

# Construction in Photos

Solids Handling & Blower Buildings 2017

## Water Resource Recovery Department

Village of Ashville

Ashville's Water Resource Recovery Facility

Part A - Job No: 60440011

Presentation Available on Line at:

[www.ashvilleohio.gov](http://www.ashvilleohio.gov)



## Ashville's WRRF Project



### Vision Statement

Remembering our rural heritage, Ashville will be a vibrant and friendly community, offering an enhanced quality of life achieved through planning, progress and collaboration.

It will be a welcoming place where people want to live and businesses prosper.

# Ashville's WRRF Project



## Construction Aerial Photo

From November 2016, April, May & November 2017



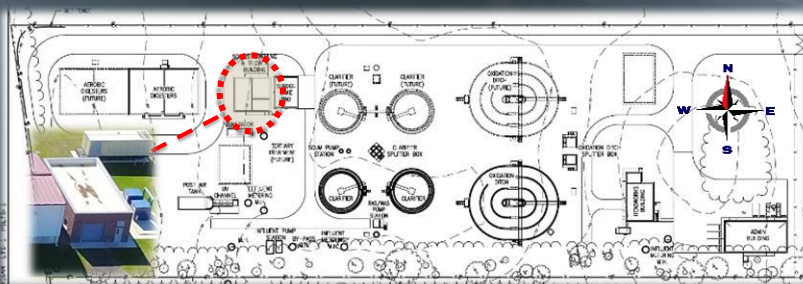
# Ashville's WRRF Project



## Construction in Photos

The Solid Handling Building houses a rotary press that provides a dewatering process, completed by sludge and polymer feed systems. Sludge is fed into a rectangular channel, and rotated between two parallel revolving stainless steel chrome plated screens. The filtrate passes through the screens as the flocculated sludge advances within the channel. The sludge continues to dewater as it travels around the channel, eventually forming a cake near the outlet side of the press. The frictional force of the slow moving screens, coupled with the controlled outlet restriction, results in the extrusion of a very dry cake. This process allows: continuous operation, totally enclosed, low power usage, low noise level, high cake dryness, easy start-stop procedures, low wash water requirements, polymer feed systems, shaftless screw conveyors, sludge blenders.

The blowers provide air for the Aerobic Digesters.

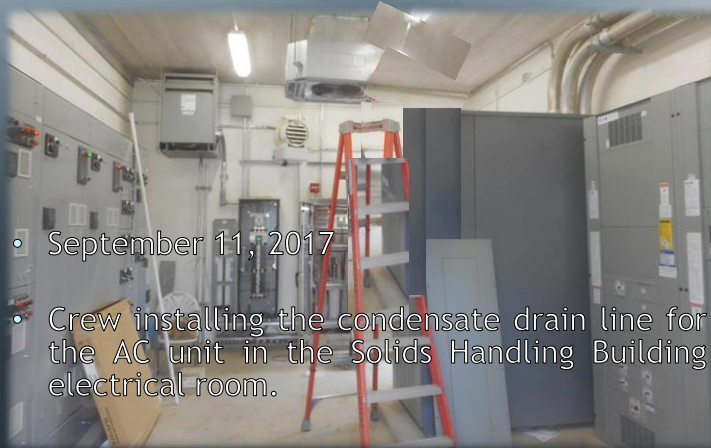


Solids Handling & Blower Building

## Ashville's WRRF Project



### Construction in Photos

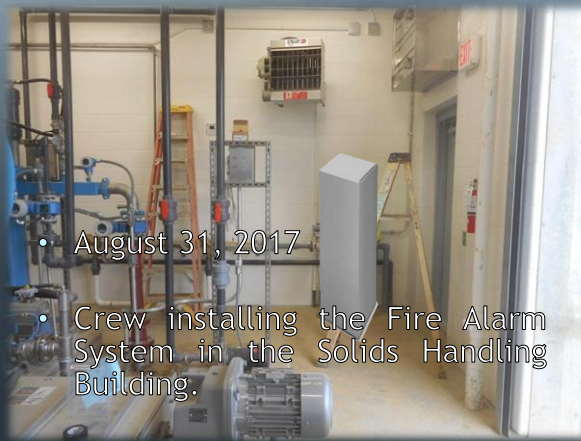


- September 11, 2017
- Crew installing the condensate drain line for the AC unit in the Solids Handling Building electrical room.

