 33.41864 | 915.4 | 0.921136 | 0.706982 | 0.25428 | 0.14960638 |
| 4/9/2021 | 22:00:00 | 10.248 | 33.62205 | 924.55 | 1.124548 | 1.42506 | 0.25611 | 0.00787402 |
| 4/9/2021 | 23:00:00 | 10.295 | 33.77625 | 908.03 | 1.278748 | 2.238144 | 0.252806 | 0 |
| 4/10/2021 | 0:00:00 | 10.297 | 33.78281 | 912.55 | 1.285309 | 2.278751 | 0.25371 | 0 |
| 4/10/2021 | 1:00:00 | 10.303 | 33.80249 | 907.9 | 1.304995 | 2.403736 | 0.25278 | 0 |
| 4/10/2021 | 2:00:00 | 10.297 | 33.78281 | 905.85 | 1.285309 | 2.278751 | 0.25237 | 0 |
| 4/10/2021 | 3:00:00 | 10.291 | 33.76312 | 905.54 | 1.265624 | 2.158485 | 0.252308 | 0 |
| 4/10/2021 | 4:00:00 | 10.293 | 33.76969 | 904.75 | 1.272186 | 2.198056 | 0.25215 | 0 |
| 4/10/2021 | 5:00:00 | 10.289 | 33.75656 | 905.07 | 1.259063 | 2.119426 | 0.252214 | 0 |
| 4/10/2021 | 6:00:00 | 10.29 | 33.75984 | 905.08 | 1.262344 | 2.138892 | 0.252216 | 0 |
| 4/10/2021 | 7:00:00 | 10.291 | 33.76312 | 905.26 | 1.265624 | 2.158485 | 0.252252 | 0 |
| 4/10/2021 | 8:00:00 | 10.285 | 33.74344 | 904.39 | 1.245939 | 2.04283 | 0.252078 | 0 |
| 4/10/2021 | 9:00:00 | 10.282 | 33.7336 | 904.93 | 1.236097 | 1.986697 | 0.252186 | 0 |
| 4/10/2021 | 10:00:00 | 10.289 | 33.75656 | 905.69 | 1.259063 | 2.119426 | 0.252338 | 0 |
| 4/10/2021 | 11:00:00 | 10.289 | 33.75656 | 906.89 | 1.259063 | 2.119426 | 0.252578 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|---|
| 4/10/2021 | 12:00:00 | 10.285 | 33.74344 | 907.7 | 1.245939 | 2.04283 | 0.25274 | 0 |
| 4/10/2021 | 13:00:00 | 10.281 | 33.73032 | 908.69 | 1.232816 | 1.968234 | 0.252938 | 0 |
| 4/10/2021 | 14:00:00 | 10.273 | 33.70407 | 908.69 | 1.206569 | 1.824917 | 0.252938 | 0 |
| 4/10/2021 | 15:00:00 | 10.266 | 33.6811 | 910.17 | 1.183603 | 1.705779 | 0.253234 | 0 |
| 4/10/2021 | 16:00:00 | 10.26 | 33.66142 | 911.75 | 1.163918 | 1.608179 | 0.25355 | 0 |
| 4/10/2021 | 17:00:00 | 10.254 | 33.64173 | 913.18 | 1.144233 | 1.51464 | 0.253836 | 0 |
| 4/10/2021 | 18:00:00 | 10.251 | 33.63189 | 917.42 | 1.134391 | 1.469362 | 0.254684 | 0 |
| 4/10/2021 | 19:00:00 | 10.248 | 33.62205 | 921.15 | 1.124548 | 1.42506 | 0.25543 | 0 |
| 4/10/2021 | 20:00:00 | 10.248 | 33.62205 | 923.57 | 1.124548 | 1.42506 | 0.255914 | 0 |
| 4/10/2021 | 21:00:00 | 10.248 | 33.62205 | 924.01 | 1.124548 | 1.42506 | 0.256002 | 0 |
| 4/10/2021 | 22:00:00 | 10.244 | 33.60892 | 922.64 | 1.111425 | 1.367488 | 0.255728 | 0 |
| 4/10/2021 | 23:00:00 | 10.24 | 33.5958 | 920.39 | 1.098302 | 1.311599 | 0.255278 | 0 |
| 4/11/2021 | 0:00:00 | 10.235 | 33.5794 | 916.91 | 1.081897 | 1.244059 | 0.254582 | 0 |
| 4/11/2021 | 1:00:00 | 10.229 | 33.55971 | 917.38 | 1.062212 | 1.16634 | 0.254676 | 0 |
| 4/11/2021 | 2:00:00 | 10.226 | 33.54987 | 916.53 | 1.05237 | 1.128812 | 0.254506 | 0 |
| 4/11/2021 | 3:00:00 | 10.222 | 33.53675 | 917.05 | 1.039246 | 1.08013 | 0.25461 | 0 |
| 4/11/2021 | 4:00:00 | 10.219 | 33.5269 | 918.12 | 1.029404 | 1.044617 | 0.254824 | 0 |
| 4/11/2021 | 5:00:00 | 10.222 | 33.53675 | 918.21 | 1.039246 | 1.08013 | 0.254842 | 0 |
| 4/11/2021 | 6:00:00 | 10.219 | 33.5269 | 918.03 | 1.029404 | 1.044617 | 0.254806 | 0 |
| 4/11/2021 | 7:00:00 | 10.221 | 33.53347 | 917.65 | 1.035966 | 1.068198 | 0.25473 | 0 |
| 4/11/2021 | 8:00:00 | 10.217 | 33.52034 | 918.01 | 1.022842 | 1.021412 | 0.254802 | 0 |
| 4/11/2021 | 9:00:00 | 10.216 | 33.51706 | 918.14 | 1.019561 | 1.009948 | 0.254828 | 0 |
| 4/11/2021 | 10:00:00 | 10.212 | 33.50394 | 917.82 | 1.006438 | 0.965013 | 0.254764 | 0 |
| 4/11/2021 | 11:00:00 | 10.201 | 33.46785 | 918.2 | 0.970349 | 0.848825 | 0.25484 | 0 |
| 4/11/2021 | 12:00:00 | 10.193 | 33.4416 | 918.03 | 0.944102 | 0.77087 | 0.254806 | 0 |

5/3/2021 – 5/5/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/3/2021 | 7:16:26 | 9.941 | 32.61483 | 33.57 | 0.11733 | 0.000508 | 0.077914 | 0 |
| 5/3/2021 | 8:16:26 | 9.944 | 32.62467 | 33.96 | 0.127173 | 0.000674 | 0.077992 | 0 |
| 5/3/2021 | 9:16:26 | 9.96 | 32.67717 | 33.76 | 0.179666 | 0.002268 | 0.077952 | 0 |
| 5/3/2021 | 10:16:26 | 9.97 | 32.70997 | 34.14 | 0.212475 | 0.004088 | 0.078028 | 0 |
| 5/3/2021 | 11:16:26 | 9.975 | 32.72638 | 33.37 | 0.228879 | 0.005309 | 0.077874 | 0 |
| 5/3/2021 | 12:16:26 | 9.979 | 32.7395 | 33.34 | 0.242002 | 0.006457 | 0.077868 | 0 |
| 5/3/2021 | 13:16:26 | 9.98 | 32.74278 | 33.45 | 0.245283 | 0.00677 | 0.07789 | 0 |
| 5/3/2021 | 14:16:26 | 9.981 | 32.74606 | 33.75 | 0.248564 | 0.007093 | 0.07795 | 0 |
| 5/3/2021 | 15:16:26 | 9.982 | 32.74934 | 34.54 | 0.251845 | 0.007428 | 0.078108 | 0 |
| 5/3/2021 | 16:16:26 | 9.983 | 32.75263 | 34.49 | 0.255126 | 0.007773 | 0.078098 | 0 |
| 5/3/2021 | 17:16:26 | 9.987 | 32.76575 | 35.35 | 0.268249 | 0.009271 | 0.07827 | 0 |
| 5/3/2021 | 18:16:26 | 9.988 | 32.76903 | 36.53 | 0.27153 | 0.009676 | 0.078506 | 0 |
| 5/3/2021 | 19:16:26 | 9.981 | 32.74606 | 36.12 | 0.248564 | 0.007093 | 0.078424 | 0 |
| 5/3/2021 | 20:16:26 | 9.992 | 32.78215 | 35.8 | 0.284653 | 0.011421 | 0.07836 | 0 |
| 5/3/2021 | 21:16:26 | 9.995 | 32.792 | 35.39 | 0.294496 | 0.01287 | 0.078278 | 0 |
| 5/3/2021 | 22:16:26 | 10.006 | 32.82809 | 35.26 | 0.330585 | 0.019317 | 0.078252 | 0.00787402 |
| 5/3/2021 | 23:16:26 | 10.047 | 32.9626 | 738.67 | 0.465099 | 0.064091 | 0.218934 | 0.34645688 |
| 5/4/2021 | 0:16:26 | 10.057 | 32.99541 | 650.57 | 0.497908 | 0.081432 | 0.201314 | 0.22047256 |
| 5/4/2021 | 1:16:26 | 10.049 | 32.96916 | 597.36 | 0.471661 | 0.067324 | 0.190672 | 0 |
| 5/4/2021 | 2:16:26 | 10.06 | 33.00525 | 495.86 | 0.50775 | 0.087229 | 0.170372 | 0 |
| 5/4/2021 | 3:16:26 | 10.067 | 33.02822 | 409.16 | 0.530716 | 0.101896 | 0.153032 | 0 |
| 5/4/2021 | 4:16:26 | 10.068 | 33.0315 | 246.44 | 0.533997 | 0.104126 | 0.120488 | 0 |
| 5/4/2021 | 5:16:26 | 10.061 | 33.00853 | 78.72 | 0.511031 | 0.089225 | 0.086944 | 0.00787402 |
| 5/4/2021 | 6:16:26 | 10.064 | 33.01837 | 51.15 | 0.520874 | 0.09541 | 0.08143 | 0 |
| 5/4/2021 | 7:16:26 | 10.071 | 33.04134 | 49.4 | 0.54384 | 0.111026 | 0.08108 | 0.00787402 |
| 5/4/2021 | 8:16:26 | 10.089 | 33.10039 | 47.24 | 0.602895 | 0.159481 | 0.080648 | 0.00787402 |
| 5/4/2021 | 9:16:26 | 10.106 | 33.15617 | 48.13 | 0.658669 | 0.217622 | 0.080826 | 0.16535442 |

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|----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 5/4/2021 | 10:16:26 | 10.137 | 33.25788 | 209.33 | 0.760375 | 0.360397 | 0.113066 | 0.16535442 |
| 5/4/2021 | 11:16:26 | 10.194 | 33.44488 | 101.72 | 0.947383 | 0.780322 | 0.091544 | 0.11023628 |
| 5/4/2021 | 12:16:26 | 10.243 | 33.60564 | 84.58 | 1.108144 | 1.353359 | 0.088116 | 0.03149608 |
| 5/4/2021 | 13:16:26 | 10.265 | 33.67782 | 60.56 | 1.180323 | 1.689226 | 0.083312 | 0.01574804 |
| 5/4/2021 | 14:16:26 | 10.281 | 33.73032 | 82.36 | 1.232816 | 1.968234 | 0.087672 | 0 |
| 5/4/2021 | 15:16:26 | 10.338 | 33.91732 | 72.45 | 1.419824 | 3.232637 | 0.08569 | 0 |
| 5/4/2021 | 16:16:26 | 10.391 | 34.09121 | 69.79 | 1.593708 | 4.850924 | 0.085158 | 0 |
| 5/4/2021 | 17:16:26 | 10.411 | 34.15683 | 63.24 | 1.659325 | 5.589633 | 0.083848 | 0 |
| 5/4/2021 | 18:16:26 | 10.421 | 34.18963 | 57.22 | 1.692134 | 5.98764 | 0.082644 | 0 |
| 5/4/2021 | 19:16:26 | 10.413 | 34.16339 | 53.84 | 1.665887 | 5.667673 | 0.081968 | 0 |
| 5/4/2021 | 20:16:26 | 10.392 | 34.09449 | 49.66 | 1.596989 | 4.886098 | 0.081132 | 0 |
| 5/4/2021 | 21:16:26 | 10.363 | 33.99934 | 47.12 | 1.501845 | 3.937708 | 0.080624 | 0 |
| 5/4/2021 | 22:16:26 | 10.33 | 33.89108 | 45.73 | 1.393577 | 3.027531 | 0.080346 | 0 |
| 5/4/2021 | 23:16:26 | 10.308 | 33.8189 | 44.77 | 1.321399 | 2.511574 | 0.080154 | 0 |
| 5/5/2021 | 0:16:26 | 10.296 | 33.77953 | 43.28 | 1.282029 | 2.258382 | 0.079856 | 0 |
| 5/5/2021 | 1:16:26 | 10.278 | 33.72047 | 42.15 | 1.222974 | 1.913581 | 0.07963 | 0 |
| 5/5/2021 | 2:16:26 | 10.27 | 33.69423 | 41.54 | 1.196727 | 1.773153 | 0.079508 | 0 |
| 5/5/2021 | 3:16:26 | 10.257 | 33.65158 | 41.63 | 1.154076 | 1.560909 | 0.079526 | 0 |
| 5/5/2021 | 4:16:26 | 10.245 | 33.61221 | 41.37 | 1.114706 | 1.381722 | 0.079474 | 0.00787402 |
| 5/5/2021 | 5:16:26 | 10.233 | 33.57284 | 41.49 | 1.075336 | 1.217753 | 0.079498 | 0 |
| 5/5/2021 | 6:16:26 | 10.233 | 33.57284 | 42.41 | 1.075336 | 1.217753 | 0.079682 | 0 |
| 5/5/2021 | 7:16:26 | 10.236 | 33.58268 | 42.22 | 1.085178 | 1.257363 | 0.079644 | 0 |
| 5/5/2021 | 8:16:26 | 10.237 | 33.58596 | 42.53 | 1.088459 | 1.270769 | 0.079706 | 0 |
| 5/5/2021 | 9:16:26 | 10.243 | 33.60564 | 41.48 | 1.108144 | 1.353359 | 0.079496 | 0 |
| 5/5/2021 | 10:16:26 | 10.242 | 33.60236 | 41.51 | 1.104863 | 1.339335 | 0.079502 | 0 |
| 5/5/2021 | 11:16:26 | 10.239 | 33.59252 | 40.92 | 1.095021 | 1.297886 | 0.079384 | 0 |
| 5/5/2021 | 12:16:26 | 10.238 | 33.58924 | 40.45 | 1.09174 | 1.284276 | 0.07929 | 0 |
| 5/5/2021 | 13:16:26 | 10.231 | 33.56627 | 39.48 | 1.068774 | 1.191848 | 0.079096 | 0 |
| 5/5/2021 | 14:16:26 | 10.218 | 33.52362 | 40.05 | 1.026123 | 1.032968 | 0.07921 | 0 |
| 5/5/2021 | 15:16:26 | 10.209 | 33.4941 | 40.5 | 0.996596 | 0.932264 | 0.0793 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|---|
| 5/5/2021 | 16:16:26 | 10.204 | 33.47769 | 40.14 | 0.980191 | 0.87946 | 0.079228 | 0 |
| 5/5/2021 | 17:16:26 | 10.206 | 33.48425 | 39.93 | 0.986753 | 0.900317 | 0.079186 | 0 |
| 5/5/2021 | 18:16:26 | 10.202 | 33.47113 | 40.06 | 0.97363 | 0.858951 | 0.079212 | 0 |
| 5/5/2021 | 19:16:26 | 10.189 | 33.42848 | 40.84 | 0.930979 | 0.733879 | 0.079368 | 0 |
| 5/5/2021 | 20:16:26 | 10.18 | 33.39895 | 41.2 | 0.901451 | 0.655314 | 0.07944 | 0 |
| 5/5/2021 | 21:16:26 | 10.181 | 33.40223 | 41.52 | 0.904732 | 0.663731 | 0.079504 | 0 |
| 5/5/2021 | 22:16:26 | 10.191 | 33.43504 | 41.79 | 0.93754 | 0.752212 | 0.079558 | 0 |

5/16/2021 – 5/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/16/2021 | 16:16:26 | 10.03 | 32.90683 | 41.79 | 0.409325 | 0.040917 | 0.079558 | 0 |
| 5/16/2021 | 17:16:26 | 10.028 | 32.90026 | 48.33 | 0.402764 | 0.038658 | 0.080866 | 0 |
| 5/16/2021 | 18:16:26 | 10.025 | 32.89042 | 59.58 | 0.392921 | 0.03544 | 0.083116 | 0.01574804 |
| 5/16/2021 | 19:16:26 | 10.017 | 32.86417 | 54.15 | 0.366674 | 0.027798 | 0.08203 | 0 |
| 5/16/2021 | 20:16:26 | 10.019 | 32.87074 | 58.79 | 0.373236 | 0.029585 | 0.082958 | 0 |
| 5/16/2021 | 21:16:26 | 10.019 | 32.87074 | 64.63 | 0.373236 | 0.029585 | 0.084126 | 0 |
| 5/16/2021 | 22:16:26 | 10.023 | 32.88386 | 68.51 | 0.386359 | 0.033404 | 0.084902 | 0.00787402 |
| 5/16/2021 | 23:16:26 | 10.022 | 32.88058 | 74.37 | 0.383078 | 0.032418 | 0.086074 | 0.03149608 |
| 5/17/2021 | 0:16:26 | 10.019 | 32.87074 | 75.33 | 0.373236 | 0.029585 | 0.086266 | 0.02362206 |
| 5/17/2021 | 1:16:26 | 10.008 | 32.83465 | 67.79 | 0.337147 | 0.020698 | 0.084758 | 0.12598432 |
| 5/17/2021 | 2:16:26 | 10.019 | 32.87074 | 271.63 | 0.373236 | 0.029585 | 0.125526 | 0.41732306 |
| 5/17/2021 | 3:16:26 | 10.068 | 33.0315 | 361.23 | 0.533997 | 0.104126 | 0.143446 | 0.32283482 |
| 5/17/2021 | 4:16:26 | 10.158 | 33.32677 | 49.44 | 0.829273 | 0.488785 | 0.081088 | 0.02362206 |
| 5/17/2021 | 5:16:26 | 10.2 | 33.46457 | 48.32 | 0.967068 | 0.838786 | 0.080864 | 0.00787402 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 5/17/2021 | 6:16:26 | 10.206 | 33.48425 | 49.5 | 0.986753 | 0.900317 | 0.0811 | 0 |
| 5/17/2021 | 7:16:26 | 10.197 | 33.45473 | 51.41 | 0.957225 | 0.809176 | 0.081482 | 0 |
| 5/17/2021 | 8:16:26 | 10.21 | 33.49738 | 49.21 | 0.999876 | 0.94309 | 0.081042 | 0 |
| 5/17/2021 | 9:16:26 | 10.255 | 33.64501 | 48.58 | 1.147514 | 1.529953 | 0.080916 | 0 |
| 5/17/2021 | 10:16:26 | 10.314 | 33.83858 | 48.03 | 1.341084 | 2.645497 | 0.080806 | 0 |
| 5/17/2021 | 11:16:26 | 10.354 | 33.96982 | 47.64 | 1.472317 | 3.672381 | 0.080728 | 0 |
| 5/17/2021 | 12:16:26 | 10.359 | 33.98622 | 46.32 | 1.488722 | 3.81815 | 0.080464 | 0 |
| 5/17/2021 | 13:16:26 | 10.342 | 33.93045 | 43.9 | 1.432947 | 3.33883 | 0.07998 | 0 |
| 5/17/2021 | 14:16:26 | 10.313 | 33.8353 | 41.33 | 1.337803 | 2.62283 | 0.079466 | 0 |
| 5/17/2021 | 15:16:26 | 10.268 | 33.68767 | 39.23 | 1.190165 | 1.739232 | 0.079046 | 0 |
| 5/17/2021 | 16:16:26 | 10.238 | 33.58924 | 38.7 | 1.09174 | 1.284276 | 0.07894 | 0 |
| 5/17/2021 | 17:16:26 | 10.218 | 33.52362 | 36.96 | 1.026123 | 1.032968 | 0.078592 | 0 |
| 5/17/2021 | 18:16:26 | 10.203 | 33.47441 | 58.95 | 0.976911 | 0.869162 | 0.08299 | 0 |
| 5/17/2021 | 19:16:26 | 10.195 | 33.44816 | 36.52 | 0.950664 | 0.789857 | 0.078504 | 0 |
| 5/17/2021 | 20:16:26 | 10.178 | 33.39239 | 37.23 | 0.89489 | 0.638709 | 0.078646 | 0 |
| 5/17/2021 | 21:16:26 | 10.178 | 33.39239 | 39.07 | 0.89489 | 0.638709 | 0.079014 | 0 |
| 5/17/2021 | 22:16:26 | 10.169 | 33.36286 | 37.99 | 0.865362 | 0.56769 | 0.078798 | 0 |
| 5/17/2021 | 23:16:26 | 10.152 | 33.30709 | 38.74 | 0.809588 | 0.449225 | 0.078948 | 0 |
| 5/18/2021 | 0:16:26 | 10.145 | 33.28412 | 38.69 | 0.786622 | 0.406029 | 0.078938 | 0 |
| 5/18/2021 | 1:16:26 | 10.141 | 33.271 | 39.19 | 0.773498 | 0.382727 | 0.079038 | 0 |
| 5/18/2021 | 2:16:26 | 10.136 | 33.25459 | 39.94 | 0.757094 | 0.354963 | 0.079188 | 0 |
| 5/18/2021 | 3:16:26 | 10.128 | 33.22835 | 41.31 | 0.730848 | 0.313582 | 0.079462 | 0 |
| 5/18/2021 | 4:16:26 | 10.123 | 33.21194 | 41.72 | 0.714443 | 0.289545 | 0.079544 | 0 |
| 5/18/2021 | 5:16:26 | 10.114 | 33.18242 | 43.05 | 0.684916 | 0.249643 | 0.07981 | 0 |
| 5/18/2021 | 6:16:26 | 10.106 | 33.15617 | 42.02 | 0.658669 | 0.217622 | 0.079604 | 0 |
| 5/18/2021 | 7:16:26 | 10.103 | 33.14633 | 42.66 | 0.648827 | 0.20641 | 0.079732 | 0 |
| 5/18/2021 | 8:16:26 | 10.119 | 33.19882 | 46.18 | 0.70132 | 0.271288 | 0.080436 | 0 |
| 5/18/2021 | 9:16:26 | 10.127 | 33.22507 | 45.46 | 0.727567 | 0.308665 | 0.080292 | 0 |
| 5/18/2021 | 10:16:26 | 10.126 | 33.22179 | 45.1 | 0.724286 | 0.303803 | 0.08022 | 0 |

5/27/2021 – 5/28/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/27/2021 | 7:16:26 | 10.039 | 32.93635 | 85.99 | 0.438853 | 0.05226 | 0.088398 | 0 |
| 5/27/2021 | 8:16:26 | 10.039 | 32.93635 | 85.9 | 0.438853 | 0.05226 | 0.08838 | 0 |
| 5/27/2021 | 9:16:26 | 10.04 | 32.93963 | 81.7 | 0.442134 | 0.053646 | 0.08754 | 0 |
| 5/27/2021 | 10:16:26 | 10.04 | 32.93963 | 78.7 | 0.442134 | 0.053646 | 0.08694 | 0.3149608 |
| 5/27/2021 | 11:16:26 | 10.061 | 33.00853 | 143.08 | 0.511031 | 0.089225 | 0.099816 | 0.02362206 |
| 5/27/2021 | 12:16:26 | 10.087 | 33.09383 | 98.85 | 0.596333 | 0.153466 | 0.09097 | 0.16141741 |
| 5/27/2021 | 13:16:26 | 10.164 | 33.34646 | 261.32 | 0.848958 | 0.530776 | 0.123464 | 0.67716572 |
| 5/27/2021 | 14:16:26 | 10.405 | 34.13714 | 49.64 | 1.63964 | 5.360127 | 0.081128 | 0.09448824 |
| 5/27/2021 | 15:16:26 | 10.71 | 35.1378 | 72.81 | 2.640296 | 28.57919 | 0.085762 | 0.00787402 |
| 5/27/2021 | 16:16:26 | 10.75 | 35.26903 | 62.78 | 2.77153 | 33.8891 | 0.083756 | 0.13385834 |
| 5/27/2021 | 17:16:26 | 10.757 | 35.292 | 58.53 | 2.794496 | 34.88596 | 0.082906 | 0.10236226 |
| 5/27/2021 | 18:16:26 | 10.75 | 35.26903 | 49.76 | 2.77153 | 33.8891 | 0.081152 | 0.00787402 |
| 5/27/2021 | 19:16:26 | 10.74 | 35.23622 | 47.16 | 2.738722 | 32.5006 | 0.080632 | 0 |
| 5/27/2021 | 20:16:26 | 10.654 | 34.95407 | 47.8 | 2.456569 | 22.18231 | 0.08076 | 0 |
| 5/27/2021 | 21:16:26 | 10.615 | 34.82612 | 55.71 | 2.328617 | 18.38205 | 0.082342 | 0 |
| 5/27/2021 | 22:16:26 | 10.511 | 34.48491 | 55.18 | 1.987409 | 10.5355 | 0.082236 | 0 |
| 5/27/2021 | 23:16:26 | 10.451 | 34.28806 | 53.79 | 1.790559 | 7.30325 | 0.081958 | 0 |
| 5/28/2021 | 0:16:26 | 10.443 | 34.26181 | 63.27 | 1.764312 | 6.934035 | 0.083854 | 0 |
| 5/28/2021 | 1:16:26 | 10.946 | 35.91207 | 99.27 | 3.414575 | 70.53534 | 0.091054 | 0 |
| 5/28/2021 | 2:16:26 | 10.846 | 35.58399 | 75.76 | 3.086491 | 49.46309 | 0.086352 | 0 |
| 5/28/2021 | 3:16:26 | 10.733 | 35.21326 | 72.42 | 2.715756 | 31.55319 | 0.085684 | 0 |
| 5/28/2021 | 4:16:26 | 10.647 | 34.9311 | 68.22 | 2.433603 | 21.46229 | 0.084844 | 0 |
| 5/28/2021 | 5:16:26 | 10.571 | 34.68176 | 66.73 | 2.18426 | 14.68087 | 0.084546 | 0 |
| 5/28/2021 | 6:16:26 | 10.512 | 34.48819 | 64.92 | 1.99069 | 10.59672 | 0.084184 | 0 |
| 5/28/2021 | 7:16:26 | 10.472 | 34.35696 | 63.39 | 1.859456 | 8.339153 | 0.083878 | 0 |
| 5/28/2021 | 8:16:26 | 10.45 | 34.28478 | 61.86 | 1.787278 | 7.256346 | 0.083572 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 5/28/2021 | 9:16:26 | 10.43 | 34.21916 | 59.74 | 1.721661 | 6.362822 | 0.083148 | 0 |
| 5/28/2021 | 10:16:26 | 10.413 | 34.16339 | 58.44 | 1.665887 | 5.667673 | 0.082888 | 0 |

6/25/2021 – 7/2/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 6/25/2021 | 12:16:26 | 9.99 | 32.77559 | 18.31 | 0.278092 | 0.010522 | 0.074862 | 0 |
| 6/25/2021 | 13:16:26 | 9.989 | 32.77231 | 18.37 | 0.274811 | 0.010093 | 0.074874 | 0 |
| 6/25/2021 | 14:16:26 | 9.986 | 32.76247 | 18.38 | 0.264968 | 0.008879 | 0.074876 | 0 |
| 6/25/2021 | 15:16:26 | 9.969 | 32.70669 | 18.12 | 0.209194 | 0.00387 | 0.074824 | 0 |
| 6/25/2021 | 16:16:26 | 9.967 | 32.70013 | 18.42 | 0.202632 | 0.003461 | 0.074884 | 0 |
| 6/25/2021 | 17:16:26 | 9.957 | 32.66732 | 18.9 | 0.169824 | 0.001861 | 0.07498 | 0 |
| 6/25/2021 | 18:16:26 | 9.957 | 32.66732 | 17.11 | 0.169824 | 0.001861 | 0.074622 | 0 |
| 6/25/2021 | 19:16:26 | 9.956 | 32.66404 | 17.01 | 0.166543 | 0.001737 | 0.074602 | 0 |
| 6/25/2021 | 20:16:26 | 9.961 | 32.68045 | 17.13 | 0.182947 | 0.002417 | 0.074626 | 0 |
| 6/25/2021 | 21:16:26 | 9.969 | 32.70669 | 17.06 | 0.209194 | 0.00387 | 0.074612 | 0 |
| 6/25/2021 | 22:16:26 | 9.98 | 32.74278 | 17.09 | 0.245283 | 0.00677 | 0.074618 | 0 |
| 6/25/2021 | 23:16:26 | 9.985 | 32.75919 | 17.03 | 0.261687 | 0.008499 | 0.074606 | 0 |
| 6/26/2021 | 0:16:26 | 9.977 | 32.73294 | 17.41 | 0.235441 | 0.005863 | 0.074682 | 5.51 |
| 6/26/2021 | 1:16:26 | 9.968 | 32.70341 | 17.49 | 0.205913 | 0.003661 | 0.074698 | 0 |
| 6/26/2021 | 2:16:26 | 9.967 | 32.70013 | 17.48 | 0.202632 | 0.003461 | 0.074696 | 0 |
| 6/26/2021 | 3:16:26 | 9.998 | 32.80184 | 82.71 | 0.304338 | 0.014445 | 0.087742 | 0 |
| 6/26/2021 | 4:16:26 | 10.04 | 32.93963 | 69.5 | 0.442134 | 0.053646 | 0.0851 | 0 |
| 6/26/2021 | 5:16:26 | 10.14 | 33.26772 | 51.87 | 0.770218 | 0.377054 | 0.081574 | 0 |
| 6/26/2021 | 6:16:26 | 10.2 | 33.46457 | 43.14 | 0.967068 | 0.838786 | 0.079828 | 0 |
| 6/26/2021 | 7:16:26 | 10.265 | 33.67782 | 31.66 | 1.180323 | 1.689226 | 0.077532 | 0 |
| 6/26/2021 | 8:16:26 | 10.36 | 33.9895 | 31.75 | 1.492002 | 3.847792 | 0.07755 | 0 |
| 6/26/2021 | 9:16:26 | 10.534 | 34.56037 | 36.8 | 2.062869 | 12.00914 | 0.07856 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------|
| 6/26/2021 | 10:16:26 | 10.578 | 34.70473 | 35.85 | 2.207226 | 15.23035 | 0.07837 | 0 |
| 6/26/2021 | 11:16:26 | 10.589 | 34.74081 | 34.36 | 2.243315 | 16.12331 | 0.078072 | 0 |
| 6/26/2021 | 12:16:26 | 10.581 | 34.71457 | 30.92 | 2.217068 | 15.47028 | 0.077384 | 0 |
| 6/26/2021 | 13:16:26 | 10.564 | 34.65879 | 30.43 | 2.161294 | 14.14572 | 0.077286 | 0 |
| 6/26/2021 | 14:16:26 | 10.527 | 34.5374 | 28.45 | 2.039903 | 11.54598 | 0.07689 | 0 |
| 6/26/2021 | 15:16:26 | 10.494 | 34.42913 | 29.17 | 1.931635 | 9.532904 | 0.077034 | 0 |
| 6/26/2021 | 16:16:26 | 10.465 | 34.33399 | 28.73 | 1.836491 | 7.982899 | 0.076946 | 0 |
| 6/26/2021 | 17:16:26 | 10.441 | 34.25525 | 28.28 | 1.75775 | 6.84386 | 0.076856 | 0 |
| 6/26/2021 | 18:16:26 | 10.418 | 34.17979 | 27.79 | 1.682291 | 5.866178 | 0.076758 | 0 |
| 6/26/2021 | 19:16:26 | 10.393 | 34.09777 | 27.52 | 1.60027 | 4.921453 | 0.076704 | 0 |
| 6/26/2021 | 20:16:26 | 10.366 | 34.00919 | 28.36 | 1.511687 | 4.029117 | 0.076872 | 0 |
| 6/26/2021 | 21:16:26 | 10.343 | 33.93373 | 28.03 | 1.436228 | 3.365763 | 0.076806 | 0 |
| 6/26/2021 | 22:16:26 | 10.324 | 33.87139 | 28.09 | 1.373892 | 2.879939 | 0.076818 | 0 |
| 6/26/2021 | 23:16:26 | 10.31 | 33.82546 | 28.79 | 1.32796 | 2.555663 | 0.076958 | 0 |
| 6/27/2021 | 0:16:26 | 10.347 | 33.94685 | 30.64 | 1.449351 | 3.475052 | 0.077328 | 0 |
| 6/27/2021 | 1:16:26 | 10.371 | 34.02559 | 30 | 1.528092 | 4.184824 | 0.0772 | 0 |
| 6/27/2021 | 2:16:26 | 10.385 | 34.07152 | 35.84 | 1.574023 | 4.643676 | 0.078368 | 0 |
| 6/27/2021 | 3:16:26 | 10.403 | 34.13058 | 35.82 | 1.633079 | 5.285146 | 0.078364 | 0 |
| 6/27/2021 | 4:16:26 | 10.43 | 34.21916 | 34.3 | 1.721661 | 6.362822 | 0.07806 | 0 |
| 6/27/2021 | 5:16:26 | 10.428 | 34.2126 | 33.11 | 1.7151 | 6.278035 | 0.077822 | 0 |
| 6/27/2021 | 6:16:26 | 10.423 | 34.1962 | 32.2 | 1.698695 | 6.069608 | 0.07764 | 0 |
| 6/27/2021 | 7:16:26 | 10.414 | 34.16667 | 32.01 | 1.669168 | 5.706983 | 0.077602 | 0 |
| 6/27/2021 | 8:16:26 | 10.403 | 34.13058 | 31.84 | 1.633079 | 5.285146 | 0.077568 | 0 |
| 6/27/2021 | 9:16:26 | 10.42 | 34.18635 | 30.98 | 1.688853 | 5.946955 | 0.077396 | 0 |
| 6/27/2021 | 10:16:26 | 10.425 | 34.20276 | 30.41 | 1.705257 | 6.152375 | 0.077282 | 0 |
| 6/27/2021 | 11:16:26 | 10.408 | 34.14698 | 31.74 | 1.649483 | 5.47402 | 0.077548 | 0 |
| 6/27/2021 | 12:16:26 | 10.408 | 34.14698 | 31.01 | 1.649483 | 5.47402 | 0.077402 | 0.54 |
| 6/27/2021 | 13:16:26 | 10.399 | 34.11746 | 30.28 | 1.619955 | 5.137441 | 0.077256 | 0 |
| 6/27/2021 | 14:16:26 | 10.387 | 34.07809 | 30.21 | 1.580585 | 4.71204 | 0.077242 | 0 |
| 6/27/2021 | 15:16:26 | 10.375 | 34.03872 | 29.85 | 1.541215 | 4.312451 | 0.07717 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------|
| 6/27/2021 | 16:16:26 | 10.356 | 33.97638 | 29.64 | 1.478879 | 3.730202 | 0.077128 | 0 |
| 6/27/2021 | 17:16:26 | 10.341 | 33.92717 | 29.67 | 1.429666 | 3.312051 | 0.077134 | 0 |
| 6/27/2021 | 18:16:26 | 10.324 | 33.87139 | 29.62 | 1.373892 | 2.879939 | 0.077124 | 0 |
| 6/27/2021 | 19:16:26 | 10.316 | 33.84515 | 30.17 | 1.347645 | 2.69125 | 0.077234 | 0 |
| 6/27/2021 | 20:16:26 | 10.308 | 33.8189 | 30.62 | 1.321399 | 2.511574 | 0.077324 | 0 |
| 6/27/2021 | 21:16:26 | 10.313 | 33.8353 | 33.16 | 1.337803 | 2.62283 | 0.077832 | 0 |
| 6/27/2021 | 22:16:26 | 10.322 | 33.86483 | 32.56 | 1.36733 | 2.831908 | 0.077712 | 0 |
| 6/27/2021 | 23:16:26 | 10.314 | 33.83858 | 33.57 | 1.341084 | 2.645497 | 0.077914 | 0 |
| 6/28/2021 | 0:16:26 | 10.296 | 33.77953 | 35.1 | 1.282029 | 2.258382 | 0.07822 | 0 |
| 6/28/2021 | 1:16:26 | 10.278 | 33.72047 | 35.27 | 1.222974 | 1.913581 | 0.078254 | 0 |
| 6/28/2021 | 2:16:26 | 10.262 | 33.66798 | 35.77 | 1.17048 | 1.640256 | 0.078354 | 0 |
| 6/28/2021 | 3:16:26 | 10.254 | 33.64173 | 36.71 | 1.144233 | 1.51464 | 0.078542 | 0 |
| 6/28/2021 | 4:16:26 | 10.254 | 33.64173 | 37.13 | 1.144233 | 1.51464 | 0.078626 | 0 |
| 6/28/2021 | 5:16:26 | 10.254 | 33.64173 | 38.32 | 1.144233 | 1.51464 | 0.078864 | 0 |
| 6/28/2021 | 6:16:26 | 10.253 | 33.63845 | 38.36 | 1.140953 | 1.499438 | 0.078872 | 0 |
| 6/28/2021 | 7:16:26 | 10.251 | 33.63189 | 38.79 | 1.134391 | 1.469362 | 0.078958 | 0 |
| 6/28/2021 | 8:16:26 | 10.255 | 33.64501 | 38.96 | 1.147514 | 1.529953 | 0.078992 | 0 |
| 6/28/2021 | 9:16:26 | 10.251 | 33.63189 | 39.26 | 1.134391 | 1.469362 | 0.079052 | 0 |
| 6/28/2021 | 10:16:26 | 10.249 | 33.62533 | 40.37 | 1.127829 | 1.43972 | 0.079274 | 0 |
| 6/28/2021 | 11:16:26 | 10.245 | 33.61221 | 40.11 | 1.114706 | 1.381722 | 0.079222 | 0 |
| 6/28/2021 | 12:16:26 | 10.241 | 33.59908 | 39.51 | 1.101582 | 1.325415 | 0.079102 | 0.47 |
| 6/28/2021 | 13:16:26 | 10.237 | 33.58596 | 38.42 | 1.088459 | 1.270769 | 0.078884 | 0 |
| 6/28/2021 | 14:16:26 | 10.229 | 33.55971 | 39.7 | 1.062212 | 1.16634 | 0.07914 | 0 |
| 6/28/2021 | 15:16:26 | 10.223 | 33.54003 | 39.38 | 1.042527 | 1.092157 | 0.079076 | 0 |
| 6/28/2021 | 16:16:26 | 10.229 | 33.55971 | 45.11 | 1.062212 | 1.16634 | 0.080222 | 0 |
| 6/28/2021 | 17:16:26 | 10.233 | 33.57284 | 42.19 | 1.075336 | 1.217753 | 0.079638 | 0 |
| 6/28/2021 | 18:16:26 | 10.239 | 33.59252 | 41.62 | 1.095021 | 1.297886 | 0.079524 | 0 |
| 6/28/2021 | 19:16:26 | 10.242 | 33.60236 | 42.66 | 1.104863 | 1.339335 | 0.079732 | 0 |
| 6/28/2021 | 20:16:26 | 10.24 | 33.5958 | 42.43 | 1.098302 | 1.311599 | 0.079686 | 0 |
| 6/28/2021 | 21:16:26 | 10.24 | 33.5958 | 39.85 | 1.098302 | 1.311599 | 0.07917 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 6/28/2021 | 22:16:26 | 10.243 | 33.60564 | 42.77 | 1.108144 | 1.353359 | 0.079754 | 0 |
| 6/28/2021 | 23:16:26 | 10.253 | 33.63845 | 43.01 | 1.140953 | 1.499438 | 0.079802 | 0 |
| 6/29/2021 | 0:16:26 | 10.261 | 33.6647 | 41.66 | 1.167199 | 1.624161 | 0.079532 | 0 |
| 6/29/2021 | 1:16:26 | 10.261 | 33.6647 | 39.98 | 1.167199 | 1.624161 | 0.079196 | 0 |
| 6/29/2021 | 2:16:26 | 10.26 | 33.66142 | 41.52 | 1.163918 | 1.608179 | 0.079504 | 0 |
| 6/29/2021 | 3:16:26 | 10.255 | 33.64501 | 42.18 | 1.147514 | 1.529953 | 0.079636 | 0 |
| 6/29/2021 | 4:16:26 | 10.254 | 33.64173 | 42.5 | 1.144233 | 1.51464 | 0.0797 | 0 |
| 6/29/2021 | 5:16:26 | 10.255 | 33.64501 | 38.2 | 1.147514 | 1.529953 | 0.07884 | 0 |
| 6/29/2021 | 6:16:26 | 10.263 | 33.67126 | 38.29 | 1.173761 | 1.656465 | 0.078858 | 0 |
| 6/29/2021 | 7:16:26 | 10.269 | 33.69095 | 38.39 | 1.193446 | 1.756134 | 0.078878 | 0 |
| 6/29/2021 | 8:16:26 | 10.276 | 33.71391 | 38.97 | 1.216412 | 1.877754 | 0.078994 | 0 |
| 6/29/2021 | 9:16:26 | 10.279 | 33.72375 | 39.74 | 1.226254 | 1.931676 | 0.079148 | 0 |
| 6/29/2021 | 10:16:26 | 10.279 | 33.72375 | 39.15 | 1.226254 | 1.931676 | 0.07903 | 0 |
| 6/29/2021 | 11:16:26 | 10.294 | 33.77297 | 36.97 | 1.275467 | 2.218035 | 0.078594 | 0 |
| 6/29/2021 | 12:16:26 | 10.288 | 33.75328 | 36.9 | 1.255782 | 2.100088 | 0.07858 | 0 |
| 6/29/2021 | 13:16:26 | 10.275 | 33.71063 | 37.37 | 1.213131 | 1.860022 | 0.078674 | 0 |
| 6/29/2021 | 14:16:26 | 10.263 | 33.67126 | 37.48 | 1.173761 | 1.656465 | 0.078696 | 0 |
| 6/29/2021 | 15:16:26 | 10.258 | 33.65486 | 37.55 | 1.157357 | 1.576553 | 0.07871 | 0 |
| 6/29/2021 | 16:16:26 | 10.249 | 33.62533 | 36.82 | 1.127829 | 1.43972 | 0.078564 | 0 |
| 6/29/2021 | 17:16:26 | 10.242 | 33.60236 | 37.4 | 1.104863 | 1.339335 | 0.07868 | 0 |
| 6/29/2021 | 18:16:26 | 10.234 | 33.57612 | 37.71 | 1.078617 | 1.230856 | 0.078742 | 0 |
| 6/29/2021 | 19:16:26 | 10.23 | 33.56299 | 38.11 | 1.065493 | 1.179045 | 0.078822 | 0 |
| 6/29/2021 | 20:16:26 | 10.227 | 33.55315 | 40.36 | 1.055651 | 1.141224 | 0.079272 | 0 |
| 6/29/2021 | 21:16:26 | 10.224 | 33.54331 | 35.62 | 1.045808 | 1.104279 | 0.078324 | 0 |
| 6/29/2021 | 22:16:26 | 10.226 | 33.54987 | 35.72 | 1.05237 | 1.128812 | 0.078344 | 0 |
| 6/29/2021 | 23:16:26 | 10.22 | 33.53018 | 37.01 | 1.032685 | 1.05636 | 0.078602 | 0 |
| 6/30/2021 | 0:16:26 | 10.214 | 33.5105 | 37 | 1.013 | 0.987298 | 0.0786 | 0 |
| 6/30/2021 | 1:16:26 | 10.206 | 33.48425 | 36.84 | 0.986753 | 0.900317 | 0.078568 | 0 |
| 6/30/2021 | 2:16:26 | 10.198 | 33.45801 | 37.62 | 0.960506 | 0.818961 | 0.078724 | 0 |
| 6/30/2021 | 3:16:26 | 10.193 | 33.4416 | 37.13 | 0.944102 | 0.77087 | 0.078626 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------|
| 6/30/2021 | 4:16:26 | 10.187 | 33.42192 | 36.7 | 0.924417 | 0.715867 | 0.07854 | 0 |
| 6/30/2021 | 5:16:26 | 10.185 | 33.41536 | 36.87 | 0.917855 | 0.698175 | 0.078574 | 0 |
| 6/30/2021 | 6:16:26 | 10.184 | 33.41207 | 37.78 | 0.914575 | 0.689447 | 0.078756 | 0 |
| 6/30/2021 | 7:16:26 | 10.184 | 33.41207 | 36.11 | 0.914575 | 0.689447 | 0.078422 | 0 |
| 6/30/2021 | 8:16:26 | 10.186 | 33.41864 | 36.39 | 0.921136 | 0.706982 | 0.078478 | 0 |
| 6/30/2021 | 9:16:26 | 10.186 | 33.41864 | 36.73 | 0.921136 | 0.706982 | 0.078546 | 0 |
| 6/30/2021 | 10:16:26 | 10.184 | 33.41207 | 36.76 | 0.914575 | 0.689447 | 0.078552 | 0 |
| 6/30/2021 | 11:16:26 | 10.184 | 33.41207 | 37.35 | 0.914575 | 0.689447 | 0.07867 | 0 |
| 6/30/2021 | 12:16:26 | 10.177 | 33.38911 | 37.98 | 0.891609 | 0.63052 | 0.078796 | 0.25 |
| 6/30/2021 | 13:16:26 | 10.173 | 33.37599 | 37.83 | 0.878485 | 0.598516 | 0.078766 | 0 |
| 6/30/2021 | 14:16:26 | 10.17 | 33.36614 | 38.09 | 0.868643 | 0.575288 | 0.078818 | 0 |
| 6/30/2021 | 15:16:26 | 10.209 | 33.4941 | 52.95 | 0.996596 | 0.932264 | 0.08179 | 0 |
| 6/30/2021 | 16:16:26 | 10.248 | 33.62205 | 49.39 | 1.124548 | 1.42506 | 0.081078 | 0 |
| 6/30/2021 | 17:16:26 | 10.279 | 33.72375 | 55.73 | 1.226254 | 1.931676 | 0.082346 | 0 |
| 6/30/2021 | 18:16:26 | 10.424 | 34.19948 | 46.62 | 1.701976 | 6.110891 | 0.080524 | 0 |
| 6/30/2021 | 19:16:26 | 10.554 | 34.62599 | 54.8 | 2.128485 | 13.40562 | 0.08216 | 0 |
| 6/30/2021 | 20:16:26 | 10.585 | 34.72769 | 50.44 | 2.230191 | 15.79438 | 0.081288 | 0 |
| 6/30/2021 | 21:16:26 | 10.616 | 34.8294 | 45.61 | 2.331897 | 18.47319 | 0.080322 | 0 |
| 6/30/2021 | 22:16:26 | 10.603 | 34.78675 | 42.68 | 2.289247 | 17.31322 | 0.079736 | 0 |
| 6/30/2021 | 23:16:26 | 10.558 | 34.63911 | 40.8 | 2.141609 | 13.69825 | 0.07936 | 0 |
| 7/1/2021 | 0:16:26 | 10.57 | 34.67848 | 45.15 | 2.180979 | 14.60354 | 0.08023 | 0 |
| 7/1/2021 | 1:16:26 | 10.592 | 34.75066 | 51.47 | 2.253157 | 16.37321 | 0.081494 | 0 |
| 7/1/2021 | 2:16:26 | 10.594 | 34.75722 | 52.49 | 2.259719 | 16.54133 | 0.081698 | 0 |
| 7/1/2021 | 3:16:26 | 10.587 | 34.73425 | 55.16 | 2.236753 | 15.95824 | 0.082232 | 0 |
| 7/1/2021 | 4:16:26 | 10.582 | 34.71785 | 54.55 | 2.220349 | 15.55086 | 0.08211 | 0 |
| 7/1/2021 | 5:16:26 | 10.57 | 34.67848 | 56.13 | 2.180979 | 14.60354 | 0.082426 | 0 |
| 7/1/2021 | 6:16:26 | 10.557 | 34.63583 | 55.39 | 2.138328 | 13.62467 | 0.082278 | 0 |
| 7/1/2021 | 7:16:26 | 10.539 | 34.57677 | 55.25 | 2.079273 | 12.348 | 0.08225 | 0 |
| 7/1/2021 | 8:16:26 | 10.516 | 34.50131 | 53.99 | 2.003813 | 10.84418 | 0.081998 | 0 |
| 7/1/2021 | 9:16:26 | 10.499 | 34.44554 | 53.29 | 1.948039 | 9.820363 | 0.081858 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|-----|
| 7/1/2021 | 10:16:26 | 10.484 | 34.39633 | 54.15 | 1.898827 | 8.976119 | 0.08203 | 0 |
| 7/1/2021 | 11:16:26 | 10.471 | 34.35368 | 52.59 | 1.856176 | 8.287577 | 0.081718 | 0 |
| 7/1/2021 | 12:16:26 | 10.453 | 34.29462 | 51.26 | 1.797121 | 7.397706 | 0.081452 | 0.1 |
| 7/1/2021 | 13:16:26 | 10.43 | 34.21916 | 50.13 | 1.721661 | 6.362822 | 0.081226 | 0 |
| 7/1/2021 | 14:16:26 | 10.41 | 34.15354 | 50.13 | 1.656044 | 5.550903 | 0.081226 | 0 |
| 7/1/2021 | 15:16:26 | 10.388 | 34.08137 | 49.16 | 1.583866 | 4.746491 | 0.081032 | 0 |
| 7/1/2021 | 16:16:26 | 10.373 | 34.03215 | 48.59 | 1.534653 | 4.248295 | 0.080918 | 0 |
| 7/1/2021 | 17:16:26 | 10.356 | 33.97638 | 46.6 | 1.478879 | 3.730202 | 0.08052 | 0 |
| 7/1/2021 | 18:16:26 | 10.342 | 33.93045 | 45.79 | 1.432947 | 3.33883 | 0.080358 | 0 |
| 7/1/2021 | 19:16:26 | 10.331 | 33.89436 | 45.19 | 1.396858 | 3.052645 | 0.080238 | 0 |
| 7/1/2021 | 20:16:26 | 10.32 | 33.85827 | 44.94 | 1.360769 | 2.784452 | 0.080188 | 0 |
| 7/1/2021 | 21:16:26 | 10.305 | 33.80906 | 44.9 | 1.311556 | 2.446465 | 0.08018 | 0 |
| 7/1/2021 | 22:16:26 | 10.301 | 33.79593 | 45.36 | 1.298433 | 2.361543 | 0.080272 | 0 |
| 7/1/2021 | 23:16:26 | 10.293 | 33.76969 | 46.91 | 1.272186 | 2.198056 | 0.080582 | 0 |
| 7/2/2021 | 0:16:26 | 10.285 | 33.74344 | 47.4 | 1.245939 | 2.04283 | 0.08068 | 0 |
| 7/2/2021 | 1:16:26 | 10.272 | 33.70079 | 48.46 | 1.203288 | 1.807544 | 0.080892 | 0 |
| 7/2/2021 | 2:16:26 | 10.256 | 33.6483 | 49.08 | 1.150795 | 1.545375 | 0.081016 | 0 |
| 7/2/2021 | 3:16:26 | 10.243 | 33.60564 | 50.72 | 1.108144 | 1.353359 | 0.081344 | 0 |
| 7/2/2021 | 4:16:26 | 10.235 | 33.5794 | 52.6 | 1.081897 | 1.244059 | 0.08172 | 0 |
| 7/2/2021 | 5:16:26 | 10.23 | 33.56299 | 53.13 | 1.065493 | 1.179045 | 0.081826 | 0 |
| 7/2/2021 | 6:16:26 | 10.226 | 33.54987 | 54.82 | 1.05237 | 1.128812 | 0.082164 | 0 |
| 7/2/2021 | 7:16:26 | 10.224 | 33.54331 | 56.18 | 1.045808 | 1.104279 | 0.082436 | 0 |
| 7/2/2021 | 8:16:26 | 10.22 | 33.53018 | 58.62 | 1.032685 | 1.05636 | 0.082924 | 0 |
| 7/2/2021 | 9:16:26 | 10.221 | 33.53347 | 57.3 | 1.035966 | 1.068198 | 0.08266 | 0 |
| 7/2/2021 | 10:16:26 | 10.221 | 33.53347 | 57.17 | 1.035966 | 1.068198 | 0.082634 | 0 |
| 7/2/2021 | 11:16:26 | 10.223 | 33.54003 | 57.7 | 1.042527 | 1.092157 | 0.08274 | 0 |
| 7/2/2021 | 12:16:26 | 10.226 | 33.54987 | 57.45 | 1.05237 | 1.128812 | 0.08269 | 0 |

