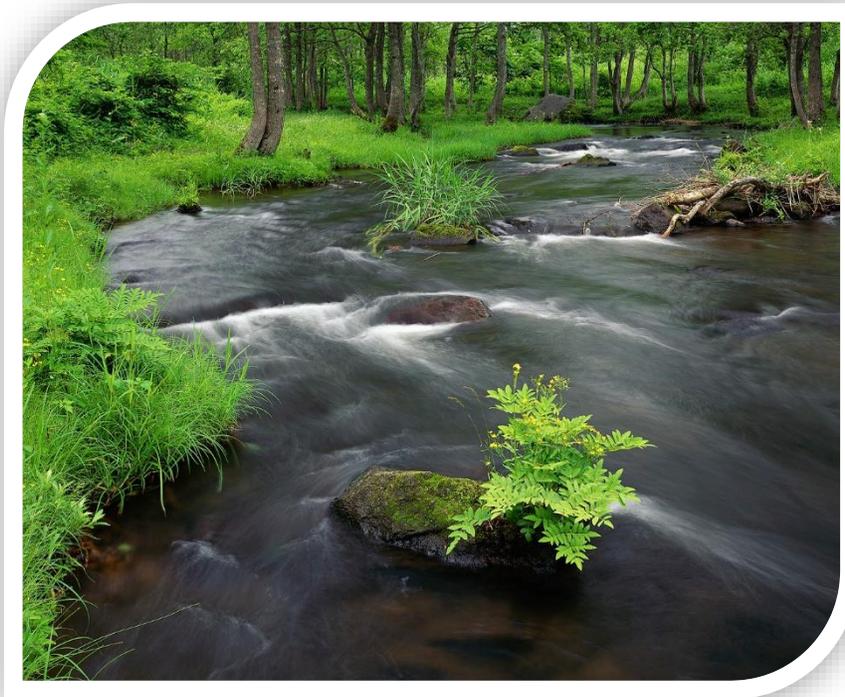


# Ongoing Infiltration/Inflow Reduction Plan 2014 Procedure Manual



Village of Ashville Council Utility Committee  
200 East Station Street, Ashville, Ohio

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# VILLAGE OF ASHVILLE

## Village Mayor

Charles K. Wise

## Village Council Members

### President Pro-Tempore:

Brian Garvine

### Council Members:

Glenn Cook  
Todd Henson

Nelson Embrey  
Jim Mathers

Brian M. Garvine  
Tracie N. Sorvillo

### Utility Committee Members:

Glenn Cook, Chair

Brian M. Garvine

Tracie N. Sorvillo

### Village Administrator:

W. Franklin Christman

### Water Resources Recovery Department Operator:

Thomas Bouts (Contracted)

### Water Resources Recovery Department Staff:

Gary Buskirk  
Thomas Conrad  
Shawn Demint  
Adam Kehoe  
James Welsh

### Engineering Support:

URS represented by Jeffrey R. Kerr, P.E. (Contracted)

The mission of the Village of Ashville Water Resource Recovery Department is to develop a comprehensive planning framework, focusing on wastewater that guide the efficient growth of the Village of Ashville area.

General Phone  
Council Web site

740-983-6367  
[www.ashvilleohio.gov](http://www.ashvilleohio.gov)

Revised 7/15/14

Publication # 07-16-2014

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## Village of Ashville

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- E: Program Cap
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- I&I Mitigation Work Documentation Form

## 1. Contact List

Please direct questions and other requests for information to the following:

### Engineering Services

#### *General I & I Information, Flow Data Determinations, and Flow Events*

	E-Mail	Phone
<b>Jeffrey R. Kerr, P.E.</b> URS, Engineering Services		

Senior Project Manager URS Corporation 277 West Nationwide Boulevard Columbus, Ohio 43215
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<a href="mailto:www.jeff.kerr@urs.com">www.jeff.kerr@urs.com</a>	(614) 464-4500
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### Village of Ashville Utility Staff

#### *Water Resource Recover Department Information*

	E-Mail	Phone
<b>Thomas Bouts</b> Operator	<a href="mailto:tlbouts@aol.com">tlbouts@aol.com</a>	(740) 983-7131
<b>Franklin Christman</b> Village Administrator	<a href="mailto:fchristman@ashvilleohio.gov">fchristman@ashvilleohio.gov</a>	(651) 602-1624

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### Village of Ashville Finance