## Ashville's WRRF Project



### Construction in Photos



- August 31, 2017
- Crew installing the Fire Alarm System in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 25, 2017
- Crew working on the HVAC system of the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



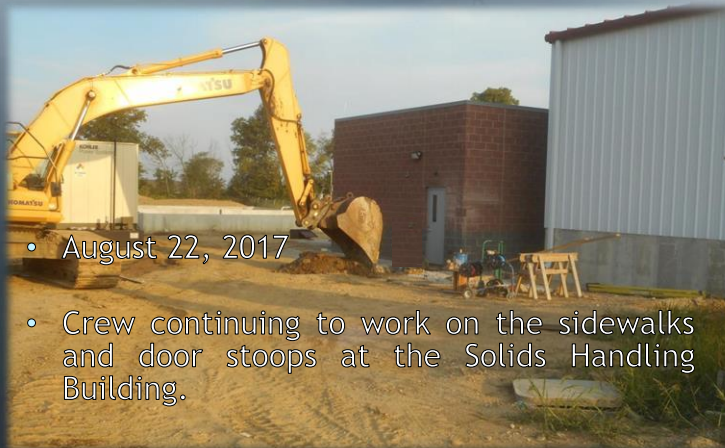
- August 23, 2017
- Crew pouring the concrete door stoops and sidewalks at the Solids Handling Building.



## Ashville's WRRF Project



### Construction in Photos



- August 22, 2017
- Crew continuing to work on the sidewalks and door stoops at the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 15, 2017
- Crew installing the glass in the doors of the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 15, 2017
- Crew working on the startup of the Polymer Feed System in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 15, 2017
- Crew working on the startup of the Rotary Sludge Press in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 14, 2017
- Crew terminating wires in the Rotary Sludge Press control panel in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 14, 2017
- Crew pouring concrete for the Bollards at the Solids Handling Building overhead door.



## Ashville's WRRF Project



### Construction in Photos



- August 10, 2017
- Crew wiring MCC-1 and the SCADA panel as Emerson works on programming the PLC for the SCADA panel in the electrical room of the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- July 21, 2017
- Crew installing the 2" potable cold waterline from the Solids Handling Building to the main 6" waterline.



## Ashville's WRRF Project



### Construction in Photos



- July 20, 2017
- Crew getting ready to connect the 2" Non-potable waterline from the Headworks Building to the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos

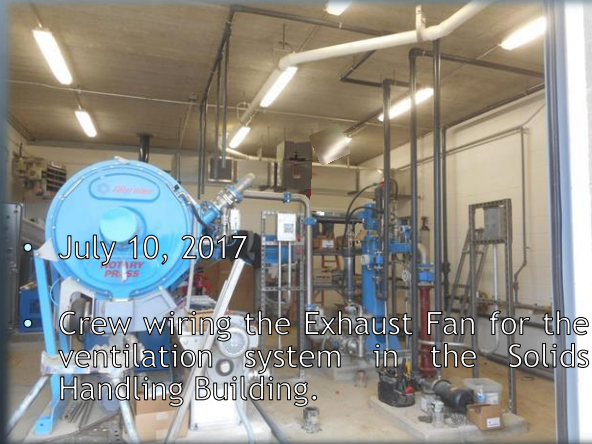


- July 10, 2017
- Crew starting to install the 2" non-potable waterline from the Solids Handling Building for the various yard hydrants on site.

## Ashville's WRRF Project



### Construction in Photos

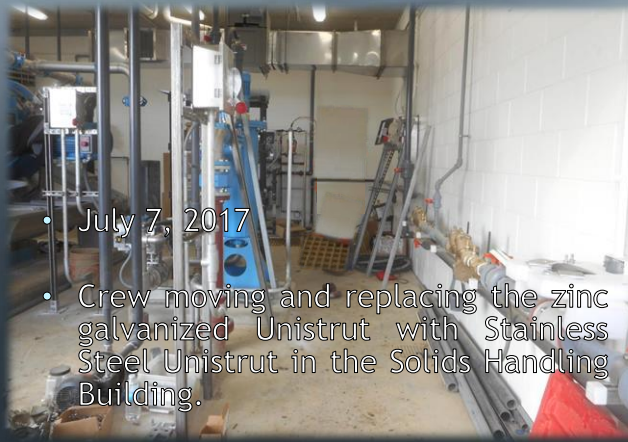


- July 10, 2017
- Crew wiring the Exhaust Fan for the ventilation system in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- July 7, 2017
- Crew moving and replacing the zinc galvanized Unistrut with Stainless Steel Unistrut in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- June 23, 2017
- Crew installing the interior and exterior face plates in the wall opening for the Screw Conveyor in the Sludge Storage Building.