7/15/2021 – 7/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 7/15/2021 | 12:16:26 | 10.06 | 33.00525 | 16.62 | 0.50775 | 0.087229 | 0.074524 | 0 |
| 7/15/2021 | 13:16:26 | 10.059 | 33.00197 | 16.46 | 0.50447 | 0.085265 | 0.074492 | 0 |
| 7/15/2021 | 14:16:26 | 10.055 | 32.98885 | 16.53 | 0.491346 | 0.077724 | 0.074506 | 0 |
| 7/15/2021 | 15:16:26 | 10.05 | 32.97244 | 16.63 | 0.474942 | 0.068984 | 0.074526 | 0 |
| 7/15/2021 | 16:16:26 | 10.047 | 32.9626 | 16.3 | 0.465099 | 0.064091 | 0.07446 | 0 |
| 7/15/2021 | 17:16:26 | 10.039 | 32.93635 | 16.64 | 0.438853 | 0.05226 | 0.074528 | 0 |
| 7/15/2021 | 18:16:26 | 10.031 | 32.91011 | 16.31 | 0.412606 | 0.04208 | 0.074462 | 0 |
| 7/15/2021 | 19:16:26 | 10.026 | 32.8937 | 16.73 | 0.396202 | 0.036491 | 0.074546 | 0 |
| 7/15/2021 | 20:16:26 | 10.028 | 32.90026 | 16.56 | 0.402764 | 0.038658 | 0.074512 | 0 |
| 7/15/2021 | 21:16:26 | 10.025 | 32.89042 | 16.58 | 0.392921 | 0.03544 | 0.074516 | 0 |
| 7/15/2021 | 22:16:26 | 10.033 | 32.91667 | 16.41 | 0.419168 | 0.044479 | 0.074482 | 0 |
| 7/15/2021 | 23:16:26 | 10.038 | 32.93307 | 16.6 | 0.435572 | 0.050901 | 0.07452 | 0 |
| 7/16/2021 | 0:16:26 | 10.032 | 32.91339 | 16.82 | 0.415887 | 0.043268 | 0.074564 | 0 |
| 7/16/2021 | 1:16:26 | 10.033 | 32.91667 | 17 | 0.419168 | 0.044479 | 0.0746 | 0 |
| 7/16/2021 | 2:16:26 | 10.023 | 32.88386 | 17.15 | 0.386359 | 0.033404 | 0.07463 | 1.33 |
| 7/16/2021 | 3:16:26 | 10.04 | 32.93963 | 117.05 | 0.442134 | 0.053646 | 0.09461 | 0 |
| 7/16/2021 | 4:16:26 | 10.032 | 32.91339 | 50.25 | 0.415887 | 0.043268 | 0.08125 | 0 |
| 7/16/2021 | 5:16:26 | 10.12 | 33.2021 | 163.65 | 0.704601 | 0.275772 | 0.10393 | 0 |
| 7/16/2021 | 6:16:26 | 10.206 | 33.48425 | 56.46 | 0.986753 | 0.900317 | 0.082492 | 0 |
| 7/16/2021 | 7:16:26 | 10.26 | 33.66142 | 38.89 | 1.163918 | 1.608179 | 0.078978 | 0 |
| 7/16/2021 | 8:16:26 | 10.291 | 33.76312 | 39.65 | 1.265624 | 2.158485 | 0.07913 | 0 |
| 7/16/2021 | 9:16:26 | 10.327 | 33.88123 | 35.83 | 1.383735 | 2.953076 | 0.078366 | 0 |
| 7/16/2021 | 10:16:26 | 10.344 | 33.93701 | 34.97 | 1.439509 | 3.392851 | 0.078194 | 0 |
| 7/16/2021 | 11:16:26 | 10.375 | 34.03872 | 34.36 | 1.541215 | 4.312451 | 0.078072 | 0 |
| 7/16/2021 | 12:16:26 | 10.428 | 34.2126 | 33.63 | 1.7151 | 6.278035 | 0.077926 | 0 |
| 7/16/2021 | 13:16:26 | 10.488 | 34.40945 | 32.88 | 1.91195 | 9.195959 | 0.077776 | 0 |
| 7/16/2021 | 14:16:26 | 10.522 | 34.521 | 32.59 | 2.023498 | 11.22308 | 0.077718 | 0 |
| 7/16/2021 | 15:16:26 | 10.535 | 34.56365 | 32.27 | 2.066149 | 12.07637 | 0.077654 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------|
| 7/16/2021 | 16:16:26 | 10.531 | 34.55053 | 31.77 | 2.053026 | 11.80905 | 0.077554 | 0 |
| 7/16/2021 | 17:16:26 | 10.518 | 34.50788 | 31.46 | 2.010375 | 10.96945 | 0.077492 | 0 |
| 7/16/2021 | 18:16:26 | 10.496 | 34.4357 | 30.3 | 1.938197 | 9.647155 | 0.07726 | 0 |
| 7/16/2021 | 19:16:26 | 10.473 | 34.36024 | 29.88 | 1.862737 | 8.390958 | 0.077176 | 0 |
| 7/16/2021 | 20:16:26 | 10.455 | 34.30118 | 30.05 | 1.803682 | 7.493033 | 0.07721 | 0 |
| 7/16/2021 | 21:16:26 | 10.435 | 34.23557 | 30.08 | 1.738065 | 6.578368 | 0.077216 | 0 |
| 7/16/2021 | 22:16:26 | 10.422 | 34.19291 | 29.62 | 1.695414 | 6.028524 | 0.077124 | 0 |
| 7/16/2021 | 23:16:26 | 10.402 | 34.1273 | 29.73 | 1.629798 | 5.247939 | 0.077146 | 0 |
| 7/17/2021 | 0:16:26 | 10.379 | 34.05184 | 29.47 | 1.554338 | 4.44284 | 0.077094 | 0 |
| 7/17/2021 | 1:16:26 | 10.356 | 33.97638 | 29.41 | 1.478879 | 3.730202 | 0.077082 | 0 |
| 7/17/2021 | 2:16:26 | 10.341 | 33.92717 | 29.61 | 1.429666 | 3.312051 | 0.077122 | 0 |
| 7/17/2021 | 3:16:26 | 10.326 | 33.87795 | 30.28 | 1.380454 | 2.928551 | 0.077256 | 0 |
| 7/17/2021 | 4:16:26 | 10.316 | 33.84515 | 30.27 | 1.347645 | 2.69125 | 0.077254 | 0 |
| 7/17/2021 | 5:16:26 | 10.297 | 33.78281 | 30.98 | 1.285309 | 2.278751 | 0.077396 | 0 |
| 7/17/2021 | 6:16:26 | 10.284 | 33.74016 | 30.69 | 1.242659 | 2.023994 | 0.077338 | 0 |
| 7/17/2021 | 7:16:26 | 10.274 | 33.70735 | 31.12 | 1.20985 | 1.84241 | 0.077424 | 0 |
| 7/17/2021 | 8:16:26 | 10.27 | 33.69423 | 32.14 | 1.196727 | 1.773153 | 0.077628 | 0 |
| 7/17/2021 | 9:16:26 | 10.268 | 33.68767 | 32.23 | 1.190165 | 1.739232 | 0.077646 | 0 |
| 7/17/2021 | 10:16:26 | 10.258 | 33.65486 | 31.79 | 1.157357 | 1.576553 | 0.077558 | 0 |
| 7/17/2021 | 11:16:26 | 10.257 | 33.65158 | 31.87 | 1.154076 | 1.560909 | 0.077574 | 0 |
| 7/17/2021 | 12:16:26 | 10.249 | 33.62533 | 32.52 | 1.127829 | 1.43972 | 0.077704 | 0 |
| 7/17/2021 | 13:16:26 | 10.234 | 33.57612 | 32.93 | 1.078617 | 1.230856 | 0.077786 | 0 |
| 7/17/2021 | 14:16:26 | 10.21 | 33.49738 | 33.11 | 0.999876 | 0.94309 | 0.077822 | 0 |
| 7/17/2021 | 15:16:26 | 10.199 | 33.46129 | 32.47 | 0.963787 | 0.828831 | 0.077694 | 0 |
| 7/17/2021 | 16:16:26 | 10.196 | 33.45144 | 32.45 | 0.953945 | 0.799475 | 0.07769 | 0 |
| 7/17/2021 | 17:16:26 | 10.192 | 33.43832 | 32.82 | 0.940821 | 0.7615 | 0.077764 | 0 |
| 7/17/2021 | 18:16:26 | 10.184 | 33.41207 | 33.62 | 0.914575 | 0.689447 | 0.077924 | 1.75 |
| 7/17/2021 | 19:16:26 | 10.189 | 33.42848 | 48.56 | 0.930979 | 0.733879 | 0.080912 | 0 |
| 7/17/2021 | 20:16:26 | 10.19 | 33.43176 | 37.8 | 0.93426 | 0.743005 | 0.07876 | 0 |
| 7/17/2021 | 21:16:26 | 10.386 | 34.0748 | 55.56 | 1.577304 | 4.677769 | 0.082312 | 0 |
| 7/17/2021 | 22:16:26 | 10.651 | 34.94423 | 44.63 | 2.446727 | 21.87165 | 0.080126 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 7/17/2021 | 23:16:26 | 10.663 | 34.9836 | 38.41 | 2.486097 | 23.13324 | 0.078882 | 0 |
| 7/18/2021 | 0:16:26 | 10.595 | 34.7605 | 37.51 | 2.263 | 16.62586 | 0.078702 | 0 |
| 7/18/2021 | 1:16:26 | 10.57 | 34.67848 | 39.3 | 2.180979 | 14.60354 | 0.07906 | 0 |
| 7/18/2021 | 2:16:26 | 10.608 | 34.80315 | 38.15 | 2.305651 | 17.753 | 0.07883 | 0 |
| 7/18/2021 | 3:16:26 | 10.657 | 34.96391 | 38.43 | 2.466412 | 22.49612 | 0.078886 | 0 |
| 7/18/2021 | 4:16:26 | 10.682 | 35.04593 | 37.21 | 2.548433 | 25.23599 | 0.078642 | 0 |
| 7/18/2021 | 5:16:26 | 10.687 | 35.06234 | 36.97 | 2.564837 | 25.8113 | 0.078594 | 0 |
| 7/18/2021 | 6:16:26 | 10.679 | 35.03609 | 37.14 | 2.53859 | 24.89524 | 0.078628 | 0 |
| 7/18/2021 | 7:16:26 | 10.667 | 34.99672 | 36.28 | 2.49922 | 23.56509 | 0.078456 | 0 |
| 7/18/2021 | 8:16:26 | 10.653 | 34.95079 | 35.5 | 2.453289 | 22.07841 | 0.0783 | 0 |
| 7/18/2021 | 9:16:26 | 10.633 | 34.88517 | 35.34 | 2.387672 | 20.07264 | 0.078268 | 0 |
| 7/18/2021 | 10:16:26 | 10.605 | 34.79331 | 34.84 | 2.295808 | 17.48819 | 0.078168 | 0 |
| 7/18/2021 | 11:16:26 | 10.575 | 34.69488 | 34.5 | 2.197383 | 14.99309 | 0.0781 | 0 |
| 7/18/2021 | 12:16:26 | 10.546 | 34.59974 | 33.42 | 2.102239 | 12.83382 | 0.077884 | 0 |

9/20/2021 – 9/22/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/20/2021 | 13:00:00 | 9.974 | 32.7231 | 36.34 | 0.225598 | 0.005046 | 0.078468 | 0 |
| 9/20/2021 | 14:00:00 | 9.989 | 32.77231 | 34.46 | 0.274811 | 0.010093 | 0.078092 | 0 |
| 9/20/2021 | 15:00:00 | 10.009 | 32.83793 | 32.92 | 0.340428 | 0.021414 | 0.077784 | 0 |
| 9/20/2021 | 16:00:00 | 10.001 | 32.81168 | 32.37 | 0.314181 | 0.016154 | 0.077674 | 0 |
| 9/20/2021 | 17:00:00 | 9.997 | 32.79856 | 32.61 | 0.301057 | 0.013905 | 0.077722 | 0 |
| 9/20/2021 | 18:00:00 | 9.997 | 32.79856 | 31.83 | 0.301057 | 0.013905 | 0.077566 | 0 |
| 9/20/2021 | 19:00:00 | 9.999 | 32.80512 | 31.81 | 0.307619 | 0.015 | 0.077562 | 0 |
| 9/20/2021 | 20:00:00 | 10.001 | 32.81168 | 32.84 | 0.314181 | 0.016154 | 0.077768 | 0 |
| 9/20/2021 | 21:00:00 | 10.013 | 32.85105 | 42.77 | 0.353551 | 0.024457 | 0.079754 | 0.33858286 |
| 9/20/2021 | 22:00:00 | 10.036 | 32.92651 | 74.52 | 0.42901 | 0.048257 | 0.086104 | 0 |

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|-----------|----------|--------|----------|--------|----------|----------|----------|------------|
| 9/20/2021 | 23:00:00 | 10.059 | 33.00197 | 58.64 | 0.50447 | 0.085265 | 0.082928 | 0.00787402 |
| 9/21/2021 | 0:00:00 | 10.079 | 33.06759 | 55.43 | 0.570086 | 0.13102 | 0.082286 | 0.00787402 |
| 9/21/2021 | 1:00:00 | 10.087 | 33.09383 | 47.25 | 0.596333 | 0.153466 | 0.08065 | 0 |
| 9/21/2021 | 2:00:00 | 10.085 | 33.08727 | 82.54 | 0.589771 | 0.147615 | 0.087708 | 0.5511814 |
| 9/21/2021 | 3:00:00 | 10.128 | 33.22835 | 184.63 | 0.730848 | 0.313582 | 0.108126 | 0.24409462 |
| 9/21/2021 | 4:00:00 | 10.19 | 33.43176 | 55.76 | 0.93426 | 0.743005 | 0.082352 | 0.03149608 |
| 9/21/2021 | 5:00:00 | 10.195 | 33.44816 | 39.36 | 0.950664 | 0.789857 | 0.079072 | 0 |
| 9/21/2021 | 6:00:00 | 10.202 | 33.47113 | 39.25 | 0.97363 | 0.858951 | 0.07905 | 0 |
| 9/21/2021 | 7:00:00 | 10.21 | 33.49738 | 39.55 | 0.999876 | 0.94309 | 0.07911 | 0 |
| 9/21/2021 | 8:00:00 | 10.215 | 33.51378 | 40.6 | 1.016281 | 0.998577 | 0.07932 | 0 |
| 9/21/2021 | 9:00:00 | 10.227 | 33.55315 | 39.05 | 1.055651 | 1.141224 | 0.07901 | 0 |
| 9/21/2021 | 10:00:00 | 10.235 | 33.5794 | 38.77 | 1.081897 | 1.244059 | 0.078954 | 0 |
| 9/21/2021 | 11:00:00 | 10.239 | 33.59252 | 38.88 | 1.095021 | 1.297886 | 0.078976 | 0 |
| 9/21/2021 | 12:00:00 | 10.241 | 33.59908 | 38.53 | 1.101582 | 1.325415 | 0.078906 | 0 |
| 9/21/2021 | 13:00:00 | 10.251 | 33.63189 | 38.3 | 1.134391 | 1.469362 | 0.07886 | 0 |
| 9/21/2021 | 14:00:00 | 10.252 | 33.63517 | 38.64 | 1.137672 | 1.484346 | 0.078928 | 0 |
| 9/21/2021 | 15:00:00 | 10.238 | 33.58924 | 38.47 | 1.09174 | 1.284276 | 0.078894 | 0 |
| 9/21/2021 | 16:00:00 | 10.222 | 33.53675 | 38.06 | 1.039246 | 1.08013 | 0.078812 | 0 |
| 9/21/2021 | 17:00:00 | 10.209 | 33.4941 | 38.2 | 0.996596 | 0.932264 | 0.07884 | 0 |
| 9/21/2021 | 18:00:00 | 10.203 | 33.47441 | 37.36 | 0.976911 | 0.869162 | 0.078672 | 0 |
| 9/21/2021 | 19:00:00 | 10.201 | 33.46785 | 37.42 | 0.970349 | 0.848825 | 0.078684 | 0 |
| 9/21/2021 | 20:00:00 | 10.199 | 33.46129 | 37.11 | 0.963787 | 0.828831 | 0.078622 | 0 |
| 9/21/2021 | 21:00:00 | 10.202 | 33.47113 | 37.16 | 0.97363 | 0.858951 | 0.078632 | 0 |
| 9/21/2021 | 22:00:00 | 10.205 | 33.48097 | 36.76 | 0.983472 | 0.889845 | 0.078552 | 0 |
| 9/21/2021 | 23:00:00 | 10.203 | 33.47441 | 36.69 | 0.976911 | 0.869162 | 0.078538 | 0 |
| 9/22/2021 | 0:00:00 | 10.202 | 33.47113 | 36.3 | 0.97363 | 0.858951 | 0.07846 | 0 |
| 9/22/2021 | 1:00:00 | 10.199 | 33.46129 | 36.37 | 0.963787 | 0.828831 | 0.078474 | 0 |
| 9/22/2021 | 2:00:00 | 10.198 | 33.45801 | 36.56 | 0.960506 | 0.818961 | 0.078512 | 0 |
| 9/22/2021 | 3:00:00 | 10.199 | 33.46129 | 35.37 | 0.963787 | 0.828831 | 0.078274 | 0 |
| 9/22/2021 | 4:00:00 | 10.195 | 33.44816 | 35.64 | 0.950664 | 0.789857 | 0.078328 | 0 |

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|-----------|---------|--------|----------|-------|----------|----------|----------|---|
| 9/22/2021 | 5:00:00 | 10.194 | 33.44488 | 35.66 | 0.947383 | 0.780322 | 0.078332 | 0 |
|-----------|---------|--------|----------|-------|----------|----------|----------|---|

North location selected rainfall events ≤ 0.79 inches

10/17/2020 – 10/20/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 10/17/2020 | 22:00:00 | 10.006 | 32.82809 | 72.55 | 0.686285 | 0.017833 | 0.171345 | 0 |
| 10/17/2020 | 23:00:00 | 10.012 | 32.84777 | 74.45 | 0.70597 | 0.020723 | 0.174955 | 0 |
| 10/18/2020 | 0:00:00 | 10.015 | 32.85761 | 75.15 | 0.715813 | 0.022304 | 0.176285 | 0 |
| 10/18/2020 | 1:00:00 | 10.014 | 32.85433 | 75.87 | 0.712532 | 0.021766 | 0.177653 | 0 |
| 10/18/2020 | 2:00:00 | 10.016 | 32.86089 | 76.44 | 0.719093 | 0.022852 | 0.178736 | 0 |
| 10/18/2020 | 3:00:00 | 10.01 | 32.84121 | 76.15 | 0.699408 | 0.01972 | 0.178185 | 0 |
| 10/18/2020 | 4:00:00 | 10.007 | 32.83137 | 77.07 | 0.689566 | 0.01829 | 0.179933 | 0 |
| 10/18/2020 | 5:00:00 | 10.002 | 32.81496 | 76.91 | 0.673162 | 0.016094 | 0.179629 | 0 |
| 10/18/2020 | 6:00:00 | 10.013 | 32.85105 | 76.97 | 0.709251 | 0.021239 | 0.179743 | 0 |
| 10/18/2020 | 7:00:00 | 10.019 | 32.87074 | 77.03 | 0.728936 | 0.024563 | 0.179857 | 0 |
| 10/18/2020 | 8:00:00 | 10.025 | 32.89042 | 76.86 | 0.748621 | 0.028298 | 0.179534 | 0 |
| 10/18/2020 | 9:00:00 | 10.033 | 32.91667 | 76.75 | 0.774868 | 0.033981 | 0.179325 | 0.01574804 |
| 10/18/2020 | 10:00:00 | 10.044 | 32.95276 | 76.84 | 0.810957 | 0.043276 | 0.179496 | 0.01574804 |
| 10/18/2020 | 11:00:00 | 10.047 | 32.9626 | 77.2 | 0.820799 | 0.04614 | 0.18018 | 0 |
| 10/18/2020 | 12:00:00 | 10.054 | 32.98557 | 77.02 | 0.843765 | 0.053423 | 0.179838 | 0 |
| 10/18/2020 | 13:00:00 | 10.057 | 32.99541 | 76.95 | 0.853608 | 0.056817 | 0.179705 | 0.00787402 |
| 10/18/2020 | 14:00:00 | 10.051 | 32.97572 | 76.87 | 0.833923 | 0.050195 | 0.179553 | 0 |
| 10/18/2020 | 15:00:00 | 10.049 | 32.96916 | 76.99 | 0.827361 | 0.048133 | 0.179781 | 0.00787402 |
| 10/18/2020 | 16:00:00 | 10.052 | 32.979 | 77.01 | 0.837204 | 0.051253 | 0.179819 | 0 |
| 10/18/2020 | 17:00:00 | 10.053 | 32.98228 | 77.06 | 0.840485 | 0.052329 | 0.179914 | 0.07874 |
| 10/18/2020 | 18:00:00 | 10.055 | 32.98885 | 77.15 | 0.847046 | 0.054535 | 0.180085 | 0.01574804 |

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|------------|----------|--------|----------|-------|----------|----------|----------|------------|
| 10/18/2020 | 19:00:00 | 10.057 | 32.99541 | 77.14 | 0.853608 | 0.056817 | 0.180066 | 0.00787402 |
| 10/18/2020 | 20:00:00 | 10.06 | 33.00525 | 77.24 | 0.86345 | 0.060384 | 0.180256 | 0.00787402 |
| 10/18/2020 | 21:00:00 | 10.067 | 33.02822 | 77.11 | 0.886416 | 0.069418 | 0.180009 | 0 |
| 10/18/2020 | 22:00:00 | 10.073 | 33.0479 | 77.07 | 0.906101 | 0.078008 | 0.179933 | 0 |
| 10/18/2020 | 23:00:00 | 10.069 | 33.03478 | 77 | 0.892978 | 0.072192 | 0.1798 | 0 |
| 10/19/2020 | 0:00:00 | 10.071 | 33.04134 | 76.9 | 0.89954 | 0.075054 | 0.17961 | 0 |
| 10/19/2020 | 1:00:00 | 10.071 | 33.04134 | 76.79 | 0.89954 | 0.075054 | 0.179401 | 0 |
| 10/19/2020 | 2:00:00 | 10.064 | 33.01837 | 76.9 | 0.876574 | 0.065421 | 0.17961 | 0 |
| 10/19/2020 | 3:00:00 | 10.051 | 32.97572 | 76.87 | 0.833923 | 0.050195 | 0.179553 | 0 |
| 10/19/2020 | 4:00:00 | 10.051 | 32.97572 | 76.96 | 0.833923 | 0.050195 | 0.179724 | 0 |
| 10/19/2020 | 5:00:00 | 10.048 | 32.96588 | 76.82 | 0.82408 | 0.047128 | 0.179458 | 0 |
| 10/19/2020 | 6:00:00 | 10.049 | 32.96916 | 76.65 | 0.827361 | 0.048133 | 0.179135 | 0.03149608 |
| 10/19/2020 | 7:00:00 | 10.045 | 32.95604 | 76.3 | 0.814238 | 0.044214 | 0.17847 | 0.01574804 |
| 10/19/2020 | 8:00:00 | 10.047 | 32.9626 | 76.16 | 0.820799 | 0.04614 | 0.178204 | 0 |
| 10/19/2020 | 9:00:00 | 10.044 | 32.95276 | 76.47 | 0.810957 | 0.043276 | 0.178793 | 0 |
| 10/19/2020 | 10:00:00 | 10.045 | 32.95604 | 76.25 | 0.814238 | 0.044214 | 0.178375 | 0 |
| 10/19/2020 | 11:00:00 | 10.053 | 32.98228 | 76.11 | 0.840485 | 0.052329 | 0.178109 | 0 |
| 10/19/2020 | 12:00:00 | 10.052 | 32.979 | 76.34 | 0.837204 | 0.051253 | 0.178546 | 0 |
| 10/19/2020 | 13:00:00 | 10.051 | 32.97572 | 76.45 | 0.833923 | 0.050195 | 0.178755 | 0 |
| 10/19/2020 | 14:00:00 | 10.048 | 32.96588 | 76.35 | 0.82408 | 0.047128 | 0.178565 | 0 |
| 10/19/2020 | 15:00:00 | 10.042 | 32.9462 | 76.55 | 0.804395 | 0.041448 | 0.178945 | 0 |
| 10/19/2020 | 16:00:00 | 10.041 | 32.94291 | 76.53 | 0.801114 | 0.040558 | 0.178907 | 0 |
| 10/19/2020 | 17:00:00 | 10.045 | 32.95604 | 76.53 | 0.814238 | 0.044214 | 0.178907 | 0 |
| 10/19/2020 | 18:00:00 | 10.046 | 32.95932 | 76.03 | 0.817519 | 0.045168 | 0.177957 | 0 |
| 10/19/2020 | 19:00:00 | 10.05 | 32.97244 | 75.72 | 0.830642 | 0.049155 | 0.177368 | 0 |
| 10/19/2020 | 20:00:00 | 10.055 | 32.98885 | 75.68 | 0.847046 | 0.054535 | 0.177292 | 0 |
| 10/19/2020 | 21:00:00 | 10.053 | 32.98228 | 75.59 | 0.840485 | 0.052329 | 0.177121 | 0 |
| 10/19/2020 | 22:00:00 | 10.056 | 32.99213 | 75.59 | 0.850327 | 0.055667 | 0.177121 | 0 |
| 10/19/2020 | 23:00:00 | 10.063 | 33.01509 | 75.53 | 0.873293 | 0.064131 | 0.177007 | 0 |

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|------------|---------|--------|----------|-------|----------|----------|----------|---|
| 10/20/2020 | 0:00:00 | 10.056 | 32.99213 | 75.38 | 0.850327 | 0.055667 | 0.176722 | 0 |
| 10/20/2020 | 1:00:00 | 10.055 | 32.98885 | 75.47 | 0.847046 | 0.054535 | 0.176893 | 0 |
| 10/20/2020 | 2:00:00 | 10.053 | 32.98228 | 75.72 | 0.840485 | 0.052329 | 0.177368 | 0 |
| 10/20/2020 | 3:00:00 | 10.053 | 32.98228 | 75.24 | 0.840485 | 0.052329 | 0.176456 | 0 |
| 10/20/2020 | 4:00:00 | 10.049 | 32.96916 | 75.17 | 0.827361 | 0.048133 | 0.176323 | 0 |
| 10/20/2020 | 5:00:00 | 10.04 | 32.93963 | 75.17 | 0.797834 | 0.039684 | 0.176323 | 0 |

10/22/2020 – 10/23/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 10/22/2020 | 19:00:00 | 9.99 | 32.77559 | 75.11 | 0.633792 | 0.011686 | 0.176209 | 0 |
| 10/22/2020 | 20:00:00 | 9.993 | 32.78543 | 75.14 | 0.643634 | 0.012683 | 0.176266 | 0 |
| 10/22/2020 | 21:00:00 | 9.994 | 32.78871 | 75.29 | 0.646915 | 0.01303 | 0.176551 | 0 |
| 10/22/2020 | 22:00:00 | 10 | 32.8084 | 75.32 | 0.6666 | 0.015279 | 0.176608 | 0 |
| 10/22/2020 | 23:00:00 | 10.009 | 32.83793 | 75.57 | 0.696128 | 0.019234 | 0.177083 | 0 |
| 10/23/2020 | 0:00:00 | 10.006 | 32.82809 | 75.77 | 0.686285 | 0.017833 | 0.177463 | 0 |
| 10/23/2020 | 1:00:00 | 10.003 | 32.81824 | 75.6 | 0.676443 | 0.016515 | 0.17714 | 0 |
| 10/23/2020 | 2:00:00 | 9.997 | 32.79856 | 75.6 | 0.656757 | 0.014118 | 0.17714 | 0 |
| 10/23/2020 | 3:00:00 | 10.003 | 32.81824 | 75.81 | 0.676443 | 0.016515 | 0.177539 | 0 |
| 10/23/2020 | 4:00:00 | 10.014 | 32.85433 | 75.35 | 0.712532 | 0.021766 | 0.176665 | 0.01574804 |
| 10/23/2020 | 5:00:00 | 10.017 | 32.86417 | 75.6 | 0.722374 | 0.023412 | 0.17714 | 0 |
| 10/23/2020 | 6:00:00 | 10.031 | 32.91011 | 75.54 | 0.768306 | 0.032481 | 0.177026 | 0 |
| 10/23/2020 | 7:00:00 | 10.043 | 32.94948 | 75.52 | 0.807676 | 0.042354 | 0.176988 | 0 |
| 10/23/2020 | 8:00:00 | 10.057 | 32.99541 | 75.49 | 0.853608 | 0.056817 | 0.176931 | 0 |
| 10/23/2020 | 9:00:00 | 10.08 | 33.07087 | 76.29 | 0.929067 | 0.089099 | 0.178451 | 0 |

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|------------|----------|--------|----------|-------|----------|----------|----------|---|
| 10/23/2020 | 10:00:00 | 10.093 | 33.11352 | 76.33 | 0.971718 | 0.113086 | 0.178527 | 0 |
| 10/23/2020 | 11:00:00 | 10.101 | 33.13976 | 76.29 | 0.997965 | 0.130283 | 0.178451 | 0 |
| 10/23/2020 | 12:00:00 | 10.102 | 33.14305 | 76.35 | 1.001246 | 0.132574 | 0.178565 | 0 |
| 10/23/2020 | 13:00:00 | 10.105 | 33.15289 | 76.39 | 1.011088 | 0.139644 | 0.178641 | 0 |
| 10/23/2020 | 14:00:00 | 10.105 | 33.15289 | 76.4 | 1.011088 | 0.139644 | 0.17866 | 0 |
| 10/23/2020 | 15:00:00 | 10.104 | 33.14961 | 76.45 | 1.007807 | 0.137254 | 0.178755 | 0 |
| 10/23/2020 | 16:00:00 | 10.104 | 33.14961 | 76.48 | 1.007807 | 0.137254 | 0.178812 | 0 |
| 10/23/2020 | 17:00:00 | 10.106 | 33.15617 | 76.51 | 1.014369 | 0.142067 | 0.178869 | 0 |
| 10/23/2020 | 18:00:00 | 10.114 | 33.18242 | 76.48 | 1.040616 | 0.162712 | 0.178812 | 0 |

12/12/2020 – 12/17/2020

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 12/12/2020 | 23:00:00 | 10.272 | 33.70079 | 12.1 | 1.558988 | 1.392619 | 0.05649 | 0 |
| 12/13/2020 | 0:00:00 | 10.279 | 33.72375 | 12.1 | 1.581954 | 1.505097 | 0.05649 | 0 |
| 12/13/2020 | 1:00:00 | 10.28 | 33.72704 | 12.07 | 1.585235 | 1.521751 | 0.056433 | 0 |
| 12/13/2020 | 2:00:00 | 10.287 | 33.75 | 12.13 | 1.608201 | 1.64256 | 0.056547 | 0 |
| 12/13/2020 | 3:00:00 | 10.281 | 33.73032 | 12.12 | 1.588516 | 1.538553 | 0.056528 | 0 |
| 12/13/2020 | 4:00:00 | 10.282 | 33.7336 | 12.12 | 1.591797 | 1.555506 | 0.056528 | 0 |
| 12/13/2020 | 5:00:00 | 10.275 | 33.71063 | 12.14 | 1.568831 | 1.439957 | 0.056566 | 0 |
| 12/13/2020 | 6:00:00 | 10.279 | 33.72375 | 12.16 | 1.581954 | 1.505097 | 0.056604 | 0 |
| 12/13/2020 | 7:00:00 | 10.288 | 33.75328 | 12.16 | 1.611482 | 1.660436 | 0.056604 | 0 |
| 12/13/2020 | 8:00:00 | 10.295 | 33.77625 | 12.18 | 1.634448 | 1.790043 | 0.056642 | 0 |
| 12/13/2020 | 9:00:00 | 10.293 | 33.76969 | 12.15 | 1.627886 | 1.752203 | 0.056585 | 0 |
| 12/13/2020 | 10:00:00 | 10.297 | 33.78281 | 12.14 | 1.641009 | 1.828544 | 0.056566 | 0.00787402 |
| 12/13/2020 | 11:00:00 | 10.306 | 33.81234 | 12.19 | 1.670537 | 2.01021 | 0.056661 | 0.00787402 |