#### *Financial Information*

	E-Mail	Phone
<b>April Grube</b> Fiscal Officer	<a href="mailto:agrube@ashvilleohio.gov">agrube@ashvilleohio.gov</a>	(740) 983-7131
<b>Franklin Christman</b> Village Administrator	<a href="mailto:fchristman@ashvilleohio.gov">fchristman@ashvilleohio.gov</a>	(651) 602-1624

## 2. Background and Authority

The Village of Ashville Council has granted the Utility Committee the authority to address utility issues. This I&I plan will focus on the impact excess infiltration/inflow (I&I) on the sanitary sewer system by developing an I&I reduction plan. The I&I Utility Committee has and will continue to provide financing for I&I source removal. The objective to mitigate excess I&I rather than just increasing system capacity.

The I&I plan focuses on source removal. This approach was affirmed by the Council's actions involving OhioEPA's Director's Final "Findings and Orders" signed June 16, 2014. The plan will include periodic review of goals for the ongoing I&I. The Utility Committee's recommendations will be incorporated into Village Council policy. This procedures manual reflects that plan and policy.

I&I plan procedures are adopted by the Village Council pursuant to the OhioEPA Director's Final "Findings and Orders" (F&O) and are declared to be necessary for the efficient, economic, and safe operation of the sanitary sewer system and for protection of the health, safety, and general welfare of the public in the Village of Ashville. The Village of Ashville's I&I policies are:

**The Council will not provide additional capacity within its system to serve excessive inflow and infiltration.**

**The Council will establish inflow and infiltration goals for discharging wastewater to the WRRF System based on the designed peak-hour capacity serving the different areas of Ashville. Areas within the Metershed that have excessive inflow and infiltration will be required to eliminate the excessive inflow and infiltration within a reasonable time period and based upon F&O.**

The Council reserves the right to modify the Ongoing I&I Reduction Program in response to new regulations or changes in existing regulations imposed on the Council by regulatory agencies.

[\[Part Nine, Title Three, Chapter 921, 929, and 940; Part Thirteen 13, Chapter 1311, 1329, & 1341\]](#)

### **Ashville Vision Statement**

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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.

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### 3. Plan Roles and Responsibilities

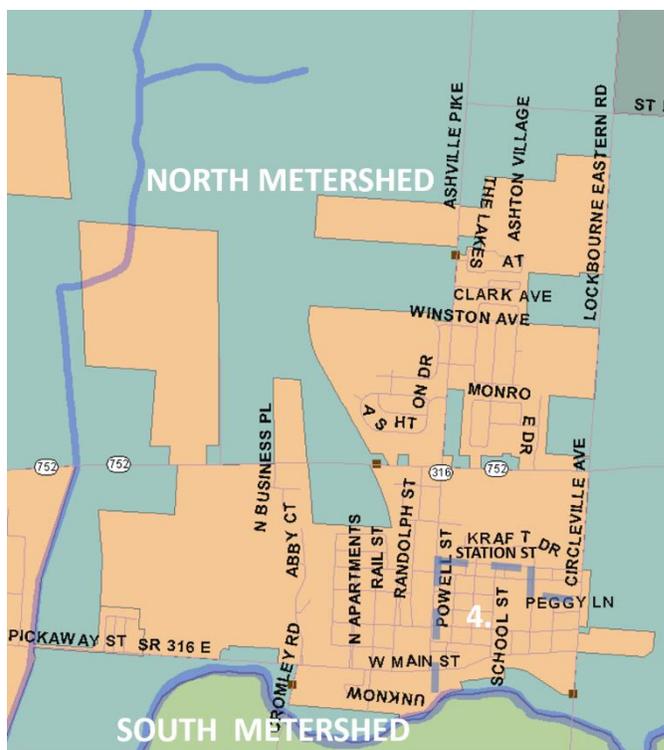
#### Village of Ashville Utility Committee will:

1. Establish metershed I&I goals and meter flows during all weather conditions. When wet weather events occur, Village of Ashville will provide quarterly reports showing:
  - a. Meter response when the peak flow is within 90% of the metershed's I&I goal (once established).
  - b. Meter response when excess I&I has occurred.
  - c. If requested, meter response when peak flows were not deemed excessive.
2. Work to identify and eliminate excess I&I in Village of Ashville.
3. Provide technical assistance by maintaining its I&I Tool Box (at [www.ashvilleohio.gov](http://www.ashvilleohio.gov)) that explains the Council's I&I program, provides general information on a case-by-case basis, and provides information about how to eliminate excess I&I.
4. Upon request, meet to explain the plan or to review the I&I work plan and implementation schedule.
5. Ensure positive and timely communications.
6. Implement, manage, and assess the plan.
7. The plan will be evaluated based upon an "I&I Dashboard. This Dashboard will provide information on the Metershed and how it is doing in relationship to established (PHF)