## Ashville's WRRF Project



### Construction in Photos



- June 21, 2017
- Crew making final wire terminations in the MCC in the electrical room of the Solids Handling Building.



## Ashville's WRRF Project



### Construction in Photos

- June 19, 2017
- Crew getting ready to pull a run of signal wire from the Solids Handling Building electrical room to the RAS/WAS pump station and vaults.

## Ashville's WRRF Project



### Construction in Photos

- June 13, 2017
- Crew installing caulking in the exterior control joints on the block veneer of the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- June 12, 2017
- Crew pouring 17 yards of 4500 psi w/air concrete for the blower foundation at the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- June 9, 2017
- Crew reinforcing and installing rebar for the Blower Foundation at the Solids Handling Building.



## Ashville's WRRF Project



### Construction in Photos



- June 8, 2017
- Crew installed the concrete forms for the blower foundation at the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- June 6, 2017
- Crew installing the rebar for the footers of the Blower Foundation at the Solids Handling Building.



## Ashville's WRRF Project



### Construction in Photos

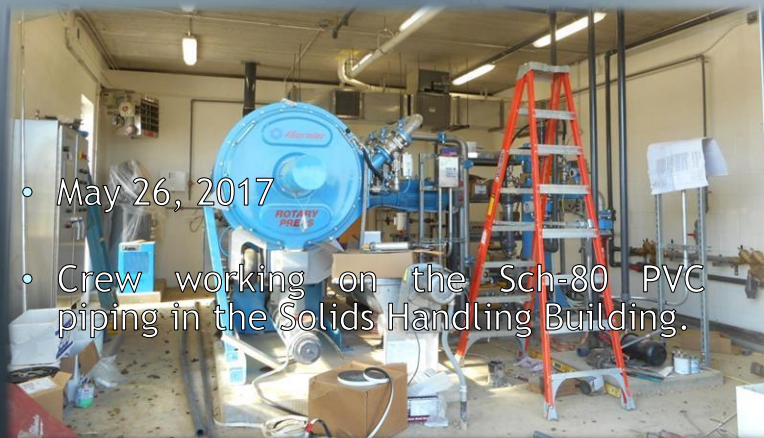


- June 5, 2017
- Crew excavating for the footers of the blower foundation at the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- May 26, 2017
- Crew working on the Sch-80 PVC piping in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos

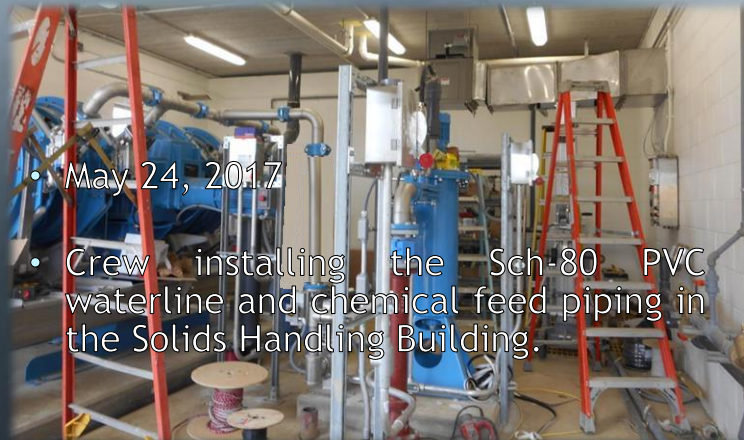


- May 25, 2017
- Crew and HVAC crew's installing Sch-80 PVC piping and HVAC Duct work in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- May 24, 2017
- Crew installing the Sch-80 PVC waterline and chemical feed piping in the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos

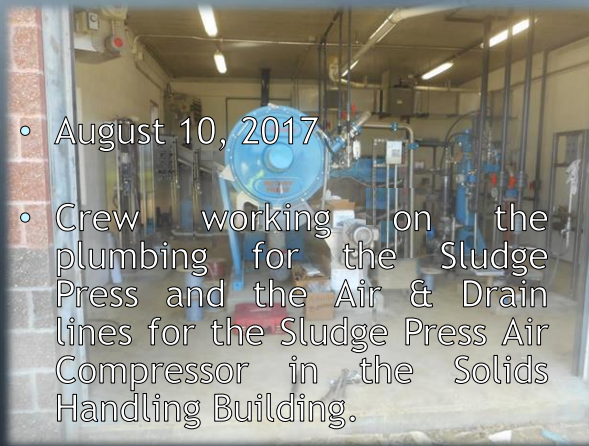


- April 28, 2017
- Mason crew power washing the split-face block of the Solids Handling Building.

## Ashville's WRRF Project



### Construction in Photos



- August 10, 2017
- Crew working on the plumbing for the Sludge Press and the Air & Drain lines for the Sludge Press Air Compressor in the Solids Handling Building.

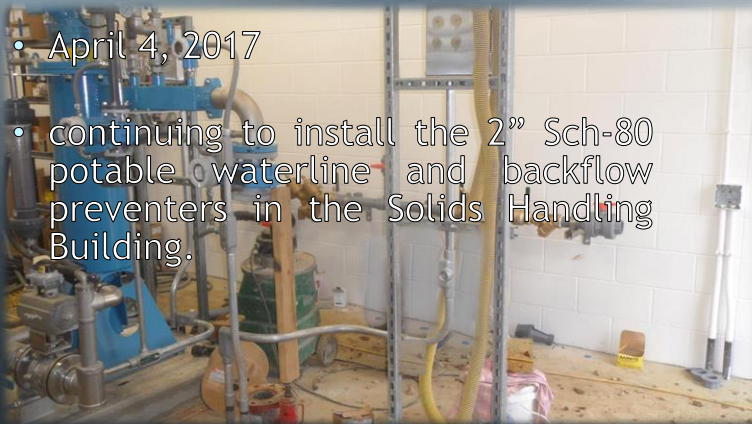


## Ashville's WRRF Project



### Construction in Photos

- April 4, 2017
- continuing to install the 2" Sch-80 potable waterline and backflow preventers in the Solids Handling Building.



## Ashville's WRRF Project



### Construction in Photos

- April 3, 2017
- Installing the 2" Sch-80 potable waterline and backflow preventers in the solids Handling Building.



# Ashville's Water Resource Recover Facility Project Planning Timeline 2015 - 2017



3½ Year or 42 Months

## WRRF Plan Implementation

- a. 9 months submit detailed design plan (s) and a complete and approvable Permit to Install (PTI) application for the new WWTP, an application for an NPDES permit, and an anti-degradation addendum
  - Correct any deficiencies within 30 days of notification by letter from Ohio EPA
- b. 16 months commence construction of the new WWTP in accordance with the approved PTI
  - Within 7 days of commencing construction notify the CDO
- c. 40 months of the effective date of these Orders, Respondent shall complete construction of the new WWTP in accordance with the approved PTI;
  - Within 7 days of completing construction notify the CDO
- b. 60 days of completion of construction of the new WWTP, the WWTP shall attain operational level and shall meet the final effluent limitations in Respondent's NPDES permit;
  - Within 7 days of attain operational level and meet final effluent limitations notify the CDO

Timeline Begins June 16, 2014

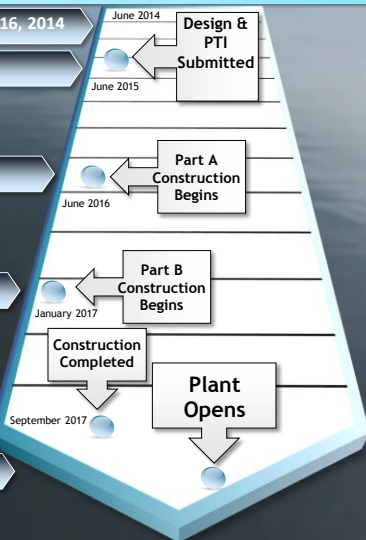
March 4, 2015

March 21, 2016

January 2, 2017

September 16, 2017

November 15, 2017



THANK YOU  
AECOM, FIELDS, AND PETERSON

ASHVILLE  
Vision Statement