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|------------|----------|--------|----------|-------|----------|----------|----------|------------|
| 12/13/2020 | 12:00:00 | 10.307 | 33.81562 | 12.2 | 1.673818 | 2.031268 | 0.05668 | 0.02362206 |
| 12/13/2020 | 13:00:00 | 10.3 | 33.79265 | 12.18 | 1.650852 | 1.887552 | 0.056642 | 0.03149608 |
| 12/13/2020 | 14:00:00 | 10.298 | 33.78609 | 12.16 | 1.64429 | 1.848044 | 0.056604 | 0.01574804 |
| 12/13/2020 | 15:00:00 | 10.292 | 33.76641 | 12.12 | 1.624605 | 1.733528 | 0.056528 | 0.01574804 |
| 12/13/2020 | 16:00:00 | 10.292 | 33.76641 | 12.19 | 1.624605 | 1.733528 | 0.056661 | 0 |
| 12/13/2020 | 17:00:00 | 10.305 | 33.80906 | 12.15 | 1.667256 | 1.98933 | 0.056585 | 0 |
| 12/13/2020 | 18:00:00 | 10.302 | 33.79921 | 12.15 | 1.657414 | 1.927743 | 0.056585 | 0 |
| 12/13/2020 | 19:00:00 | 10.31 | 33.82546 | 12.14 | 1.68366 | 2.095517 | 0.056566 | 0 |
| 12/13/2020 | 20:00:00 | 10.314 | 33.83858 | 12.12 | 1.696784 | 2.18374 | 0.056528 | 0 |
| 12/13/2020 | 21:00:00 | 10.323 | 33.86811 | 12.13 | 1.726311 | 2.393297 | 0.056547 | 0 |
| 12/13/2020 | 22:00:00 | 10.325 | 33.87467 | 12.15 | 1.732873 | 2.442011 | 0.056585 | 0 |
| 12/13/2020 | 23:00:00 | 10.328 | 33.88452 | 12.13 | 1.742716 | 2.516588 | 0.056547 | 0 |
| 12/14/2020 | 0:00:00 | 10.33 | 33.89108 | 12.15 | 1.749277 | 2.567325 | 0.056585 | 0 |
| 12/14/2020 | 1:00:00 | 10.326 | 33.87795 | 12.12 | 1.736154 | 2.466667 | 0.056528 | 0 |
| 12/14/2020 | 2:00:00 | 10.332 | 33.89764 | 12.14 | 1.755839 | 2.618889 | 0.056566 | 0 |
| 12/14/2020 | 3:00:00 | 10.338 | 33.91732 | 12.14 | 1.775524 | 2.778649 | 0.056566 | 0 |
| 12/14/2020 | 4:00:00 | 10.345 | 33.94029 | 12.16 | 1.79849 | 2.974942 | 0.056604 | 0 |
| 12/14/2020 | 5:00:00 | 10.351 | 33.95997 | 12.12 | 1.818175 | 3.152017 | 0.056528 | 0 |
| 12/14/2020 | 6:00:00 | 10.347 | 33.94685 | 12.13 | 1.805051 | 3.033046 | 0.056547 | 0 |
| 12/14/2020 | 7:00:00 | 10.345 | 33.94029 | 12.17 | 1.79849 | 2.974942 | 0.056623 | 0 |
| 12/14/2020 | 8:00:00 | 10.357 | 33.97966 | 12.18 | 1.83786 | 3.337553 | 0.056642 | 0 |
| 12/14/2020 | 9:00:00 | 10.355 | 33.9731 | 12.2 | 1.831298 | 3.274749 | 0.05668 | 0 |
| 12/14/2020 | 10:00:00 | 10.357 | 33.97966 | 12.17 | 1.83786 | 3.337553 | 0.056623 | 0 |
| 12/14/2020 | 11:00:00 | 10.362 | 33.99606 | 12.15 | 1.854264 | 3.498852 | 0.056585 | 0 |
| 12/14/2020 | 12:00:00 | 10.364 | 34.00263 | 12.18 | 1.860826 | 3.565116 | 0.056642 | 0 |
| 12/14/2020 | 13:00:00 | 10.36 | 33.9895 | 12.2 | 1.847702 | 3.43359 | 0.05668 | 0 |
| 12/14/2020 | 14:00:00 | 10.348 | 33.95013 | 12.22 | 1.808332 | 3.062441 | 0.056718 | 0 |
| 12/14/2020 | 15:00:00 | 10.333 | 33.90092 | 12.19 | 1.75912 | 2.644985 | 0.056661 | 0 |
| 12/14/2020 | 16:00:00 | 10.327 | 33.88123 | 12.23 | 1.739435 | 2.491526 | 0.056737 | 0 |
| 12/14/2020 | 17:00:00 | 10.324 | 33.87139 | 12.21 | 1.729592 | 2.417554 | 0.056699 | 0 |

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|------------|----------|--------|----------|-------|---------|----------|----------|---|
| 12/14/2020 | 18:00:00 | 10.321 | 33.86155 | 12.18 | 1.71975 | 2.345375 | 0.056642 | 0 |
|------------|----------|--------|----------|-------|---------|----------|----------|---|

1/27/2021 – 1/28/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/27/2021 | 5:44:33 | 10.254 | 33.64173 | 12.97 | 1.499933 | 1.134375 | 0.058143 | 0 |
| 1/27/2021 | 6:44:33 | 10.265 | 33.67782 | 12.96 | 1.536023 | 1.287062 | 0.058124 | 0 |
| 1/27/2021 | 7:44:33 | 10.278 | 33.72047 | 12.96 | 1.578674 | 1.488592 | 0.058124 | 0 |
| 1/27/2021 | 8:44:33 | 10.289 | 33.75656 | 12.96 | 1.614763 | 1.67847 | 0.058124 | 0 |
| 1/27/2021 | 9:44:33 | 10.298 | 33.78609 | 12.98 | 1.64429 | 1.848044 | 0.058162 | 0 |
| 1/27/2021 | 10:44:33 | 10.31 | 33.82546 | 12.98 | 1.68366 | 2.095517 | 0.058162 | 0 |
| 1/27/2021 | 11:44:33 | 10.315 | 33.84186 | 13 | 1.700065 | 2.20626 | 0.0582 | 0 |
| 1/27/2021 | 12:44:33 | 10.313 | 33.8353 | 12.99 | 1.693503 | 2.161407 | 0.058181 | 0.01574804 |
| 1/27/2021 | 13:44:33 | 10.313 | 33.8353 | 13.01 | 1.693503 | 2.161407 | 0.058219 | 0 |
| 1/27/2021 | 14:44:33 | 10.323 | 33.86811 | 13.03 | 1.726311 | 2.393297 | 0.058257 | 0 |
| 1/27/2021 | 15:44:33 | 10.33 | 33.89108 | 13.01 | 1.749277 | 2.567325 | 0.058219 | 0 |
| 1/27/2021 | 16:44:33 | 10.338 | 33.91732 | 13.01 | 1.775524 | 2.778649 | 0.058219 | 0 |
| 1/27/2021 | 17:44:33 | 10.341 | 33.92717 | 12.97 | 1.785366 | 2.861445 | 0.058143 | 0 |
| 1/27/2021 | 18:44:33 | 10.346 | 33.94357 | 13 | 1.801771 | 3.00388 | 0.0582 | 0 |
| 1/27/2021 | 19:44:33 | 10.352 | 33.96326 | 12.99 | 1.821456 | 3.182344 | 0.058181 | 0 |
| 1/27/2021 | 20:44:33 | 10.358 | 33.98294 | 13 | 1.841141 | 3.36932 | 0.0582 | 0 |
| 1/27/2021 | 21:44:33 | 10.359 | 33.98622 | 12.98 | 1.844422 | 3.401332 | 0.058162 | 0 |
| 1/27/2021 | 22:44:33 | 10.359 | 33.98622 | 13.01 | 1.844422 | 3.401332 | 0.058219 | 0 |
| 1/27/2021 | 23:44:33 | 10.364 | 34.00263 | 13 | 1.860826 | 3.565116 | 0.0582 | 0 |
| 1/28/2021 | 0:44:33 | 10.365 | 34.00591 | 12.98 | 1.864107 | 3.598629 | 0.058162 | 0 |
| 1/28/2021 | 1:44:33 | 10.364 | 34.00263 | 12.99 | 1.860826 | 3.565116 | 0.058181 | 0 |
| 1/28/2021 | 2:44:33 | 10.367 | 34.01247 | 13 | 1.870668 | 3.666421 | 0.0582 | 0 |
| 1/28/2021 | 3:44:33 | 10.365 | 34.00591 | 13.01 | 1.864107 | 3.598629 | 0.058219 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 1/28/2021 | 4:44:33 | 10.366 | 34.00919 | 12.98 | 1.867387 | 3.632396 | 0.058162 | 0 |
| 1/28/2021 | 5:44:33 | 10.365 | 34.00591 | 13.03 | 1.864107 | 3.598629 | 0.058257 | 0 |
| 1/28/2021 | 6:44:33 | 10.368 | 34.01575 | 13.04 | 1.873949 | 3.700703 | 0.058276 | 0 |
| 1/28/2021 | 7:44:33 | 10.368 | 34.01575 | 13.06 | 1.873949 | 3.700703 | 0.058314 | 0 |
| 1/28/2021 | 8:44:33 | 10.365 | 34.00591 | 13.04 | 1.864107 | 3.598629 | 0.058276 | 0 |
| 1/28/2021 | 9:44:33 | 10.368 | 34.01575 | 13.04 | 1.873949 | 3.700703 | 0.058276 | 0 |
| 1/28/2021 | 10:44:33 | 10.37 | 34.02231 | 13.07 | 1.880511 | 3.770049 | 0.058333 | 0 |
| 1/28/2021 | 11:44:33 | 10.361 | 33.99278 | 13.11 | 1.850983 | 3.466096 | 0.058409 | 0 |
| 1/28/2021 | 12:44:33 | 10.351 | 33.95997 | 13.11 | 1.818175 | 3.152017 | 0.058409 | 0 |
| 1/28/2021 | 13:44:33 | 10.334 | 33.9042 | 13.1 | 1.762401 | 2.671291 | 0.05839 | 0 |
| 1/28/2021 | 14:44:33 | 10.325 | 33.87467 | 13.1 | 1.732873 | 2.442011 | 0.05839 | 0 |
| 1/28/2021 | 15:44:33 | 10.322 | 33.86483 | 13.1 | 1.72303 | 2.369237 | 0.05839 | 0 |
| 1/28/2021 | 16:44:33 | 10.32 | 33.85827 | 13.13 | 1.716469 | 2.321707 | 0.058447 | 0 |
| 1/28/2021 | 17:44:33 | 10.315 | 33.84186 | 13.15 | 1.700065 | 2.20626 | 0.058485 | 0 |

2/28/2021 – 3/1/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 2/28/2021 | 0:44:33 | 10.07 | 33.03806 | 12.53 | 0.896259 | 0.073611 | 0.057307 | 0 |
| 2/28/2021 | 1:44:33 | 10.068 | 33.0315 | 12.53 | 0.889697 | 0.070794 | 0.057307 | 0 |
| 2/28/2021 | 2:44:33 | 10.068 | 33.0315 | 12.57 | 0.889697 | 0.070794 | 0.057383 | 0 |
| 2/28/2021 | 3:44:33 | 10.069 | 33.03478 | 12.56 | 0.892978 | 0.072192 | 0.057364 | 0 |
| 2/28/2021 | 4:44:33 | 10.07 | 33.03806 | 12.58 | 0.896259 | 0.073611 | 0.057402 | 0 |
| 2/28/2021 | 5:44:33 | 10.075 | 33.05446 | 12.57 | 0.912663 | 0.081056 | 0.057383 | 0 |
| 2/28/2021 | 6:44:33 | 10.081 | 33.07415 | 12.55 | 0.932348 | 0.090783 | 0.057345 | 0 |
| 2/28/2021 | 7:44:33 | 10.091 | 33.10696 | 12.61 | 0.965156 | 0.109089 | 0.057459 | 0.03149608 |
| 2/28/2021 | 8:44:33 | 10.106 | 33.15617 | 12.6 | 1.014369 | 0.142067 | 0.05744 | 0.00787402 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 2/28/2021 | 9:44:33 | 10.113 | 33.17913 | 12.62 | 1.037335 | 0.160006 | 0.057478 | 0 |
| 2/28/2021 | 10:44:33 | 10.125 | 33.21851 | 12.58 | 1.076705 | 0.195012 | 0.057402 | 0 |
| 2/28/2021 | 11:44:33 | 10.136 | 33.25459 | 12.58 | 1.112794 | 0.232332 | 0.057402 | 0 |
| 2/28/2021 | 12:44:33 | 10.13 | 33.23491 | 12.55 | 1.093109 | 0.211319 | 0.057345 | 0 |
| 2/28/2021 | 13:44:33 | 10.128 | 33.22835 | 12.51 | 1.086548 | 0.204669 | 0.057269 | 0 |
| 2/28/2021 | 14:44:33 | 10.135 | 33.25131 | 12.52 | 1.109513 | 0.228717 | 0.057288 | 0 |
| 2/28/2021 | 15:44:33 | 10.139 | 33.26444 | 12.46 | 1.122637 | 0.243457 | 0.057174 | 0 |
| 2/28/2021 | 16:44:33 | 10.139 | 33.26444 | 12.44 | 1.122637 | 0.243457 | 0.057136 | 0 |
| 2/28/2021 | 17:44:33 | 10.146 | 33.2874 | 12.46 | 1.145603 | 0.271102 | 0.057174 | 0 |
| 2/28/2021 | 18:44:33 | 10.157 | 33.32349 | 12.43 | 1.181692 | 0.319652 | 0.057117 | 0 |
| 2/28/2021 | 19:44:33 | 10.167 | 33.3563 | 12.41 | 1.2145 | 0.369698 | 0.057079 | 0 |
| 2/28/2021 | 20:44:33 | 10.179 | 33.39567 | 12.4 | 1.25387 | 0.437961 | 0.05706 | 0 |
| 2/28/2021 | 21:44:33 | 10.193 | 33.4416 | 12.43 | 1.299802 | 0.530178 | 0.057117 | 0 |
| 2/28/2021 | 22:44:33 | 10.205 | 33.48097 | 12.42 | 1.339172 | 0.62123 | 0.057098 | 0 |
| 2/28/2021 | 23:44:33 | 10.209 | 33.4941 | 12.45 | 1.352296 | 0.654254 | 0.057155 | 0 |
| 3/1/2021 | 0:44:33 | 10.215 | 33.51378 | 12.45 | 1.371981 | 0.706451 | 0.057155 | 0 |
| 3/1/2021 | 1:44:33 | 10.224 | 33.54331 | 12.48 | 1.401508 | 0.791041 | 0.057212 | 0 |
| 3/1/2021 | 2:44:33 | 10.224 | 33.54331 | 12.49 | 1.401508 | 0.791041 | 0.057231 | 0 |
| 3/1/2021 | 3:44:33 | 10.228 | 33.55643 | 12.52 | 1.414632 | 0.831185 | 0.057288 | 0 |
| 3/1/2021 | 4:44:33 | 10.231 | 33.56627 | 12.51 | 1.424474 | 0.862365 | 0.057269 | 0 |
| 3/1/2021 | 5:44:33 | 10.233 | 33.57284 | 12.52 | 1.431036 | 0.883674 | 0.057288 | 0 |
| 3/1/2021 | 6:44:33 | 10.244 | 33.60892 | 12.62 | 1.467125 | 1.008655 | 0.057478 | 0 |
| 3/1/2021 | 7:44:33 | 10.265 | 33.67782 | 12.57 | 1.536023 | 1.287062 | 0.057383 | 0 |
| 3/1/2021 | 8:44:33 | 10.273 | 33.70407 | 12.6 | 1.562269 | 1.408256 | 0.05744 | 0 |
| 3/1/2021 | 9:44:33 | 10.277 | 33.71719 | 12.65 | 1.575393 | 1.472235 | 0.057535 | 0 |
| 3/1/2021 | 10:44:33 | 10.271 | 33.69751 | 12.62 | 1.555708 | 1.377123 | 0.057478 | 0 |
| 3/1/2021 | 11:44:33 | 10.274 | 33.70735 | 12.61 | 1.56555 | 1.424035 | 0.057459 | 0 |
| 3/1/2021 | 12:44:33 | 10.271 | 33.69751 | 12.58 | 1.555708 | 1.377123 | 0.057402 | 0 |
| 3/1/2021 | 13:44:33 | 10.261 | 33.6647 | 12.57 | 1.522899 | 1.229723 | 0.057383 | 0 |
| 3/1/2021 | 14:44:33 | 10.258 | 33.65486 | 12.53 | 1.513057 | 1.188094 | 0.057307 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|---|
| 3/1/2021 | 15:44:33 | 10.258 | 33.65486 | 12.5 | 1.513057 | 1.188094 | 0.05725 | 0 |
| 3/1/2021 | 16:44:33 | 10.257 | 33.65158 | 12.44 | 1.509776 | 1.174475 | 0.057136 | 0 |
| 3/1/2021 | 17:44:33 | 10.257 | 33.65158 | 12.44 | 1.509776 | 1.174475 | 0.057136 | 0 |

3/22/2021 – 3/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/22/2021 | 16:44:33 | 10.049 | 32.96916 | 12.33 | 0.827361 | 0.048133 | 0.056927 | 0 |
| 3/22/2021 | 17:44:33 | 10.043 | 32.94948 | 12.35 | 0.807676 | 0.042354 | 0.056965 | 0 |
| 3/22/2021 | 18:44:33 | 10.037 | 32.92979 | 12.32 | 0.787991 | 0.037152 | 0.056908 | 0 |
| 3/22/2021 | 19:44:33 | 10.031 | 32.91011 | 12.31 | 0.768306 | 0.032481 | 0.056889 | 0 |
| 3/22/2021 | 20:44:33 | 10.03 | 32.90683 | 12.3 | 0.765025 | 0.031751 | 0.05687 | 0 |
| 3/22/2021 | 21:44:33 | 10.026 | 32.8937 | 12.35 | 0.751902 | 0.028963 | 0.056965 | 0 |
| 3/22/2021 | 22:44:33 | 10.024 | 32.88714 | 12.35 | 0.74534 | 0.027645 | 0.056965 | 0 |
| 3/22/2021 | 23:44:33 | 10.021 | 32.8773 | 12.37 | 0.735498 | 0.025761 | 0.057003 | 0.10236226 |
| 3/23/2021 | 0:44:33 | 9.997 | 32.79856 | 12.38 | 0.656757 | 0.014118 | 0.057022 | 0.03149608 |
| 3/23/2021 | 1:44:33 | 9.982 | 32.74934 | 12.41 | 0.607545 | 0.009335 | 0.057079 | 0 |
| 3/23/2021 | 2:44:33 | 9.98 | 32.74278 | 12.44 | 0.600983 | 0.008812 | 0.057136 | 0 |
| 3/23/2021 | 3:44:33 | 9.967 | 32.70013 | 12.45 | 0.558332 | 0.00596 | 0.057155 | 0 |
| 3/23/2021 | 4:44:33 | 9.966 | 32.69685 | 12.5 | 0.555051 | 0.005776 | 0.05725 | 0 |
| 3/23/2021 | 5:44:33 | 9.966 | 32.69685 | 12.48 | 0.555051 | 0.005776 | 0.057212 | 0 |
| 3/23/2021 | 6:44:33 | 9.968 | 32.70341 | 12.52 | 0.561613 | 0.006149 | 0.057288 | 0.00787402 |
| 3/23/2021 | 7:44:33 | 9.971 | 32.71326 | 12.52 | 0.571456 | 0.006743 | 0.057288 | 0 |
| 3/23/2021 | 8:44:33 | 9.975 | 32.72638 | 12.54 | 0.584579 | 0.007607 | 0.057326 | 0 |
| 3/23/2021 | 9:44:33 | 9.977 | 32.73294 | 12.49 | 0.591141 | 0.008072 | 0.057231 | 0 |
| 3/23/2021 | 10:44:33 | 9.981 | 32.74606 | 12.44 | 0.604264 | 0.00907 | 0.057136 | 0 |
| 3/23/2021 | 11:44:33 | 9.989 | 32.77231 | 12.39 | 0.630511 | 0.011368 | 0.057041 | 0 |
| 3/23/2021 | 12:44:33 | 9.991 | 32.77887 | 12.33 | 0.637072 | 0.012011 | 0.056927 | 0.00787402 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 3/23/2021 | 13:44:33 | 9.99 | 32.77559 | 12.23 | 0.633792 | 0.011686 | 0.056737 | 0 |
| 3/23/2021 | 14:44:33 | 9.997 | 32.79856 | 12.26 | 0.656757 | 0.014118 | 0.056794 | 0 |
| 3/23/2021 | 15:44:33 | 10.001 | 32.81168 | 12.19 | 0.669881 | 0.015682 | 0.056661 | 0 |
| 3/23/2021 | 16:44:33 | 10.006 | 32.82809 | 12.16 | 0.686285 | 0.017833 | 0.056604 | 0 |
| 3/23/2021 | 17:44:33 | 10.015 | 32.85761 | 12.12 | 0.715813 | 0.022304 | 0.056528 | 0 |
| 3/23/2021 | 18:44:33 | 10.023 | 32.88386 | 12.09 | 0.742059 | 0.027005 | 0.056471 | 0 |
| 3/23/2021 | 19:44:33 | 10.027 | 32.89698 | 12.08 | 0.755183 | 0.02964 | 0.056452 | 0 |

3/24/2021 – 3/26/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/24/2021 | 19:44:33 | 10.074 | 33.05118 | 11.88 | 0.909382 | 0.07952 | 0.056072 | 0 |
| 3/24/2021 | 20:44:33 | 10.084 | 33.08399 | 11.85 | 0.942191 | 0.095991 | 0.056015 | 0 |
| 3/24/2021 | 21:44:33 | 10.079 | 33.06759 | 11.88 | 0.925786 | 0.087441 | 0.056072 | 0 |
| 3/24/2021 | 22:44:33 | 10.081 | 33.07415 | 11.82 | 0.932348 | 0.090783 | 0.055958 | 0 |
| 3/24/2021 | 23:44:33 | 10.098 | 33.12992 | 11.88 | 0.988122 | 0.123602 | 0.056072 | 0 |
| 3/25/2021 | 0:44:33 | 10.055 | 32.98885 | 11.91 | 0.847046 | 0.054535 | 0.056129 | 0.0393701 |
| 3/25/2021 | 1:44:33 | 10.049 | 32.96916 | 11.96 | 0.827361 | 0.048133 | 0.056224 | 0.02362206 |
| 3/25/2021 | 2:44:33 | 10.047 | 32.9626 | 12.01 | 0.820799 | 0.04614 | 0.056319 | 0 |
| 3/25/2021 | 3:44:33 | 10.044 | 32.95276 | 12.04 | 0.810957 | 0.043276 | 0.056376 | 0 |
| 3/25/2021 | 4:44:33 | 10.029 | 32.90354 | 12.08 | 0.761744 | 0.031034 | 0.056452 | 0 |
| 3/25/2021 | 5:44:33 | 10.029 | 32.90354 | 12.12 | 0.761744 | 0.031034 | 0.056528 | 0 |
| 3/25/2021 | 6:44:33 | 10.045 | 32.95604 | 12.14 | 0.814238 | 0.044214 | 0.056566 | 0 |
| 3/25/2021 | 7:44:33 | 10.038 | 32.93307 | 12.17 | 0.791272 | 0.037981 | 0.056623 | 0 |
| 3/25/2021 | 8:44:33 | 10.04 | 32.93963 | 12.19 | 0.797834 | 0.039684 | 0.056661 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 3/25/2021 | 9:44:33 | 10.035 | 32.92323 | 12.21 | 0.781429 | 0.035538 | 0.056699 | 0 |
| 3/25/2021 | 10:44:33 | 10.031 | 32.91011 | 12.19 | 0.768306 | 0.032481 | 0.056661 | 0 |
| 3/25/2021 | 11:44:33 | 10.034 | 32.91995 | 12.21 | 0.778149 | 0.034753 | 0.056699 | 0 |
| 3/25/2021 | 12:44:33 | 10.04 | 32.93963 | 12.21 | 0.797834 | 0.039684 | 0.056699 | 0 |
| 3/25/2021 | 13:44:33 | 10.045 | 32.95604 | 12.22 | 0.814238 | 0.044214 | 0.056718 | 0.07086618 |
| 3/25/2021 | 14:44:33 | 10.044 | 32.95276 | 12.23 | 0.810957 | 0.043276 | 0.056737 | 0.0393701 |
| 3/25/2021 | 15:44:33 | 10.045 | 32.95604 | 12.17 | 0.814238 | 0.044214 | 0.056623 | 0 |
| 3/25/2021 | 16:44:33 | 10.06 | 33.00525 | 12.15 | 0.86345 | 0.060384 | 0.056585 | 0 |
| 3/25/2021 | 17:44:33 | 10.068 | 33.0315 | 12.12 | 0.889697 | 0.070794 | 0.056528 | 0 |
| 3/25/2021 | 18:44:33 | 10.073 | 33.0479 | 12.11 | 0.906101 | 0.078008 | 0.056509 | 0 |
| 3/25/2021 | 19:44:33 | 10.079 | 33.06759 | 12.14 | 0.925786 | 0.087441 | 0.056566 | 0 |
| 3/25/2021 | 20:44:33 | 10.087 | 33.09383 | 12.1 | 0.952033 | 0.101438 | 0.05649 | 0 |
| 3/25/2021 | 21:44:33 | 10.091 | 33.10696 | 12.11 | 0.965156 | 0.109089 | 0.056509 | 0 |
| 3/25/2021 | 22:44:33 | 10.097 | 33.12664 | 12.12 | 0.984841 | 0.121437 | 0.056528 | 0 |
| 3/25/2021 | 23:44:33 | 10.108 | 33.16273 | 12.14 | 1.020931 | 0.147017 | 0.056566 | 0 |
| 3/26/2021 | 0:44:33 | 10.108 | 33.16273 | 12.18 | 1.020931 | 0.147017 | 0.056642 | 0 |
| 3/26/2021 | 1:44:33 | 10.109 | 33.16601 | 12.22 | 1.024212 | 0.149544 | 0.056718 | 0 |
| 3/26/2021 | 2:44:33 | 10.104 | 33.14961 | 12.23 | 1.007807 | 0.137254 | 0.056737 | 0 |
| 3/26/2021 | 3:44:33 | 10.109 | 33.16601 | 12.27 | 1.024212 | 0.149544 | 0.056813 | 0 |
| 3/26/2021 | 4:44:33 | 10.113 | 33.17913 | 12.26 | 1.037335 | 0.160006 | 0.056794 | 0 |
| 3/26/2021 | 5:44:33 | 10.114 | 33.18242 | 12.3 | 1.040616 | 0.162712 | 0.05687 | 0 |
| 3/26/2021 | 6:44:33 | 10.122 | 33.20866 | 12.28 | 1.066862 | 0.185728 | 0.056832 | 0.00787402 |
| 3/26/2021 | 7:44:33 | 10.125 | 33.21851 | 12.32 | 1.076705 | 0.195012 | 0.056908 | 0 |
| 3/26/2021 | 8:44:33 | 10.132 | 33.24147 | 12.37 | 1.099671 | 0.218145 | 0.057003 | 0 |
| 3/26/2021 | 9:44:33 | 10.135 | 33.25131 | 12.34 | 1.109513 | 0.228717 | 0.056946 | 0 |
| 3/26/2021 | 10:44:33 | 10.134 | 33.24803 | 12.3 | 1.106233 | 0.225148 | 0.05687 | 0 |
| 3/26/2021 | 11:44:33 | 10.131 | 33.23819 | 12.27 | 1.09639 | 0.21471 | 0.056813 | 0 |
| 3/26/2021 | 12:44:33 | 10.125 | 33.21851 | 12.21 | 1.076705 | 0.195012 | 0.056699 | 0 |
| 3/26/2021 | 13:44:33 | 10.112 | 33.17585 | 12.12 | 1.034054 | 0.157336 | 0.056528 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|---------|---|
| 3/26/2021 | 14:44:33 | 10.101 | 33.13976 | 12 | 0.997965 | 0.130283 | 0.0563 | 0 |
| 3/26/2021 | 15:44:33 | 10.091 | 33.10696 | 11.9 | 0.965156 | 0.109089 | 0.05611 | 0 |

4/7/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/7/2021 | 3:44:33 | 9.983 | 32.75263 | 11.35 | 0.610826 | 0.009606 | 0.055065 | 0 |
| 4/7/2021 | 4:44:33 | 9.982 | 32.74934 | 11.37 | 0.607545 | 0.009335 | 0.055103 | 0 |
| 4/7/2021 | 5:44:33 | 9.984 | 32.75591 | 11.42 | 0.614107 | 0.009883 | 0.055198 | 0 |
| 4/7/2021 | 6:44:33 | 9.989 | 32.77231 | 11.49 | 0.630511 | 0.011368 | 0.055331 | 0 |
| 4/7/2021 | 7:44:33 | 9.985 | 32.75919 | 11.49 | 0.617387 | 0.010167 | 0.055331 | 0 |
| 4/7/2021 | 8:44:33 | 9.98 | 32.74278 | 11.53 | 0.600983 | 0.008812 | 0.055407 | 0 |
| 4/7/2021 | 9:44:33 | 9.987 | 32.76575 | 11.51 | 0.623949 | 0.010754 | 0.055369 | 0 |
| 4/7/2021 | 10:44:33 | 9.999 | 32.80512 | 11.51 | 0.663319 | 0.014883 | 0.055369 | 0 |
| 4/7/2021 | 11:44:33 | 9.999 | 32.80512 | 11.52 | 0.663319 | 0.014883 | 0.055388 | 0.02362206 |
| 4/7/2021 | 12:44:33 | 9.998 | 32.80184 | 11.53 | 0.660038 | 0.014497 | 0.055407 | 0 |
| 4/7/2021 | 13:44:33 | 9.997 | 32.79856 | 11.5 | 0.656757 | 0.014118 | 0.05535 | 0 |
| 4/7/2021 | 14:44:33 | 9.998 | 32.80184 | 11.43 | 0.660038 | 0.014497 | 0.055217 | 0 |
| 4/7/2021 | 15:44:33 | 10.002 | 32.81496 | 11.37 | 0.673162 | 0.016094 | 0.055103 | 0 |
| 4/7/2021 | 16:44:33 | 10.001 | 32.81168 | 11.35 | 0.669881 | 0.015682 | 0.055065 | 0 |
| 4/7/2021 | 17:44:33 | 10 | 32.8084 | 11.3 | 0.6666 | 0.015279 | 0.05497 | 0 |
| 4/7/2021 | 18:44:33 | 10.003 | 32.81824 | 11.33 | 0.676443 | 0.016515 | 0.055027 | 0 |
| 4/7/2021 | 19:44:33 | 10.009 | 32.83793 | 11.35 | 0.696128 | 0.019234 | 0.055065 | 0 |

4/23/2021 – 4/25/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/23/2021 | 16:18:03 | 10.088 | 33.09711 | 8.26 | 0.955314 | 0.103308 | 0.049194 | 0 |
| 4/23/2021 | 17:18:03 | 10.087 | 33.09383 | 8.24 | 0.952033 | 0.101438 | 0.049156 | 0 |
| 4/23/2021 | 18:18:03 | 10.087 | 33.09383 | 8.26 | 0.952033 | 0.101438 | 0.049194 | 0.07086618 |
| 4/23/2021 | 19:18:03 | 10.086 | 33.09055 | 8.32 | 0.948752 | 0.099595 | 0.049308 | 0.01574804 |
| 4/23/2021 | 20:18:03 | 10.09 | 33.10368 | 8.28 | 0.961876 | 0.107133 | 0.049232 | 0.06299216 |
| 4/23/2021 | 21:18:03 | 10.099 | 33.1332 | 8.33 | 0.991403 | 0.125797 | 0.049327 | 0.01574804 |
| 4/23/2021 | 22:18:03 | 10.098 | 33.12992 | 8.35 | 0.988122 | 0.123602 | 0.049365 | 0 |
| 4/23/2021 | 23:18:03 | 10.101 | 33.13976 | 8.37 | 0.997965 | 0.130283 | 0.049403 | 0.03149608 |
| 4/24/2021 | 0:18:03 | 10.098 | 33.12992 | 8.4 | 0.988122 | 0.123602 | 0.04946 | 0 |
| 4/24/2021 | 1:18:03 | 10.095 | 33.12008 | 8.4 | 0.97828 | 0.117201 | 0.04946 | 0.00787402 |
| 4/24/2021 | 2:18:03 | 10.09 | 33.10368 | 8.42 | 0.961876 | 0.107133 | 0.049498 | 0.02362206 |
| 4/24/2021 | 3:18:03 | 10.082 | 33.07743 | 8.44 | 0.935629 | 0.092493 | 0.049536 | 0 |
| 4/24/2021 | 4:18:03 | 10.085 | 33.08727 | 8.47 | 0.945471 | 0.097779 | 0.049593 | 0 |
| 4/24/2021 | 5:18:03 | 10.088 | 33.09711 | 8.46 | 0.955314 | 0.103308 | 0.049574 | 0 |
| 4/24/2021 | 6:18:03 | 10.096 | 33.12336 | 8.49 | 0.981561 | 0.119304 | 0.049631 | 0 |
| 4/24/2021 | 7:18:03 | 10.108 | 33.16273 | 8.51 | 1.020931 | 0.147017 | 0.049669 | 0.02362206 |
| 4/24/2021 | 8:18:03 | 10.121 | 33.20538 | 8.51 | 1.063582 | 0.182715 | 0.049669 | 0.00787402 |
| 4/24/2021 | 9:18:03 | 10.13 | 33.23491 | 8.56 | 1.093109 | 0.211319 | 0.049764 | 0 |
| 4/24/2021 | 10:18:03 | 10.136 | 33.25459 | 8.55 | 1.112794 | 0.232332 | 0.049745 | 0 |
| 4/24/2021 | 11:18:03 | 10.146 | 33.2874 | 8.52 | 1.145603 | 0.271102 | 0.049688 | 0 |
| 4/24/2021 | 12:18:03 | 10.153 | 33.31037 | 8.48 | 1.168569 | 0.301243 | 0.049612 | 0 |
| 4/24/2021 | 13:18:03 | 10.152 | 33.30709 | 8.48 | 1.165288 | 0.296778 | 0.049612 | 0 |
| 4/24/2021 | 14:18:03 | 10.155 | 33.31693 | 8.44 | 1.17513 | 0.310337 | 0.049536 | 0 |
| 4/24/2021 | 15:18:03 | 10.157 | 33.32349 | 8.42 | 1.181692 | 0.319652 | 0.049498 | 0 |
| 4/24/2021 | 16:18:03 | 10.158 | 33.32677 | 8.39 | 1.184973 | 0.324394 | 0.049441 | 0 |
| 4/24/2021 | 17:18:03 | 10.159 | 33.33005 | 8.34 | 1.188254 | 0.329193 | 0.049346 | 0 |
| 4/24/2021 | 18:18:03 | 10.16 | 33.33333 | 8.35 | 1.191534 | 0.334049 | 0.049365 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 4/24/2021 | 19:18:03 | 10.159 | 33.33005 | 8.35 | 1.188254 | 0.329193 | 0.049365 | 0 |
| 4/24/2021 | 20:18:03 | 10.164 | 33.34646 | 8.41 | 1.204658 | 0.35406 | 0.049479 | 0 |
| 4/24/2021 | 21:18:03 | 10.176 | 33.38583 | 8.46 | 1.244028 | 0.420007 | 0.049574 | 0 |
| 4/24/2021 | 22:18:03 | 10.18 | 33.39895 | 8.47 | 1.257151 | 0.444081 | 0.049593 | 0 |
| 4/24/2021 | 23:18:03 | 10.181 | 33.40223 | 8.48 | 1.260432 | 0.450272 | 0.049612 | 0 |
| 4/25/2021 | 0:18:03 | 10.18 | 33.39895 | 8.54 | 1.257151 | 0.444081 | 0.049726 | 0 |
| 4/25/2021 | 1:18:03 | 10.179 | 33.39567 | 8.54 | 1.25387 | 0.437961 | 0.049726 | 0 |
| 4/25/2021 | 2:18:03 | 10.174 | 33.37927 | 8.57 | 1.237466 | 0.408374 | 0.049783 | 0 |
| 4/25/2021 | 3:18:03 | 10.166 | 33.35302 | 8.56 | 1.211219 | 0.364424 | 0.049764 | 0 |
| 4/25/2021 | 4:18:03 | 10.167 | 33.3563 | 8.6 | 1.2145 | 0.369698 | 0.04984 | 0 |
| 4/25/2021 | 5:18:03 | 10.168 | 33.35958 | 8.65 | 1.217781 | 0.375033 | 0.049935 | 0 |
| 4/25/2021 | 6:18:03 | 10.169 | 33.36286 | 8.65 | 1.221062 | 0.380431 | 0.049935 | 0 |
| 4/25/2021 | 7:18:03 | 10.178 | 33.39239 | 8.61 | 1.25059 | 0.431908 | 0.049859 | 0 |
| 4/25/2021 | 8:18:03 | 10.179 | 33.39567 | 8.66 | 1.25387 | 0.437961 | 0.049954 | 0 |
| 4/25/2021 | 9:18:03 | 10.179 | 33.39567 | 8.6 | 1.25387 | 0.437961 | 0.04984 | 0 |
| 4/25/2021 | 10:18:03 | 10.186 | 33.41864 | 8.6 | 1.276836 | 0.482283 | 0.04984 | 0 |
| 4/25/2021 | 11:18:03 | 10.185 | 33.41536 | 8.56 | 1.273555 | 0.475737 | 0.049764 | 0 |

4/27/2021 – 4/29/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/27/2021 | 19:18:03 | 10.103 | 33.14633 | 8.17 | 1.004527 | 0.134897 | 0.049023 | 0 |
| 4/27/2021 | 20:18:03 | 10.11 | 33.16929 | 8.16 | 1.027492 | 0.152106 | 0.049004 | 0 |
| 4/27/2021 | 21:18:03 | 10.116 | 33.18898 | 8.2 | 1.047177 | 0.168236 | 0.04908 | 0 |
| 4/27/2021 | 22:18:03 | 10.128 | 33.22835 | 8.2 | 1.086548 | 0.204669 | 0.04908 | 0 |
| 4/27/2021 | 23:18:03 | 10.122 | 33.20866 | 8.27 | 1.066862 | 0.185728 | 0.049213 | 0.00787402 |
| 4/28/2021 | 0:18:03 | 10.116 | 33.18898 | 8.3 | 1.047177 | 0.168236 | 0.04927 | 0 |
| 4/28/2021 | 1:18:03 | 10.113 | 33.17913 | 8.32 | 1.037335 | 0.160006 | 0.049308 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 4/28/2021 | 2:18:03 | 10.12 | 33.2021 | 8.35 | 1.060301 | 0.179741 | 0.049365 | 0 |
| 4/28/2021 | 3:18:03 | 10.114 | 33.18242 | 8.34 | 1.040616 | 0.162712 | 0.049346 | 0.07086618 |
| 4/28/2021 | 4:18:03 | 10.109 | 33.16601 | 8.37 | 1.024212 | 0.149544 | 0.049403 | 0.00787402 |
| 4/28/2021 | 5:18:03 | 10.103 | 33.14633 | 8.41 | 1.004527 | 0.134897 | 0.049479 | 0 |
| 4/28/2021 | 6:18:03 | 10.108 | 33.16273 | 8.43 | 1.020931 | 0.147017 | 0.049517 | 0.00787402 |
| 4/28/2021 | 7:18:03 | 10.117 | 33.19226 | 8.46 | 1.050458 | 0.171055 | 0.049574 | 0.01574804 |
| 4/28/2021 | 8:18:03 | 10.117 | 33.19226 | 8.49 | 1.050458 | 0.171055 | 0.049631 | 0.05511814 |
| 4/28/2021 | 9:18:03 | 10.115 | 33.1857 | 8.5 | 1.043897 | 0.165456 | 0.04965 | 0.00787402 |
| 4/28/2021 | 10:18:03 | 10.127 | 33.22507 | 8.49 | 1.083267 | 0.201408 | 0.049631 | 0 |
| 4/28/2021 | 11:18:03 | 10.13 | 33.23491 | 8.48 | 1.093109 | 0.211319 | 0.049612 | 0 |
| 4/28/2021 | 12:18:03 | 10.125 | 33.21851 | 8.48 | 1.076705 | 0.195012 | 0.049612 | 0.01574804 |
| 4/28/2021 | 13:18:03 | 10.122 | 33.20866 | 8.48 | 1.066862 | 0.185728 | 0.049612 | 0.02362206 |
| 4/28/2021 | 14:18:03 | 10.116 | 33.18898 | 8.5 | 1.047177 | 0.168236 | 0.04965 | 0.01574804 |
| 4/28/2021 | 15:18:03 | 10.113 | 33.17913 | 8.53 | 1.037335 | 0.160006 | 0.049707 | 0 |
| 4/28/2021 | 16:18:03 | 10.111 | 33.17257 | 8.52 | 1.030773 | 0.154703 | 0.049688 | 0 |
| 4/28/2021 | 17:18:03 | 10.104 | 33.14961 | 8.58 | 1.007807 | 0.137254 | 0.049802 | 0 |
| 4/28/2021 | 18:18:03 | 10.106 | 33.15617 | 8.6 | 1.014369 | 0.142067 | 0.04984 | 0 |
| 4/28/2021 | 19:18:03 | 10.11 | 33.16929 | 8.61 | 1.027492 | 0.152106 | 0.049859 | 0 |
| 4/28/2021 | 20:18:03 | 10.107 | 33.15945 | 8.66 | 1.01765 | 0.144525 | 0.049954 | 0 |
| 4/28/2021 | 21:18:03 | 10.114 | 33.18242 | 8.73 | 1.040616 | 0.162712 | 0.050087 | 0 |
| 4/28/2021 | 22:18:03 | 10.117 | 33.19226 | 8.74 | 1.050458 | 0.171055 | 0.050106 | 0.02362206 |
| 4/28/2021 | 23:18:03 | 10.12 | 33.2021 | 8.71 | 1.060301 | 0.179741 | 0.050049 | 0.02362206 |
| 4/29/2021 | 0:18:03 | 10.11 | 33.16929 | 8.7 | 1.027492 | 0.152106 | 0.05003 | 0 |
| 4/29/2021 | 1:18:03 | 10.104 | 33.14961 | 8.71 | 1.007807 | 0.137254 | 0.050049 | 0 |
| 4/29/2021 | 2:18:03 | 10.118 | 33.19554 | 8.72 | 1.053739 | 0.173911 | 0.050068 | 0 |
| 4/29/2021 | 3:18:03 | 10.112 | 33.17585 | 8.69 | 1.034054 | 0.157336 | 0.050011 | 0 |
| 4/29/2021 | 4:18:03 | 10.125 | 33.21851 | 8.72 | 1.076705 | 0.195012 | 0.050068 | 0 |
| 4/29/2021 | 5:18:03 | 10.134 | 33.24803 | 8.73 | 1.106233 | 0.225148 | 0.050087 | 0 |
| 4/29/2021 | 6:18:03 | 10.15 | 33.30053 | 8.76 | 1.158726 | 0.288009 | 0.050144 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 4/29/2021 | 7:18:03 | 10.162 | 33.3399 | 8.79 | 1.198096 | 0.343937 | 0.050201 | 0 |
| 4/29/2021 | 8:18:03 | 10.176 | 33.38583 | 8.79 | 1.244028 | 0.420007 | 0.050201 | 0 |
| 4/29/2021 | 9:18:03 | 10.177 | 33.38911 | 8.77 | 1.247309 | 0.425924 | 0.050163 | 0 |
| 4/29/2021 | 10:18:03 | 10.182 | 33.40551 | 8.79 | 1.263713 | 0.456532 | 0.050201 | 0 |
| 4/29/2021 | 11:18:03 | 10.193 | 33.4416 | 8.71 | 1.299802 | 0.530178 | 0.050049 | 0 |