#### WRRD will:

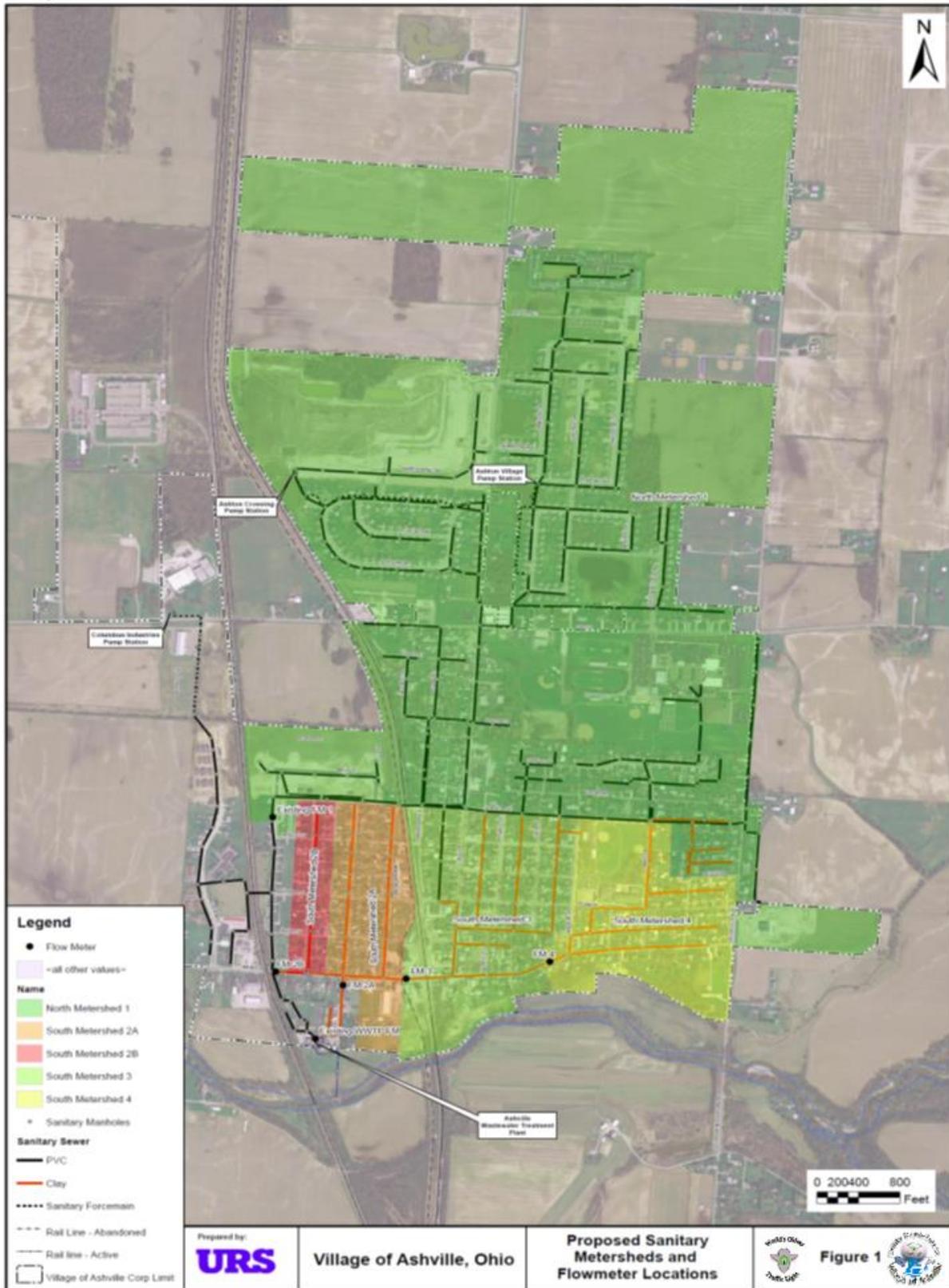
1. Continue maintenance programs for local sanitary systems.
2. Create I&I mitigation plans for its system.
3. Work with Village of Ashville to identify any Village of Ashville system problems contributing to I&I peak flows within their geographic area.
4. Manage local I&I reduction programs to meet the community's I&I goals.

**NOTE:** I&I mitigation plan is required as part of a comprehensive sewer plan regardless of whether a section of the village has previously experienced an I&I exceedance.



**Figure One**

Village of Ashville Metershed Areas



**Figure Two**

Village of Ashville Metershed Areas, Aerial View

## 4. Procedures

Plan procedures are summarized in Table 4-1. See the listed appendices for additional information. Key dates and time periods for the 2014 – 2019 Planning Years are shown in Table 4-2.

**Table 4-1 Procedures**

Item	Procedures	Additional Information
I&I Goals	<ul style="list-style-type: none"> <li>• Distributed to WRRD by Village Council Utility Committee</li> <li>• Determined on metershed basis</li> <li>• Expressed as allowable peak hour flow (PHF)</li> <li>• Allowable PHF = (5-year rolling average daily flow for metershed + adjustment for growth + allowance for water conservation and I&amp;I mitigation) x (Village of Ashville standard peaking factor)</li> </ul>	Appendix B
Excessive I&I Determination, Notification, and Estimate of Mitigation Cost	<ul style="list-style-type: none"> <li>• Excessive I&amp;I: the measured maximum peak flow, in mgd, above a metershed's I&amp;I goal adjusted, where appropriate</li> <li>• Village of Ashville provides a monthly "Dashboard" that will report the progress toward an I&amp;I goal or how far from goal.</li> <li>• At end of monitoring period, Village of Ashville estimates exceeding I&amp;I mitigation cost (to be determined)</li> </ul>	Appendix C
Response to Maximum Excessive I&I Notification	<ul style="list-style-type: none"> <li>• Option               <ul style="list-style-type: none"> <li>○ Perform I&amp;I mitigation work (subject to eligibility) to value of estimated mitigation cost</li> </ul> </li> </ul>	Appendix D

Item	Procedures	Additional Information
	<ul style="list-style-type: none"> <li>• I&amp;I mitigation work: <ul style="list-style-type: none"> <li>○ “Chooses Mitigation Work” on <i>2014 I&amp;I Plan Response Form</i> (see Appendix D), completes remainder of form, and submits it</li> <li>○ Village of Ashville’s Utility Committee reviews and responds to proposed work eligibility (see eligibility requirements in Appendix D)</li> <li>○ WRRD has up to 4 years to complete work; a look-back period may apply (see Appendix D)</li> <li>○ Annually in 3-year implementation period (or until the estimated I&amp;I mitigation cost value is reached), submits <i>I&amp;I Mitigation Work Verification Form</i> (see Appendix D) showing actual costs for I&amp;I mitigation activities</li> </ul> </li> <li>• If, during 4-year I&amp;I mitigation period, another exceedance greater than the initial exceedance occurs: <ul style="list-style-type: none"> <li>○ Village of Ashville’s Utility Committee estimates new mitigation cost based on the incremental exceedance</li> <li>○ Utility Committee will submit to Village Council Finance Committee for budget inclusion or adjustment</li> <li>○ New, incremental mitigation cost is added to the previous estimated cost</li> </ul> </li> <li>• At end of 4-year period, program “resets”: exceeding I&amp;I goal results in new excessive I&amp;I notification, estimate of maximum exceedance mitigation cost, and response</li> </ul>	
Program Cap	<ul style="list-style-type: none"> <li>• Previously capped: <ul style="list-style-type: none"> <li>○ Continue to implement their previously estimated I&amp;I mitigation work as needed in the 2014 Ongoing Plan year</li> <li>○ If capped with unfinished mitigation work exceeds its I&amp;I goal in 2014 monitoring period and exceedance is above previous maximum event then new exceedance will be incremental</li> <li>○ New mitigation cost will be calculated on the incremental peak;</li> </ul> </li> </ul>	Appendix E