5/9/2021 – 5/10/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/9/2021 | 4:18:03 | 10.019 | 32.87074 | 9 | 0.728936 | 0.024563 | 0.0506 | 0 |
| 5/9/2021 | 5:18:03 | 10.029 | 32.90354 | 8.99 | 0.761744 | 0.031034 | 0.050581 | 0 |
| 5/9/2021 | 6:18:03 | 10.038 | 32.93307 | 9 | 0.791272 | 0.037981 | 0.0506 | 0 |
| 5/9/2021 | 7:18:03 | 10.048 | 32.96588 | 9.03 | 0.82408 | 0.047128 | 0.050657 | 0.03149608 |
| 5/9/2021 | 8:18:03 | 10.076 | 33.05774 | 9.03 | 0.915944 | 0.082615 | 0.050657 | 0 |
| 5/9/2021 | 9:18:03 | 10.096 | 33.12336 | 9.06 | 0.981561 | 0.119304 | 0.050714 | 0 |
| 5/9/2021 | 10:18:03 | 10.114 | 33.18242 | 9.08 | 1.040616 | 0.162712 | 0.050752 | 0 |
| 5/9/2021 | 11:18:03 | 10.129 | 33.23163 | 9.06 | 1.089828 | 0.207972 | 0.050714 | 0 |
| 5/9/2021 | 12:18:03 | 10.136 | 33.25459 | 9.11 | 1.112794 | 0.232332 | 0.050809 | 0 |
| 5/9/2021 | 13:18:03 | 10.142 | 33.27428 | 9.07 | 1.132479 | 0.25501 | 0.050733 | 0 |
| 5/9/2021 | 14:18:03 | 10.15 | 33.30053 | 9.1 | 1.158726 | 0.288009 | 0.05079 | 0 |
| 5/9/2021 | 15:18:03 | 10.151 | 33.30381 | 9.08 | 1.162007 | 0.292367 | 0.050752 | 0 |
| 5/9/2021 | 16:18:03 | 10.151 | 33.30381 | 9.09 | 1.162007 | 0.292367 | 0.050771 | 0 |
| 5/9/2021 | 17:18:03 | 10.154 | 33.31365 | 9.06 | 1.171849 | 0.305763 | 0.050714 | 0 |
| 5/9/2021 | 18:18:03 | 10.155 | 33.31693 | 9.09 | 1.17513 | 0.310337 | 0.050771 | 0 |
| 5/9/2021 | 19:18:03 | 10.161 | 33.33662 | 9.07 | 1.194815 | 0.338964 | 0.050733 | 0 |
| 5/9/2021 | 20:18:03 | 10.159 | 33.33005 | 9.09 | 1.188254 | 0.329193 | 0.050771 | 0 |
| 5/9/2021 | 21:18:03 | 10.165 | 33.34974 | 9.06 | 1.207939 | 0.359212 | 0.050714 | 0 |
| 5/9/2021 | 22:18:03 | 10.179 | 33.39567 | 9.08 | 1.25387 | 0.437961 | 0.050752 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/9/2021 | 23:18:03 | 10.189 | 33.42848 | 9.13 | 1.286679 | 0.502359 | 0.050847 | 0 |
| 5/10/2021 | 0:18:03 | 10.193 | 33.4416 | 9.13 | 1.299802 | 0.530178 | 0.050847 | 0 |
| 5/10/2021 | 1:18:03 | 10.195 | 33.44816 | 9.1 | 1.306364 | 0.544549 | 0.05079 | 0 |
| 5/10/2021 | 2:18:03 | 10.183 | 33.40879 | 9.1 | 1.266994 | 0.462862 | 0.05079 | 0 |
| 5/10/2021 | 3:18:03 | 10.186 | 33.41864 | 9.12 | 1.276836 | 0.482283 | 0.050828 | 0 |
| 5/10/2021 | 4:18:03 | 10.189 | 33.42848 | 9.14 | 1.286679 | 0.502359 | 0.050866 | 0 |
| 5/10/2021 | 5:18:03 | 10.192 | 33.43832 | 9.18 | 1.296521 | 0.523109 | 0.050942 | 0 |
| 5/10/2021 | 6:18:03 | 10.184 | 33.41207 | 9.14 | 1.270275 | 0.469264 | 0.050866 | 0 |
| 5/10/2021 | 7:18:03 | 10.19 | 33.43176 | 9.17 | 1.28996 | 0.5092 | 0.050923 | 0 |
| 5/10/2021 | 8:18:03 | 10.191 | 33.43504 | 9.18 | 1.29324 | 0.516117 | 0.050942 | 0.00787402 |
| 5/10/2021 | 9:18:03 | 10.212 | 33.50394 | 9.2 | 1.362138 | 0.679946 | 0.05098 | 0 |
| 5/10/2021 | 10:18:03 | 10.211 | 33.50066 | 9.17 | 1.358857 | 0.671293 | 0.050923 | 0.02362206 |
| 5/10/2021 | 11:18:03 | 10.205 | 33.48097 | 9.19 | 1.339172 | 0.62123 | 0.050961 | 0.01574804 |
| 5/10/2021 | 12:18:03 | 10.2 | 33.46457 | 9.22 | 1.322768 | 0.581865 | 0.051018 | 0 |
| 5/10/2021 | 13:18:03 | 10.204 | 33.47769 | 9.18 | 1.335891 | 0.613189 | 0.050942 | 0 |
| 5/10/2021 | 14:18:03 | 10.196 | 33.45144 | 9.13 | 1.309645 | 0.551852 | 0.050847 | 0 |
| 5/10/2021 | 15:18:03 | 10.2 | 33.46457 | 9.1 | 1.322768 | 0.581865 | 0.05079 | 0 |
| 5/10/2021 | 16:18:03 | 10.198 | 33.45801 | 9.08 | 1.316206 | 0.566697 | 0.050752 | 0 |
| 5/10/2021 | 17:18:03 | 10.194 | 33.44488 | 9.05 | 1.303083 | 0.537325 | 0.050695 | 0 |
| 5/10/2021 | 18:18:03 | 10.195 | 33.44816 | 9 | 1.306364 | 0.544549 | 0.0506 | 0 |
| 5/10/2021 | 19:18:03 | 10.197 | 33.45473 | 9 | 1.312925 | 0.559235 | 0.0506 | 0 |
| 5/10/2021 | 20:18:03 | 10.195 | 33.44816 | 8.98 | 1.306364 | 0.544549 | 0.050562 | 0 |
| 5/10/2021 | 21:18:03 | 10.2 | 33.46457 | 9.01 | 1.322768 | 0.581865 | 0.050619 | 0 |

5/14/2021 – 5/15/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/14/2021 | 21:18:03 | 10.178 | 33.39239 | 9.13 | 1.25059 | 0.431908 | 0.050847 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/14/2021 | 22:18:03 | 10.182 | 33.40551 | 9.12 | 1.263713 | 0.456532 | 0.050828 | 0 |
| 5/14/2021 | 23:18:03 | 10.185 | 33.41536 | 9.21 | 1.273555 | 0.475737 | 0.050999 | 0 |
| 5/15/2021 | 0:18:03 | 10.187 | 33.42192 | 9.21 | 1.280117 | 0.488901 | 0.050999 | 0 |
| 5/15/2021 | 1:18:03 | 10.188 | 33.4252 | 9.22 | 1.283398 | 0.495593 | 0.051018 | 0 |
| 5/15/2021 | 2:18:03 | 10.184 | 33.41207 | 9.25 | 1.270275 | 0.469264 | 0.051075 | 0 |
| 5/15/2021 | 3:18:03 | 10.18 | 33.39895 | 9.28 | 1.257151 | 0.444081 | 0.051132 | 0 |
| 5/15/2021 | 4:18:03 | 10.172 | 33.3727 | 9.27 | 1.230904 | 0.397004 | 0.051113 | 0 |
| 5/15/2021 | 5:18:03 | 10.186 | 33.41864 | 9.29 | 1.276836 | 0.482283 | 0.051151 | 0 |
| 5/15/2021 | 6:18:03 | 10.186 | 33.41864 | 9.35 | 1.276836 | 0.482283 | 0.051265 | 0 |
| 5/15/2021 | 7:18:03 | 10.184 | 33.41207 | 9.35 | 1.270275 | 0.469264 | 0.051265 | 0.05511814 |
| 5/15/2021 | 8:18:03 | 10.178 | 33.39239 | 9.37 | 1.25059 | 0.431908 | 0.051303 | 0.13385834 |
| 5/15/2021 | 9:18:03 | 10.189 | 33.42848 | 9.4 | 1.286679 | 0.502359 | 0.05136 | 0.01574804 |
| 5/15/2021 | 10:18:03 | 10.186 | 33.41864 | 9.35 | 1.276836 | 0.482283 | 0.051265 | 0 |
| 5/15/2021 | 11:18:03 | 10.186 | 33.41864 | 9.38 | 1.276836 | 0.482283 | 0.051322 | 0 |
| 5/15/2021 | 12:18:03 | 10.186 | 33.41864 | 9.37 | 1.276836 | 0.482283 | 0.051303 | 0 |
| 5/15/2021 | 13:18:03 | 10.183 | 33.40879 | 9.31 | 1.266994 | 0.462862 | 0.051189 | 0 |
| 5/15/2021 | 14:18:03 | 10.174 | 33.37927 | 9.28 | 1.237466 | 0.408374 | 0.051132 | 0 |
| 5/15/2021 | 15:18:03 | 10.175 | 33.38255 | 9.34 | 1.240747 | 0.414158 | 0.051246 | 0 |
| 5/15/2021 | 16:18:03 | 10.171 | 33.36942 | 9.37 | 1.227624 | 0.391415 | 0.051303 | 0 |
| 5/15/2021 | 17:18:03 | 10.165 | 33.34974 | 9.37 | 1.207939 | 0.359212 | 0.051303 | 0 |

5/18/2021 – 5/21/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/18/2021 | 14:18:03 | 10.182 | 33.40551 | 9.22 | 1.263713 | 0.456532 | 0.051018 | 0 |
| 5/18/2021 | 15:18:03 | 10.176 | 33.38583 | 9.29 | 1.244028 | 0.420007 | 0.051151 | 0 |
| 5/18/2021 | 16:18:03 | 10.167 | 33.3563 | 9.28 | 1.2145 | 0.369698 | 0.051132 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/18/2021 | 17:18:03 | 10.164 | 33.34646 | 9.36 | 1.204658 | 0.35406 | 0.051284 | 0 |
| 5/18/2021 | 18:18:03 | 10.164 | 33.34646 | 9.34 | 1.204658 | 0.35406 | 0.051246 | 0 |
| 5/18/2021 | 19:18:03 | 10.162 | 33.3399 | 9.38 | 1.198096 | 0.343937 | 0.051322 | 0 |
| 5/18/2021 | 20:18:03 | 10.165 | 33.34974 | 9.41 | 1.207939 | 0.359212 | 0.051379 | 0 |
| 5/18/2021 | 21:18:03 | 10.17 | 33.36614 | 9.39 | 1.224343 | 0.385891 | 0.051341 | 0 |
| 5/18/2021 | 22:18:03 | 10.172 | 33.3727 | 9.43 | 1.230904 | 0.397004 | 0.051417 | 0 |
| 5/18/2021 | 23:18:03 | 10.171 | 33.36942 | 9.39 | 1.227624 | 0.391415 | 0.051341 | 0 |
| 5/19/2021 | 0:18:03 | 10.17 | 33.36614 | 9.38 | 1.224343 | 0.385891 | 0.051322 | 0 |
| 5/19/2021 | 1:18:03 | 10.167 | 33.3563 | 9.37 | 1.2145 | 0.369698 | 0.051303 | 0 |
| 5/19/2021 | 2:18:03 | 10.161 | 33.33662 | 9.4 | 1.194815 | 0.338964 | 0.05136 | 0 |
| 5/19/2021 | 3:18:03 | 10.16 | 33.33333 | 9.41 | 1.191534 | 0.334049 | 0.051379 | 0.06299216 |
| 5/19/2021 | 4:18:03 | 10.163 | 33.34318 | 9.38 | 1.201377 | 0.348969 | 0.051322 | 0.1181103 |
| 5/19/2021 | 5:18:03 | 10.166 | 33.35302 | 9.4 | 1.211219 | 0.364424 | 0.05136 | 0.007874 |
| 5/19/2021 | 6:18:03 | 10.176 | 33.38583 | 9.44 | 1.244028 | 0.420007 | 0.051436 | 0 |
| 5/19/2021 | 7:18:03 | 10.179 | 33.39567 | 9.43 | 1.25387 | 0.437961 | 0.051417 | 0 |
| 5/19/2021 | 8:18:03 | 10.189 | 33.42848 | 9.39 | 1.286679 | 0.502359 | 0.051341 | 0.02362206 |
| 5/19/2021 | 9:18:03 | 10.189 | 33.42848 | 9.4 | 1.286679 | 0.502359 | 0.05136 | 0.007874 |
| 5/19/2021 | 10:18:03 | 10.191 | 33.43504 | 9.38 | 1.29324 | 0.516117 | 0.051322 | 0 |
| 5/19/2021 | 11:18:03 | 10.188 | 33.4252 | 9.36 | 1.283398 | 0.495593 | 0.051284 | 0 |
| 5/19/2021 | 12:18:03 | 10.187 | 33.42192 | 9.38 | 1.280117 | 0.488901 | 0.051322 | 0 |
| 5/19/2021 | 13:18:03 | 10.188 | 33.4252 | 9.29 | 1.283398 | 0.495593 | 0.051151 | 0 |
| 5/19/2021 | 14:18:03 | 10.182 | 33.40551 | 9.26 | 1.263713 | 0.456532 | 0.051094 | 0 |
| 5/19/2021 | 15:18:03 | 10.181 | 33.40223 | 9.26 | 1.260432 | 0.450272 | 0.051094 | 0.05511814 |
| 5/19/2021 | 16:18:03 | 10.182 | 33.40551 | 9.22 | 1.263713 | 0.456532 | 0.051018 | 0 |
| 5/19/2021 | 17:18:03 | 10.183 | 33.40879 | 9.21 | 1.266994 | 0.462862 | 0.050999 | 0.007874 |
| 5/19/2021 | 18:18:03 | 10.184 | 33.41207 | 9.17 | 1.270275 | 0.469264 | 0.050923 | 0.05511814 |
| 5/19/2021 | 19:18:03 | 10.183 | 33.40879 | 9.18 | 1.266994 | 0.462862 | 0.050942 | 0.05511814 |
| 5/19/2021 | 20:18:03 | 10.183 | 33.40879 | 9.16 | 1.266994 | 0.462862 | 0.050904 | 0.01574804 |
| 5/19/2021 | 21:18:03 | 10.187 | 33.42192 | 9.16 | 1.280117 | 0.488901 | 0.050904 | 0 |
| 5/19/2021 | 22:18:03 | 10.196 | 33.45144 | 9.21 | 1.309645 | 0.551852 | 0.050999 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/19/2021 | 23:18:03 | 10.203 | 33.47441 | 9.19 | 1.332611 | 0.605232 | 0.050961 | 0.0393701 |
| 5/20/2021 | 0:18:03 | 10.209 | 33.4941 | 9.17 | 1.352296 | 0.654254 | 0.050923 | 0 |
| 5/20/2021 | 1:18:03 | 10.216 | 33.51706 | 9.13 | 1.375261 | 0.71547 | 0.050847 | 0 |
| 5/20/2021 | 2:18:03 | 10.228 | 33.55643 | 9.1 | 1.414632 | 0.831185 | 0.05079 | 0 |
| 5/20/2021 | 3:18:03 | 10.23 | 33.56299 | 9.06 | 1.421193 | 0.851868 | 0.050714 | 0 |
| 5/20/2021 | 4:18:03 | 10.229 | 33.55971 | 9.01 | 1.417912 | 0.841475 | 0.050619 | 0 |
| 5/20/2021 | 5:18:03 | 10.23 | 33.56299 | 9.01 | 1.421193 | 0.851868 | 0.050619 | 0 |
| 5/20/2021 | 6:18:03 | 10.228 | 33.55643 | 8.97 | 1.414632 | 0.831185 | 0.050543 | 0 |
| 5/20/2021 | 7:18:03 | 10.231 | 33.56627 | 9.02 | 1.424474 | 0.862365 | 0.050638 | 0 |
| 5/20/2021 | 8:18:03 | 10.233 | 33.57284 | 8.97 | 1.431036 | 0.883674 | 0.050543 | 0 |
| 5/20/2021 | 9:18:03 | 10.235 | 33.5794 | 8.93 | 1.437597 | 0.905409 | 0.050467 | 0 |
| 5/20/2021 | 10:18:03 | 10.238 | 33.58924 | 8.95 | 1.44744 | 0.938822 | 0.050505 | 0.007874 |
| 5/20/2021 | 11:18:03 | 10.24 | 33.5958 | 9.01 | 1.454002 | 0.961649 | 0.050619 | 0.08661422 |
| 5/20/2021 | 12:18:03 | 10.244 | 33.60892 | 9 | 1.467125 | 1.008655 | 0.0506 | 0.01574804 |
| 5/20/2021 | 13:18:03 | 10.248 | 33.62205 | 8.97 | 1.480248 | 1.057508 | 0.050543 | 0.01574804 |
| 5/20/2021 | 14:18:03 | 10.249 | 33.62533 | 9 | 1.483529 | 1.070017 | 0.0506 | 0 |
| 5/20/2021 | 15:18:03 | 10.251 | 33.63189 | 9.02 | 1.490091 | 1.095395 | 0.050638 | 0 |
| 5/20/2021 | 16:18:03 | 10.252 | 33.63517 | 9.01 | 1.493372 | 1.108265 | 0.050619 | 0 |
| 5/20/2021 | 17:18:03 | 10.256 | 33.6483 | 9.05 | 1.506495 | 1.160982 | 0.050695 | 0 |
| 5/20/2021 | 18:18:03 | 10.257 | 33.65158 | 9.02 | 1.509776 | 1.174475 | 0.050638 | 0 |
| 5/20/2021 | 19:18:03 | 10.258 | 33.65486 | 9.07 | 1.513057 | 1.188094 | 0.050733 | 0 |
| 5/20/2021 | 20:18:03 | 10.26 | 33.66142 | 9.05 | 1.519618 | 1.215717 | 0.050695 | 0 |
| 5/20/2021 | 21:18:03 | 10.263 | 33.67126 | 9.04 | 1.529461 | 1.258127 | 0.050676 | 0 |
| 5/20/2021 | 22:18:03 | 10.268 | 33.68767 | 9.04 | 1.545865 | 1.331475 | 0.050676 | 0 |
| 5/20/2021 | 23:18:03 | 10.273 | 33.70407 | 9.06 | 1.562269 | 1.408256 | 0.050714 | 0 |
| 5/21/2021 | 0:18:03 | 10.279 | 33.72375 | 9.04 | 1.581954 | 1.505097 | 0.050676 | 0.03149608 |
| 5/21/2021 | 1:18:03 | 10.279 | 33.72375 | 9.05 | 1.581954 | 1.505097 | 0.050695 | 0 |
| 5/21/2021 | 2:18:03 | 10.277 | 33.71719 | 9.01 | 1.575393 | 1.472235 | 0.050619 | 0 |
| 5/21/2021 | 3:18:03 | 10.279 | 33.72375 | 9.03 | 1.581954 | 1.505097 | 0.050657 | 0 |
| 5/21/2021 | 4:18:03 | 10.288 | 33.75328 | 9 | 1.611482 | 1.660436 | 0.0506 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 5/21/2021 | 5:18:03 | 10.291 | 33.76312 | 8.94 | 1.621324 | 1.715015 | 0.050486 | 0 |
| 5/21/2021 | 6:18:03 | 10.294 | 33.77297 | 8.98 | 1.631167 | 1.771041 | 0.050562 | 0 |
| 5/21/2021 | 7:18:03 | 10.301 | 33.79593 | 9 | 1.654133 | 1.907562 | 0.0506 | 0 |
| 5/21/2021 | 8:18:03 | 10.305 | 33.80906 | 8.93 | 1.667256 | 1.98933 | 0.050467 | 0 |
| 5/21/2021 | 9:18:03 | 10.304 | 33.80578 | 8.93 | 1.663975 | 1.968626 | 0.050467 | 0 |
| 5/21/2021 | 10:18:03 | 10.305 | 33.80906 | 8.93 | 1.667256 | 1.98933 | 0.050467 | 0 |
| 5/21/2021 | 11:18:03 | 10.306 | 33.81234 | 8.87 | 1.670537 | 2.01021 | 0.050353 | 0 |

5/21/2021 – 5/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/21/2021 | 12:18:03 | 10.306 | 33.81234 | 8.85 | 1.670537 | 2.01021 | 0.050315 | 0 |
| 5/21/2021 | 13:18:03 | 10.31 | 33.82546 | 8.84 | 1.68366 | 2.095517 | 0.050296 | 0 |
| 5/21/2021 | 14:18:03 | 10.31 | 33.82546 | 8.83 | 1.68366 | 2.095517 | 0.050277 | 0 |
| 5/21/2021 | 15:18:03 | 10.305 | 33.80906 | 8.82 | 1.667256 | 1.98933 | 0.050258 | 0 |
| 5/21/2021 | 16:18:03 | 10.302 | 33.79921 | 8.81 | 1.657414 | 1.927743 | 0.050239 | 0 |
| 5/21/2021 | 17:18:03 | 10.3 | 33.79265 | 8.81 | 1.650852 | 1.887552 | 0.050239 | 0 |
| 5/21/2021 | 18:18:03 | 10.3 | 33.79265 | 8.79 | 1.650852 | 1.887552 | 0.050201 | 0 |
| 5/21/2021 | 19:18:03 | 10.301 | 33.79593 | 8.82 | 1.654133 | 1.907562 | 0.050258 | 0 |
| 5/21/2021 | 20:18:03 | 10.301 | 33.79593 | 8.81 | 1.654133 | 1.907562 | 0.050239 | 0 |
| 5/21/2021 | 21:18:03 | 10.302 | 33.79921 | 8.87 | 1.657414 | 1.927743 | 0.050353 | 0 |
| 5/21/2021 | 22:18:03 | 10.306 | 33.81234 | 8.82 | 1.670537 | 2.01021 | 0.050258 | 0.02362206 |
| 5/21/2021 | 23:18:03 | 10.306 | 33.81234 | 8.82 | 1.670537 | 2.01021 | 0.050258 | 0 |
| 5/22/2021 | 0:18:03 | 10.303 | 33.80249 | 8.82 | 1.660695 | 1.948098 | 0.050258 | 0 |
| 5/22/2021 | 1:18:03 | 10.298 | 33.78609 | 8.84 | 1.64429 | 1.848044 | 0.050296 | 0 |
| 5/22/2021 | 2:18:03 | 10.29 | 33.75984 | 8.83 | 1.618044 | 1.696663 | 0.050277 | 0 |
| 5/22/2021 | 3:18:03 | 10.286 | 33.74672 | 8.79 | 1.60492 | 1.62484 | 0.050201 | 0 |
| 5/22/2021 | 4:18:03 | 10.289 | 33.75656 | 8.84 | 1.614763 | 1.67847 | 0.050296 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/22/2021 | 5:18:03 | 10.293 | 33.76969 | 8.86 | 1.627886 | 1.752203 | 0.050334 | 0 |
| 5/22/2021 | 6:18:03 | 10.3 | 33.79265 | 8.79 | 1.650852 | 1.887552 | 0.050201 | 0.0787402 |
| 5/22/2021 | 7:18:03 | 10.314 | 33.83858 | 8.76 | 1.696784 | 2.18374 | 0.050144 | 0.09448824 |
| 5/22/2021 | 8:18:03 | 10.328 | 33.88452 | 8.74 | 1.742716 | 2.516588 | 0.050106 | 0.1574804 |
| 5/22/2021 | 9:18:03 | 10.346 | 33.94357 | 8.82 | 1.801771 | 3.00388 | 0.050258 | 0.01574804 |
| 5/22/2021 | 10:18:03 | 10.379 | 34.05184 | 8.67 | 1.910038 | 4.09529 | 0.049973 | 0 |
| 5/22/2021 | 11:18:03 | 10.414 | 34.16667 | 8.66 | 2.024868 | 5.584064 | 0.049954 | 0 |
| 5/22/2021 | 12:18:03 | 10.435 | 34.23557 | 8.53 | 2.093765 | 6.670076 | 0.049707 | 0 |
| 5/22/2021 | 13:18:03 | 10.446 | 34.27165 | 8.37 | 2.129855 | 7.303835 | 0.049403 | 0 |
| 5/22/2021 | 14:18:03 | 10.445 | 34.26837 | 8.32 | 2.126574 | 7.244276 | 0.049308 | 0 |
| 5/22/2021 | 15:18:03 | 10.442 | 34.25853 | 8.25 | 2.116731 | 7.067961 | 0.049175 | 0 |
| 5/22/2021 | 16:18:03 | 10.433 | 34.229 | 8.17 | 2.087204 | 6.559799 | 0.049023 | 0 |
| 5/22/2021 | 17:18:03 | 10.421 | 34.18963 | 8.12 | 2.047834 | 5.928778 | 0.048928 | 0 |
| 5/22/2021 | 18:18:03 | 10.408 | 34.14698 | 8.12 | 2.005183 | 5.301711 | 0.048928 | 0 |
| 5/22/2021 | 19:18:03 | 10.396 | 34.10761 | 8.11 | 1.965813 | 4.771732 | 0.048909 | 0 |
| 5/22/2021 | 20:18:03 | 10.386 | 34.0748 | 8.1 | 1.933004 | 4.363692 | 0.04889 | 0 |
| 5/22/2021 | 21:18:03 | 10.375 | 34.03872 | 8.12 | 1.896915 | 3.948039 | 0.048928 | 0 |
| 5/22/2021 | 22:18:03 | 10.369 | 34.01903 | 8.17 | 1.87723 | 3.735245 | 0.049023 | 0 |
| 5/22/2021 | 23:18:03 | 10.364 | 34.00263 | 8.21 | 1.860826 | 3.565116 | 0.049099 | 0 |
| 5/23/2021 | 0:18:03 | 10.357 | 33.97966 | 8.27 | 1.83786 | 3.337553 | 0.049213 | 0 |
| 5/23/2021 | 1:18:03 | 10.353 | 33.96654 | 8.27 | 1.824737 | 3.212907 | 0.049213 | 0 |
| 5/23/2021 | 2:18:03 | 10.346 | 33.94357 | 8.31 | 1.801771 | 3.00388 | 0.049289 | 0 |
| 5/23/2021 | 3:18:03 | 10.337 | 33.91404 | 8.29 | 1.772243 | 2.751487 | 0.049251 | 0 |
| 5/23/2021 | 4:18:03 | 10.33 | 33.89108 | 8.3 | 1.749277 | 2.567325 | 0.04927 | 0 |
| 5/23/2021 | 5:18:03 | 10.325 | 33.87467 | 8.35 | 1.732873 | 2.442011 | 0.049365 | 0 |
| 5/23/2021 | 6:18:03 | 10.324 | 33.87139 | 8.34 | 1.729592 | 2.417554 | 0.049346 | 0 |
| 5/23/2021 | 7:18:03 | 10.325 | 33.87467 | 8.35 | 1.732873 | 2.442011 | 0.049365 | 0 |
| 5/23/2021 | 8:18:03 | 10.323 | 33.86811 | 8.36 | 1.726311 | 2.393297 | 0.049384 | 0 |
| 5/23/2021 | 9:18:03 | 10.326 | 33.87795 | 8.42 | 1.736154 | 2.466667 | 0.049498 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 5/23/2021 | 10:18:03 | 10.322 | 33.86483 | 8.37 | 1.72303 | 2.369237 | 0.049403 | 0 |
| 5/23/2021 | 11:18:03 | 10.319 | 33.85499 | 8.38 | 1.713188 | 2.298235 | 0.049422 | 0 |
| 5/23/2021 | 12:18:03 | 10.316 | 33.84515 | 8.42 | 1.703345 | 2.228969 | 0.049498 | 0 |

5/31/2021 – 6/2/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/31/2021 | 12:18:03 | 10.247 | 33.61877 | 9.19 | 1.476967 | 1.045119 | 0.050961 | 0 |
| 5/31/2021 | 13:18:03 | 10.247 | 33.61877 | 9.2 | 1.476967 | 1.045119 | 0.05098 | 0 |
| 5/31/2021 | 14:18:03 | 10.246 | 33.61549 | 9.28 | 1.473687 | 1.032847 | 0.051132 | 0 |
| 5/31/2021 | 15:18:03 | 10.24 | 33.5958 | 9.28 | 1.454002 | 0.961649 | 0.051132 | 0 |
| 5/31/2021 | 16:18:03 | 10.238 | 33.58924 | 9.27 | 1.44744 | 0.938822 | 0.051113 | 0.04724412 |
| 5/31/2021 | 17:18:03 | 10.232 | 33.56955 | 9.32 | 1.427755 | 0.872967 | 0.051208 | 0.03149608 |
| 5/31/2021 | 18:18:03 | 10.232 | 33.56955 | 9.32 | 1.427755 | 0.872967 | 0.051208 | 0.02362206 |
| 5/31/2021 | 19:18:03 | 10.232 | 33.56955 | 9.34 | 1.427755 | 0.872967 | 0.051246 | 0.01574804 |
| 5/31/2021 | 20:18:03 | 10.231 | 33.56627 | 9.33 | 1.424474 | 0.862365 | 0.051227 | 0 |
| 5/31/2021 | 21:18:03 | 10.233 | 33.57284 | 9.39 | 1.431036 | 0.883674 | 0.051341 | 0.02362206 |
| 5/31/2021 | 22:18:03 | 10.242 | 33.60236 | 9.41 | 1.460563 | 0.984924 | 0.051379 | 0.03149608 |
| 5/31/2021 | 23:18:03 | 10.242 | 33.60236 | 9.42 | 1.460563 | 0.984924 | 0.051398 | 0.01574804 |
| 6/1/2021 | 0:18:03 | 10.242 | 33.60236 | 9.44 | 1.460563 | 0.984924 | 0.051436 | 0.03149608 |
| 6/1/2021 | 1:18:03 | 10.237 | 33.58596 | 9.42 | 1.444159 | 0.927575 | 0.051398 | 0.04724412 |
| 6/1/2021 | 2:18:03 | 10.238 | 33.58924 | 9.43 | 1.44744 | 0.938822 | 0.051417 | 0.10236226 |
| 6/1/2021 | 3:18:03 | 10.242 | 33.60236 | 9.39 | 1.460563 | 0.984924 | 0.051341 | 0.07086618 |
| 6/1/2021 | 4:18:03 | 10.25 | 33.62861 | 9.29 | 1.48681 | 1.082645 | 0.051151 | 0.11023628 |
| 6/1/2021 | 5:18:03 | 10.271 | 33.69751 | 9.31 | 1.555708 | 1.377123 | 0.051189 | 0.02362206 |
| 6/1/2021 | 6:18:03 | 10.288 | 33.75328 | 9.32 | 1.611482 | 1.660436 | 0.051208 | 0 |
| 6/1/2021 | 7:18:03 | 10.305 | 33.80906 | 9.33 | 1.667256 | 1.98933 | 0.051227 | 0 |
| 6/1/2021 | 8:18:03 | 10.323 | 33.86811 | 9.32 | 1.726311 | 2.393297 | 0.051208 | 0 |

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|----------|----------|--------|----------|------|----------|----------|----------|---|
| 6/1/2021 | 9:18:03 | 10.334 | 33.9042 | 9.27 | 1.762401 | 2.671291 | 0.051113 | 0 |
| 6/1/2021 | 10:18:03 | 10.338 | 33.91732 | 9.2 | 1.775524 | 2.778649 | 0.05098 | 0 |
| 6/1/2021 | 11:18:03 | 10.346 | 33.94357 | 9.11 | 1.801771 | 3.00388 | 0.050809 | 0 |
| 6/1/2021 | 12:18:03 | 10.35 | 33.95669 | 9.06 | 1.814894 | 3.121925 | 0.050714 | 0 |
| 6/1/2021 | 13:18:03 | 10.348 | 33.95013 | 8.91 | 1.808332 | 3.062441 | 0.050429 | 0 |
| 6/1/2021 | 14:18:03 | 10.339 | 33.9206 | 8.88 | 1.778805 | 2.806029 | 0.050372 | 0 |
| 6/1/2021 | 15:18:03 | 10.33 | 33.89108 | 8.85 | 1.749277 | 2.567325 | 0.050315 | 0 |
| 6/1/2021 | 16:18:03 | 10.32 | 33.85827 | 8.82 | 1.716469 | 2.321707 | 0.050258 | 0 |
| 6/1/2021 | 17:18:03 | 10.31 | 33.82546 | 8.86 | 1.68366 | 2.095517 | 0.050334 | 0 |
| 6/1/2021 | 18:18:03 | 10.298 | 33.78609 | 8.92 | 1.64429 | 1.848044 | 0.050448 | 0 |
| 6/1/2021 | 19:18:03 | 10.288 | 33.75328 | 8.96 | 1.611482 | 1.660436 | 0.050524 | 0 |
| 6/1/2021 | 20:18:03 | 10.283 | 33.73688 | 9.01 | 1.595078 | 1.57261 | 0.050619 | 0 |
| 6/1/2021 | 21:18:03 | 10.275 | 33.71063 | 9.03 | 1.568831 | 1.439957 | 0.050657 | 0 |
| 6/1/2021 | 22:18:03 | 10.271 | 33.69751 | 9.11 | 1.555708 | 1.377123 | 0.050809 | 0 |
| 6/1/2021 | 23:18:03 | 10.268 | 33.68767 | 9.16 | 1.545865 | 1.331475 | 0.050904 | 0 |
| 6/2/2021 | 0:18:03 | 10.259 | 33.65814 | 9.24 | 1.516338 | 1.201841 | 0.051056 | 0 |
| 6/2/2021 | 1:18:03 | 10.254 | 33.64173 | 9.22 | 1.499933 | 1.134375 | 0.051018 | 0 |
| 6/2/2021 | 2:18:03 | 10.242 | 33.60236 | 9.29 | 1.460563 | 0.984924 | 0.051151 | 0 |
| 6/2/2021 | 3:18:03 | 10.234 | 33.57612 | 9.32 | 1.434317 | 0.894488 | 0.051208 | 0 |
| 6/2/2021 | 4:18:03 | 10.232 | 33.56955 | 9.38 | 1.427755 | 0.872967 | 0.051322 | 0 |
| 6/2/2021 | 5:18:03 | 10.229 | 33.55971 | 9.42 | 1.417912 | 0.841475 | 0.051398 | 0 |
| 6/2/2021 | 6:18:03 | 10.214 | 33.5105 | 9.44 | 1.3687 | 0.697525 | 0.051436 | 0 |
| 6/2/2021 | 7:18:03 | 10.222 | 33.53675 | 9.47 | 1.394946 | 0.771568 | 0.051493 | 0 |
| 6/2/2021 | 8:18:03 | 10.227 | 33.55315 | 9.48 | 1.411351 | 0.820997 | 0.051512 | 0 |
| 6/2/2021 | 9:18:03 | 10.229 | 33.55971 | 9.44 | 1.417912 | 0.841475 | 0.051436 | 0 |
| 6/2/2021 | 10:18:03 | 10.227 | 33.55315 | 9.48 | 1.411351 | 0.820997 | 0.051512 | 0 |
| 6/2/2021 | 11:18:03 | 10.227 | 33.55315 | 9.54 | 1.411351 | 0.820997 | 0.051626 | 0 |
| 6/2/2021 | 12:18:03 | 10.223 | 33.54003 | 9.54 | 1.398227 | 0.781255 | 0.051626 | 0 |

6/7/2021 – 6/8/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 6/7/2021 | 15:18:03 | 10.131 | 33.23819 | 7.57 | 1.09639 | 0.21471 | 0.047883 | 0 |
| 6/7/2021 | 16:18:03 | 10.127 | 33.22507 | 7.6 | 1.083267 | 0.201408 | 0.04794 | 0 |
| 6/7/2021 | 17:18:03 | 10.125 | 33.21851 | 7.65 | 1.076705 | 0.195012 | 0.048035 | 0 |
| 6/7/2021 | 18:18:03 | 10.116 | 33.18898 | 7.63 | 1.047177 | 0.168236 | 0.047997 | 0 |
| 6/7/2021 | 19:18:03 | 10.119 | 33.19882 | 7.53 | 1.05702 | 0.176807 | 0.047807 | 0 |
| 6/7/2021 | 20:18:03 | 10.128 | 33.22835 | 7.51 | 1.086548 | 0.204669 | 0.047769 | 0 |
| 6/7/2021 | 21:18:03 | 10.133 | 33.24475 | 7.47 | 1.102952 | 0.221624 | 0.047693 | 0 |
| 6/7/2021 | 22:18:03 | 10.14 | 33.26772 | 7.42 | 1.125918 | 0.247259 | 0.047598 | 0 |
| 6/7/2021 | 23:18:03 | 10.143 | 33.27756 | 7.38 | 1.13576 | 0.258958 | 0.047522 | 0 |
| 6/8/2021 | 0:18:03 | 10.139 | 33.26444 | 7.35 | 1.122637 | 0.243457 | 0.047465 | 0.01574804 |
| 6/8/2021 | 1:18:03 | 10.136 | 33.25459 | 7.32 | 1.112794 | 0.232332 | 0.047408 | 0.18110246 |
| 6/8/2021 | 2:18:03 | 10.135 | 33.25131 | 7.3 | 1.109513 | 0.228717 | 0.04737 | 0 |
| 6/8/2021 | 3:18:03 | 10.131 | 33.23819 | 7.33 | 1.09639 | 0.21471 | 0.047427 | 0 |
| 6/8/2021 | 4:18:03 | 10.132 | 33.24147 | 7.29 | 1.099671 | 0.218145 | 0.047351 | 0 |
| 6/8/2021 | 5:18:03 | 10.141 | 33.271 | 7.25 | 1.129198 | 0.25111 | 0.047275 | 0 |
| 6/8/2021 | 6:18:03 | 10.147 | 33.29068 | 7.23 | 1.148883 | 0.275251 | 0.047237 | 0 |
| 6/8/2021 | 7:18:03 | 10.151 | 33.30381 | 7.21 | 1.162007 | 0.292367 | 0.047199 | 0 |
| 6/8/2021 | 8:18:03 | 10.15 | 33.30053 | 7.2 | 1.158726 | 0.288009 | 0.04718 | 0 |
| 6/8/2021 | 9:18:03 | 10.152 | 33.30709 | 7.17 | 1.165288 | 0.296778 | 0.047123 | 0 |