Item	Procedures	Additional Information
	<p>Ongoing Plan requirements will apply to incremental peak</p> <ul style="list-style-type: none"> <li>• Ongoing Plan: <ul style="list-style-type: none"> <li>○ If annualized estimated I&amp;I mitigation cost exceeds 25% of annual municipal wastewater charge then the Utility Committee may request of WRRD a plan cap</li> <li>○ WRRD annualized mitigation cost capped at 25% increase in annual wastewater charges; cap does not change the total mitigation cost, but rather defers some cost to later years</li> </ul> </li> </ul>	
Appeal	<ul style="list-style-type: none"> <li>• Appeal process recognizes unusual or unique conditions on a case-by-case basis</li> <li>• WRRD may appeal: <ul style="list-style-type: none"> <li>○ Standard allowance for water conservation and I&amp;I mitigation</li> <li>○ Peak flow associated with an exceedance</li> <li>○ Estimated I&amp;I mitigation work</li> <li>○ Eligibility of proposed I&amp;I mitigation activities</li> <li>○ Mitigation time period in cases where significant I&amp;I source investigations have not successfully located I&amp;I sources</li> </ul> </li> <li>• During appeal process, Village of Ashville’s Utility Committee will treat disputed item based on claim; upon completion of appeal, the Utility Committee will reconcile disputed item to reflect appeal decision. May involve Village Council, if needed</li> </ul>	Appendix F

**Table 4-2 Ongoing I&I Program Year – Key Dates and Time Periods**

Item	Dates
Village of Ashville develops I&I reduction goals	September 16, 2014
Village of Ashville flow monitoring	June 16, 2014 – July 16, 2019>>>
Village of Ashville’s Utility Committee sends notification of exceedance WRRD	Month following exceedance
Village of Ashville’s Utility Committee sends notification of maximum peak event and estimated I&I mitigation cost for 2014 plan year and beyond	December 16, 2014
I&I mitigation work implementation period	September 16, 2014 – July 16, 2019
Look back period for I&I reduction work	See Table D-3
WRRD sends <i>I&amp;I Plan Response Form</i> (and any supporting documentation)	By December 30, 2014
Village of Ashville’s Utility Committee sends response to WRRD <i>I&amp;I Plan Response Form</i>	By March 30, 2015
WRRD sends <i>I&amp;I Reduction Work Verification Form</i> (and any supporting documentation) Most of the above can be incorporated into the “Dashboard”	<p>By June 30, 2015 and by June 30 of each successive year in the 5-year implementation period until the mitigation cost value plan goal is reached</p> <p>Every quarter after September 16, 2014 a report will be sent to Central District Office (CDO) by the 15<sup>th</sup> day of each month.</p> <p>October 15            January 15            April 15            July 15</p>

## Appendix A: Abbreviations, Definitions, and References

### ABBREVIATIONS & DEFINITIONS

**CCTV:** Closed circuit television – a technique used to inspect the inside of pipes

**CPI:** Consumer Price Index as published by the U.S. Department of Labor (see web site: <ftp://ftp.bls.gov/pub/special.requests/cpi/cpi.ai.txt>).

**Dashboard:** Dashboard reports allow managers to get high-level overview of the business and help them make quick decisions. Dashboards are often called as management dashboards or information dashboards or dashboard reports.

**Exceedance peak hour flow (PHF):** A meter's peak hour flow that exceeds the metershed's I&I goal.

**Excess I&I:** I&I that results in wet weather flows that exceed WRRD' established I&I goal for the metershed, adjusted.

**Excessive I&I Event:** A wet weather time period when excessive I&I occurs within the WRRF.

**gpm:** Gallons per minute

**I&I:** Inflow and infiltration is that component of sanitary sewage flow that originates from clear water connections, e.g., sump pumps and foundation drains, stormwater entering manholes and groundwater entering through pipe joints and cracks. It is water that would normally not require any type of treatment. However, once it is co-mingles with sanitary wastewater it cannot be separated, and must be treated along with the sanitary wastewater.

**I&I Goal:** The I&I goal is the product of the previous ten-year average daily flow and the standard peaking factor adopted by the Metropolitan Council.

**IITC:** The Inflow/Infiltration Total Cost associated with an exceedance event.

**I&I Tool Box:** A Village of Ashville guide book of tools and resources for planning and implementing inflow and infiltration reduction programs. (See the Council website: <http://www.ashvilleohio.gov>)

**Infiltration:** The seepage of groundwater into sewer pipes through cracks or joints in the pipes.

**Inflow:** Inflow is typically flow from a single point, such as discharge from sump pumps and foundation drains, or storm water entering openings in the sewer access covers.

**mgd:** Million gallons per day

**Max Excessive I&I Peak Flow Event:** An event in which the rate of flow measured for a metershed exceeds the metershed's I&I goal and also is greater than previous exceedances measured during the program year.

**Metershed:** The area tributary to a Village of Ashville flow meter. Some Zone section may have multiple metersheds.

**MWC:** Municipal Wastewater Charge

**Standard peaking factor:** A factor which is multiplied by the average daily flow for a metershed to determine the maximum allowable I&I.