7/21/2021 – 7/23/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 7/21/2021 | 11:00:00 | 10.228 | 33.55643 | 9.92 | 1.414632 | 0.831185 | 0.052348 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 7/21/2021 | 12:00:00 | 10.226 | 33.54987 | 9.88 | 1.40807 | 0.810912 | 0.052272 | 0 |
| 7/21/2021 | 13:00:00 | 10.224 | 33.54331 | 9.84 | 1.401508 | 0.791041 | 0.052196 | 0 |
| 7/21/2021 | 14:00:00 | 10.22 | 33.53018 | 9.85 | 1.388385 | 0.752486 | 0.052215 | 0 |
| 7/21/2021 | 15:00:00 | 10.215 | 33.51378 | 9.89 | 1.371981 | 0.706451 | 0.052291 | 0 |
| 7/21/2021 | 16:00:00 | 10.211 | 33.50066 | 9.95 | 1.358857 | 0.671293 | 0.052405 | 0 |
| 7/21/2021 | 17:00:00 | 10.21 | 33.49738 | 10.06 | 1.355576 | 0.662729 | 0.052614 | 0 |
| 7/21/2021 | 18:00:00 | 10.209 | 33.4941 | 9.99 | 1.352296 | 0.654254 | 0.052481 | 0 |
| 7/21/2021 | 19:00:00 | 10.207 | 33.48753 | 9.83 | 1.345734 | 0.637568 | 0.052177 | 0 |
| 7/21/2021 | 20:00:00 | 10.209 | 33.4941 | 9.73 | 1.352296 | 0.654254 | 0.051987 | 0 |
| 7/21/2021 | 21:00:00 | 10.209 | 33.4941 | 9.71 | 1.352296 | 0.654254 | 0.051949 | 0 |
| 7/21/2021 | 22:00:00 | 10.214 | 33.5105 | 9.71 | 1.3687 | 0.697525 | 0.051949 | 0.01574804 |
| 7/21/2021 | 23:00:00 | 10.216 | 33.51706 | 9.55 | 1.375261 | 0.71547 | 0.051645 | 0.04724412 |
| 7/22/2021 | 0:00:00 | 10.218 | 33.52362 | 9.44 | 1.381823 | 0.733788 | 0.051436 | 0 |
| 7/22/2021 | 1:00:00 | 10.219 | 33.5269 | 9.3 | 1.385104 | 0.743089 | 0.05117 | 0 |
| 7/22/2021 | 2:00:00 | 10.216 | 33.51706 | 9.13 | 1.375261 | 0.71547 | 0.050847 | 0 |
| 7/22/2021 | 3:00:00 | 10.214 | 33.5105 | 8.95 | 1.3687 | 0.697525 | 0.050505 | 0 |
| 7/22/2021 | 4:00:00 | 10.212 | 33.50394 | 8.73 | 1.362138 | 0.679946 | 0.050087 | 0 |
| 7/22/2021 | 5:00:00 | 10.211 | 33.50066 | 8.54 | 1.358857 | 0.671293 | 0.049726 | 0 |
| 7/22/2021 | 6:00:00 | 10.213 | 33.50722 | 8.44 | 1.365419 | 0.68869 | 0.049536 | 0 |
| 7/22/2021 | 7:00:00 | 10.217 | 33.52034 | 8.35 | 1.378542 | 0.724582 | 0.049365 | 0 |
| 7/22/2021 | 8:00:00 | 10.217 | 33.52034 | 8.24 | 1.378542 | 0.724582 | 0.049156 | 0 |
| 7/22/2021 | 9:00:00 | 10.222 | 33.53675 | 8.1 | 1.394946 | 0.771568 | 0.04889 | 0 |
| 7/22/2021 | 10:00:00 | 10.224 | 33.54331 | 8.1 | 1.401508 | 0.791041 | 0.04889 | 0 |
| 7/22/2021 | 11:00:00 | 10.225 | 33.54659 | 8.23 | 1.404789 | 0.800926 | 0.049137 | 0 |
| 7/22/2021 | 12:00:00 | 10.223 | 33.54003 | 8.37 | 1.398227 | 0.781255 | 0.049403 | 0 |
| 7/22/2021 | 13:00:00 | 10.22 | 33.53018 | 8.62 | 1.388385 | 0.752486 | 0.049878 | 0 |
| 7/22/2021 | 14:00:00 | 10.216 | 33.51706 | 8.79 | 1.375261 | 0.71547 | 0.050201 | 0 |
| 7/22/2021 | 15:00:00 | 10.214 | 33.5105 | 8.92 | 1.3687 | 0.697525 | 0.050448 | 0 |
| 7/22/2021 | 16:00:00 | 10.21 | 33.49738 | 9 | 1.355576 | 0.662729 | 0.0506 | 0 |
| 7/22/2021 | 17:00:00 | 10.21 | 33.49738 | 9.03 | 1.355576 | 0.662729 | 0.050657 | 0.01574804 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 7/22/2021 | 18:00:00 | 10.205 | 33.48097 | 9.18 | 1.339172 | 0.62123 | 0.050942 | 0 |
| 7/22/2021 | 19:00:00 | 10.199 | 33.46129 | 9.07 | 1.319487 | 0.57424 | 0.050733 | 0 |
| 7/22/2021 | 20:00:00 | 10.2 | 33.46457 | 9 | 1.322768 | 0.581865 | 0.0506 | 0 |
| 7/22/2021 | 21:00:00 | 10.201 | 33.46785 | 8.92 | 1.326049 | 0.589571 | 0.050448 | 0 |
| 7/22/2021 | 22:00:00 | 10.205 | 33.48097 | 8.97 | 1.339172 | 0.62123 | 0.050543 | 0 |
| 7/22/2021 | 23:00:00 | 10.205 | 33.48097 | 8.98 | 1.339172 | 0.62123 | 0.050562 | 0 |
| 7/23/2021 | 0:00:00 | 10.207 | 33.48753 | 8.94 | 1.345734 | 0.637568 | 0.050486 | 0 |
| 7/23/2021 | 1:00:00 | 10.206 | 33.48425 | 8.84 | 1.342453 | 0.629356 | 0.050296 | 0 |
| 7/23/2021 | 2:00:00 | 10.203 | 33.47441 | 8.71 | 1.332611 | 0.605232 | 0.050049 | 0 |
| 7/23/2021 | 3:00:00 | 10.201 | 33.46785 | 8.44 | 1.326049 | 0.589571 | 0.049536 | 0 |
| 7/23/2021 | 4:00:00 | 10.199 | 33.46129 | 8.26 | 1.319487 | 0.57424 | 0.049194 | 0 |
| 7/23/2021 | 5:00:00 | 10.197 | 33.45473 | 8.02 | 1.312925 | 0.559235 | 0.048738 | 0 |
| 7/23/2021 | 6:00:00 | 10.197 | 33.45473 | 7.78 | 1.312925 | 0.559235 | 0.048282 | 0 |
| 7/23/2021 | 7:00:00 | 10.199 | 33.46129 | 7.54 | 1.319487 | 0.57424 | 0.047826 | 0 |
| 7/23/2021 | 8:00:00 | 10.203 | 33.47441 | 7.36 | 1.332611 | 0.605232 | 0.047484 | 0 |
| 7/23/2021 | 9:00:00 | 10.204 | 33.47769 | 7.24 | 1.335891 | 0.613189 | 0.047256 | 0 |
| 7/23/2021 | 10:00:00 | 10.206 | 33.48425 | 7.15 | 1.342453 | 0.629356 | 0.047085 | 0 |
| 7/23/2021 | 11:00:00 | 10.204 | 33.47769 | 7.36 | 1.335891 | 0.613189 | 0.047484 | 0 |
| 7/23/2021 | 12:00:00 | 10.204 | 33.47769 | 7.63 | 1.335891 | 0.613189 | 0.047997 | 0 |
| 7/23/2021 | 13:00:00 | 10.201 | 33.46785 | 7.77 | 1.326049 | 0.589571 | 0.048263 | 0 |
| 7/23/2021 | 14:00:00 | 10.198 | 33.45801 | 8.02 | 1.316206 | 0.566697 | 0.048738 | 0 |
| 7/23/2021 | 15:00:00 | 10.194 | 33.44488 | 8.25 | 1.303083 | 0.537325 | 0.049175 | 0 |
| 7/23/2021 | 16:00:00 | 10.191 | 33.43504 | 8.38 | 1.29324 | 0.516117 | 0.049422 | 0 |
| 7/23/2021 | 17:00:00 | 10.187 | 33.42192 | 8.59 | 1.280117 | 0.488901 | 0.049821 | 0 |

7/31/2021 – 8/1/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|--------|----------|---------------------------|
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|--------|----------|---------------------------|

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 7/31/2021 | 21:00:00 | 10.066 | 33.02494 | 10.79 | 0.883135 | 0.068064 | 0.054001 | 0 |
| 7/31/2021 | 22:00:00 | 10.08 | 33.07087 | 10.93 | 0.929067 | 0.089099 | 0.054267 | 0 |
| 7/31/2021 | 23:00:00 | 10.086 | 33.09055 | 11 | 0.948752 | 0.099595 | 0.0544 | 0 |
| 8/1/2021 | 0:00:00 | 10.085 | 33.08727 | 11.04 | 0.945471 | 0.097779 | 0.054476 | 0 |
| 8/1/2021 | 1:00:00 | 10.093 | 33.11352 | 11.03 | 0.971718 | 0.113086 | 0.054457 | 0.04724412 |
| 8/1/2021 | 2:00:00 | 10.094 | 33.1168 | 11.01 | 0.974999 | 0.115129 | 0.054419 | 0 |
| 8/1/2021 | 3:00:00 | 10.088 | 33.09711 | 10.94 | 0.955314 | 0.103308 | 0.054286 | 0 |
| 8/1/2021 | 4:00:00 | 10.093 | 33.11352 | 10.82 | 0.971718 | 0.113086 | 0.054058 | 0 |
| 8/1/2021 | 5:00:00 | 10.094 | 33.1168 | 10.72 | 0.974999 | 0.115129 | 0.053868 | 0 |
| 8/1/2021 | 6:00:00 | 10.097 | 33.12664 | 10.58 | 0.984841 | 0.121437 | 0.053602 | 0 |
| 8/1/2021 | 7:00:00 | 10.1 | 33.13648 | 10.46 | 0.994684 | 0.128024 | 0.053374 | 0 |
| 8/1/2021 | 8:00:00 | 10.1 | 33.13648 | 10.32 | 0.994684 | 0.128024 | 0.053108 | 0 |
| 8/1/2021 | 9:00:00 | 10.108 | 33.16273 | 10.15 | 1.020931 | 0.147017 | 0.052785 | 0 |
| 8/1/2021 | 10:00:00 | 10.105 | 33.15289 | 10.01 | 1.011088 | 0.139644 | 0.052519 | 0 |
| 8/1/2021 | 11:00:00 | 10.105 | 33.15289 | 9.84 | 1.011088 | 0.139644 | 0.052196 | 0 |
| 8/1/2021 | 12:00:00 | 10.109 | 33.16601 | 9.79 | 1.024212 | 0.149544 | 0.052101 | 0 |
| 8/1/2021 | 13:00:00 | 10.113 | 33.17913 | 9.73 | 1.037335 | 0.160006 | 0.051987 | 0 |
| 8/1/2021 | 14:00:00 | 10.107 | 33.15945 | 9.79 | 1.01765 | 0.144525 | 0.052101 | 0 |
| 8/1/2021 | 15:00:00 | 10.101 | 33.13976 | 9.94 | 0.997965 | 0.130283 | 0.052386 | 0 |
| 8/1/2021 | 16:00:00 | 10.098 | 33.12992 | 10.07 | 0.988122 | 0.123602 | 0.052633 | 0 |
| 8/1/2021 | 17:00:00 | 10.098 | 33.12992 | 10.23 | 0.988122 | 0.123602 | 0.052937 | 0 |
| 8/1/2021 | 18:00:00 | 10.092 | 33.11024 | 10.37 | 0.968437 | 0.111073 | 0.053203 | 0 |
| 8/1/2021 | 19:00:00 | 10.088 | 33.09711 | 10.54 | 0.955314 | 0.103308 | 0.053526 | 0 |
| 8/1/2021 | 20:00:00 | 10.088 | 33.09711 | 10.62 | 0.955314 | 0.103308 | 0.053678 | 0 |
| 8/1/2021 | 21:00:00 | 10.09 | 33.10368 | 10.75 | 0.961876 | 0.107133 | 0.053925 | 0 |
| 8/1/2021 | 22:00:00 | 10.096 | 33.12336 | 10.81 | 0.981561 | 0.119304 | 0.054039 | 0 |
| 8/1/2021 | 23:00:00 | 10.098 | 33.12992 | 10.86 | 0.988122 | 0.123602 | 0.054134 | 0 |

8/13/2021 – 8/14/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/13/2021 | 2:00:00 | 10.042 | 32.9462 | 36.8 | 0.804395 | 0.041448 | 0.10342 | 0 |
| 8/13/2021 | 3:00:00 | 10.035 | 32.92323 | 36.05 | 0.781429 | 0.035538 | 0.101995 | 0 |
| 8/13/2021 | 4:00:00 | 10.05 | 32.97244 | 28.9 | 0.830642 | 0.049155 | 0.08841 | 0 |
| 8/13/2021 | 5:00:00 | 10.049 | 32.96916 | 11.83 | 0.827361 | 0.048133 | 0.055977 | 0 |
| 8/13/2021 | 6:00:00 | 10.057 | 32.99541 | 8.52 | 0.853608 | 0.056817 | 0.049688 | 0 |
| 8/13/2021 | 7:00:00 | 10.074 | 33.05118 | 26.62 | 0.909382 | 0.07952 | 0.084078 | 0.10236226 |
| 8/13/2021 | 8:00:00 | 10.086 | 33.09055 | 24.36 | 0.948752 | 0.099595 | 0.079784 | 0.0393701 |
| 8/13/2021 | 9:00:00 | 10.089 | 33.10039 | 17.92 | 0.958595 | 0.105207 | 0.067548 | 0.01574804 |
| 8/13/2021 | 10:00:00 | 10.085 | 33.08727 | 8.06 | 0.945471 | 0.097779 | 0.048814 | 0 |
| 8/13/2021 | 11:00:00 | 10.069 | 33.03478 | 6.77 | 0.892978 | 0.072192 | 0.046363 | 0 |
| 8/13/2021 | 12:00:00 | 10.064 | 33.01837 | 9.13 | 0.876574 | 0.065421 | 0.050847 | 0 |
| 8/13/2021 | 13:00:00 | 10.072 | 33.04462 | 28.26 | 0.90282 | 0.076519 | 0.087194 | 0 |
| 8/13/2021 | 14:00:00 | 10.084 | 33.08399 | 29.71 | 0.942191 | 0.095991 | 0.089949 | 0 |
| 8/13/2021 | 15:00:00 | 10.08 | 33.07087 | 29.42 | 0.929067 | 0.089099 | 0.089398 | 0 |
| 8/13/2021 | 16:00:00 | 10.076 | 33.05774 | 29.36 | 0.915944 | 0.082615 | 0.089284 | 0 |
| 8/13/2021 | 17:00:00 | 10.071 | 33.04134 | 29.25 | 0.89954 | 0.075054 | 0.089075 | 0 |
| 8/13/2021 | 18:00:00 | 10.078 | 33.06431 | 28.88 | 0.922506 | 0.085808 | 0.088372 | 0 |
| 8/13/2021 | 19:00:00 | 10.078 | 33.06431 | 28.58 | 0.922506 | 0.085808 | 0.087802 | 0 |
| 8/13/2021 | 20:00:00 | 10.082 | 33.07743 | 26.82 | 0.935629 | 0.092493 | 0.084458 | 0 |
| 8/13/2021 | 21:00:00 | 10.083 | 33.08071 | 26.16 | 0.93891 | 0.094229 | 0.083204 | 0 |
| 8/13/2021 | 22:00:00 | 10.086 | 33.09055 | 21.35 | 0.948752 | 0.099595 | 0.074065 | 0 |
| 8/13/2021 | 23:00:00 | 10.089 | 33.10039 | 20.12 | 0.958595 | 0.105207 | 0.071728 | 0 |
| 8/14/2021 | 0:00:00 | 10.094 | 33.1168 | 22.24 | 0.974999 | 0.115129 | 0.075756 | 0 |
| 8/14/2021 | 1:00:00 | 10.09 | 33.10368 | 17.84 | 0.961876 | 0.107133 | 0.067396 | 0 |
| 8/14/2021 | 2:00:00 | 10.088 | 33.09711 | 13.85 | 0.955314 | 0.103308 | 0.059815 | 0 |

8/18/2021 – 8/20/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/18/2021 | 2:00:00 | 10.018 | 32.86746 | 31.36 | 0.725655 | 0.023982 | 0.093084 | 0 |
| 8/18/2021 | 3:00:00 | 10.017 | 32.86417 | 14.4 | 0.722374 | 0.023412 | 0.06086 | 0 |
| 8/18/2021 | 4:00:00 | 10.017 | 32.86417 | 12.68 | 0.722374 | 0.023412 | 0.057592 | 0 |
| 8/18/2021 | 5:00:00 | 10.018 | 32.86746 | 22.02 | 0.725655 | 0.023982 | 0.075338 | 0 |
| 8/18/2021 | 6:00:00 | 10.02 | 32.87402 | 21.06 | 0.732217 | 0.025156 | 0.073514 | 0 |
| 8/18/2021 | 7:00:00 | 10.022 | 32.88058 | 12.66 | 0.738778 | 0.026377 | 0.057554 | 0 |
| 8/18/2021 | 8:00:00 | 10.029 | 32.90354 | 8.65 | 0.761744 | 0.031034 | 0.049935 | 0 |
| 8/18/2021 | 9:00:00 | 10.043 | 32.94948 | 31.26 | 0.807676 | 0.042354 | 0.092894 | 0 |
| 8/18/2021 | 10:00:00 | 10.051 | 32.97572 | 35.19 | 0.833923 | 0.050195 | 0.100361 | 0 |
| 8/18/2021 | 11:00:00 | 10.056 | 32.99213 | 37.44 | 0.850327 | 0.055667 | 0.104636 | 0 |
| 8/18/2021 | 12:00:00 | 10.058 | 32.99869 | 37.92 | 0.856889 | 0.057987 | 0.105548 | 0 |
| 8/18/2021 | 13:00:00 | 10.054 | 32.98557 | 38.46 | 0.843765 | 0.053423 | 0.106574 | 0.13385834 |
| 8/18/2021 | 14:00:00 | 10.041 | 32.94291 | 36.57 | 0.801114 | 0.040558 | 0.102983 | 0 |
| 8/18/2021 | 15:00:00 | 10.041 | 32.94291 | 6.88 | 0.801114 | 0.040558 | 0.046572 | 0 |
| 8/18/2021 | 16:00:00 | 10.043 | 32.94948 | 37.25 | 0.807676 | 0.042354 | 0.104275 | 0 |
| 8/18/2021 | 17:00:00 | 10.035 | 32.92323 | 37.08 | 0.781429 | 0.035538 | 0.103952 | 0 |
| 8/18/2021 | 18:00:00 | 10.032 | 32.91339 | 37.1 | 0.771587 | 0.033224 | 0.10399 | 0 |
| 8/18/2021 | 19:00:00 | 10.032 | 32.91339 | 37.13 | 0.771587 | 0.033224 | 0.104047 | 0 |
| 8/18/2021 | 20:00:00 | 10.033 | 32.91667 | 37.02 | 0.774868 | 0.033981 | 0.103838 | 0 |
| 8/18/2021 | 21:00:00 | 10.035 | 32.92323 | 36.54 | 0.781429 | 0.035538 | 0.102926 | 0 |
| 8/18/2021 | 22:00:00 | 10.039 | 32.93635 | 36.05 | 0.794553 | 0.038825 | 0.101995 | 0 |
| 8/18/2021 | 23:00:00 | 10.039 | 32.93635 | 35.57 | 0.794553 | 0.038825 | 0.101083 | 0 |
| 8/19/2021 | 0:00:00 | 10.037 | 32.92979 | 34.9 | 0.787991 | 0.037152 | 0.09981 | 0 |
| 8/19/2021 | 1:00:00 | 10.036 | 32.92651 | 34.02 | 0.78471 | 0.036338 | 0.098138 | 0 |
| 8/19/2021 | 2:00:00 | 10.037 | 32.92979 | 32.89 | 0.787991 | 0.037152 | 0.095991 | 0 |
| 8/19/2021 | 3:00:00 | 10.033 | 32.91667 | 29.76 | 0.774868 | 0.033981 | 0.090044 | 0 |
| 8/19/2021 | 4:00:00 | 10.036 | 32.92651 | 31.03 | 0.78471 | 0.036338 | 0.092457 | 0 |
| 8/19/2021 | 5:00:00 | 10.035 | 32.92323 | 31.86 | 0.781429 | 0.035538 | 0.094034 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 8/19/2021 | 6:00:00 | 10.033 | 32.91667 | 31.75 | 0.774868 | 0.033981 | 0.093825 | 0 |
| 8/19/2021 | 7:00:00 | 10.034 | 32.91995 | 31.81 | 0.778149 | 0.034753 | 0.093939 | 0 |
| 8/19/2021 | 8:00:00 | 10.038 | 32.93307 | 32.24 | 0.791272 | 0.037981 | 0.094756 | 0 |
| 8/19/2021 | 9:00:00 | 10.046 | 32.95932 | 34.34 | 0.817519 | 0.045168 | 0.098746 | 0 |
| 8/19/2021 | 10:00:00 | 10.055 | 32.98885 | 36.25 | 0.847046 | 0.054535 | 0.102375 | 0 |
| 8/19/2021 | 11:00:00 | 10.061 | 33.00853 | 37.79 | 0.866731 | 0.061613 | 0.105301 | 0 |
| 8/19/2021 | 12:00:00 | 10.06 | 33.00525 | 38.38 | 0.86345 | 0.060384 | 0.106422 | 0.00787402 |
| 8/19/2021 | 13:00:00 | 10.047 | 32.9626 | 37.15 | 0.820799 | 0.04614 | 0.104085 | 0 |
| 8/19/2021 | 14:00:00 | 10.047 | 32.9626 | 38.25 | 0.820799 | 0.04614 | 0.106175 | 0.03149608 |
| 8/19/2021 | 15:00:00 | 10.031 | 32.91011 | 36.2 | 0.768306 | 0.032481 | 0.10228 | 0 |
| 8/19/2021 | 16:00:00 | 10.022 | 32.88058 | 36.44 | 0.738778 | 0.026377 | 0.102736 | 0 |
| 8/19/2021 | 17:00:00 | 10.021 | 32.8773 | 37.74 | 0.735498 | 0.025761 | 0.105206 | 0 |
| 8/19/2021 | 18:00:00 | 10.014 | 32.85433 | 38.1 | 0.712532 | 0.021766 | 0.10589 | 0 |
| 8/19/2021 | 19:00:00 | 10.012 | 32.84777 | 38.22 | 0.70597 | 0.020723 | 0.106118 | 0 |
| 8/19/2021 | 20:00:00 | 10.004 | 32.82152 | 37.85 | 0.679723 | 0.016945 | 0.105415 | 0 |
| 8/19/2021 | 21:00:00 | 10.007 | 32.83137 | 37.37 | 0.689566 | 0.01829 | 0.104503 | 0 |
| 8/19/2021 | 22:00:00 | 10.011 | 32.84449 | 37.51 | 0.702689 | 0.020216 | 0.104769 | 0 |
| 8/19/2021 | 23:00:00 | 10.007 | 32.83137 | 37.31 | 0.689566 | 0.01829 | 0.104389 | 0 |
| 8/20/2021 | 0:00:00 | 10.006 | 32.82809 | 36.94 | 0.686285 | 0.017833 | 0.103686 | 0 |
| 8/20/2021 | 1:00:00 | 10.005 | 32.8248 | 36.72 | 0.683004 | 0.017384 | 0.103268 | 0 |
| 8/20/2021 | 2:00:00 | 10.004 | 32.82152 | 36.47 | 0.679723 | 0.016945 | 0.102793 | 0.01574804 |
| 8/20/2021 | 3:00:00 | 9.997 | 32.79856 | 33.33 | 0.656757 | 0.014118 | 0.096827 | 0 |
| 8/20/2021 | 4:00:00 | 9.989 | 32.77231 | 32.18 | 0.630511 | 0.011368 | 0.094642 | 0 |
| 8/20/2021 | 5:00:00 | 9.988 | 32.76903 | 32.12 | 0.62723 | 0.011058 | 0.094528 | 0 |
| 8/20/2021 | 6:00:00 | 9.983 | 32.75263 | 31.11 | 0.610826 | 0.009606 | 0.092609 | 0.00787402 |

8/20/2021 – 8/22/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 8/20/2021 | 12:00:00 | 10.003 | 32.81824 | 38.23 | 0.676443 | 0.016515 | 0.106137 | 0 |
| 8/20/2021 | 13:00:00 | 10.007 | 32.83137 | 39.07 | 0.689566 | 0.01829 | 0.107733 | 0 |
| 8/20/2021 | 14:00:00 | 9.995 | 32.792 | 39.24 | 0.650196 | 0.013385 | 0.108056 | 0 |
| 8/20/2021 | 15:00:00 | 9.988 | 32.76903 | 39.31 | 0.62723 | 0.011058 | 0.108189 | 0 |
| 8/20/2021 | 16:00:00 | 9.986 | 32.76247 | 39.39 | 0.620668 | 0.010457 | 0.108341 | 0 |
| 8/20/2021 | 17:00:00 | 9.982 | 32.74934 | 39.37 | 0.607545 | 0.009335 | 0.108303 | 0 |
| 8/20/2021 | 18:00:00 | 9.978 | 32.73622 | 39.36 | 0.594422 | 0.008313 | 0.108284 | 0 |
| 8/20/2021 | 19:00:00 | 9.974 | 32.7231 | 39.28 | 0.581298 | 0.007383 | 0.108132 | 0 |
| 8/20/2021 | 20:00:00 | 9.964 | 32.69029 | 39.11 | 0.54849 | 0.005423 | 0.107809 | 0 |
| 8/20/2021 | 21:00:00 | 9.965 | 32.69357 | 39.04 | 0.551771 | 0.005597 | 0.107676 | 0 |
| 8/20/2021 | 22:00:00 | 9.976 | 32.72966 | 38.96 | 0.58786 | 0.007837 | 0.107524 | 0 |
| 8/20/2021 | 23:00:00 | 9.983 | 32.75263 | 38.96 | 0.610826 | 0.009606 | 0.107524 | 0 |
| 8/21/2021 | 0:00:00 | 9.979 | 32.7395 | 39.03 | 0.597702 | 0.008559 | 0.107657 | 0 |
| 8/21/2021 | 1:00:00 | 9.981 | 32.74606 | 38.9 | 0.604264 | 0.00907 | 0.10741 | 0 |
| 8/21/2021 | 2:00:00 | 9.984 | 32.75591 | 38.94 | 0.614107 | 0.009883 | 0.107486 | 0 |
| 8/21/2021 | 3:00:00 | 9.983 | 32.75263 | 38.73 | 0.610826 | 0.009606 | 0.107087 | 0 |
| 8/21/2021 | 4:00:00 | 9.996 | 32.79528 | 38.44 | 0.653477 | 0.013747 | 0.106536 | 0.51968532 |
| 8/21/2021 | 5:00:00 | 9.993 | 32.78543 | 7.8 | 0.643634 | 0.012683 | 0.04832 | 0.14173236 |
| 8/21/2021 | 6:00:00 | 10 | 32.8084 | 7.37 | 0.6666 | 0.015279 | 0.047503 | 0.02362206 |
| 8/21/2021 | 7:00:00 | 9.986 | 32.76247 | 7.2 | 0.620668 | 0.010457 | 0.04718 | 0.00787402 |
| 8/21/2021 | 8:00:00 | 9.997 | 32.79856 | 7.14 | 0.656757 | 0.014118 | 0.047066 | 0 |
| 8/21/2021 | 9:00:00 | 10 | 32.8084 | 7.03 | 0.6666 | 0.015279 | 0.046857 | 0 |
| 8/21/2021 | 10:00:00 | 10.009 | 32.83793 | 7.02 | 0.696128 | 0.019234 | 0.046838 | 0 |
| 8/21/2021 | 11:00:00 | 10.024 | 32.88714 | 6.89 | 0.74534 | 0.027645 | 0.046591 | 0 |
| 8/21/2021 | 12:00:00 | 10.034 | 32.91995 | 36.89 | 0.778149 | 0.034753 | 0.103591 | 0 |
| 8/21/2021 | 13:00:00 | 10.031 | 32.91011 | 38.05 | 0.768306 | 0.032481 | 0.105795 | 0 |
| 8/21/2021 | 14:00:00 | 10.026 | 32.8937 | 38.05 | 0.751902 | 0.028963 | 0.105795 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 8/21/2021 | 15:00:00 | 10.021 | 32.8773 | 37.91 | 0.735498 | 0.025761 | 0.105529 | 0 |
| 8/21/2021 | 16:00:00 | 10.019 | 32.87074 | 37.92 | 0.728936 | 0.024563 | 0.105548 | 0 |
| 8/21/2021 | 17:00:00 | 10.018 | 32.86746 | 37.9 | 0.725655 | 0.023982 | 0.10551 | 0 |
| 8/21/2021 | 18:00:00 | 10.013 | 32.85105 | 37.93 | 0.709251 | 0.021239 | 0.105567 | 0 |
| 8/21/2021 | 19:00:00 | 10.009 | 32.83793 | 37.78 | 0.696128 | 0.019234 | 0.105282 | 0 |
| 8/21/2021 | 20:00:00 | 10.013 | 32.85105 | 37.45 | 0.709251 | 0.021239 | 0.104655 | 0 |
| 8/21/2021 | 21:00:00 | 10.018 | 32.86746 | 37.1 | 0.725655 | 0.023982 | 0.10399 | 0 |
| 8/21/2021 | 22:00:00 | 10.025 | 32.89042 | 35.73 | 0.748621 | 0.028298 | 0.101387 | 0 |
| 8/21/2021 | 23:00:00 | 10.02 | 32.87402 | 36 | 0.732217 | 0.025156 | 0.1019 | 0 |
| 8/22/2021 | 0:00:00 | 10.026 | 32.8937 | 35.56 | 0.751902 | 0.028963 | 0.101064 | 0 |
| 8/22/2021 | 1:00:00 | 10.035 | 32.92323 | 33.71 | 0.781429 | 0.035538 | 0.097549 | 0 |
| 8/22/2021 | 2:00:00 | 10.034 | 32.91995 | 33.63 | 0.778149 | 0.034753 | 0.097397 | 0 |
| 8/22/2021 | 3:00:00 | 10.024 | 32.88714 | 34.1 | 0.74534 | 0.027645 | 0.09829 | 0 |
| 8/22/2021 | 4:00:00 | 10.021 | 32.8773 | 34.03 | 0.735498 | 0.025761 | 0.098157 | 0 |
| 8/22/2021 | 5:00:00 | 10.018 | 32.86746 | 33.51 | 0.725655 | 0.023982 | 0.097169 | 0 |
| 8/22/2021 | 6:00:00 | 10.024 | 32.88714 | 33.39 | 0.74534 | 0.027645 | 0.096941 | 0 |
| 8/22/2021 | 7:00:00 | 10.027 | 32.89698 | 29.34 | 0.755183 | 0.02964 | 0.089246 | 0 |
| 8/22/2021 | 8:00:00 | 10.033 | 32.91667 | 23.22 | 0.774868 | 0.033981 | 0.077618 | 0 |
| 8/22/2021 | 9:00:00 | 10.037 | 32.92979 | 33.17 | 0.787991 | 0.037152 | 0.096523 | 0 |
| 8/22/2021 | 10:00:00 | 10.045 | 32.95604 | 35.11 | 0.814238 | 0.044214 | 0.100209 | 0 |
| 8/22/2021 | 11:00:00 | 10.054 | 32.98557 | 38.33 | 0.843765 | 0.053423 | 0.106327 | 0 |
| 8/22/2021 | 12:00:00 | 10.057 | 32.99541 | 39.16 | 0.853608 | 0.056817 | 0.107904 | 0 |
| 8/22/2021 | 13:00:00 | 10.052 | 32.979 | 39.5 | 0.837204 | 0.051253 | 0.10855 | 0 |
| 8/22/2021 | 14:00:00 | 10.046 | 32.95932 | 39.56 | 0.817519 | 0.045168 | 0.108664 | 0 |
| 8/22/2021 | 15:00:00 | 10.042 | 32.9462 | 39.5 | 0.804395 | 0.041448 | 0.10855 | 0 |
| 8/22/2021 | 16:00:00 | 10.037 | 32.92979 | 39.6 | 0.787991 | 0.037152 | 0.10874 | 0 |
| 8/22/2021 | 17:00:00 | 10.028 | 32.90026 | 39.7 | 0.758464 | 0.030331 | 0.10893 | 0 |
| 8/22/2021 | 18:00:00 | 10.026 | 32.8937 | 39.67 | 0.751902 | 0.028963 | 0.108873 | 0 |
| 8/22/2021 | 19:00:00 | 10.02 | 32.87402 | 39.57 | 0.732217 | 0.025156 | 0.108683 | 0 |
| 8/22/2021 | 20:00:00 | 10.009 | 32.83793 | 38.79 | 0.696128 | 0.019234 | 0.107201 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 8/22/2021 | 21:00:00 | 10.013 | 32.85105 | 37.72 | 0.709251 | 0.021239 | 0.105168 | 0 |
| 8/22/2021 | 22:00:00 | 10.014 | 32.85433 | 36.7 | 0.712532 | 0.021766 | 0.10323 | 0 |
| 8/22/2021 | 23:00:00 | 10.018 | 32.86746 | 36.21 | 0.725655 | 0.023982 | 0.102299 | 0 |

9/3/2021 – 9/5/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/3/2021 | 15:00:00 | 10.023 | 32.88386 | 40.64 | 0.742059 | 0.027005 | 0.110716 | 0 |
| 9/3/2021 | 16:00:00 | 10.017 | 32.86417 | 40.67 | 0.722374 | 0.023412 | 0.110773 | 0 |
| 9/3/2021 | 17:00:00 | 10.01 | 32.84121 | 40.65 | 0.699408 | 0.01972 | 0.110735 | 0 |
| 9/3/2021 | 18:00:00 | 10.008 | 32.83465 | 40.67 | 0.692847 | 0.018757 | 0.110773 | 0 |
| 9/3/2021 | 19:00:00 | 10.004 | 32.82152 | 40.46 | 0.679723 | 0.016945 | 0.110374 | 0 |
| 9/3/2021 | 20:00:00 | 9.998 | 32.80184 | 40.11 | 0.660038 | 0.014497 | 0.109709 | 0 |
| 9/3/2021 | 21:00:00 | 9.999 | 32.80512 | 40.14 | 0.663319 | 0.014883 | 0.109766 | 0 |
| 9/3/2021 | 22:00:00 | 10.012 | 32.84777 | 40.3 | 0.70597 | 0.020723 | 0.11007 | 0.01574804 |
| 9/3/2021 | 23:00:00 | 10.012 | 32.84777 | 39.74 | 0.70597 | 0.020723 | 0.109006 | 0.03149608 |
| 9/4/2021 | 0:00:00 | 10.005 | 32.8248 | 37.67 | 0.683004 | 0.017384 | 0.105073 | 0.00787402 |
| 9/4/2021 | 1:00:00 | 10.009 | 32.83793 | 37.9 | 0.696128 | 0.019234 | 0.10551 | 0.06299216 |
| 9/4/2021 | 2:00:00 | 10.002 | 32.81496 | 7.74 | 0.673162 | 0.016094 | 0.048206 | 0 |
| 9/4/2021 | 3:00:00 | 10 | 32.8084 | 8.03 | 0.6666 | 0.015279 | 0.048757 | 0 |
| 9/4/2021 | 4:00:00 | 9.995 | 32.792 | 8.47 | 0.650196 | 0.013385 | 0.049593 | 0 |
| 9/4/2021 | 5:00:00 | 9.995 | 32.792 | 10.2 | 0.650196 | 0.013385 | 0.05288 | 0 |
| 9/4/2021 | 6:00:00 | 9.996 | 32.79528 | 11.43 | 0.653477 | 0.013747 | 0.055217 | 0 |
| 9/4/2021 | 7:00:00 | 10.001 | 32.81168 | 26.1 | 0.669881 | 0.015682 | 0.08309 | 0 |
| 9/4/2021 | 8:00:00 | 10.004 | 32.82152 | 26.34 | 0.679723 | 0.016945 | 0.083546 | 0 |
| 9/4/2021 | 9:00:00 | 10.009 | 32.83793 | 28.6 | 0.696128 | 0.019234 | 0.08784 | 0 |
| 9/4/2021 | 10:00:00 | 10.021 | 32.8773 | 33.76 | 0.735498 | 0.025761 | 0.097644 | 0 |
| 9/4/2021 | 11:00:00 | 10.026 | 32.8937 | 38.3 | 0.751902 | 0.028963 | 0.10627 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 9/4/2021 | 12:00:00 | 10.023 | 32.88386 | 39.37 | 0.742059 | 0.027005 | 0.108303 | 0 |
| 9/4/2021 | 13:00:00 | 10.011 | 32.84449 | 39.36 | 0.702689 | 0.020216 | 0.108284 | 0 |
| 9/4/2021 | 14:00:00 | 10.01 | 32.84121 | 39.59 | 0.699408 | 0.01972 | 0.108721 | 0.11023628 |
| 9/4/2021 | 15:00:00 | 9.998 | 32.80184 | 38.91 | 0.660038 | 0.014497 | 0.107429 | 0 |
| 9/4/2021 | 16:00:00 | 9.996 | 32.79528 | 38.87 | 0.653477 | 0.013747 | 0.107353 | 0 |
| 9/4/2021 | 17:00:00 | 9.998 | 32.80184 | 39.11 | 0.660038 | 0.014497 | 0.107809 | 0 |
| 9/4/2021 | 18:00:00 | 10 | 32.8084 | 39.17 | 0.6666 | 0.015279 | 0.107923 | 0 |
| 9/4/2021 | 19:00:00 | 10 | 32.8084 | 39.16 | 0.6666 | 0.015279 | 0.107904 | 0 |
| 9/4/2021 | 20:00:00 | 10.004 | 32.82152 | 39.12 | 0.679723 | 0.016945 | 0.107828 | 0 |
| 9/4/2021 | 21:00:00 | 10.01 | 32.84121 | 39.14 | 0.699408 | 0.01972 | 0.107866 | 0 |
| 9/4/2021 | 22:00:00 | 10.014 | 32.85433 | 38.92 | 0.712532 | 0.021766 | 0.107448 | 0 |
| 9/4/2021 | 23:00:00 | 10.016 | 32.86089 | 38.94 | 0.719093 | 0.022852 | 0.107486 | 0 |
| 9/5/2021 | 0:00:00 | 10.017 | 32.86417 | 38.86 | 0.722374 | 0.023412 | 0.107334 | 0 |
| 9/5/2021 | 1:00:00 | 10.018 | 32.86746 | 38.87 | 0.725655 | 0.023982 | 0.107353 | 0 |
| 9/5/2021 | 2:00:00 | 10.017 | 32.86417 | 38.7 | 0.722374 | 0.023412 | 0.10703 | 0 |
| 9/5/2021 | 3:00:00 | 10.014 | 32.85433 | 38.7 | 0.712532 | 0.021766 | 0.10703 | 0 |
| 9/5/2021 | 4:00:00 | 10.011 | 32.84449 | 38.63 | 0.702689 | 0.020216 | 0.106897 | 0 |
| 9/5/2021 | 5:00:00 | 10.013 | 32.85105 | 38.68 | 0.709251 | 0.021239 | 0.106992 | 0 |

9/7/2021 – 9/8/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/7/2021 | 14:00:00 | 10.023 | 32.88386 | 39.87 | 0.742059 | 0.027005 | 0.109253 | 0 |
| 9/7/2021 | 15:00:00 | 10.014 | 32.85433 | 39.87 | 0.712532 | 0.021766 | 0.109253 | 0 |
| 9/7/2021 | 16:00:00 | 10.002 | 32.81496 | 39.94 | 0.673162 | 0.016094 | 0.109386 | 0 |
| 9/7/2021 | 17:00:00 | 10 | 32.8084 | 39.94 | 0.6666 | 0.015279 | 0.109386 | 0 |
| 9/7/2021 | 18:00:00 | 9.999 | 32.80512 | 39.91 | 0.663319 | 0.014883 | 0.109329 | 0 |
| 9/7/2021 | 19:00:00 | 9.992 | 32.78215 | 39.85 | 0.640353 | 0.012343 | 0.109215 | 0 |

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|----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 9/7/2021 | 20:00:00 | 9.985 | 32.75919 | 39.82 | 0.617387 | 0.010167 | 0.109158 | 0.10236226 |
| 9/7/2021 | 21:00:00 | 9.992 | 32.78215 | 39.53 | 0.640353 | 0.012343 | 0.108607 | 0 |
| 9/7/2021 | 22:00:00 | 9.992 | 32.78215 | 34.1 | 0.640353 | 0.012343 | 0.09829 | 0 |
| 9/7/2021 | 23:00:00 | 9.999 | 32.80512 | 34.28 | 0.663319 | 0.014883 | 0.098632 | 0 |
| 9/8/2021 | 0:00:00 | 10.001 | 32.81168 | 34.75 | 0.669881 | 0.015682 | 0.099525 | 0 |
| 9/8/2021 | 1:00:00 | 10.012 | 32.84777 | 35.38 | 0.70597 | 0.020723 | 0.100722 | 0 |
| 9/8/2021 | 2:00:00 | 10.015 | 32.85761 | 37.15 | 0.715813 | 0.022304 | 0.104085 | 0 |
| 9/8/2021 | 3:00:00 | 10.014 | 32.85433 | 37.9 | 0.712532 | 0.021766 | 0.10551 | 0 |
| 9/8/2021 | 4:00:00 | 10.018 | 32.86746 | 37.89 | 0.725655 | 0.023982 | 0.105491 | 0 |
| 9/8/2021 | 5:00:00 | 10.02 | 32.87402 | 36.79 | 0.732217 | 0.025156 | 0.103401 | 0 |
| 9/8/2021 | 6:00:00 | 10.022 | 32.88058 | 35.81 | 0.738778 | 0.026377 | 0.101539 | 0 |
| 9/8/2021 | 7:00:00 | 10.027 | 32.89698 | 36.13 | 0.755183 | 0.02964 | 0.102147 | 0 |
| 9/8/2021 | 8:00:00 | 10.037 | 32.92979 | 37.1 | 0.787991 | 0.037152 | 0.10399 | 0 |
| 9/8/2021 | 9:00:00 | 10.042 | 32.9462 | 37.71 | 0.804395 | 0.041448 | 0.105149 | 0 |
| 9/8/2021 | 10:00:00 | 10.05 | 32.97244 | 39.2 | 0.830642 | 0.049155 | 0.10798 | 0 |
| 9/8/2021 | 11:00:00 | 10.059 | 33.00197 | 39.66 | 0.86017 | 0.059176 | 0.108854 | 0 |
| 9/8/2021 | 12:00:00 | 10.059 | 33.00197 | 39.98 | 0.86017 | 0.059176 | 0.109462 | 0 |
| 9/8/2021 | 13:00:00 | 10.059 | 33.00197 | 39.89 | 0.86017 | 0.059176 | 0.109291 | 0 |
| 9/8/2021 | 14:00:00 | 10.055 | 32.98885 | 39.27 | 0.847046 | 0.054535 | 0.108113 | 0 |
| 9/8/2021 | 15:00:00 | 10.05 | 32.97244 | 39.38 | 0.830642 | 0.049155 | 0.108322 | 0 |
| 9/8/2021 | 16:00:00 | 10.043 | 32.94948 | 39.44 | 0.807676 | 0.042354 | 0.108436 | 0 |
| 9/8/2021 | 17:00:00 | 10.042 | 32.9462 | 39.48 | 0.804395 | 0.041448 | 0.108512 | 0 |