**WRRF:** Water Resource Recovery Facility; wastewater facility owned and operated by the Village of Ashville Council.

## **REFERENCES**

*I&I Toolbox*

<http://www.ashvilleohio.gov>

*Preliminary Inflow/Infiltration Surcharge Program*

*Water Resources Management Policy Plan*

<http://www.ashvilleohio.gov>

## Appendix B: I&I Goals

- Goals determined on a metershed basis
- Expressed as an allowable PHF
- Allowable PHF = (10-year rolling average daily flow for metershed + adjustment for growth + allowance for water conservation and I&I mitigation) x (Village of Ashville standard peaking factor)
- 5-year rolling average daily flow calculation:
  - The I&I Plan will use a metershed's 5-year rolling ADF to determine the base flow for I&I goals. The Plan will use a 5-year rolling ADF to normalize the effects of precipitation (drought and wet periods). Where flow data will not be available for the time period or other anomalies existed adjustments will be made on a case-by-case basis.
- Adjustment for growth: wastewater related to 50% of metershed's growth over 5-year was added to the 5-year ADF to account for growth during the period
- Allowance for water conservation and I&I mitigation: standard allowance of 10% of the 5-year ADF was added to the 5-year ADF to account for water conservation and I&I mitigation
- Village of Ashville is developing a standard peaking factor (s) as define as an allowable, non-excessive level of I&I and that will be shown in a future Table B-1.

### **Table B-1 Village of Ashville Standard Peaking Factors**

## Appendix C: Excessive I&I Determination, Notification, and Estimate of I&I Mitigation Cost

### I&I into Village of Ashville sewer system

- Where applicable, measured PHF is adjusted by subtracting an estimate of I&I into the Village of Ashville metershed
- Estimated I&I mitigation cost calculated on the related I&I

**Table C-1 Example Calculation of I&I into Village of Ashville**

Metershed, in.dia-mi	Exceedance PHF, mgd	Village of Ashville I&I, mgd
		$\left( \frac{\text{mgd}}{\text{mgd}} \right) \times \dots$

### Excessive I&I Determination & Notification

- Excessive I&I value is the maximum peak flow for an hour even though the unit is expressed as mgd
- Village of Ashville will generate reports that identify areas that exceed or reaches 90% of I&I goal
- Report includes: date of the exceedance and flow chart showing the peak flow in relationship to the I&I reduction goal for the metershed.
- WRRD should review the flow data and determine if the peak event represents a new maximum exceedance flow for the WRRD. If it's a new maximum peak, WRRDty can either accept the exceedance event as described, understanding it will be used to determine a new estimate of I&I mitigation cost, or it can appeal the exceedance flow.

### Estimated I&I Mitigation Cost of Maximum Exceedance in Monitoring Period

- Estimated I&I mitigation unit cost for 2014: \$\_\_\_\_/mgd of exceedance.
- Village of Ashville updates the unit cost annually, adjusting for inflation as measured by Consumer Price Index
- Using Table C-1 example and assuming exceedance is maximum for monitoring period, WRRD's estimated I&I mitigation cost is:

$$(\text{__ mgd}) \times (\text{\$__}/\text{mgd}) = \text{\$__,__,__}$$

**Table D-1 I&I Reduction Work**

Type of Work	Eligible Amount
<p><b>1. I&amp;I Study</b></p> <ul style="list-style-type: none"> <li>a. Temporary flow monitoring</li> <li>b. Field investigation for inflow sources</li> <li>c. CCTV inspection</li> <li>d. System modeling</li> <li>e. System analysis and work prioritization</li> <li>f. Cost estimating of reduction program</li> </ul>	<p>Yes; Full</p>
<p><b>2. Public Facility Improvements</b></p> <ul style="list-style-type: none"> <li>a. Eliminate Storm sewer cross connections</li> <li>b. Eliminate yard drains and drain tile connections</li> <li>c. Replace maintenance hole (MH) covers that have drain holes with sealed covers</li> <li>d. Install watertight MH covers in areas vulnerable to high water levels</li> <li>e. Provide chimney seals and MH sealing</li> <li>f. Raise MH in areas where surface water ponds</li> <li>g. Move MHs out of wetlands; realign sewer</li> <li>h. Place drain tile behind curbs to provide a discharge point dedicated for building sumps, foundation drains, and rain leaders</li> </ul>	<p>Yes; Full</p>
<p><b>3. Public Facility Improvements</b></p> <ul style="list-style-type: none"> <li>a. Pipe lining</li> <li>b. Line replacement</li> <li>c. Installation of new storm sewers that convey redirected flow from building sumps, foundation drains, and rain leaders in addition to other surface water</li> <li>d. Drainage improvements that eliminate indirect inflow sources</li> </ul>	<p>Yes; Full</p>
<p><b>4. Non-Municipal Improvements</b></p> <ul style="list-style-type: none"> <li>a. Inspection costs for looking for sump pumps, drain tile, yard drains and rain leaders connected to the sanitary sewer</li> <li>b. TV inspection of service laterals</li> <li>c. Disconnect sump pumps, drain tile, area drains, and rain leaders from the sanitary sewer system</li> <li>d. Repair or replace broken service laterals</li> </ul>	<p>Yes; Full at reasonable, actual costs or standard costs per note 2, below.</p>
<p><b>5. Public Staff Costs</b></p>	<p>Yes; Full</p>
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>1. Allowed if the work is identified in the WRRD's annual I&amp;I reduction plan and data support the expenditures by clearly indicating a peak rainfall response (examples of data include CCTV inspection reports or temporary flow monitoring (ideally during storm events))</li> <li>2. Standard costs: \$150 per dwelling for sump pump disconnections; \$3,000 per building for foundation drain disconnections; \$100 per single family dwelling for rain leader disconnections; \$3,000 per commercial dwelling for rain leader disconnections; \$5,000 per repair for service lateral repairs)</li> </ul>	

## Appendix E: Program Cap

- Previously capped WRRD:
  - Continue to implement their previously estimated I&I mitigation work as needed in the 2014 Ongoing Plan year.
  - If capped with unfinished mitigation work exceeds its I&I goal in 2014 monitoring period and exceedance is above previous maximum event then new exceedance will be incremental
  - New mitigation cost will be calculated on the incremental peak; Ongoing Plan requirements will apply to incremental peak
  - WRRD may request extension of incremental peak's mitigation period via an Ongoing Plan Cap (see below)
  - Upon completion of previous phase cap and any incremental I&I mitigation work, program resets: I&I mitigation work on next exceedance, if any, determined on full amount of exceedance
  
- Ongoing Program:
  - If WRRD's annualized estimated I&I mitigation cost exceeds 25% of its annual adjusted municipal wastewater charge then WRRD may request a program cap
  - Adjusted: MWC adjusted to reflect any amount of annual transfer shifted to MWC as permitted by legislation
  - Annualized mitigation cost capped at 25% increase in annual wastewater charges; cap does not change the total mitigation cost, but may defer some cost to later years
  - See Table E-1 for example

### Table E-1 Ongoing Program Cap Examples

Conditions: Full exceedance in 2014, incremental exceedance in 2016; cap = 25%

Measurement Period (period is mid-year to mid-year)	Exceedance Event	Total I&I Reduction Work Required, \$	Bill Year	Estimate of Annual I&I Reduction Work Required, \$	Annual Municipal Wastewater Charge with Annual 3% Inflation*, \$	Annual I&I Reduction Work Required, as Limited by Cap, \$	Impact of Cap, \$	Cumulative Deferral, \$
2014-2015	x		2016					
2015-2016			2017					
2016-2017	x		2018					
2017-2018			2019					
2018-2019			2020					
2019-2020			2021					
2020-2021			2022					
2021-2022			2023					
2022-2023			2024					
2023-2024			2025					
2024-2025			2026					
2025-2026			2027					
<b>Total</b>								

\* Municipal Wastewater Charge will be reduced to exclude any shift which increases MWC in that billing year.

## Appendix F: Appeal Processes

Item to be Appealed	Timeframe & Method for Community Appeal	Timeframe for VILLAGE OF ASHVILLE	Other Appeal Requirements
Allowance for water conservation and previous I&I	Written letter 60 days from receipt of I&I goal notification	Written letter 60 days from receipt of WRRD's appeal	Documentation signed by licensed PE detailing technical basis for appeal
Peak flow from an exceedance event	Written letter 60 days from receipt of exceedance notification letter	Written letter 60 days from receipt of WRRD's appeal	WRRD's appeal letter must document: (1) Excessive I&I being out of control, or (2) Excessive I&I being caused by extenuating circumstances
Estimated I&I mitigation cost	Written letter 60 days from receipt of I&I mitigation cost letter	Written letter by November 15 of each year	WRRD's appeal letter must justify appeal based on: (1) I&I reduction activities are underway in excess of the amount required (2) The value of the I&I reduction activities is more than necessary (3) The value of the I&I reduction activities exceeds 25% of the municipal wastewater charge
Eligibility of proposed I&I reduction activities	Written letter 60 days from receipt of eligibility determination letter	Written letter 60 days from receipt of WRRD's appeal	WRRD's appeal letter must contain detailed supporting information such as CCTV inspection reports or temporary flow monitoring (ideally during storm events)
Extension or deferral of the I&I mitigation period for a defined period of time	Written letter 60 days from receipt of I&I mitigation cost letter	Written letter by November 15, of each year	In its appeal letter, community must submit a report by a licensed PE documenting: <ul style="list-style-type: none"> <li>• What steps were taken to locate I&amp;I source</li> <li>• Inability to locate I&amp;I source</li> <li>• Proposed extension or deferral time period and rationale for time period</li> <li>• What steps will be taken to locate source</li> </ul>



# 2014 I&I Plan Year WRRD Response Form



This form is to be completed by the WRRD that received an exceedance notification for Plan year 2014. The WRRD completes Parts A and B. Send completed form and any supporting documentation to:

**Mail:** Village Administrator, Franklin Christman  
200 Station Street, East  
Ashville, Ohio 43103

**Fax:** Attn: Village Administrator, Franklin Christman  
Utility  
(740) 983-4703

**Email:** [fchristman@ashvilleohio.gov](mailto:fchristman@ashvilleohio.gov)

## Part A: I&I Mitigation Work

**Name & Mailing Address:**

**Part B: 2014 I&I Mitigation Work Value: \$ \_\_\_\_\_**

**a) Public Facility Work:** Attach detailed description of the 2014 I&I reduction work. Include work completed in 2013 look back period. Itemize type of work to be completed in 2013 and 2014 on public sanitary sewer system and estimated or actual costs. Village of Ashville may request additional documentation to verify actual or planned expenditures. Include the percent of each project that is related to I&I mitigation.

### Summary of Costs (attach additional pages as needed)

**b) Private Property Work:** Attach detailed description of WRRD inspection program for broken service laterals and illegal connections of sump pumps or passive drain tile(s). Complete number & value of work as indicated.

_____ Sump pump disconnections:	\$150 per dwelling	=	\$
_____ Foundation drains disconnected:	\$3,000 per building	=	\$
_____ Rain leader disconnections	\$100 per single family dwelling	=	\$
_____ Rain leader disconnections:	\$3,000 per commercial dwelling	=	\$
_____ Service lateral repairs:	\$5,000 per repair	=	\$

Describe Other Work:

Total proposed for 2014: \$

Village of Ashville WRRD Official/Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_ Phone #: \_\_\_\_\_



# I&I Mitigation Work Documentation Form



This form is to be completed by the WRRD that are eligible work performed to meet the estimated mitigation cost requirement for a maximum exceedance in the 2014 Plan year. When the value of the eligible work completed equals the estimated mitigation cost amount, the required mitigation cost will be expended. Send completed form (s) to:

**Mail:** Village Administrator, Franklin Christman **Fax:** Attn: Village Administrator, Franklin Christman  
 200 Station Street, East Utility  
 Ashville, Ohio 43103 (740) 983-4703

**Email:** [fchristman@ashvilleohio.gov](mailto:fchristman@ashvilleohio.gov)

## Water Resource Recovery Department

**2014 Program Year Total I&I Mitigation Work Expense: \$**

- a) **Public Facility Work:** Attach detailed description of the 2014 I&I reduction work. Include work completed in 2013 look back period. Itemize type of work to be completed in 2013 and 2014 on public sanitary sewer system and estimated or actual costs. Village of Ashville may request additional documentation to verify actual or planned expenditures. Include the percent of each project that is related to I&I mitigation.

**Summary of Costs (attach additional pages as needed)**

- b) **Private Property Work:** Attach detailed description of WRRD inspection program for broken service laterals and illegal connections of sump pumps or passive drain tile(s). Complete number & value of work as indicated.

_____ Sump pump disconnections:	\$150 per dwelling	=	\$
_____ Foundation drains disconnected:	\$3,000 per building	=	\$
_____ Rain leader disconnections	\$100 per single family dwelling	=	\$
_____ Rain leader disconnections:	\$3,000 per commercial dwelling	=	\$
_____ Service lateral repairs:	\$5,000 per repair	=	\$

Describe Other Work:

Total proposed for 2014: \$

Village of Ashville WRRD Official/Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_ Phone #: \_\_\_\_\_