9/14/2021 – 9/16/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/14/2021 | 12:00:00 | 10.049 | 32.96916 | 39.51 | 0.827361 | 0.048133 | 0.108569 | 0 |
| 9/14/2021 | 13:00:00 | 10.038 | 32.93307 | 39.44 | 0.791272 | 0.037981 | 0.108436 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 9/14/2021 | 14:00:00 | 10.036 | 32.92651 | 39.57 | 0.78471 | 0.036338 | 0.108683 | 0 |
| 9/14/2021 | 15:00:00 | 10.028 | 32.90026 | 39.67 | 0.758464 | 0.030331 | 0.108873 | 0 |
| 9/14/2021 | 16:00:00 | 10.019 | 32.87074 | 39.64 | 0.728936 | 0.024563 | 0.108816 | 0 |
| 9/14/2021 | 17:00:00 | 10.015 | 32.85761 | 39.58 | 0.715813 | 0.022304 | 0.108702 | 0 |
| 9/14/2021 | 18:00:00 | 10.014 | 32.85433 | 39.61 | 0.712532 | 0.021766 | 0.108759 | 0 |
| 9/14/2021 | 19:00:00 | 10.002 | 32.81496 | 39.37 | 0.673162 | 0.016094 | 0.108303 | 0 |
| 9/14/2021 | 20:00:00 | 10.001 | 32.81168 | 39.15 | 0.669881 | 0.015682 | 0.107885 | 0 |
| 9/14/2021 | 21:00:00 | 10.003 | 32.81824 | 39 | 0.676443 | 0.016515 | 0.1076 | 0 |
| 9/14/2021 | 22:00:00 | 10.007 | 32.83137 | 38.94 | 0.689566 | 0.01829 | 0.107486 | 0 |
| 9/14/2021 | 23:00:00 | 10.005 | 32.8248 | 38.86 | 0.683004 | 0.017384 | 0.107334 | 0 |
| 9/15/2021 | 0:00:00 | 10.002 | 32.81496 | 38.81 | 0.673162 | 0.016094 | 0.107239 | 0 |
| 9/15/2021 | 1:00:00 | 10.01 | 32.84121 | 38.8 | 0.699408 | 0.01972 | 0.10722 | 0 |
| 9/15/2021 | 2:00:00 | 10.029 | 32.90354 | 38.77 | 0.761744 | 0.031034 | 0.107163 | 0 |
| 9/15/2021 | 3:00:00 | 10.012 | 32.84777 | 7.49 | 0.70597 | 0.020723 | 0.047731 | 0 |
| 9/15/2021 | 4:00:00 | 9.999 | 32.80512 | 7.3 | 0.663319 | 0.014883 | 0.04737 | 0.05511814 |
| 9/15/2021 | 5:00:00 | 10.006 | 32.82809 | 7.27 | 0.686285 | 0.017833 | 0.047313 | 0.5905515 |
| 9/15/2021 | 6:00:00 | 10.01 | 32.84121 | 7.22 | 0.699408 | 0.01972 | 0.047218 | 0.03149608 |
| 9/15/2021 | 7:00:00 | 10.013 | 32.85105 | 7.23 | 0.709251 | 0.021239 | 0.047237 | 0 |
| 9/15/2021 | 8:00:00 | 10.015 | 32.85761 | 7.23 | 0.715813 | 0.022304 | 0.047237 | 0 |
| 9/15/2021 | 9:00:00 | 10.016 | 32.86089 | 7.1 | 0.719093 | 0.022852 | 0.04699 | 0 |
| 9/15/2021 | 10:00:00 | 10.026 | 32.8937 | 6.95 | 0.751902 | 0.028963 | 0.046705 | 0 |
| 9/15/2021 | 11:00:00 | 10.032 | 32.91339 | 33.33 | 0.771587 | 0.033224 | 0.096827 | 0 |
| 9/15/2021 | 12:00:00 | 10.037 | 32.92979 | 37.28 | 0.787991 | 0.037152 | 0.104332 | 0 |
| 9/15/2021 | 13:00:00 | 10.032 | 32.91339 | 38.01 | 0.771587 | 0.033224 | 0.105719 | 0 |
| 9/15/2021 | 14:00:00 | 10.027 | 32.89698 | 38 | 0.755183 | 0.02964 | 0.1057 | 0 |
| 9/15/2021 | 15:00:00 | 10.017 | 32.86417 | 37.91 | 0.722374 | 0.023412 | 0.105529 | 0 |
| 9/15/2021 | 16:00:00 | 10.011 | 32.84449 | 38.04 | 0.702689 | 0.020216 | 0.105776 | 0 |
| 9/15/2021 | 17:00:00 | 10.006 | 32.82809 | 37.88 | 0.686285 | 0.017833 | 0.105472 | 0 |
| 9/15/2021 | 18:00:00 | 10.006 | 32.82809 | 37.84 | 0.686285 | 0.017833 | 0.105396 | 0 |
| 9/15/2021 | 19:00:00 | 10.004 | 32.82152 | 37.67 | 0.679723 | 0.016945 | 0.105073 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 9/15/2021 | 20:00:00 | 10.006 | 32.82809 | 36.99 | 0.686285 | 0.017833 | 0.103781 | 0 |
| 9/15/2021 | 21:00:00 | 10.008 | 32.83465 | 36.84 | 0.692847 | 0.018757 | 0.103496 | 0 |
| 9/15/2021 | 22:00:00 | 10.015 | 32.85761 | 36.09 | 0.715813 | 0.022304 | 0.102071 | 0 |
| 9/15/2021 | 23:00:00 | 10.014 | 32.85433 | 32.01 | 0.712532 | 0.021766 | 0.094319 | 0 |
| 9/16/2021 | 0:00:00 | 10.011 | 32.84449 | 33.77 | 0.702689 | 0.020216 | 0.097663 | 0 |
| 9/16/2021 | 1:00:00 | 10.01 | 32.84121 | 33.74 | 0.699408 | 0.01972 | 0.097606 | 0 |
| 9/16/2021 | 2:00:00 | 10.008 | 32.83465 | 33.77 | 0.692847 | 0.018757 | 0.097663 | 0 |
| 9/16/2021 | 3:00:00 | 10.004 | 32.82152 | 33.98 | 0.679723 | 0.016945 | 0.098062 | 0 |
| 9/16/2021 | 4:00:00 | 10.004 | 32.82152 | 33.82 | 0.679723 | 0.016945 | 0.097758 | 0 |
| 9/16/2021 | 5:00:00 | 10.005 | 32.8248 | 33.74 | 0.683004 | 0.017384 | 0.097606 | 0 |
| 9/16/2021 | 6:00:00 | 10.005 | 32.8248 | 33.49 | 0.683004 | 0.017384 | 0.097131 | 0 |
| 9/16/2021 | 7:00:00 | 10.007 | 32.83137 | 33.56 | 0.689566 | 0.01829 | 0.097264 | 0 |
| 9/16/2021 | 8:00:00 | 10.017 | 32.86417 | 33.18 | 0.722374 | 0.023412 | 0.096542 | 0 |
| 9/16/2021 | 9:00:00 | 10.024 | 32.88714 | 34.39 | 0.74534 | 0.027645 | 0.098841 | 0 |
| 9/16/2021 | 10:00:00 | 10.036 | 32.92651 | 36.81 | 0.78471 | 0.036338 | 0.103439 | 0 |
| 9/16/2021 | 11:00:00 | 10.045 | 32.95604 | 37.69 | 0.814238 | 0.044214 | 0.105111 | 0 |
| 9/16/2021 | 12:00:00 | 10.046 | 32.95932 | 37.88 | 0.817519 | 0.045168 | 0.105472 | 0 |

North location selected rainfall events ≥ 0.80 inches

1/24/2021 – 1/27/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/24/2021 | 0:44:33 | 10.145 | 33.28412 | 12.42 | 1.142322 | 0.267004 | 0.057098 | 0 |
| 1/24/2021 | 1:44:33 | 10.147 | 33.29068 | 12.44 | 1.148883 | 0.275251 | 0.057136 | 0 |
| 1/24/2021 | 2:44:33 | 10.144 | 33.28084 | 12.46 | 1.139041 | 0.262956 | 0.057174 | 0.00787402 |
| 1/24/2021 | 3:44:33 | 10.143 | 33.27756 | 12.46 | 1.13576 | 0.258958 | 0.057174 | 0 |
| 1/24/2021 | 4:44:33 | 10.145 | 33.28412 | 12.47 | 1.142322 | 0.267004 | 0.057193 | 0 |
| 1/24/2021 | 5:44:33 | 10.144 | 33.28084 | 12.47 | 1.139041 | 0.262956 | 0.057193 | 0 |
| 1/24/2021 | 6:44:33 | 10.147 | 33.29068 | 12.51 | 1.148883 | 0.275251 | 0.057269 | 0.00787402 |
| 1/24/2021 | 7:44:33 | 10.151 | 33.30381 | 12.52 | 1.162007 | 0.292367 | 0.057288 | 0 |
| 1/24/2021 | 8:44:33 | 10.153 | 33.31037 | 12.47 | 1.168569 | 0.301243 | 0.057193 | 0 |
| 1/24/2021 | 9:44:33 | 10.163 | 33.34318 | 12.49 | 1.201377 | 0.348969 | 0.057231 | 0 |
| 1/24/2021 | 10:44:33 | 10.169 | 33.36286 | 12.5 | 1.221062 | 0.380431 | 0.05725 | 0 |
| 1/24/2021 | 11:44:33 | 10.16 | 33.33333 | 12.49 | 1.191534 | 0.334049 | 0.057231 | 0 |
| 1/24/2021 | 12:44:33 | 10.152 | 33.30709 | 12.45 | 1.165288 | 0.296778 | 0.057155 | 0 |
| 1/24/2021 | 13:44:33 | 10.148 | 33.29396 | 12.49 | 1.152164 | 0.279452 | 0.057231 | 0 |
| 1/24/2021 | 14:44:33 | 10.143 | 33.27756 | 12.51 | 1.13576 | 0.258958 | 0.057269 | 0 |
| 1/24/2021 | 15:44:33 | 10.14 | 33.26772 | 12.48 | 1.125918 | 0.247259 | 0.057212 | 0 |
| 1/24/2021 | 16:44:33 | 10.139 | 33.26444 | 12.5 | 1.122637 | 0.243457 | 0.05725 | 0 |
| 1/24/2021 | 17:44:33 | 10.132 | 33.24147 | 12.49 | 1.099671 | 0.218145 | 0.057231 | 0 |
| 1/24/2021 | 18:44:33 | 10.13 | 33.23491 | 12.46 | 1.093109 | 0.211319 | 0.057174 | 0 |
| 1/24/2021 | 19:44:33 | 10.112 | 33.17585 | 12.46 | 1.034054 | 0.157336 | 0.057174 | 0 |
| 1/24/2021 | 20:44:33 | 10.117 | 33.19226 | 12.46 | 1.050458 | 0.171055 | 0.057174 | 0 |
| 1/24/2021 | 21:44:33 | 10.114 | 33.18242 | 12.47 | 1.040616 | 0.162712 | 0.057193 | 0 |
| 1/24/2021 | 22:44:33 | 10.113 | 33.17913 | 12.52 | 1.037335 | 0.160006 | 0.057288 | 0.03149608 |
| 1/24/2021 | 23:44:33 | 10.089 | 33.10039 | 12.46 | 0.958595 | 0.105207 | 0.057174 | 0.0787402 |
| 1/25/2021 | 0:44:33 | 10.084 | 33.08399 | 12.5 | 0.942191 | 0.095991 | 0.05725 | 0.06299216 |
| 1/25/2021 | 1:44:33 | 10.071 | 33.04134 | 12.52 | 0.89954 | 0.075054 | 0.057288 | 0.00787402 |
| 1/25/2021 | 2:44:33 | 10.069 | 33.03478 | 12.51 | 0.892978 | 0.072192 | 0.057269 | 0.08661422 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 1/25/2021 | 3:44:33 | 10.07 | 33.03806 | 12.5 | 0.896259 | 0.073611 | 0.05725 | 0.14960638 |
| 1/25/2021 | 4:44:33 | 10.142 | 33.27428 | 12.57 | 1.132479 | 0.25501 | 0.057383 | 0.10236226 |
| 1/25/2021 | 5:44:33 | 10.229 | 33.55971 | 12.58 | 1.417912 | 0.841475 | 0.057402 | 0.30708678 |
| 1/25/2021 | 6:44:33 | 10.274 | 33.70735 | 12.72 | 1.56555 | 1.424035 | 0.057668 | 0.04724412 |
| 1/25/2021 | 7:44:33 | 10.399 | 34.11746 | 12.72 | 1.975655 | 4.900003 | 0.057668 | 0.00787402 |
| 1/25/2021 | 8:44:33 | 10.391 | 34.09121 | 12.69 | 1.949408 | 4.564012 | 0.057611 | 0 |
| 1/25/2021 | 9:44:33 | 10.358 | 33.98294 | 12.75 | 1.841141 | 3.36932 | 0.057725 | 0 |
| 1/25/2021 | 10:44:33 | 10.317 | 33.84843 | 12.77 | 1.706626 | 2.251866 | 0.057763 | 0 |
| 1/25/2021 | 11:44:33 | 10.284 | 33.74016 | 12.74 | 1.598359 | 1.589866 | 0.057706 | 0 |
| 1/25/2021 | 12:44:33 | 10.251 | 33.63189 | 12.77 | 1.490091 | 1.095395 | 0.057763 | 0 |
| 1/25/2021 | 13:44:33 | 10.223 | 33.54003 | 12.76 | 1.398227 | 0.781255 | 0.057744 | 0 |
| 1/25/2021 | 14:44:33 | 10.209 | 33.4941 | 12.77 | 1.352296 | 0.654254 | 0.057763 | 0 |
| 1/25/2021 | 15:44:33 | 10.2 | 33.46457 | 12.74 | 1.322768 | 0.581865 | 0.057706 | 0 |
| 1/25/2021 | 16:44:33 | 10.195 | 33.44816 | 12.77 | 1.306364 | 0.544549 | 0.057763 | 0 |
| 1/25/2021 | 17:44:33 | 10.189 | 33.42848 | 12.76 | 1.286679 | 0.502359 | 0.057744 | 0 |
| 1/25/2021 | 18:44:33 | 10.19 | 33.43176 | 12.79 | 1.28996 | 0.5092 | 0.057801 | 0.00787402 |
| 1/25/2021 | 19:44:33 | 10.185 | 33.41536 | 12.79 | 1.273555 | 0.475737 | 0.057801 | 0.00787402 |
| 1/25/2021 | 20:44:33 | 10.181 | 33.40223 | 12.77 | 1.260432 | 0.450272 | 0.057763 | 0 |
| 1/25/2021 | 21:44:33 | 10.174 | 33.37927 | 12.8 | 1.237466 | 0.408374 | 0.05782 | 0 |
| 1/25/2021 | 22:44:33 | 10.174 | 33.37927 | 12.78 | 1.237466 | 0.408374 | 0.057782 | 0 |
| 1/25/2021 | 23:44:33 | 10.172 | 33.3727 | 12.78 | 1.230904 | 0.397004 | 0.057782 | 0 |
| 1/26/2021 | 0:44:33 | 10.173 | 33.37599 | 12.79 | 1.234185 | 0.402656 | 0.057801 | 0 |
| 1/26/2021 | 1:44:33 | 10.177 | 33.38911 | 12.81 | 1.247309 | 0.425924 | 0.057839 | 0 |
| 1/26/2021 | 2:44:33 | 10.184 | 33.41207 | 12.8 | 1.270275 | 0.469264 | 0.05782 | 0 |
| 1/26/2021 | 3:44:33 | 10.181 | 33.40223 | 12.83 | 1.260432 | 0.450272 | 0.057877 | 0 |
| 1/26/2021 | 4:44:33 | 10.186 | 33.41864 | 12.84 | 1.276836 | 0.482283 | 0.057896 | 0 |
| 1/26/2021 | 5:44:33 | 10.192 | 33.43832 | 12.85 | 1.296521 | 0.523109 | 0.057915 | 0 |
| 1/26/2021 | 6:44:33 | 10.195 | 33.44816 | 12.86 | 1.306364 | 0.544549 | 0.057934 | 0 |
| 1/26/2021 | 7:44:33 | 10.205 | 33.48097 | 12.83 | 1.339172 | 0.62123 | 0.057877 | 0 |
| 1/26/2021 | 8:44:33 | 10.21 | 33.49738 | 12.85 | 1.355576 | 0.662729 | 0.057915 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 1/26/2021 | 9:44:33 | 10.227 | 33.55315 | 12.86 | 1.411351 | 0.820997 | 0.057934 | 0 |
| 1/26/2021 | 10:44:33 | 10.234 | 33.57612 | 12.88 | 1.434317 | 0.894488 | 0.057972 | 0 |
| 1/26/2021 | 11:44:33 | 10.233 | 33.57284 | 12.9 | 1.431036 | 0.883674 | 0.05801 | 0 |
| 1/26/2021 | 12:44:33 | 10.232 | 33.56955 | 12.87 | 1.427755 | 0.872967 | 0.057953 | 0 |
| 1/26/2021 | 13:44:33 | 10.226 | 33.54987 | 12.88 | 1.40807 | 0.810912 | 0.057972 | 0 |
| 1/26/2021 | 14:44:33 | 10.226 | 33.54987 | 12.86 | 1.40807 | 0.810912 | 0.057934 | 0 |
| 1/26/2021 | 15:44:33 | 10.225 | 33.54659 | 12.88 | 1.404789 | 0.800926 | 0.057972 | 0 |
| 1/26/2021 | 16:44:33 | 10.224 | 33.54331 | 12.91 | 1.401508 | 0.791041 | 0.058029 | 0 |
| 1/26/2021 | 17:44:33 | 10.22 | 33.53018 | 12.91 | 1.388385 | 0.752486 | 0.058029 | 0 |
| 1/26/2021 | 18:44:33 | 10.22 | 33.53018 | 12.94 | 1.388385 | 0.752486 | 0.058086 | 0 |
| 1/26/2021 | 19:44:33 | 10.228 | 33.55643 | 12.89 | 1.414632 | 0.831185 | 0.057991 | 0 |
| 1/26/2021 | 20:44:33 | 10.235 | 33.5794 | 12.91 | 1.437597 | 0.905409 | 0.058029 | 0 |
| 1/26/2021 | 21:44:33 | 10.234 | 33.57612 | 12.9 | 1.434317 | 0.894488 | 0.05801 | 0 |
| 1/26/2021 | 22:44:33 | 10.24 | 33.5958 | 12.93 | 1.454002 | 0.961649 | 0.058067 | 0 |
| 1/26/2021 | 23:44:33 | 10.232 | 33.56955 | 12.94 | 1.427755 | 0.872967 | 0.058086 | 0 |
| 1/27/2021 | 0:44:33 | 10.243 | 33.60564 | 12.91 | 1.463844 | 0.996732 | 0.058029 | 0 |
| 1/27/2021 | 1:44:33 | 10.244 | 33.60892 | 12.94 | 1.467125 | 1.008655 | 0.058086 | 0 |
| 1/27/2021 | 2:44:33 | 10.243 | 33.60564 | 12.95 | 1.463844 | 0.996732 | 0.058105 | 0 |

1/29/2021 – 1/31/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 1/29/2021 | 20:44:33 | 10.149 | 33.29725 | 13.06 | 1.155445 | 0.283705 | 0.058314 | 0 |
| 1/29/2021 | 21:44:33 | 10.141 | 33.271 | 13.08 | 1.129198 | 0.25111 | 0.058352 | 0 |
| 1/29/2021 | 22:44:33 | 10.135 | 33.25131 | 13.06 | 1.109513 | 0.228717 | 0.058314 | 0 |
| 1/29/2021 | 23:44:33 | 10.12 | 33.2021 | 13.07 | 1.060301 | 0.179741 | 0.058333 | 0 |
| 1/30/2021 | 0:44:33 | 10.114 | 33.18242 | 13.08 | 1.040616 | 0.162712 | 0.058352 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 1/30/2021 | 1:44:33 | 10.105 | 33.15289 | 13.08 | 1.011088 | 0.139644 | 0.058352 | 0 |
| 1/30/2021 | 2:44:33 | 10.099 | 33.1332 | 13.07 | 0.991403 | 0.125797 | 0.058333 | 0 |
| 1/30/2021 | 3:44:33 | 10.097 | 33.12664 | 13.06 | 0.984841 | 0.121437 | 0.058314 | 0 |
| 1/30/2021 | 4:44:33 | 10.105 | 33.15289 | 13.07 | 1.011088 | 0.139644 | 0.058333 | 0 |
| 1/30/2021 | 5:44:33 | 10.088 | 33.09711 | 13.08 | 0.955314 | 0.103308 | 0.058352 | 0.02362206 |
| 1/30/2021 | 6:44:33 | 10.076 | 33.05774 | 13.08 | 0.915944 | 0.082615 | 0.058352 | 0.0393701 |
| 1/30/2021 | 7:44:33 | 10.087 | 33.09383 | 13.06 | 0.952033 | 0.101438 | 0.058314 | 0 |
| 1/30/2021 | 8:44:33 | 10.08 | 33.07087 | 13.06 | 0.929067 | 0.089099 | 0.058314 | 0.04724412 |
| 1/30/2021 | 9:44:33 | 10.069 | 33.03478 | 13.06 | 0.892978 | 0.072192 | 0.058314 | 0.06299216 |
| 1/30/2021 | 10:44:33 | 10.056 | 32.99213 | 13.06 | 0.850327 | 0.055667 | 0.058314 | 0.0787402 |
| 1/30/2021 | 11:44:33 | 10.058 | 32.99869 | 13.05 | 0.856889 | 0.057987 | 0.058295 | 0.10236226 |
| 1/30/2021 | 12:44:33 | 10.075 | 33.05446 | 13.02 | 0.912663 | 0.081056 | 0.058238 | 0.09448824 |
| 1/30/2021 | 13:44:33 | 10.098 | 33.12992 | 13.01 | 0.988122 | 0.123602 | 0.058219 | 0.06299216 |
| 1/30/2021 | 14:44:33 | 10.147 | 33.29068 | 13.01 | 1.148883 | 0.275251 | 0.058219 | 0.13385834 |
| 1/30/2021 | 15:44:33 | 10.261 | 33.6647 | 13.06 | 1.522899 | 1.229723 | 0.058314 | 0 |
| 1/30/2021 | 16:44:33 | 10.377 | 34.04528 | 13.08 | 1.903477 | 4.021117 | 0.058352 | 0.33858286 |
| 1/30/2021 | 17:44:33 | 10.423 | 34.1962 | 13.03 | 2.054395 | 6.030376 | 0.058257 | 0.07086618 |
| 1/30/2021 | 18:44:33 | 10.437 | 34.24213 | 13.07 | 2.100327 | 6.781853 | 0.058333 | 0.0393701 |
| 1/30/2021 | 19:44:33 | 10.424 | 34.19948 | 13.07 | 2.057676 | 6.081703 | 0.058333 | 0.00787402 |
| 1/30/2021 | 20:44:33 | 10.413 | 34.16339 | 13.11 | 2.021587 | 5.536176 | 0.058409 | 0 |
| 1/30/2021 | 21:44:33 | 10.398 | 34.11417 | 13.11 | 1.972374 | 4.856939 | 0.058409 | 0 |
| 1/30/2021 | 22:44:33 | 10.377 | 34.04528 | 13.1 | 1.903477 | 4.021117 | 0.05839 | 0 |
| 1/30/2021 | 23:44:33 | 10.357 | 33.97966 | 13.07 | 1.83786 | 3.337553 | 0.058333 | 0 |
| 1/31/2021 | 0:44:33 | 10.341 | 33.92717 | 13.06 | 1.785366 | 2.861445 | 0.058314 | 0 |
| 1/31/2021 | 1:44:33 | 10.33 | 33.89108 | 13.09 | 1.749277 | 2.567325 | 0.058371 | 0 |
| 1/31/2021 | 2:44:33 | 10.32 | 33.85827 | 13.09 | 1.716469 | 2.321707 | 0.058371 | 0 |
| 1/31/2021 | 3:44:33 | 10.312 | 33.83202 | 13.09 | 1.690222 | 2.13926 | 0.058371 | 0 |
| 1/31/2021 | 4:44:33 | 10.308 | 33.8189 | 13.1 | 1.677099 | 2.052504 | 0.05839 | 0 |
| 1/31/2021 | 5:44:33 | 10.307 | 33.81562 | 13.08 | 1.673818 | 2.031268 | 0.058352 | 0 |
| 1/31/2021 | 6:44:33 | 10.304 | 33.80578 | 13.08 | 1.663975 | 1.968626 | 0.058352 | 0 |
| 1/31/2021 | 7:44:33 | 10.308 | 33.8189 | 13.11 | 1.677099 | 2.052504 | 0.058409 | 0 |

| | | | | | | | | |
|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 1/31/2021 | 8:44:33 | 10.313 | 33.8353 | 13.08 | 1.693503 | 2.161407 | 0.058352 | 0 |
| 1/31/2021 | 9:44:33 | 10.316 | 33.84515 | 13.09 | 1.703345 | 2.228969 | 0.058371 | 0 |
| 1/31/2021 | 10:44:33 | 10.32 | 33.85827 | 13.04 | 1.716469 | 2.321707 | 0.058276 | 0 |
| 1/31/2021 | 11:44:33 | 10.319 | 33.85499 | 13.12 | 1.713188 | 2.298235 | 0.058428 | 0 |
| 1/31/2021 | 12:44:33 | 10.313 | 33.8353 | 13.1 | 1.693503 | 2.161407 | 0.05839 | 0 |
| 1/31/2021 | 13:44:33 | 10.306 | 33.81234 | 13.08 | 1.670537 | 2.01021 | 0.058352 | 0 |
| 1/31/2021 | 14:44:33 | 10.305 | 33.80906 | 13.1 | 1.667256 | 1.98933 | 0.05839 | 0 |
| 1/31/2021 | 15:44:33 | 10.306 | 33.81234 | 13.08 | 1.670537 | 2.01021 | 0.058352 | 0 |
| 1/31/2021 | 16:44:33 | 10.31 | 33.82546 | 13.08 | 1.68366 | 2.095517 | 0.058352 | 0 |
| 1/31/2021 | 17:44:33 | 10.317 | 33.84843 | 13.07 | 1.706626 | 2.251866 | 0.058333 | 0 |
| 1/31/2021 | 18:44:33 | 10.321 | 33.86155 | 13.08 | 1.71975 | 2.345375 | 0.058352 | 0 |

3/11/2021 – 3/16/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/11/2021 | 0:44:33 | 10.1 | 33.13648 | 10.71 | 0.994684 | 0.128024 | 0.053849 | 0 |
| 3/11/2021 | 1:44:33 | 10.099 | 33.1332 | 10.78 | 0.991403 | 0.125797 | 0.053982 | 0 |
| 3/11/2021 | 2:44:33 | 10.104 | 33.14961 | 10.81 | 1.007807 | 0.137254 | 0.054039 | 0 |
| 3/11/2021 | 3:44:33 | 10.115 | 33.1857 | 10.85 | 1.043897 | 0.165456 | 0.054115 | 0 |
| 3/11/2021 | 4:44:33 | 10.124 | 33.21522 | 10.85 | 1.073424 | 0.191876 | 0.054115 | 0 |
| 3/11/2021 | 5:44:33 | 10.134 | 33.24803 | 10.92 | 1.106233 | 0.225148 | 0.054248 | 0.00787402 |
| 3/11/2021 | 6:44:33 | 10.14 | 33.26772 | 10.94 | 1.125918 | 0.247259 | 0.054286 | 0 |
| 3/11/2021 | 7:44:33 | 10.143 | 33.27756 | 10.98 | 1.13576 | 0.258958 | 0.054362 | 0 |
| 3/11/2021 | 8:44:33 | 10.154 | 33.31365 | 11.05 | 1.171849 | 0.305763 | 0.054495 | 0.05511814 |
| 3/11/2021 | 9:44:33 | 10.159 | 33.33005 | 11.12 | 1.188254 | 0.329193 | 0.054628 | 0.00787402 |
| 3/11/2021 | 10:44:33 | 10.177 | 33.38911 | 11.15 | 1.247309 | 0.425924 | 0.054685 | 0.08661422 |
| 3/11/2021 | 11:44:33 | 10.18 | 33.39895 | 11.18 | 1.257151 | 0.444081 | 0.054742 | 0.04724412 |
| 3/11/2021 | 12:44:33 | 10.183 | 33.40879 | 11.22 | 1.266994 | 0.462862 | 0.054818 | 0.02362206 |
| 3/11/2021 | 13:44:33 | 10.178 | 33.39239 | 11.24 | 1.25059 | 0.431908 | 0.054856 | 0.01574804 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 3/11/2021 | 14:44:33 | 10.183 | 33.40879 | 11.28 | 1.266994 | 0.462862 | 0.054932 | 0.02362206 |
| 3/11/2021 | 15:44:33 | 10.186 | 33.41864 | 11.28 | 1.276836 | 0.482283 | 0.054932 | 0.00787402 |
| 3/11/2021 | 16:44:33 | 10.187 | 33.42192 | 11.25 | 1.280117 | 0.488901 | 0.054875 | 0 |
| 3/11/2021 | 17:44:33 | 10.189 | 33.42848 | 11.26 | 1.286679 | 0.502359 | 0.054894 | 0 |
| 3/11/2021 | 18:44:33 | 10.198 | 33.45801 | 11.31 | 1.316206 | 0.566697 | 0.054989 | 0 |
| 3/11/2021 | 19:44:33 | 10.2 | 33.46457 | 11.31 | 1.322768 | 0.581865 | 0.054989 | 0 |
| 3/11/2021 | 20:44:33 | 10.202 | 33.47113 | 11.34 | 1.32933 | 0.59736 | 0.055046 | 0 |
| 3/11/2021 | 21:44:33 | 10.202 | 33.47113 | 11.37 | 1.32933 | 0.59736 | 0.055103 | 0 |
| 3/11/2021 | 22:44:33 | 10.203 | 33.47441 | 11.41 | 1.332611 | 0.605232 | 0.055179 | 0 |
| 3/11/2021 | 23:44:33 | 10.203 | 33.47441 | 11.39 | 1.332611 | 0.605232 | 0.055141 | 0 |
| 3/12/2021 | 0:44:33 | 10.203 | 33.47441 | 11.48 | 1.332611 | 0.605232 | 0.055312 | 0 |
| 3/12/2021 | 1:44:33 | 10.204 | 33.47769 | 11.5 | 1.335891 | 0.613189 | 0.05535 | 0 |
| 3/12/2021 | 2:44:33 | 10.201 | 33.46785 | 11.56 | 1.326049 | 0.589571 | 0.055464 | 0 |
| 3/12/2021 | 3:44:33 | 10.2 | 33.46457 | 11.57 | 1.322768 | 0.581865 | 0.055483 | 0 |
| 3/12/2021 | 4:44:33 | 10.201 | 33.46785 | 11.52 | 1.326049 | 0.589571 | 0.055388 | 0 |
| 3/12/2021 | 5:44:33 | 10.205 | 33.48097 | 11.58 | 1.339172 | 0.62123 | 0.055502 | 0 |
| 3/12/2021 | 6:44:33 | 10.206 | 33.48425 | 11.63 | 1.342453 | 0.629356 | 0.055597 | 0 |
| 3/12/2021 | 7:44:33 | 10.207 | 33.48753 | 11.66 | 1.345734 | 0.637568 | 0.055654 | 0 |
| 3/12/2021 | 8:44:33 | 10.21 | 33.49738 | 11.69 | 1.355576 | 0.662729 | 0.055711 | 0 |
| 3/12/2021 | 9:44:33 | 10.212 | 33.50394 | 11.67 | 1.362138 | 0.679946 | 0.055673 | 0.00787402 |
| 3/12/2021 | 10:44:33 | 10.213 | 33.50722 | 11.65 | 1.365419 | 0.68869 | 0.055635 | 0 |
| 3/12/2021 | 11:44:33 | 10.213 | 33.50722 | 11.64 | 1.365419 | 0.68869 | 0.055616 | 0 |
| 3/12/2021 | 12:44:33 | 10.213 | 33.50722 | 11.59 | 1.365419 | 0.68869 | 0.055521 | 0.00787402 |
| 3/12/2021 | 13:44:33 | 10.214 | 33.5105 | 11.61 | 1.3687 | 0.697525 | 0.055559 | 0.00787402 |
| 3/12/2021 | 14:44:33 | 10.208 | 33.49081 | 11.61 | 1.349015 | 0.645867 | 0.055559 | 0 |
| 3/12/2021 | 15:44:33 | 10.208 | 33.49081 | 11.57 | 1.349015 | 0.645867 | 0.055483 | 0.00787402 |
| 3/12/2021 | 16:44:33 | 10.213 | 33.50722 | 11.58 | 1.365419 | 0.68869 | 0.055502 | 0 |
| 3/12/2021 | 17:44:33 | 10.21 | 33.49738 | 11.58 | 1.355576 | 0.662729 | 0.055502 | 0 |
| 3/12/2021 | 18:44:33 | 10.21 | 33.49738 | 11.55 | 1.355576 | 0.662729 | 0.055445 | 0 |
| 3/12/2021 | 19:44:33 | 10.206 | 33.48425 | 11.56 | 1.342453 | 0.629356 | 0.055464 | 0 |
| 3/12/2021 | 20:44:33 | 10.216 | 33.51706 | 11.62 | 1.375261 | 0.71547 | 0.055578 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 3/12/2021 | 21:44:33 | 10.226 | 33.54987 | 11.58 | 1.40807 | 0.810912 | 0.055502 | 0.01574804 |
| 3/12/2021 | 22:44:33 | 10.222 | 33.53675 | 11.62 | 1.394946 | 0.771568 | 0.055578 | 0.09448824 |
| 3/12/2021 | 23:44:33 | 10.209 | 33.4941 | 11.64 | 1.352296 | 0.654254 | 0.055616 | 0 |
| 3/13/2021 | 0:44:33 | 10.224 | 33.54331 | 11.65 | 1.401508 | 0.791041 | 0.055635 | 0.09448824 |
| 3/13/2021 | 1:44:33 | 10.242 | 33.60236 | 11.61 | 1.460563 | 0.984924 | 0.055559 | 0.21259854 |
| 3/13/2021 | 2:44:33 | 10.261 | 33.6647 | 11.69 | 1.522899 | 1.229723 | 0.055711 | 0.04724412 |
| 3/13/2021 | 3:44:33 | 10.319 | 33.85499 | 11.81 | 1.713188 | 2.298235 | 0.055939 | 0.1181103 |
| 3/13/2021 | 4:44:33 | 10.415 | 34.16995 | 11.87 | 2.028149 | 5.632287 | 0.056053 | 0.33858286 |
| 3/13/2021 | 5:44:33 | 10.471 | 34.35368 | 11.93 | 2.211876 | 8.92716 | 0.056167 | 0.08661422 |
| 3/13/2021 | 6:44:33 | 10.542 | 34.58662 | 11.94 | 2.444815 | 15.19417 | 0.056186 | 0.08661422 |
| 3/13/2021 | 7:44:33 | 10.595 | 34.7605 | 11.93 | 2.6187 | 21.8859 | 0.056167 | 0.04724412 |
| 3/13/2021 | 8:44:33 | 10.612 | 34.81627 | 11.93 | 2.674474 | 24.47806 | 0.056167 | 0.0393701 |
| 3/13/2021 | 9:44:33 | 10.6 | 34.7769 | 11.91 | 2.635104 | 22.62398 | 0.056129 | 0.10236226 |
| 3/13/2021 | 10:44:33 | 10.573 | 34.68832 | 11.93 | 2.546521 | 18.86661 | 0.056167 | 0.09448824 |
| 3/13/2021 | 11:44:33 | 10.56 | 34.64567 | 11.93 | 2.50387 | 17.24777 | 0.056167 | 0.00787402 |
| 3/13/2021 | 12:44:33 | 10.538 | 34.57349 | 11.95 | 2.431692 | 14.76597 | 0.056205 | 0 |
| 3/13/2021 | 13:44:33 | 10.515 | 34.49803 | 11.94 | 2.356233 | 12.48959 | 0.056186 | 0 |
| 3/13/2021 | 14:44:33 | 10.479 | 34.37992 | 11.94 | 2.238122 | 9.504379 | 0.056186 | 0 |
| 3/13/2021 | 15:44:33 | 10.443 | 34.26181 | 11.95 | 2.120012 | 7.126341 | 0.056205 | 0 |
| 3/13/2021 | 16:44:33 | 10.407 | 34.1437 | 11.98 | 2.001902 | 5.2558 | 0.056262 | 0 |
| 3/13/2021 | 17:44:33 | 10.376 | 34.042 | 11.98 | 1.900196 | 3.984442 | 0.056262 | 0 |
| 3/13/2021 | 18:44:33 | 10.354 | 33.96982 | 11.99 | 1.828017 | 3.243709 | 0.056281 | 0 |
| 3/13/2021 | 19:44:33 | 10.337 | 33.91404 | 12.02 | 1.772243 | 2.751487 | 0.056338 | 0 |
| 3/13/2021 | 20:44:33 | 10.325 | 33.87467 | 12.07 | 1.732873 | 2.442011 | 0.056433 | 0 |
| 3/13/2021 | 21:44:33 | 10.312 | 33.83202 | 12.09 | 1.690222 | 2.13926 | 0.056471 | 0 |
| 3/13/2021 | 22:44:33 | 10.295 | 33.77625 | 12.11 | 1.634448 | 1.790043 | 0.056509 | 0 |
| 3/13/2021 | 23:44:33 | 10.283 | 33.73688 | 12.17 | 1.595078 | 1.57261 | 0.056623 | 0 |
| 3/14/2021 | 0:44:33 | 10.274 | 33.70735 | 12.16 | 1.56555 | 1.424035 | 0.056604 | 0 |
| 3/14/2021 | 1:44:33 | 10.259 | 33.65814 | 12.22 | 1.516338 | 1.201841 | 0.056718 | 0 |
| 3/14/2021 | 2:44:33 | 10.246 | 33.61549 | 12.24 | 1.473687 | 1.032847 | 0.056756 | 0 |
| 3/14/2021 | 3:44:33 | 10.234 | 33.57612 | 12.24 | 1.434317 | 0.894488 | 0.056756 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 3/14/2021 | 4:44:33 | 10.223 | 33.54003 | 12.27 | 1.398227 | 0.781255 | 0.056813 | 0 |
| 3/14/2021 | 5:44:33 | 10.211 | 33.50066 | 12.3 | 1.358857 | 0.671293 | 0.05687 | 0 |
| 3/14/2021 | 6:44:33 | 10.207 | 33.48753 | 12.31 | 1.345734 | 0.637568 | 0.056889 | 0 |
| 3/14/2021 | 7:44:33 | 10.2 | 33.46457 | 12.33 | 1.322768 | 0.581865 | 0.056927 | 0.00787402 |
| 3/14/2021 | 8:44:33 | 10.196 | 33.45144 | 12.35 | 1.309645 | 0.551852 | 0.056965 | 0.0393701 |
| 3/14/2021 | 9:44:33 | 10.186 | 33.41864 | 12.36 | 1.276836 | 0.482283 | 0.056984 | 0 |
| 3/14/2021 | 10:44:33 | 10.179 | 33.39567 | 12.38 | 1.25387 | 0.437961 | 0.057022 | 0 |
| 3/14/2021 | 11:44:33 | 10.172 | 33.3727 | 12.39 | 1.230904 | 0.397004 | 0.057041 | 0 |
| 3/14/2021 | 12:44:33 | 10.175 | 33.38255 | 12.37 | 1.240747 | 0.414158 | 0.057003 | 0.00787402 |
| 3/14/2021 | 13:44:33 | 10.184 | 33.41207 | 12.36 | 1.270275 | 0.469264 | 0.056984 | 0.13385834 |
| 3/14/2021 | 14:44:33 | 10.221 | 33.53347 | 12.34 | 1.391666 | 0.761978 | 0.056946 | 0.1574804 |
| 3/14/2021 | 15:44:33 | 10.265 | 33.67782 | 12.3 | 1.536023 | 1.287062 | 0.05687 | 0.05511814 |
| 3/14/2021 | 16:44:33 | 10.298 | 33.78609 | 12.26 | 1.64429 | 1.848044 | 0.056794 | 0.1181103 |
| 3/14/2021 | 17:44:33 | 10.357 | 33.97966 | 12.26 | 1.83786 | 3.337553 | 0.056794 | 0.06299216 |
| 3/14/2021 | 18:44:33 | 10.408 | 34.14698 | 12.28 | 2.005183 | 5.301711 | 0.056832 | 0.00787402 |
| 3/14/2021 | 19:44:33 | 10.42 | 34.18635 | 12.27 | 2.044553 | 5.878502 | 0.056813 | 0 |
| 3/14/2021 | 20:44:33 | 10.41 | 34.15354 | 12.28 | 2.011744 | 5.39451 | 0.056832 | 0 |
| 3/14/2021 | 21:44:33 | 10.378 | 34.04856 | 12.33 | 1.906758 | 4.058066 | 0.056927 | 0 |
| 3/14/2021 | 22:44:33 | 10.35 | 33.95669 | 12.33 | 1.814894 | 3.121925 | 0.056927 | 0.00787402 |
| 3/14/2021 | 23:44:33 | 10.32 | 33.85827 | 12.36 | 1.716469 | 2.321707 | 0.056984 | 0 |
| 3/15/2021 | 0:44:33 | 10.292 | 33.76641 | 12.34 | 1.624605 | 1.733528 | 0.056946 | 0 |
| 3/15/2021 | 1:44:33 | 10.272 | 33.70079 | 12.36 | 1.558988 | 1.392619 | 0.056984 | 0 |
| 3/15/2021 | 2:44:33 | 10.248 | 33.62205 | 12.33 | 1.480248 | 1.057508 | 0.056927 | 0 |
| 3/15/2021 | 3:44:33 | 10.227 | 33.55315 | 12.34 | 1.411351 | 0.820997 | 0.056946 | 0 |
| 3/15/2021 | 4:44:33 | 10.211 | 33.50066 | 12.42 | 1.358857 | 0.671293 | 0.057098 | 0 |
| 3/15/2021 | 5:44:33 | 10.195 | 33.44816 | 12.34 | 1.306364 | 0.544549 | 0.056946 | 0 |
| 3/15/2021 | 6:44:33 | 10.188 | 33.4252 | 12.36 | 1.283398 | 0.495593 | 0.056984 | 0 |
| 3/15/2021 | 7:44:33 | 10.179 | 33.39567 | 12.39 | 1.25387 | 0.437961 | 0.057041 | 0 |
| 3/15/2021 | 8:44:33 | 10.17 | 33.36614 | 12.37 | 1.224343 | 0.385891 | 0.057003 | 0 |
| 3/15/2021 | 9:44:33 | 10.162 | 33.3399 | 12.37 | 1.198096 | 0.343937 | 0.057003 | 0 |
| 3/15/2021 | 10:44:33 | 10.156 | 33.32021 | 12.32 | 1.178411 | 0.314967 | 0.056908 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 3/15/2021 | 11:44:33 | 10.154 | 33.31365 | 12.25 | 1.171849 | 0.305763 | 0.056775 | 0 |
| 3/15/2021 | 12:44:33 | 10.148 | 33.29396 | 12.17 | 1.152164 | 0.279452 | 0.056623 | 0 |
| 3/15/2021 | 13:44:33 | 10.142 | 33.27428 | 12.09 | 1.132479 | 0.25501 | 0.056471 | 0 |
| 3/15/2021 | 14:44:33 | 10.142 | 33.27428 | 12.01 | 1.132479 | 0.25501 | 0.056319 | 0 |
| 3/15/2021 | 15:44:33 | 10.144 | 33.28084 | 11.95 | 1.139041 | 0.262956 | 0.056205 | 0 |
| 3/15/2021 | 16:44:33 | 10.145 | 33.28412 | 11.84 | 1.142322 | 0.267004 | 0.055996 | 0 |
| 3/15/2021 | 17:44:33 | 10.148 | 33.29396 | 11.79 | 1.152164 | 0.279452 | 0.055901 | 0 |
| 3/15/2021 | 18:44:33 | 10.154 | 33.31365 | 11.76 | 1.171849 | 0.305763 | 0.055844 | 0 |
| 3/15/2021 | 19:44:33 | 10.156 | 33.32021 | 11.8 | 1.178411 | 0.314967 | 0.05592 | 0 |
| 3/15/2021 | 20:44:33 | 10.157 | 33.32349 | 11.86 | 1.181692 | 0.319652 | 0.056034 | 0 |
| 3/15/2021 | 21:44:33 | 10.154 | 33.31365 | 11.91 | 1.171849 | 0.305763 | 0.056129 | 0 |
| 3/15/2021 | 22:44:33 | 10.154 | 33.31365 | 12.01 | 1.171849 | 0.305763 | 0.056319 | 0 |
| 3/15/2021 | 23:44:33 | 10.15 | 33.30053 | 12.05 | 1.158726 | 0.288009 | 0.056395 | 0 |
| 3/16/2021 | 0:44:33 | 10.148 | 33.29396 | 12.12 | 1.152164 | 0.279452 | 0.056528 | 0 |

3/17/2021 – 3/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 3/17/2021 | 0:44:33 | 10.063 | 33.01509 | 12.18 | 0.873293 | 0.064131 | 0.056642 | 0 |
| 3/17/2021 | 1:44:33 | 10.036 | 32.92651 | 12.18 | 0.78471 | 0.036338 | 0.056642 | 0 |
| 3/17/2021 | 2:44:33 | 10.026 | 32.8937 | 12.24 | 0.751902 | 0.028963 | 0.056756 | 0 |
| 3/17/2021 | 3:44:33 | 10.009 | 32.83793 | 12.32 | 0.696128 | 0.019234 | 0.056908 | 0 |
| 3/17/2021 | 4:44:33 | 10.02 | 32.87402 | 12.38 | 0.732217 | 0.025156 | 0.057022 | 0 |
| 3/17/2021 | 5:44:33 | 10.077 | 33.06102 | 12.46 | 0.919225 | 0.084199 | 0.057174 | 0.18897648 |
| 3/17/2021 | 6:44:33 | 10.14 | 33.26772 | 12.47 | 1.125918 | 0.247259 | 0.057193 | 0.1968505 |
| 3/17/2021 | 7:44:33 | 10.159 | 33.33005 | 12.4 | 1.188254 | 0.329193 | 0.05706 | 0 |
| 3/17/2021 | 8:44:33 | 10.188 | 33.4252 | 12.45 | 1.283398 | 0.495593 | 0.057155 | 0.05511814 |
| 3/17/2021 | 9:44:33 | 10.243 | 33.60564 | 12.41 | 1.463844 | 0.996732 | 0.057079 | 0 |
| 3/17/2021 | 10:44:33 | 10.274 | 33.70735 | 12.32 | 1.56555 | 1.424035 | 0.056908 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 3/17/2021 | 11:44:33 | 10.271 | 33.69751 | 12.22 | 1.555708 | 1.377123 | 0.056718 | 0 |
| 3/17/2021 | 12:44:33 | 10.251 | 33.63189 | 12.12 | 1.490091 | 1.095395 | 0.056528 | 0 |
| 3/17/2021 | 13:44:33 | 10.215 | 33.51378 | 12 | 1.371981 | 0.706451 | 0.0563 | 0 |
| 3/17/2021 | 14:44:33 | 10.18 | 33.39895 | 11.96 | 1.257151 | 0.444081 | 0.056224 | 0 |
| 3/17/2021 | 15:44:33 | 10.159 | 33.33005 | 11.9 | 1.188254 | 0.329193 | 0.05611 | 0 |
| 3/17/2021 | 16:44:33 | 10.208 | 33.49081 | 11.87 | 1.349015 | 0.645867 | 0.056053 | 0.06299216 |
| 3/17/2021 | 17:44:33 | 10.263 | 33.67126 | 11.88 | 1.529461 | 1.258127 | 0.056072 | 0.21259854 |
| 3/17/2021 | 18:44:33 | 10.323 | 33.86811 | 11.9 | 1.726311 | 2.393297 | 0.05611 | 0 |
| 3/17/2021 | 19:44:33 | 10.392 | 34.09449 | 11.93 | 1.952689 | 4.604957 | 0.056167 | 0 |
| 3/17/2021 | 20:44:33 | 10.396 | 34.10761 | 11.93 | 1.965813 | 4.771732 | 0.056167 | 0 |
| 3/17/2021 | 21:44:33 | 10.375 | 34.03872 | 11.94 | 1.896915 | 3.948039 | 0.056186 | 0.01574804 |
| 3/17/2021 | 22:44:33 | 10.349 | 33.95341 | 11.94 | 1.811613 | 3.092067 | 0.056186 | 0.00787402 |
| 3/17/2021 | 23:44:33 | 10.326 | 33.87795 | 11.97 | 1.736154 | 2.466667 | 0.056243 | 0 |
| 3/18/2021 | 0:44:33 | 10.31 | 33.82546 | 12 | 1.68366 | 2.095517 | 0.0563 | 0.02362206 |
| 3/18/2021 | 1:44:33 | 10.301 | 33.79593 | 12.01 | 1.654133 | 1.907562 | 0.056319 | 0.0393701 |
| 3/18/2021 | 2:44:33 | 10.295 | 33.77625 | 12.02 | 1.634448 | 1.790043 | 0.056338 | 0.00787402 |
| 3/18/2021 | 3:44:33 | 10.296 | 33.77953 | 12.03 | 1.637729 | 1.80921 | 0.056357 | 0.05511814 |
| 3/18/2021 | 4:44:33 | 10.305 | 33.80906 | 12.07 | 1.667256 | 1.98933 | 0.056433 | 0.00787402 |
| 3/18/2021 | 5:44:33 | 10.318 | 33.85171 | 12.04 | 1.709907 | 2.274955 | 0.056376 | 0 |
| 3/18/2021 | 6:44:33 | 10.331 | 33.89436 | 12.08 | 1.752558 | 2.593003 | 0.056452 | 0.00787402 |
| 3/18/2021 | 7:44:33 | 10.34 | 33.92389 | 12.04 | 1.782086 | 2.833627 | 0.056376 | 0 |
| 3/18/2021 | 8:44:33 | 10.342 | 33.93045 | 12.06 | 1.788647 | 2.889484 | 0.056414 | 0 |
| 3/18/2021 | 9:44:33 | 10.345 | 33.94029 | 12.1 | 1.79849 | 2.974942 | 0.05649 | 0 |
| 3/18/2021 | 10:44:33 | 10.34 | 33.92389 | 12.09 | 1.782086 | 2.833627 | 0.056471 | 0 |
| 3/18/2021 | 11:44:33 | 10.333 | 33.90092 | 12.05 | 1.75912 | 2.644985 | 0.056395 | 0 |
| 3/18/2021 | 12:44:33 | 10.327 | 33.88123 | 12.1 | 1.739435 | 2.491526 | 0.05649 | 0 |
| 3/18/2021 | 13:44:33 | 10.314 | 33.83858 | 12.06 | 1.696784 | 2.18374 | 0.056414 | 0 |
| 3/18/2021 | 14:44:33 | 10.309 | 33.82218 | 12.07 | 1.68038 | 2.07392 | 0.056433 | 0 |
| 3/18/2021 | 15:44:33 | 10.311 | 33.82874 | 12.06 | 1.686941 | 2.117297 | 0.056414 | 0 |
| 3/18/2021 | 16:44:33 | 10.311 | 33.82874 | 12.04 | 1.686941 | 2.117297 | 0.056376 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 3/18/2021 | 17:44:33 | 10.311 | 33.82874 | 12.07 | 1.686941 | 2.117297 | 0.056433 | 0 |
| 3/18/2021 | 18:44:33 | 10.313 | 33.8353 | 12.1 | 1.693503 | 2.161407 | 0.05649 | 0 |
| 3/18/2021 | 19:44:33 | 10.317 | 33.84843 | 12.07 | 1.706626 | 2.251866 | 0.056433 | 0 |
| 3/18/2021 | 20:44:33 | 10.32 | 33.85827 | 12.11 | 1.716469 | 2.321707 | 0.056509 | 0 |

4/9/2021 – 4/11/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 4/9/2021 | 0:44:33 | 9.974 | 32.7231 | 11.55 | 0.581298 | 0.007383 | 0.055445 | 0 |
| 4/9/2021 | 1:44:33 | 9.971 | 32.71326 | 11.58 | 0.571456 | 0.006743 | 0.055502 | 0 |
| 4/9/2021 | 2:44:33 | 9.972 | 32.71654 | 11.59 | 0.574736 | 0.006951 | 0.055521 | 0 |
| 4/9/2021 | 3:44:33 | 9.975 | 32.72638 | 11.68 | 0.584579 | 0.007607 | 0.055692 | 0 |
| 4/9/2021 | 4:44:33 | 9.978 | 32.73622 | 11.72 | 0.594422 | 0.008313 | 0.055768 | 0 |
| 4/9/2021 | 5:44:33 | 9.98 | 32.74278 | 11.72 | 0.600983 | 0.008812 | 0.055768 | 0 |
| 4/9/2021 | 6:44:33 | 9.986 | 32.76247 | 11.79 | 0.620668 | 0.010457 | 0.055901 | 0 |
| 4/9/2021 | 7:44:33 | 9.988 | 32.76903 | 11.81 | 0.62723 | 0.011058 | 0.055939 | 0 |
| 4/9/2021 | 8:44:33 | 9.992 | 32.78215 | 11.85 | 0.640353 | 0.012343 | 0.056015 | 0 |
| 4/9/2021 | 9:44:33 | 9.998 | 32.80184 | 11.79 | 0.660038 | 0.014497 | 0.055901 | 0 |
| 4/9/2021 | 10:44:33 | 9.998 | 32.80184 | 11.74 | 0.660038 | 0.014497 | 0.055806 | 0 |
| 4/9/2021 | 11:44:33 | 9.99 | 32.77559 | 11.72 | 0.633792 | 0.011686 | 0.055768 | 0 |
| 4/9/2021 | 12:44:33 | 9.976 | 32.72966 | 11.66 | 0.58786 | 0.007837 | 0.055654 | 0 |
| 4/9/2021 | 13:44:33 | 9.975 | 32.72638 | 11.6 | 0.584579 | 0.007607 | 0.05554 | 0 |
| 4/9/2021 | 14:44:33 | 9.969 | 32.70669 | 11.57 | 0.564894 | 0.006342 | 0.055483 | 0 |
| 4/9/2021 | 15:44:33 | 9.983 | 32.75263 | 11.55 | 0.610826 | 0.009606 | 0.055445 | 0.11023628 |
| 4/9/2021 | 16:44:33 | 9.972 | 32.71654 | 11.53 | 0.574736 | 0.006951 | 0.055407 | 0.07086618 |
| 4/9/2021 | 17:44:33 | 9.978 | 32.73622 | 11.52 | 0.594422 | 0.008313 | 0.055388 | 0.01574804 |
| 4/9/2021 | 18:44:33 | 9.998 | 32.80184 | 11.48 | 0.660038 | 0.014497 | 0.055312 | 0.00787402 |
| 4/9/2021 | 19:44:33 | 10.038 | 32.93307 | 11.61 | 0.791272 | 0.037981 | 0.055559 | 0.22834658 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------------|
| 4/9/2021 | 20:44:33 | 10.066 | 33.02494 | 11.67 | 0.883135 | 0.068064 | 0.055673 | 0.36220492 |
| 4/9/2021 | 21:44:33 | 10.136 | 33.25459 | 11.91 | 1.112794 | 0.232332 | 0.056129 | 0.14960638 |
| 4/9/2021 | 22:44:33 | 10.12 | 33.2021 | 12.09 | 1.060301 | 0.179741 | 0.056471 | 0.00787402 |
| 4/9/2021 | 23:44:33 | 10.111 | 33.17257 | 12.14 | 1.030773 | 0.154703 | 0.056566 | 0 |
| 4/10/2021 | 0:44:33 | 10.11 | 33.16929 | 12.11 | 1.027492 | 0.152106 | 0.056509 | 0 |
| 4/10/2021 | 1:44:33 | 10.1 | 33.13648 | 12.1 | 0.994684 | 0.128024 | 0.05649 | 0 |
| 4/10/2021 | 2:44:33 | 10.091 | 33.10696 | 12.08 | 0.965156 | 0.109089 | 0.056452 | 0 |
| 4/10/2021 | 3:44:33 | 10.091 | 33.10696 | 12.07 | 0.965156 | 0.109089 | 0.056433 | 0 |
| 4/10/2021 | 4:44:33 | 10.088 | 33.09711 | 12.12 | 0.955314 | 0.103308 | 0.056528 | 0 |
| 4/10/2021 | 5:44:33 | 10.104 | 33.14961 | 12.18 | 1.007807 | 0.137254 | 0.056642 | 0 |
| 4/10/2021 | 6:44:33 | 10.126 | 33.22179 | 12.25 | 1.079986 | 0.198189 | 0.056775 | 0 |
| 4/10/2021 | 7:44:33 | 10.136 | 33.25459 | 12.34 | 1.112794 | 0.232332 | 0.056946 | 0 |
| 4/10/2021 | 8:44:33 | 10.138 | 33.26116 | 12.39 | 1.119356 | 0.239701 | 0.057041 | 0 |
| 4/10/2021 | 9:44:33 | 10.144 | 33.28084 | 12.34 | 1.139041 | 0.262956 | 0.056946 | 0 |
| 4/10/2021 | 10:44:33 | 10.142 | 33.27428 | 12.25 | 1.132479 | 0.25501 | 0.056775 | 0 |
| 4/10/2021 | 11:44:33 | 10.134 | 33.24803 | 12.2 | 1.106233 | 0.225148 | 0.05668 | 0 |
| 4/10/2021 | 12:44:33 | 10.125 | 33.21851 | 12.08 | 1.076705 | 0.195012 | 0.056452 | 0 |
| 4/10/2021 | 13:44:33 | 10.117 | 33.19226 | 12.03 | 1.050458 | 0.171055 | 0.056357 | 0 |
| 4/10/2021 | 14:44:33 | 10.105 | 33.15289 | 11.95 | 1.011088 | 0.139644 | 0.056205 | 0 |
| 4/10/2021 | 15:44:33 | 10.099 | 33.1332 | 11.85 | 0.991403 | 0.125797 | 0.056015 | 0 |
| 4/10/2021 | 16:44:33 | 10.092 | 33.11024 | 11.82 | 0.968437 | 0.111073 | 0.055958 | 0 |
| 4/10/2021 | 17:44:33 | 10.089 | 33.10039 | 11.75 | 0.958595 | 0.105207 | 0.055825 | 0 |
| 4/10/2021 | 18:44:33 | 10.085 | 33.08727 | 11.78 | 0.945471 | 0.097779 | 0.055882 | 0 |
| 4/10/2021 | 19:44:33 | 10.084 | 33.08399 | 11.76 | 0.942191 | 0.095991 | 0.055844 | 0 |
| 4/10/2021 | 20:44:33 | 10.083 | 33.08071 | 11.77 | 0.93891 | 0.094229 | 0.055863 | 0 |
| 4/10/2021 | 21:44:33 | 10.08 | 33.07087 | 11.84 | 0.929067 | 0.089099 | 0.055996 | 0 |
| 4/10/2021 | 22:44:33 | 10.075 | 33.05446 | 11.89 | 0.912663 | 0.081056 | 0.056091 | 0 |
| 4/10/2021 | 23:44:33 | 10.072 | 33.04462 | 11.94 | 0.90282 | 0.076519 | 0.056186 | 0 |
| 4/11/2021 | 0:44:33 | 10.067 | 33.02822 | 11.96 | 0.886416 | 0.069418 | 0.056224 | 0 |
| 4/11/2021 | 1:44:33 | 10.063 | 33.01509 | 11.98 | 0.873293 | 0.064131 | 0.056262 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 4/11/2021 | 2:44:33 | 10.062 | 33.01181 | 12.09 | 0.870012 | 0.062862 | 0.056471 | 0 |
| 4/11/2021 | 3:44:33 | 10.058 | 32.99869 | 12.13 | 0.856889 | 0.057987 | 0.056547 | 0 |
| 4/11/2021 | 4:44:33 | 10.058 | 32.99869 | 12.17 | 0.856889 | 0.057987 | 0.056623 | 0 |
| 4/11/2021 | 5:44:33 | 10.058 | 32.99869 | 12.19 | 0.856889 | 0.057987 | 0.056661 | 0 |
| 4/11/2021 | 6:44:33 | 10.061 | 33.00853 | 12.27 | 0.866731 | 0.061613 | 0.056813 | 0 |
| 4/11/2021 | 7:44:33 | 10.058 | 32.99869 | 12.31 | 0.856889 | 0.057987 | 0.056889 | 0 |
| 4/11/2021 | 8:44:33 | 10.058 | 32.99869 | 12.35 | 0.856889 | 0.057987 | 0.056965 | 0 |
| 4/11/2021 | 9:44:33 | 10.058 | 32.99869 | 12.38 | 0.856889 | 0.057987 | 0.057022 | 0 |
| 4/11/2021 | 10:44:33 | 10.049 | 32.96916 | 12.37 | 0.827361 | 0.048133 | 0.057003 | 0 |
| 4/11/2021 | 11:44:33 | 10.042 | 32.9462 | 12.38 | 0.804395 | 0.041448 | 0.057022 | 0 |
| 4/11/2021 | 12:44:33 | 10.037 | 32.92979 | 12.24 | 0.787991 | 0.037152 | 0.056756 | 0 |

5/3/2021 – 5/5/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/3/2021 | 7:18:03 | 10.014 | 32.85433 | 8.71 | 0.712532 | 0.021766 | 0.050049 | 0 |
| 5/3/2021 | 8:18:03 | 10.017 | 32.86417 | 8.72 | 0.722374 | 0.023412 | 0.050068 | 0 |
| 5/3/2021 | 9:18:03 | 10.03 | 32.90683 | 8.72 | 0.765025 | 0.031751 | 0.050068 | 0 |
| 5/3/2021 | 10:18:03 | 10.039 | 32.93635 | 8.7 | 0.794553 | 0.038825 | 0.05003 | 0 |
| 5/3/2021 | 11:18:03 | 10.044 | 32.95276 | 8.66 | 0.810957 | 0.043276 | 0.049954 | 0 |
| 5/3/2021 | 12:18:03 | 10.047 | 32.9626 | 8.65 | 0.820799 | 0.04614 | 0.049935 | 0 |
| 5/3/2021 | 13:18:03 | 10.048 | 32.96588 | 8.58 | 0.82408 | 0.047128 | 0.049802 | 0 |
| 5/3/2021 | 14:18:03 | 10.051 | 32.97572 | 8.58 | 0.833923 | 0.050195 | 0.049802 | 0 |
| 5/3/2021 | 15:18:03 | 10.052 | 32.979 | 8.58 | 0.837204 | 0.051253 | 0.049802 | 0 |
| 5/3/2021 | 16:18:03 | 10.054 | 32.98557 | 8.52 | 0.843765 | 0.053423 | 0.049688 | 0 |
| 5/3/2021 | 17:18:03 | 10.058 | 32.99869 | 8.49 | 0.856889 | 0.057987 | 0.049631 | 0 |
| 5/3/2021 | 18:18:03 | 10.059 | 33.00197 | 8.43 | 0.86017 | 0.059176 | 0.049517 | 0 |
| 5/3/2021 | 19:18:03 | 10.054 | 32.98557 | 8.41 | 0.843765 | 0.053423 | 0.049479 | 0 |

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|----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/3/2021 | 20:18:03 | 10.066 | 33.02494 | 8.42 | 0.883135 | 0.068064 | 0.049498 | 0 |
| 5/3/2021 | 21:18:03 | 10.069 | 33.03478 | 8.41 | 0.892978 | 0.072192 | 0.049479 | 0 |
| 5/3/2021 | 22:18:03 | 10.081 | 33.07415 | 8.43 | 0.932348 | 0.090783 | 0.049517 | 0.00787402 |
| 5/3/2021 | 23:18:03 | 10.105 | 33.15289 | 8.45 | 1.011088 | 0.139644 | 0.049555 | 0.34645688 |
| 5/4/2021 | 0:18:03 | 10.132 | 33.24147 | 8.42 | 1.099671 | 0.218145 | 0.049498 | 0.22047256 |
| 5/4/2021 | 1:18:03 | 10.132 | 33.24147 | 8.5 | 1.099671 | 0.218145 | 0.04965 | 0 |
| 5/4/2021 | 2:18:03 | 10.167 | 33.3563 | 8.63 | 1.2145 | 0.369698 | 0.049897 | 0 |
| 5/4/2021 | 3:18:03 | 10.188 | 33.4252 | 8.74 | 1.283398 | 0.495593 | 0.050106 | 0 |
| 5/4/2021 | 4:18:03 | 10.204 | 33.47769 | 8.76 | 1.335891 | 0.613189 | 0.050144 | 0 |
| 5/4/2021 | 5:18:03 | 10.202 | 33.47113 | 8.75 | 1.32933 | 0.59736 | 0.050125 | 0.00787402 |
| 5/4/2021 | 6:18:03 | 10.202 | 33.47113 | 8.73 | 1.32933 | 0.59736 | 0.050087 | 0 |
| 5/4/2021 | 7:18:03 | 10.202 | 33.47113 | 8.74 | 1.32933 | 0.59736 | 0.050106 | 0.00787402 |
| 5/4/2021 | 8:18:03 | 10.21 | 33.49738 | 8.78 | 1.355576 | 0.662729 | 0.050182 | 0.00787402 |
| 5/4/2021 | 9:18:03 | 10.215 | 33.51378 | 8.77 | 1.371981 | 0.706451 | 0.050163 | 0.16535442 |
| 5/4/2021 | 10:18:03 | 10.228 | 33.55643 | 8.8 | 1.414632 | 0.831185 | 0.05022 | 0.16535442 |
| 5/4/2021 | 11:18:03 | 10.277 | 33.71719 | 8.76 | 1.575393 | 1.472235 | 0.050144 | 0.11023628 |
| 5/4/2021 | 12:18:03 | 10.359 | 33.98622 | 8.78 | 1.844422 | 3.401332 | 0.050182 | 0.03149608 |
| 5/4/2021 | 13:18:03 | 10.413 | 34.16339 | 8.67 | 2.021587 | 5.536176 | 0.049973 | 0.01574804 |
| 5/4/2021 | 14:18:03 | 10.438 | 34.24541 | 8.69 | 2.103608 | 6.838309 | 0.050011 | 0 |
| 5/4/2021 | 15:18:03 | 10.447 | 34.27494 | 8.68 | 2.133135 | 7.36379 | 0.049992 | 0 |
| 5/4/2021 | 16:18:03 | 10.446 | 34.27165 | 8.66 | 2.129855 | 7.303835 | 0.049954 | 0 |
| 5/4/2021 | 17:18:03 | 10.428 | 34.2126 | 8.6 | 2.0708 | 6.290568 | 0.04984 | 0 |
| 5/4/2021 | 18:18:03 | 10.412 | 34.16011 | 8.55 | 2.018306 | 5.488623 | 0.049745 | 0 |
| 5/4/2021 | 19:18:03 | 10.391 | 34.09121 | 8.5 | 1.949408 | 4.564012 | 0.04965 | 0 |
| 5/4/2021 | 20:18:03 | 10.372 | 34.02887 | 8.54 | 1.887072 | 3.840446 | 0.049726 | 0 |
| 5/4/2021 | 21:18:03 | 10.357 | 33.97966 | 8.53 | 1.83786 | 3.337553 | 0.049707 | 0 |
| 5/4/2021 | 22:18:03 | 10.346 | 33.94357 | 8.56 | 1.801771 | 3.00388 | 0.049764 | 0 |
| 5/4/2021 | 23:18:03 | 10.336 | 33.91076 | 8.61 | 1.768962 | 2.724541 | 0.049859 | 0 |
| 5/5/2021 | 0:18:03 | 10.327 | 33.88123 | 8.62 | 1.739435 | 2.491526 | 0.049878 | 0 |
| 5/5/2021 | 1:18:03 | 10.316 | 33.84515 | 8.66 | 1.703345 | 2.228969 | 0.049954 | 0 |

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|----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/5/2021 | 2:18:03 | 10.308 | 33.8189 | 8.73 | 1.677099 | 2.052504 | 0.050087 | 0 |
| 5/5/2021 | 3:18:03 | 10.303 | 33.80249 | 8.76 | 1.660695 | 1.948098 | 0.050144 | 0 |
| 5/5/2021 | 4:18:03 | 10.297 | 33.78281 | 8.81 | 1.641009 | 1.828544 | 0.050239 | 0 |
| 5/5/2021 | 5:18:03 | 10.289 | 33.75656 | 8.78 | 1.614763 | 1.67847 | 0.050182 | 0 |
| 5/5/2021 | 6:18:03 | 10.292 | 33.76641 | 8.83 | 1.624605 | 1.733528 | 0.050277 | 0 |
| 5/5/2021 | 7:18:03 | 10.298 | 33.78609 | 8.85 | 1.64429 | 1.848044 | 0.050315 | 0 |
| 5/5/2021 | 8:18:03 | 10.301 | 33.79593 | 8.85 | 1.654133 | 1.907562 | 0.050315 | 0 |
| 5/5/2021 | 9:18:03 | 10.301 | 33.79593 | 8.92 | 1.654133 | 1.907562 | 0.050448 | 0 |
| 5/5/2021 | 10:18:03 | 10.297 | 33.78281 | 8.9 | 1.641009 | 1.828544 | 0.05041 | 0 |
| 5/5/2021 | 11:18:03 | 10.294 | 33.77297 | 8.93 | 1.631167 | 1.771041 | 0.050467 | 0 |
| 5/5/2021 | 12:18:03 | 10.291 | 33.76312 | 8.95 | 1.621324 | 1.715015 | 0.050505 | 0 |
| 5/5/2021 | 13:18:03 | 10.285 | 33.74344 | 8.9 | 1.601639 | 1.607276 | 0.05041 | 0 |
| 5/5/2021 | 14:18:03 | 10.278 | 33.72047 | 8.84 | 1.578674 | 1.488592 | 0.050296 | 0 |
| 5/5/2021 | 15:18:03 | 10.272 | 33.70079 | 8.79 | 1.558988 | 1.392619 | 0.050201 | 0 |
| 5/5/2021 | 16:18:03 | 10.266 | 33.6811 | 8.77 | 1.539303 | 1.30173 | 0.050163 | 0 |
| 5/5/2021 | 17:18:03 | 10.266 | 33.6811 | 8.69 | 1.539303 | 1.30173 | 0.050011 | 0.00787402 |
| 5/5/2021 | 18:18:03 | 10.267 | 33.68438 | 8.67 | 1.542584 | 1.316534 | 0.049973 | 0 |
| 5/5/2021 | 19:18:03 | 10.257 | 33.65158 | 8.69 | 1.509776 | 1.174475 | 0.050011 | 0 |
| 5/5/2021 | 20:18:03 | 10.252 | 33.63517 | 8.67 | 1.493372 | 1.108265 | 0.049973 | 0 |
| 5/5/2021 | 21:18:03 | 10.254 | 33.64173 | 8.68 | 1.499933 | 1.134375 | 0.049992 | 0 |
| 5/5/2021 | 22:18:03 | 10.265 | 33.67782 | 8.7 | 1.536023 | 1.287062 | 0.05003 | 0 |

5/16/2021 – 5/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual | | Rainfall (inches/hour) | |
|----------------------|--------------------|--------------------|---------------------|------------------|----------------------|----------|---------------------------|------------|
| | | | | | Stream Depth (ft) | Q(cfs) | | |
| 5/16/2021 | 16:18:03 | 10.141 | 33.271 | 9.24 | 1.129198 | 0.25111 | 0.051056 | 0 |
| 5/16/2021 | 17:18:03 | 10.139 | 33.26444 | 9.25 | 1.122637 | 0.243457 | 0.051075 | 0 |
| 5/16/2021 | 18:18:03 | 10.137 | 33.25788 | 9.24 | 1.116075 | 0.235993 | 0.051056 | 0.01574804 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------------|
| 5/16/2021 | 19:18:03 | 10.129 | 33.23163 | 9.26 | 1.089828 | 0.207972 | 0.051094 | 0 |
| 5/16/2021 | 20:18:03 | 10.13 | 33.23491 | 9.28 | 1.093109 | 0.211319 | 0.051132 | 0 |
| 5/16/2021 | 21:18:03 | 10.13 | 33.23491 | 9.25 | 1.093109 | 0.211319 | 0.051075 | 0 |
| 5/16/2021 | 22:18:03 | 10.133 | 33.24475 | 9.25 | 1.102952 | 0.221624 | 0.051075 | 0.00787402 |
| 5/16/2021 | 23:18:03 | 10.133 | 33.24475 | 9.27 | 1.102952 | 0.221624 | 0.051113 | 0.03149608 |
| 5/17/2021 | 0:18:03 | 10.131 | 33.23819 | 9.28 | 1.09639 | 0.21471 | 0.051132 | 0.02362206 |
| 5/17/2021 | 1:18:03 | 10.12 | 33.2021 | 9.3 | 1.060301 | 0.179741 | 0.05117 | 0.12598432 |
| 5/17/2021 | 2:18:03 | 10.124 | 33.21522 | 9.33 | 1.073424 | 0.191876 | 0.051227 | 0.41732306 |
| 5/17/2021 | 3:18:03 | 10.147 | 33.29068 | 9.37 | 1.148883 | 0.275251 | 0.051303 | 0.32283482 |
| 5/17/2021 | 4:18:03 | 10.222 | 33.53675 | 9.41 | 1.394946 | 0.771568 | 0.051379 | 0.02362206 |
| 5/17/2021 | 5:18:03 | 10.3 | 33.79265 | 9.57 | 1.650852 | 1.887552 | 0.051683 | 0.00787402 |
| 5/17/2021 | 6:18:03 | 10.343 | 33.93373 | 9.51 | 1.791928 | 2.917745 | 0.051569 | 0 |
| 5/17/2021 | 7:18:03 | 10.383 | 34.06496 | 9.32 | 1.923162 | 4.246967 | 0.051208 | 0 |
| 5/17/2021 | 8:18:03 | 10.432 | 34.22572 | 9.2 | 2.083923 | 6.505218 | 0.05098 | 0 |
| 5/17/2021 | 9:18:03 | 10.439 | 34.24869 | 9 | 2.106889 | 6.895146 | 0.0506 | 0 |
| 5/17/2021 | 10:18:03 | 10.419 | 34.18307 | 8.9 | 2.041272 | 5.828573 | 0.05041 | 0 |
| 5/17/2021 | 11:18:03 | 10.389 | 34.08465 | 8.8 | 1.942847 | 4.483007 | 0.05022 | 0 |
| 5/17/2021 | 12:18:03 | 10.356 | 33.97638 | 8.65 | 1.834579 | 3.30603 | 0.049935 | 0 |
| 5/17/2021 | 13:18:03 | 10.325 | 33.87467 | 8.63 | 1.732873 | 2.442011 | 0.049897 | 0 |
| 5/17/2021 | 14:18:03 | 10.306 | 33.81234 | 8.57 | 1.670537 | 2.01021 | 0.049783 | 0 |
| 5/17/2021 | 15:18:03 | 10.286 | 33.74672 | 8.54 | 1.60492 | 1.62484 | 0.049726 | 0 |
| 5/17/2021 | 16:18:03 | 10.269 | 33.69095 | 8.71 | 1.549146 | 1.346552 | 0.050049 | 0 |
| 5/17/2021 | 17:18:03 | 10.257 | 33.65158 | 8.6 | 1.509776 | 1.174475 | 0.04984 | 0 |
| 5/17/2021 | 18:18:03 | 10.245 | 33.61221 | 8.62 | 1.470406 | 1.020693 | 0.049878 | 0 |
| 5/17/2021 | 19:18:03 | 10.235 | 33.5794 | 8.65 | 1.437597 | 0.905409 | 0.049935 | 0 |
| 5/17/2021 | 20:18:03 | 10.231 | 33.56627 | 8.68 | 1.424474 | 0.862365 | 0.049992 | 0 |
| 5/17/2021 | 21:18:03 | 10.229 | 33.55971 | 8.72 | 1.417912 | 0.841475 | 0.050068 | 0 |
| 5/17/2021 | 22:18:03 | 10.227 | 33.55315 | 8.77 | 1.411351 | 0.820997 | 0.050163 | 0 |
| 5/17/2021 | 23:18:03 | 10.218 | 33.52362 | 8.84 | 1.381823 | 0.733788 | 0.050296 | 0 |
| 5/18/2021 | 0:18:03 | 10.213 | 33.50722 | 8.85 | 1.365419 | 0.68869 | 0.050315 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 5/18/2021 | 1:18:03 | 10.21 | 33.49738 | 8.95 | 1.355576 | 0.662729 | 0.050505 | 0 |
| 5/18/2021 | 2:18:03 | 10.208 | 33.49081 | 8.97 | 1.349015 | 0.645867 | 0.050543 | 0 |
| 5/18/2021 | 3:18:03 | 10.204 | 33.47769 | 8.97 | 1.335891 | 0.613189 | 0.050543 | 0 |
| 5/18/2021 | 4:18:03 | 10.203 | 33.47441 | 8.99 | 1.332611 | 0.605232 | 0.050581 | 0 |
| 5/18/2021 | 5:18:03 | 10.196 | 33.45144 | 9.04 | 1.309645 | 0.551852 | 0.050676 | 0 |
| 5/18/2021 | 6:18:03 | 10.189 | 33.42848 | 9.11 | 1.286679 | 0.502359 | 0.050809 | 0 |
| 5/18/2021 | 7:18:03 | 10.188 | 33.4252 | 9.1 | 1.283398 | 0.495593 | 0.05079 | 0 |
| 5/18/2021 | 8:18:03 | 10.199 | 33.46129 | 9.13 | 1.319487 | 0.57424 | 0.050847 | 0 |
| 5/18/2021 | 9:18:03 | 10.201 | 33.46785 | 9.14 | 1.326049 | 0.589571 | 0.050866 | 0 |
| 5/18/2021 | 10:18:03 | 10.195 | 33.44816 | 9.2 | 1.306364 | 0.544549 | 0.05098 | 0 |

5/27/2021 – 5/28/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 5/27/2021 | 7:18:03 | 10.182 | 33.40551 | 5.92 | 1.263713 | 0.456532 | 0.044748 | 0 |
| 5/27/2021 | 8:18:03 | 10.183 | 33.40879 | 5.96 | 1.266994 | 0.462862 | 0.044824 | 0 |
| 5/27/2021 | 9:18:03 | 10.184 | 33.41207 | 5.98 | 1.270275 | 0.469264 | 0.044862 | 0 |
| 5/27/2021 | 10:18:03 | 10.185 | 33.41536 | 6.01 | 1.273555 | 0.475737 | 0.044919 | 0.3149608 |
| 5/27/2021 | 11:18:03 | 10.199 | 33.46129 | 6.05 | 1.319487 | 0.57424 | 0.044995 | 0.02362206 |
| 5/27/2021 | 12:18:03 | 10.2 | 33.46457 | 6.15 | 1.322768 | 0.581865 | 0.045185 | 0.16141741 |
| 5/27/2021 | 13:18:03 | 10.271 | 33.69751 | 6.36 | 1.555708 | 1.377123 | 0.045584 | 0.67716572 |
| 5/27/2021 | 14:18:03 | 10.484 | 34.39633 | 6.52 | 2.254527 | 9.880267 | 0.045888 | 0.09448824 |
| 5/27/2021 | 15:18:03 | 10.598 | 34.77034 | 6.62 | 2.628542 | 22.32636 | 0.046078 | 0.00787402 |
| 5/27/2021 | 16:18:03 | 10.663 | 34.9836 | 6.74 | 2.841797 | 33.78738 | 0.046306 | 0.13385834 |
| 5/27/2021 | 17:18:03 | 10.698 | 35.09843 | 6.75 | 2.956626 | 41.69912 | 0.046325 | 0.10236226 |
| 5/27/2021 | 18:18:03 | 10.681 | 35.04265 | 6.79 | 2.900852 | 37.68755 | 0.046401 | 0.00787402 |
| 5/27/2021 | 19:18:03 | 10.676 | 35.02625 | 6.85 | 2.884448 | 36.56931 | 0.046515 | 0 |
| 5/27/2021 | 20:18:03 | 10.661 | 34.97704 | 6.96 | 2.835235 | 33.37508 | 0.046724 | 0 |
| 5/27/2021 | 21:18:03 | 10.629 | 34.87205 | 7.06 | 2.730248 | 27.31406 | 0.046914 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 5/27/2021 | 22:18:03 | 10.603 | 34.78675 | 7.08 | 2.644947 | 23.07643 | 0.046952 | 0 |
| 5/27/2021 | 23:18:03 | 10.555 | 34.62927 | 7.11 | 2.487466 | 16.65601 | 0.047009 | 0 |
| 5/28/2021 | 0:18:03 | 10.512 | 34.48819 | 7.24 | 2.34639 | 12.21497 | 0.047256 | 0 |
| 5/28/2021 | 1:18:03 | 10.468 | 34.34383 | 7.23 | 2.202033 | 8.718185 | 0.047237 | 0 |
| 5/28/2021 | 2:18:03 | 10.424 | 34.19948 | 7.29 | 2.057676 | 6.081703 | 0.047351 | 0 |
| 5/28/2021 | 3:18:03 | 10.388 | 34.08137 | 7.32 | 1.939566 | 4.442945 | 0.047408 | 0 |
| 5/28/2021 | 4:18:03 | 10.373 | 34.03215 | 7.37 | 1.890353 | 3.876042 | 0.047503 | 0 |
| 5/28/2021 | 5:18:03 | 10.36 | 33.9895 | 7.44 | 1.847702 | 3.43359 | 0.047636 | 0 |
| 5/28/2021 | 6:18:03 | 10.346 | 33.94357 | 7.49 | 1.801771 | 3.00388 | 0.047731 | 0 |
| 5/28/2021 | 7:18:03 | 10.335 | 33.90748 | 7.53 | 1.765681 | 2.69781 | 0.047807 | 0 |
| 5/28/2021 | 8:18:03 | 10.333 | 33.90092 | 7.61 | 1.75912 | 2.644985 | 0.047959 | 0 |
| 5/28/2021 | 9:18:03 | 10.334 | 33.9042 | 7.64 | 1.762401 | 2.671291 | 0.048016 | 0 |
| 5/28/2021 | 10:18:03 | 10.331 | 33.89436 | 7.67 | 1.752558 | 2.593003 | 0.048073 | 0 |

6/25/2021 – 7/2/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 6/25/2021 | 12:18:03 | 10.017 | 32.86417 | 7.75 | 0.722374 | 0.023412 | 0.048225 | 0 |
| 6/25/2021 | 13:18:03 | 10.015 | 32.85761 | 7.72 | 0.715813 | 0.022304 | 0.048168 | 0 |
| 6/25/2021 | 14:18:03 | 10.009 | 32.83793 | 7.69 | 0.696128 | 0.019234 | 0.048111 | 0 |
| 6/25/2021 | 15:18:03 | 9.996 | 32.79528 | 7.62 | 0.653477 | 0.013747 | 0.047978 | 0 |
| 6/25/2021 | 16:18:03 | 9.993 | 32.78543 | 7.63 | 0.643634 | 0.012683 | 0.047997 | 0 |
| 6/25/2021 | 17:18:03 | 9.985 | 32.75919 | 7.63 | 0.617387 | 0.010167 | 0.047997 | 0 |
| 6/25/2021 | 18:18:03 | 9.985 | 32.75919 | 7.65 | 0.617387 | 0.010167 | 0.048035 | 0 |
| 6/25/2021 | 19:18:03 | 9.982 | 32.74934 | 7.71 | 0.607545 | 0.009335 | 0.048149 | 0 |
| 6/25/2021 | 20:18:03 | 9.986 | 32.76247 | 7.74 | 0.620668 | 0.010457 | 0.048206 | 0 |
| 6/25/2021 | 21:18:03 | 9.995 | 32.792 | 7.87 | 0.650196 | 0.013385 | 0.048453 | 0 |
| 6/25/2021 | 22:18:03 | 10.007 | 32.83137 | 7.94 | 0.689566 | 0.01829 | 0.048586 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------|
| 6/25/2021 | 23:18:03 | 10.012 | 32.84777 | 7.95 | 0.70597 | 0.020723 | 0.048605 | 0 |
| 6/26/2021 | 0:18:03 | 10.004 | 32.82152 | 8.09 | 0.679723 | 0.016945 | 0.048871 | 5.51 |
| 6/26/2021 | 1:18:03 | 9.998 | 32.80184 | 8.09 | 0.660038 | 0.014497 | 0.048871 | 0 |
| 6/26/2021 | 2:18:03 | 9.994 | 32.78871 | 8.16 | 0.646915 | 0.01303 | 0.049004 | 0 |
| 6/26/2021 | 3:18:03 | 10.038 | 32.93307 | 8.14 | 0.791272 | 0.037981 | 0.048966 | 0 |
| 6/26/2021 | 4:18:03 | 10.05 | 32.97244 | 8.23 | 0.830642 | 0.049155 | 0.049137 | 0 |
| 6/26/2021 | 5:18:03 | 10.067 | 33.02822 | 8.24 | 0.886416 | 0.069418 | 0.049156 | 0 |
| 6/26/2021 | 6:18:03 | 10.122 | 33.20866 | 8.23 | 1.066862 | 0.185728 | 0.049137 | 0 |
| 6/26/2021 | 7:18:03 | 10.284 | 33.74016 | 8.4 | 1.598359 | 1.589866 | 0.04946 | 0 |
| 6/26/2021 | 8:18:03 | 10.437 | 34.24213 | 8.53 | 2.100327 | 6.781853 | 0.049707 | 0 |
| 6/26/2021 | 9:18:03 | 10.514 | 34.49475 | 8.54 | 2.352952 | 12.3975 | 0.049726 | 0 |
| 6/26/2021 | 10:18:03 | 10.507 | 34.47179 | 8.54 | 2.329986 | 11.76818 | 0.049726 | 0 |
| 6/26/2021 | 11:18:03 | 10.488 | 34.40945 | 8.54 | 2.26765 | 10.18959 | 0.049726 | 0 |
| 6/26/2021 | 12:18:03 | 10.464 | 34.33071 | 8.47 | 2.18891 | 8.445746 | 0.049593 | 0 |
| 6/26/2021 | 13:18:03 | 10.484 | 34.39633 | 8.38 | 2.254527 | 9.880267 | 0.049422 | 0 |
| 6/26/2021 | 14:18:03 | 10.487 | 34.40617 | 8.16 | 2.264369 | 10.11153 | 0.049004 | 0 |
| 6/26/2021 | 15:18:03 | 10.473 | 34.36024 | 7.96 | 2.218437 | 9.068722 | 0.048624 | 0 |
| 6/26/2021 | 16:18:03 | 10.45 | 34.28478 | 7.77 | 2.142978 | 7.546058 | 0.048263 | 0 |
| 6/26/2021 | 17:18:03 | 10.421 | 34.18963 | 7.63 | 2.047834 | 5.928778 | 0.047997 | 0 |
| 6/26/2021 | 18:18:03 | 10.394 | 34.10105 | 7.53 | 1.959251 | 4.687743 | 0.047807 | 0 |
| 6/26/2021 | 19:18:03 | 10.367 | 34.01247 | 7.57 | 1.870668 | 3.666421 | 0.047883 | 0 |
| 6/26/2021 | 20:18:03 | 10.344 | 33.93701 | 7.59 | 1.795209 | 2.946231 | 0.047921 | 0 |
| 6/26/2021 | 21:18:03 | 10.326 | 33.87795 | 7.63 | 1.736154 | 2.466667 | 0.047997 | 0 |
| 6/26/2021 | 22:18:03 | 10.309 | 33.82218 | 7.66 | 1.68038 | 2.07392 | 0.048054 | 0 |
| 6/26/2021 | 23:18:03 | 10.307 | 33.81562 | 7.68 | 1.673818 | 2.031268 | 0.048092 | 0 |
| 6/27/2021 | 0:18:03 | 10.321 | 33.86155 | 7.73 | 1.71975 | 2.345375 | 0.048187 | 0 |
| 6/27/2021 | 1:18:03 | 10.322 | 33.86483 | 7.77 | 1.72303 | 2.369237 | 0.048263 | 0 |
| 6/27/2021 | 2:18:03 | 10.349 | 33.95341 | 7.82 | 1.811613 | 3.092067 | 0.048358 | 0 |
| 6/27/2021 | 3:18:03 | 10.354 | 33.96982 | 7.87 | 1.828017 | 3.243709 | 0.048453 | 0 |
| 6/27/2021 | 4:18:03 | 10.375 | 34.03872 | 7.96 | 1.896915 | 3.948039 | 0.048624 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------|
| 6/27/2021 | 5:18:03 | 10.38 | 34.05512 | 8 | 1.913319 | 4.13279 | 0.0487 | 0 |
| 6/27/2021 | 6:18:03 | 10.384 | 34.06824 | 8.07 | 1.926443 | 4.28559 | 0.048833 | 0 |
| 6/27/2021 | 7:18:03 | 10.395 | 34.10433 | 8.07 | 1.962532 | 4.729586 | 0.048833 | 0 |
| 6/27/2021 | 8:18:03 | 10.405 | 34.13714 | 8.12 | 1.99534 | 5.164946 | 0.048928 | 0 |
| 6/27/2021 | 9:18:03 | 10.42 | 34.18635 | 8.11 | 2.044553 | 5.878502 | 0.048909 | 0 |
| 6/27/2021 | 10:18:03 | 10.428 | 34.2126 | 8.08 | 2.0708 | 6.290568 | 0.048852 | 0 |
| 6/27/2021 | 11:18:03 | 10.424 | 34.19948 | 8.1 | 2.057676 | 6.081703 | 0.04889 | 0 |
| 6/27/2021 | 12:18:03 | 10.426 | 34.20604 | 8.13 | 2.064238 | 6.185419 | 0.048947 | 0.54 |
| 6/27/2021 | 13:18:03 | 10.414 | 34.16667 | 8.07 | 2.024868 | 5.584064 | 0.048833 | 0 |
| 6/27/2021 | 14:18:03 | 10.399 | 34.11746 | 8.12 | 1.975655 | 4.900003 | 0.048928 | 0 |
| 6/27/2021 | 15:18:03 | 10.384 | 34.06824 | 8.1 | 1.926443 | 4.28559 | 0.04889 | 0 |
| 6/27/2021 | 16:18:03 | 10.386 | 34.0748 | 8.1 | 1.933004 | 4.363692 | 0.04889 | 0 |
| 6/27/2021 | 17:18:03 | 10.408 | 34.14698 | 8.12 | 2.005183 | 5.301711 | 0.048928 | 0 |
| 6/27/2021 | 18:18:03 | 10.374 | 34.03543 | 8.11 | 1.893634 | 3.911906 | 0.048909 | 0 |
| 6/27/2021 | 19:18:03 | 10.346 | 33.94357 | 8.17 | 1.801771 | 3.00388 | 0.049023 | 0 |
| 6/27/2021 | 20:18:03 | 10.326 | 33.87795 | 8.26 | 1.736154 | 2.466667 | 0.049194 | 0 |
| 6/27/2021 | 21:18:03 | 10.324 | 33.87139 | 8.33 | 1.729592 | 2.417554 | 0.049327 | 0 |
| 6/27/2021 | 22:18:03 | 10.326 | 33.87795 | 8.34 | 1.736154 | 2.466667 | 0.049346 | 0 |
| 6/27/2021 | 23:18:03 | 10.328 | 33.88452 | 8.37 | 1.742716 | 2.516588 | 0.049403 | 0 |
| 6/28/2021 | 0:18:03 | 10.321 | 33.86155 | 8.45 | 1.71975 | 2.345375 | 0.049555 | 0 |
| 6/28/2021 | 1:18:03 | 10.312 | 33.83202 | 8.45 | 1.690222 | 2.13926 | 0.049555 | 0 |
| 6/28/2021 | 2:18:03 | 10.302 | 33.79921 | 8.42 | 1.657414 | 1.927743 | 0.049498 | 0 |
| 6/28/2021 | 3:18:03 | 10.294 | 33.77297 | 8.43 | 1.631167 | 1.771041 | 0.049517 | 0 |
| 6/28/2021 | 4:18:03 | 10.291 | 33.76312 | 8.36 | 1.621324 | 1.715015 | 0.049384 | 0 |
| 6/28/2021 | 5:18:03 | 10.288 | 33.75328 | 8.35 | 1.611482 | 1.660436 | 0.049365 | 0 |
| 6/28/2021 | 6:18:03 | 10.29 | 33.75984 | 8.29 | 1.618044 | 1.696663 | 0.049251 | 0 |
| 6/28/2021 | 7:18:03 | 10.292 | 33.76641 | 8.28 | 1.624605 | 1.733528 | 0.049232 | 0 |
| 6/28/2021 | 8:18:03 | 10.298 | 33.78609 | 8.18 | 1.64429 | 1.848044 | 0.049042 | 0 |
| 6/28/2021 | 9:18:03 | 10.299 | 33.78937 | 8.16 | 1.647571 | 1.867714 | 0.049004 | 0 |
| 6/28/2021 | 10:18:03 | 10.301 | 33.79593 | 8.06 | 1.654133 | 1.907562 | 0.048814 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------|
| 6/28/2021 | 11:18:03 | 10.3 | 33.79265 | 8.05 | 1.650852 | 1.887552 | 0.048795 | 0 |
| 6/28/2021 | 12:18:03 | 10.299 | 33.78937 | 8.07 | 1.647571 | 1.867714 | 0.048833 | 0.47 |
| 6/28/2021 | 13:18:03 | 10.296 | 33.77953 | 8.05 | 1.637729 | 1.80921 | 0.048795 | 0 |
| 6/28/2021 | 14:18:03 | 10.289 | 33.75656 | 8.08 | 1.614763 | 1.67847 | 0.048852 | 0 |
| 6/28/2021 | 15:18:03 | 10.284 | 33.74016 | 8.06 | 1.598359 | 1.589866 | 0.048814 | 0 |
| 6/28/2021 | 16:18:03 | 10.296 | 33.77953 | 8.15 | 1.637729 | 1.80921 | 0.048985 | 0 |
| 6/28/2021 | 17:18:03 | 10.301 | 33.79593 | 8.22 | 1.654133 | 1.907562 | 0.049118 | 0 |
| 6/28/2021 | 18:18:03 | 10.308 | 33.8189 | 8.26 | 1.677099 | 2.052504 | 0.049194 | 0 |
| 6/28/2021 | 19:18:03 | 10.319 | 33.85499 | 8.33 | 1.713188 | 2.298235 | 0.049327 | 0 |
| 6/28/2021 | 20:18:03 | 10.329 | 33.8878 | 8.3 | 1.745996 | 2.541854 | 0.04927 | 0 |
| 6/28/2021 | 21:18:03 | 10.338 | 33.91732 | 8.31 | 1.775524 | 2.778649 | 0.049289 | 0 |
| 6/28/2021 | 22:18:03 | 10.348 | 33.95013 | 8.34 | 1.808332 | 3.062441 | 0.049346 | 0 |
| 6/28/2021 | 23:18:03 | 10.36 | 33.9895 | 8.33 | 1.847702 | 3.43359 | 0.049327 | 0 |
| 6/29/2021 | 0:18:03 | 10.367 | 34.01247 | 8.36 | 1.870668 | 3.666421 | 0.049384 | 0 |
| 6/29/2021 | 1:18:03 | 10.374 | 34.03543 | 8.38 | 1.893634 | 3.911906 | 0.049422 | 0 |
| 6/29/2021 | 2:18:03 | 10.385 | 34.07152 | 8.4 | 1.929723 | 4.324498 | 0.04946 | 0 |
| 6/29/2021 | 3:18:03 | 10.388 | 34.08137 | 8.42 | 1.939566 | 4.442945 | 0.049498 | 0 |
| 6/29/2021 | 4:18:03 | 10.39 | 34.08793 | 8.43 | 1.946128 | 4.523362 | 0.049517 | 0 |
| 6/29/2021 | 5:18:03 | 10.389 | 34.08465 | 8.49 | 1.942847 | 4.483007 | 0.049631 | 0 |
| 6/29/2021 | 6:18:03 | 10.394 | 34.10105 | 8.53 | 1.959251 | 4.687743 | 0.049707 | 0 |
| 6/29/2021 | 7:18:03 | 10.395 | 34.10433 | 8.51 | 1.962532 | 4.729586 | 0.049669 | 0 |
| 6/29/2021 | 8:18:03 | 10.397 | 34.11089 | 8.52 | 1.969093 | 4.814183 | 0.049688 | 0 |
| 6/29/2021 | 9:18:03 | 10.396 | 34.10761 | 8.57 | 1.965813 | 4.771732 | 0.049783 | 0 |
| 6/29/2021 | 10:18:03 | 10.39 | 34.08793 | 8.62 | 1.946128 | 4.523362 | 0.049878 | 0 |
| 6/29/2021 | 11:18:03 | 10.394 | 34.10105 | 8.65 | 1.959251 | 4.687743 | 0.049935 | 0 |
| 6/29/2021 | 12:18:03 | 10.398 | 34.11417 | 8.61 | 1.972374 | 4.856939 | 0.049859 | 0 |
| 6/29/2021 | 13:18:03 | 10.376 | 34.042 | 8.61 | 1.900196 | 3.984442 | 0.049859 | 0 |
| 6/29/2021 | 14:18:03 | 10.357 | 33.97966 | 8.54 | 1.83786 | 3.337553 | 0.049726 | 0 |
| 6/29/2021 | 15:18:03 | 10.346 | 33.94357 | 8.56 | 1.801771 | 3.00388 | 0.049764 | 0 |
| 6/29/2021 | 16:18:03 | 10.334 | 33.9042 | 8.56 | 1.762401 | 2.671291 | 0.049764 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|------|
| 6/29/2021 | 17:18:03 | 10.327 | 33.88123 | 8.62 | 1.739435 | 2.491526 | 0.049878 | 0 |
| 6/29/2021 | 18:18:03 | 10.321 | 33.86155 | 8.64 | 1.71975 | 2.345375 | 0.049916 | 0 |
| 6/29/2021 | 19:18:03 | 10.317 | 33.84843 | 8.73 | 1.706626 | 2.251866 | 0.050087 | 0 |
| 6/29/2021 | 20:18:03 | 10.316 | 33.84515 | 8.71 | 1.703345 | 2.228969 | 0.050049 | 0 |
| 6/29/2021 | 21:18:03 | 10.314 | 33.83858 | 8.8 | 1.696784 | 2.18374 | 0.05022 | 0 |
| 6/29/2021 | 22:18:03 | 10.318 | 33.85171 | 8.83 | 1.709907 | 2.274955 | 0.050277 | 0 |
| 6/29/2021 | 23:18:03 | 10.314 | 33.83858 | 8.82 | 1.696784 | 2.18374 | 0.050258 | 0 |
| 6/30/2021 | 0:18:03 | 10.307 | 33.81562 | 8.77 | 1.673818 | 2.031268 | 0.050163 | 0 |
| 6/30/2021 | 1:18:03 | 10.299 | 33.78937 | 8.7 | 1.647571 | 1.867714 | 0.05003 | 0 |
| 6/30/2021 | 2:18:03 | 10.292 | 33.76641 | 8.67 | 1.624605 | 1.733528 | 0.049973 | 0 |
| 6/30/2021 | 3:18:03 | 10.286 | 33.74672 | 8.6 | 1.60492 | 1.62484 | 0.04984 | 0 |
| 6/30/2021 | 4:18:03 | 10.283 | 33.73688 | 8.44 | 1.595078 | 1.57261 | 0.049536 | 0 |
| 6/30/2021 | 5:18:03 | 10.283 | 33.73688 | 8.35 | 1.595078 | 1.57261 | 0.049365 | 0 |
| 6/30/2021 | 6:18:03 | 10.285 | 33.74344 | 8.28 | 1.601639 | 1.607276 | 0.049232 | 0 |
| 6/30/2021 | 7:18:03 | 10.286 | 33.74672 | 8.11 | 1.60492 | 1.62484 | 0.048909 | 0 |
| 6/30/2021 | 8:18:03 | 10.287 | 33.75 | 8.01 | 1.608201 | 1.64256 | 0.048719 | 0 |
| 6/30/2021 | 9:18:03 | 10.289 | 33.75656 | 7.91 | 1.614763 | 1.67847 | 0.048529 | 0 |
| 6/30/2021 | 10:18:03 | 10.288 | 33.75328 | 7.79 | 1.611482 | 1.660436 | 0.048301 | 0 |
| 6/30/2021 | 11:18:03 | 10.287 | 33.75 | 7.7 | 1.608201 | 1.64256 | 0.04813 | 0 |
| 6/30/2021 | 12:18:03 | 10.28 | 33.72704 | 7.61 | 1.585235 | 1.521751 | 0.047959 | 0.25 |
| 6/30/2021 | 13:18:03 | 10.274 | 33.70735 | 7.54 | 1.56555 | 1.424035 | 0.047826 | 0 |
| 6/30/2021 | 14:18:03 | 10.266 | 33.6811 | 7.5 | 1.539303 | 1.30173 | 0.04775 | 0 |
| 6/30/2021 | 15:18:03 | 10.282 | 33.7336 | 7.48 | 1.591797 | 1.555506 | 0.047712 | 0 |
| 6/30/2021 | 16:18:03 | 10.291 | 33.76312 | 7.5 | 1.621324 | 1.715015 | 0.04775 | 0 |
| 6/30/2021 | 17:18:03 | 10.336 | 33.91076 | 7.65 | 1.768962 | 2.724541 | 0.048035 | 0 |
| 6/30/2021 | 18:18:03 | 10.508 | 34.47507 | 7.94 | 2.333267 | 11.85646 | 0.048586 | 0 |
| 6/30/2021 | 19:18:03 | 10.685 | 35.05578 | 8.1 | 2.913975 | 38.60198 | 0.04889 | 0 |
| 6/30/2021 | 20:18:03 | 10.887 | 35.71851 | 7.92 | 3.576705 | 114.6306 | 0.048548 | 0 |
| 6/30/2021 | 21:18:03 | 10.912 | 35.80053 | 7.66 | 3.658726 | 129.3004 | 0.048054 | 0 |
| 6/30/2021 | 22:18:03 | 10.855 | 35.61352 | 7.68 | 3.471718 | 97.85423 | 0.048092 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|-----|
| 6/30/2021 | 23:18:03 | 10.786 | 35.38714 | 7.73 | 3.24534 | 68.39782 | 0.048187 | 0 |
| 7/1/2021 | 0:18:03 | 10.722 | 35.17717 | 7.83 | 3.035366 | 47.94615 | 0.048377 | 0 |
| 7/1/2021 | 1:18:03 | 10.66 | 34.97375 | 7.95 | 2.831954 | 33.17046 | 0.048605 | 0 |
| 7/1/2021 | 2:18:03 | 10.6 | 34.7769 | 8.02 | 2.635104 | 22.62398 | 0.048738 | 0 |
| 7/1/2021 | 3:18:03 | 10.549 | 34.60958 | 8.12 | 2.467781 | 15.96776 | 0.048928 | 0 |
| 7/1/2021 | 4:18:03 | 10.508 | 34.47507 | 8.19 | 2.333267 | 11.85646 | 0.049061 | 0 |
| 7/1/2021 | 5:18:03 | 10.472 | 34.35696 | 8.25 | 2.215156 | 8.997715 | 0.049175 | 0 |
| 7/1/2021 | 6:18:03 | 10.453 | 34.29462 | 8.31 | 2.152821 | 7.731971 | 0.049289 | 0 |
| 7/1/2021 | 7:18:03 | 10.441 | 34.25525 | 8.39 | 2.11345 | 7.00997 | 0.049441 | 0 |
| 7/1/2021 | 8:18:03 | 10.429 | 34.21588 | 8.45 | 2.07408 | 6.343683 | 0.049555 | 0 |
| 7/1/2021 | 9:18:03 | 10.426 | 34.20604 | 8.5 | 2.064238 | 6.185419 | 0.04965 | 0 |
| 7/1/2021 | 10:18:03 | 10.42 | 34.18635 | 8.58 | 2.044553 | 5.878502 | 0.049802 | 0 |
| 7/1/2021 | 11:18:03 | 10.418 | 34.17979 | 8.64 | 2.037991 | 5.778989 | 0.049916 | 0 |
| 7/1/2021 | 12:18:03 | 10.408 | 34.14698 | 8.68 | 2.005183 | 5.301711 | 0.049992 | 0.1 |
| 7/1/2021 | 13:18:03 | 10.392 | 34.09449 | 8.75 | 1.952689 | 4.604957 | 0.050125 | 0 |
| 7/1/2021 | 14:18:03 | 10.378 | 34.04856 | 8.8 | 1.906758 | 4.058066 | 0.05022 | 0 |
| 7/1/2021 | 15:18:03 | 10.36 | 33.9895 | 8.88 | 1.847702 | 3.43359 | 0.050372 | 0 |
| 7/1/2021 | 16:18:03 | 10.351 | 33.95997 | 8.9 | 1.818175 | 3.152017 | 0.05041 | 0 |
| 7/1/2021 | 17:18:03 | 10.339 | 33.9206 | 9.03 | 1.778805 | 2.806029 | 0.050657 | 0 |
| 7/1/2021 | 18:18:03 | 10.329 | 33.8878 | 9.1 | 1.745996 | 2.541854 | 0.05079 | 0 |
| 7/1/2021 | 19:18:03 | 10.322 | 33.86483 | 9.18 | 1.72303 | 2.369237 | 0.050942 | 0 |
| 7/1/2021 | 20:18:03 | 10.315 | 33.84186 | 9.25 | 1.700065 | 2.20626 | 0.051075 | 0 |
| 7/1/2021 | 21:18:03 | 10.308 | 33.8189 | 9.31 | 1.677099 | 2.052504 | 0.051189 | 0 |
| 7/1/2021 | 22:18:03 | 10.309 | 33.82218 | 9.42 | 1.68038 | 2.07392 | 0.051398 | 0 |
| 7/1/2021 | 23:18:03 | 10.308 | 33.8189 | 9.53 | 1.677099 | 2.052504 | 0.051607 | 0 |
| 7/2/2021 | 0:18:03 | 10.305 | 33.80906 | 9.57 | 1.667256 | 1.98933 | 0.051683 | 0 |
| 7/2/2021 | 1:18:03 | 10.299 | 33.78937 | 9.63 | 1.647571 | 1.867714 | 0.051797 | 0 |
| 7/2/2021 | 2:18:03 | 10.293 | 33.76969 | 9.71 | 1.627886 | 1.752203 | 0.051949 | 0 |
| 7/2/2021 | 3:18:03 | 10.288 | 33.75328 | 9.71 | 1.611482 | 1.660436 | 0.051949 | 0 |
| 7/2/2021 | 4:18:03 | 10.287 | 33.75 | 9.75 | 1.608201 | 1.64256 | 0.052025 | 0 |

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|----------|----------|--------|----------|------|----------|----------|----------|---|
| 7/2/2021 | 5:18:03 | 10.286 | 33.74672 | 9.74 | 1.60492 | 1.62484 | 0.052006 | 0 |
| 7/2/2021 | 6:18:03 | 10.286 | 33.74672 | 9.76 | 1.60492 | 1.62484 | 0.052044 | 0 |
| 7/2/2021 | 7:18:03 | 10.287 | 33.75 | 9.77 | 1.608201 | 1.64256 | 0.052063 | 0 |
| 7/2/2021 | 8:18:03 | 10.286 | 33.74672 | 9.74 | 1.60492 | 1.62484 | 0.052006 | 0 |
| 7/2/2021 | 9:18:03 | 10.287 | 33.75 | 9.69 | 1.608201 | 1.64256 | 0.051911 | 0 |
| 7/2/2021 | 10:18:03 | 10.286 | 33.74672 | 9.69 | 1.60492 | 1.62484 | 0.051911 | 0 |
| 7/2/2021 | 11:18:03 | 10.287 | 33.75 | 9.67 | 1.608201 | 1.64256 | 0.051873 | 0 |
| 7/2/2021 | 12:18:03 | 10.288 | 33.75328 | 9.68 | 1.611482 | 1.660436 | 0.051892 | 0 |

7/15/2021 – 7/18/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 7/15/2021 | 12:18:03 | 10.083 | 33.08071 | 11.76 | 0.93891 | 0.094229 | 0.055844 | 0 |
| 7/15/2021 | 13:18:03 | 10.082 | 33.07743 | 11.73 | 0.935629 | 0.092493 | 0.055787 | 0 |
| 7/15/2021 | 14:18:03 | 10.078 | 33.06431 | 11.65 | 0.922506 | 0.085808 | 0.055635 | 0 |
| 7/15/2021 | 15:18:03 | 10.073 | 33.0479 | 11.62 | 0.906101 | 0.078008 | 0.055578 | 0 |
| 7/15/2021 | 16:18:03 | 10.07 | 33.03806 | 11.57 | 0.896259 | 0.073611 | 0.055483 | 0 |
| 7/15/2021 | 17:18:03 | 10.062 | 33.01181 | 11.58 | 0.870012 | 0.062862 | 0.055502 | 0 |
| 7/15/2021 | 18:18:03 | 10.055 | 32.98885 | 11.61 | 0.847046 | 0.054535 | 0.055559 | 0 |
| 7/15/2021 | 19:18:03 | 10.05 | 32.97244 | 11.67 | 0.830642 | 0.049155 | 0.055673 | 0 |
| 7/15/2021 | 20:18:03 | 10.052 | 32.979 | 11.68 | 0.837204 | 0.051253 | 0.055692 | 0 |
| 7/15/2021 | 21:18:03 | 10.049 | 32.96916 | 11.73 | 0.827361 | 0.048133 | 0.055787 | 0 |
| 7/15/2021 | 22:18:03 | 10.057 | 32.99541 | 11.83 | 0.853608 | 0.056817 | 0.055977 | 0 |
| 7/15/2021 | 23:18:03 | 10.06 | 33.00525 | 11.87 | 0.86345 | 0.060384 | 0.056053 | 0 |
| 7/16/2021 | 0:18:03 | 10.056 | 32.99213 | 11.9 | 0.850327 | 0.055667 | 0.05611 | 0 |
| 7/16/2021 | 1:18:03 | 10.055 | 32.98885 | 11.92 | 0.847046 | 0.054535 | 0.056148 | 0 |
| 7/16/2021 | 2:18:03 | 10.049 | 32.96916 | 11.96 | 0.827361 | 0.048133 | 0.056224 | 1.33 |
| 7/16/2021 | 3:18:03 | 10.067 | 33.02822 | 12.02 | 0.886416 | 0.069418 | 0.056338 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|---|
| 7/16/2021 | 4:18:03 | 10.059 | 33.00197 | 12.01 | 0.86017 | 0.059176 | 0.056319 | 0 |
| 7/16/2021 | 5:18:03 | 10.15 | 33.30053 | 12.03 | 1.158726 | 0.288009 | 0.056357 | 0 |
| 7/16/2021 | 6:18:03 | 10.425 | 34.20276 | 11.95 | 2.060957 | 6.133383 | 0.056205 | 0 |
| 7/16/2021 | 7:18:03 | 10.536 | 34.56693 | 12.31 | 2.42513 | 14.55557 | 0.056889 | 0 |
| 7/16/2021 | 8:18:03 | 10.595 | 34.7605 | 12.01 | 2.6187 | 21.8859 | 0.056319 | 0 |
| 7/16/2021 | 9:18:03 | 10.73 | 35.20341 | 11.31 | 3.061613 | 50.1896 | 0.054989 | 0 |
| 7/16/2021 | 10:18:03 | 10.751 | 35.27231 | 10.9 | 3.130511 | 56.48678 | 0.05421 | 0 |
| 7/16/2021 | 11:18:03 | 10.719 | 35.16732 | 10.68 | 3.025524 | 47.12615 | 0.053792 | 0 |
| 7/16/2021 | 12:18:03 | 10.666 | 34.99344 | 10.6 | 2.851639 | 34.41358 | 0.05364 | 0 |
| 7/16/2021 | 13:18:03 | 10.616 | 34.8294 | 10.54 | 2.687597 | 25.12279 | 0.053526 | 0 |
| 7/16/2021 | 14:18:03 | 10.563 | 34.65551 | 10.5 | 2.513713 | 17.61094 | 0.05345 | 0 |
| 7/16/2021 | 15:18:03 | 10.513 | 34.49147 | 10.49 | 2.349671 | 12.30596 | 0.053431 | 0 |
| 7/16/2021 | 16:18:03 | 10.462 | 34.32415 | 10.45 | 2.182348 | 8.312141 | 0.053355 | 0 |
| 7/16/2021 | 17:18:03 | 10.42 | 34.18635 | 10.43 | 2.044553 | 5.878502 | 0.053317 | 0 |
| 7/16/2021 | 18:18:03 | 10.385 | 34.07152 | 10.42 | 1.929723 | 4.324498 | 0.053298 | 0 |
| 7/16/2021 | 19:18:03 | 10.359 | 33.98622 | 10.38 | 1.844422 | 3.401332 | 0.053222 | 0 |
| 7/16/2021 | 20:18:03 | 10.345 | 33.94029 | 10.38 | 1.79849 | 2.974942 | 0.053222 | 0 |
| 7/16/2021 | 21:18:03 | 10.331 | 33.89436 | 10.43 | 1.752558 | 2.593003 | 0.053317 | 0 |
| 7/16/2021 | 22:18:03 | 10.325 | 33.87467 | 10.44 | 1.732873 | 2.442011 | 0.053336 | 0 |
| 7/16/2021 | 23:18:03 | 10.313 | 33.8353 | 10.45 | 1.693503 | 2.161407 | 0.053355 | 0 |
| 7/17/2021 | 0:18:03 | 10.303 | 33.80249 | 10.45 | 1.660695 | 1.948098 | 0.053355 | 0 |
| 7/17/2021 | 1:18:03 | 10.294 | 33.77297 | 10.45 | 1.631167 | 1.771041 | 0.053355 | 0 |
| 7/17/2021 | 2:18:03 | 10.284 | 33.74016 | 10.43 | 1.598359 | 1.589866 | 0.053317 | 0 |
| 7/17/2021 | 3:18:03 | 10.277 | 33.71719 | 10.38 | 1.575393 | 1.472235 | 0.053222 | 0 |
| 7/17/2021 | 4:18:03 | 10.279 | 33.72375 | 10.39 | 1.581954 | 1.505097 | 0.053241 | 0 |
| 7/17/2021 | 5:18:03 | 10.268 | 33.68767 | 10.37 | 1.545865 | 1.331475 | 0.053203 | 0 |
| 7/17/2021 | 6:18:03 | 10.266 | 33.6811 | 10.36 | 1.539303 | 1.30173 | 0.053184 | 0 |
| 7/17/2021 | 7:18:03 | 10.263 | 33.67126 | 10.28 | 1.529461 | 1.258127 | 0.053032 | 0 |
| 7/17/2021 | 8:18:03 | 10.267 | 33.68438 | 10.25 | 1.542584 | 1.316534 | 0.052975 | 0 |
| 7/17/2021 | 9:18:03 | 10.274 | 33.70735 | 10.24 | 1.56555 | 1.424035 | 0.052956 | 0 |

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|-----------|----------|--------|----------|-------|----------|----------|----------|------|
| 7/17/2021 | 10:18:03 | 10.269 | 33.69095 | 10.17 | 1.549146 | 1.346552 | 0.052823 | 0 |
| 7/17/2021 | 11:18:03 | 10.272 | 33.70079 | 10.14 | 1.558988 | 1.392619 | 0.052766 | 0 |
| 7/17/2021 | 12:18:03 | 10.272 | 33.70079 | 10.09 | 1.558988 | 1.392619 | 0.052671 | 0 |
| 7/17/2021 | 13:18:03 | 10.265 | 33.67782 | 10.13 | 1.536023 | 1.287062 | 0.052747 | 0 |
| 7/17/2021 | 14:18:03 | 10.249 | 33.62533 | 10.11 | 1.483529 | 1.070017 | 0.052709 | 0 |
| 7/17/2021 | 15:18:03 | 10.241 | 33.59908 | 10.08 | 1.457282 | 0.97323 | 0.052652 | 0 |
| 7/17/2021 | 16:18:03 | 10.24 | 33.5958 | 10.08 | 1.454002 | 0.961649 | 0.052652 | 0 |
| 7/17/2021 | 17:18:03 | 10.239 | 33.59252 | 10.05 | 1.450721 | 0.95018 | 0.052595 | 0 |
| 7/17/2021 | 18:18:03 | 10.235 | 33.5794 | 10.09 | 1.437597 | 0.905409 | 0.052671 | 1.75 |
| 7/17/2021 | 19:18:03 | 10.239 | 33.59252 | 10.12 | 1.450721 | 0.95018 | 0.052728 | 0 |
| 7/17/2021 | 20:18:03 | 10.251 | 33.63189 | 10.15 | 1.490091 | 1.095395 | 0.052785 | 0 |
| 7/17/2021 | 21:18:03 | 10.44 | 34.25197 | 10.14 | 2.11017 | 6.952365 | 0.052766 | 0 |
| 7/17/2021 | 22:18:03 | 10.629 | 34.87205 | 10.2 | 2.730248 | 27.31406 | 0.05288 | 0 |
| 7/17/2021 | 23:18:03 | 10.749 | 35.26575 | 10.28 | 3.123949 | 55.86077 | 0.053032 | 0 |
| 7/18/2021 | 0:18:03 | 10.82 | 35.49869 | 10.18 | 3.356889 | 81.84548 | 0.052842 | 0 |
| 7/18/2021 | 1:18:03 | 10.815 | 35.48228 | 10.14 | 3.340485 | 79.74345 | 0.052766 | 0 |
| 7/18/2021 | 2:18:03 | 10.772 | 35.34121 | 10.16 | 3.199408 | 63.41068 | 0.052804 | 0 |
| 7/18/2021 | 3:18:03 | 10.724 | 35.18373 | 10.18 | 3.041928 | 48.49923 | 0.052842 | 0 |
| 7/18/2021 | 4:18:03 | 10.673 | 35.01641 | 10.22 | 2.874605 | 35.9114 | 0.052918 | 0 |
| 7/18/2021 | 5:18:03 | 10.624 | 34.85564 | 10.21 | 2.713844 | 26.45363 | 0.052899 | 0 |
| 7/18/2021 | 6:18:03 | 10.577 | 34.70144 | 10.25 | 2.559645 | 19.38878 | 0.052975 | 0 |
| 7/18/2021 | 7:18:03 | 10.539 | 34.57677 | 10.24 | 2.434973 | 14.87209 | 0.052956 | 0 |
| 7/18/2021 | 8:18:03 | 10.504 | 34.46194 | 10.25 | 2.320143 | 11.50654 | 0.052975 | 0 |
| 7/18/2021 | 9:18:03 | 10.476 | 34.37008 | 10.25 | 2.22828 | 9.284476 | 0.052975 | 0 |
| 7/18/2021 | 10:18:03 | 10.448 | 34.27822 | 10.27 | 2.136416 | 7.424145 | 0.053013 | 0 |
| 7/18/2021 | 11:18:03 | 10.425 | 34.20276 | 10.24 | 2.060957 | 6.133383 | 0.052956 | 0 |
| 7/18/2021 | 12:18:03 | 10.406 | 34.14042 | 10.24 | 1.998621 | 5.210213 | 0.052956 | 0 |

9/20/2021 – 9/22/2021

| Date (MM/DD/YYYY) | Time (HH:mm:ss) | Probe Depth (m) | Probe Depth (ft) | Turbidity FNU | Actual Stream Depth (ft) | Q(cfs) | SS (g/l) | Rainfall (inches/hour) |
|----------------------|--------------------|--------------------|---------------------|------------------|--------------------------------|----------|----------|---------------------------|
| 9/20/2021 | 13:00:00 | 9.987 | 32.76575 | 37.66 | 0.623949 | 0.010754 | 0.105054 | 0 |
| 9/20/2021 | 14:00:00 | 9.989 | 32.77231 | 37.84 | 0.630511 | 0.011368 | 0.105396 | 0 |
| 9/20/2021 | 15:00:00 | 9.977 | 32.73294 | 37.95 | 0.591141 | 0.008072 | 0.105605 | 0 |
| 9/20/2021 | 16:00:00 | 9.972 | 32.71654 | 37.93 | 0.574736 | 0.006951 | 0.105567 | 0 |
| 9/20/2021 | 17:00:00 | 9.968 | 32.70341 | 38.02 | 0.561613 | 0.006149 | 0.105738 | 0 |
| 9/20/2021 | 18:00:00 | 9.967 | 32.70013 | 38.06 | 0.558332 | 0.00596 | 0.105814 | 0 |
| 9/20/2021 | 19:00:00 | 9.965 | 32.69357 | 37.95 | 0.551771 | 0.005597 | 0.105605 | 0 |
| 9/20/2021 | 20:00:00 | 9.964 | 32.69029 | 37.74 | 0.54849 | 0.005423 | 0.105206 | 0 |
| 9/20/2021 | 21:00:00 | 9.968 | 32.70341 | 37.59 | 0.561613 | 0.006149 | 0.104921 | 0.33858286 |
| 9/20/2021 | 22:00:00 | 9.972 | 32.71654 | 7.2 | 0.574736 | 0.006951 | 0.04718 | 0 |
| 9/20/2021 | 23:00:00 | 9.991 | 32.77887 | 7.06 | 0.637072 | 0.012011 | 0.046914 | 0.00787402 |
| 9/21/2021 | 0:00:00 | 10.009 | 32.83793 | 7.36 | 0.696128 | 0.019234 | 0.047484 | 0.00787402 |
| 9/21/2021 | 1:00:00 | 10.017 | 32.86417 | 32.89 | 0.722374 | 0.023412 | 0.095991 | 0 |
| 9/21/2021 | 2:00:00 | 10.015 | 32.85761 | 33.06 | 0.715813 | 0.022304 | 0.096314 | 0.5511814 |
| 9/21/2021 | 3:00:00 | 10.036 | 32.92651 | 7.11 | 0.78471 | 0.036338 | 0.047009 | 0.24409462 |
| 9/21/2021 | 4:00:00 | 10.037 | 32.92979 | 6.99 | 0.787991 | 0.037152 | 0.046781 | 0.03149608 |
| 9/21/2021 | 5:00:00 | 10.039 | 32.93635 | 6.87 | 0.794553 | 0.038825 | 0.046553 | 0 |
| 9/21/2021 | 6:00:00 | 10.051 | 32.97572 | 6.85 | 0.833923 | 0.050195 | 0.046515 | 0 |
| 9/21/2021 | 7:00:00 | 10.06 | 33.00525 | 6.88 | 0.86345 | 0.060384 | 0.046572 | 0 |
| 9/21/2021 | 8:00:00 | 10.067 | 33.02822 | 6.9 | 0.886416 | 0.069418 | 0.04661 | 0 |
| 9/21/2021 | 9:00:00 | 10.081 | 33.07415 | 6.92 | 0.932348 | 0.090783 | 0.046648 | 0 |
| 9/21/2021 | 10:00:00 | 10.092 | 33.11024 | 6.91 | 0.968437 | 0.111073 | 0.046629 | 0 |
| 9/21/2021 | 11:00:00 | 10.1 | 33.13648 | 6.89 | 0.994684 | 0.128024 | 0.046591 | 0 |
| 9/21/2021 | 12:00:00 | 10.108 | 33.16273 | 6.95 | 1.020931 | 0.147017 | 0.046705 | 0 |
| 9/21/2021 | 13:00:00 | 10.11 | 33.16929 | 6.94 | 1.027492 | 0.152106 | 0.046686 | 0 |
| 9/21/2021 | 14:00:00 | 10.109 | 33.16601 | 6.94 | 1.024212 | 0.149544 | 0.046686 | 0 |
| 9/21/2021 | 15:00:00 | 10.108 | 33.16273 | 6.97 | 1.020931 | 0.147017 | 0.046743 | 0 |

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|-----------|----------|--------|----------|------|----------|----------|----------|---|
| 9/21/2021 | 16:00:00 | 10.108 | 33.16273 | 7 | 1.020931 | 0.147017 | 0.0468 | 0 |
| 9/21/2021 | 17:00:00 | 10.105 | 33.15289 | 6.96 | 1.011088 | 0.139644 | 0.046724 | 0 |
| 9/21/2021 | 18:00:00 | 10.107 | 33.15945 | 7.03 | 1.01765 | 0.144525 | 0.046857 | 0 |
| 9/21/2021 | 19:00:00 | 10.109 | 33.16601 | 7.08 | 1.024212 | 0.149544 | 0.046952 | 0 |
| 9/21/2021 | 20:00:00 | 10.109 | 33.16601 | 7.05 | 1.024212 | 0.149544 | 0.046895 | 0 |
| 9/21/2021 | 21:00:00 | 10.114 | 33.18242 | 7.11 | 1.040616 | 0.162712 | 0.047009 | 0 |
| 9/21/2021 | 22:00:00 | 10.117 | 33.19226 | 7.15 | 1.050458 | 0.171055 | 0.047085 | 0 |
| 9/21/2021 | 23:00:00 | 10.118 | 33.19554 | 7.16 | 1.053739 | 0.173911 | 0.047104 | 0 |
| 9/22/2021 | 0:00:00 | 10.118 | 33.19554 | 7.21 | 1.053739 | 0.173911 | 0.047199 | 0 |
| 9/22/2021 | 1:00:00 | 10.116 | 33.18898 | 7.21 | 1.047177 | 0.168236 | 0.047199 | 0 |
| 9/22/2021 | 2:00:00 | 10.117 | 33.19226 | 7.24 | 1.050458 | 0.171055 | 0.047256 | 0 |
| 9/22/2021 | 3:00:00 | 10.118 | 33.19554 | 7.29 | 1.053739 | 0.173911 | 0.047351 | 0 |
| 9/22/2021 | 4:00:00 | 10.115 | 33.1857 | 7.3 | 1.043897 | 0.165456 | 0.04737 | 0 |
| 9/22/2021 | 5:00:00 | 10.115 | 33.1857 | 7.34 | 1.043897 | 0.165456 | 0.047446 | 0 |
| 9/22/2021 | 6:00:00 | 10.117 | 33.19226 | 7.35 | 1.050458 | 0.171055 | 0.047465 | 0 |
| 9/22/2021 | 7:00:00 | 10.121 | 33.20538 | 7.4 | 1.063582 | 0.182715 | 0.04756 | 0 |
| 9/22/2021 | 8:00:00 | 10.126 | 33.22179 | 7.41 | 1.079986 | 0.198189 | 0.047579 | 0 |
| 9/22/2021 | 9:00:00 | 10.132 | 33.24147 | 7.45 | 1.099671 | 0.218145 | 0.047655 | 0 |
| 9/22/2021 | 10:00:00 | 10.136 | 33.25459 | 7.44 | 1.112794 | 0.232332 | 0.047636 | 0 |
| 9/22/2021 | 11:00:00 | 10.142 | 33.27428 | 7.45 | 1.132479 | 0.25501 | 0.047655 | 0 |
| 9/22/2021 | 12:00:00 | 10.139 | 33.26444 | 7.47 | 1.122637 | 0.243457 | 0.047693 | 0 |
| 9/22/2021 | 13:00:00 | 10.134 | 33.24803 | 7.42 | 1.106233 | 0.225148 | 0.047598 | 0 |
| 9/22/2021 | 14:00:00 | 10.127 | 33.22507 | 7.37 | 1.083267 | 0.201408 | 0.047503 | 0 |
| 9/22/2021 | 15:00:00 | 10.118 | 33.19554 | 7.37 | 1.053739 | 0.173911 | 0.047503 | 0 |

VITA*

Summer Anderson Barrett is from Wichita, Kansas. A 1997 graduate of South High School, Wichita, Kansas, she worked as an office manager for an insurance company for 10 years, before taking time off to raise her 4 children. She received a Bachelor of Science degree with a major in Geology from Texas Christian University, Fort Worth, in 2019.

In August 2019, she enrolled in graduate study at Texas Christian University, where her research focused on metals analysis and hydrology at the Tar Creek Superfund Site in northeast Oklahoma. She is currently a candidate for a Masters in Science in Environmental Science.

She is married to Lance Barrett of Wichita, KS. They have four children.

ABSTRACT

LONG-TERM CONSEQUENCES OF SHORT-TERM THINKING: A STUDY ON THE EFFECTIVENESS OF EPA REMEDIATION ON ELM CREEK IN PICHER, OKLAHOMA

by Summer A Barrett

Department of Environmental Sciences

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The objective of this study was to determine the effectiveness of an EPA remediation project during the removal of contaminated mining talus and to establish the source of the contamination. Two locations were chosen to represent contamination entering and exiting the one-mile stretch of Elm Creek, Picher, Oklahoma. The two locations were monitored for water depth, velocity, turbidity, metals content and other water quality parameters.

The hydrologic study of this site showed increases in water depth, velocity, turbidity, and other water quality parameters at the exiting location and ultimately indicated that the contamination source was the mining talus within the study site. The surface water and sediment samples saw decreases in contamination at the exiting location from the start to the conclusion of this study. Which indicated that as the remediation continues the reductions in contamination should continue as well.