



NORTH FRONT RANGE WATER QUALITY PLANNING ASSOCIATION
 257 Johnstown Center Dr.; Unit 206
 Johnstown, CO 80534
 970-587-8872 - <http://www.nfrwqpa.org>

**208 Areawide Water Quality Management Plan Amendment
 Wastewater Utility Service Area Modification
 (60-Day Public Notice Required)**

To meet the plan amendments minimum requirements, all items are required and must be included to be accepted for review and considered for approval. Submitted references to other materials is not acceptable, i.e., refer to... or see...

A. Project and System Information			
Applicant / Entity			
Representative Name / Title			
Project Title			
Address			
Email			
Phone			
County			
B. Project Design Company Information			
Design Company Name			
Design Engineer		CO License Number	
Address			
Email			
Phone		Date of Application:	
C. Current Wastewater Utility Service Area (WUSA) Agency / System Information, Appendix A.			
WUSA Boundary currently recognized and approved:		Current WUSA Calculated loading:	
WUSA map: https://nfrwqpa.colorado.gov/agency-service-area-maps		Maximum Month Average WUSA Hydraulic loading in million gallons per day (MGD)	MGD
WUSA Description		Peak Hour WUSA Hydraulic loading in million gallons per day (MGD)	MGD
County		WUSA Organic loading (lbs. BOD ₅ /day)	lbs. BOD ₅ /day
<p>The current WUSA or proposed WUSA must demonstrate that the Management or Operating agency has the ability to provide sewage service to all types of water rights within the WUSA boundary. This may be demonstrated by a map illustrating water providers and differing water rights by crosshatched boundaries overlaid on a WUSA Map.</p>			
D. WUSA Boundary Modification Information; WUSAs are greater than or equal to 35 acres, or WUSA amendments are greater than or equal to 10 acres, Appendix B-C.			
<p>Include a map illustrating the new WUSA area or vicinity within the currently approved WUSA, identifying the receiving WWTF, stream segment, and discharge location, Appendix B.</p> <p>Sources of information:</p> <ol style="list-style-type: none"> NFRWQPA Agency Wastewater Utility Service Area Maps; https://nfrwqpa.colorado.gov/agency-service-area-maps NFRWQPA GIS Database; https://data-nfrwqpa.hub.arcgis.com/ 			
<p>For support of the WUSA and WWTF loading projections, also provide the WUSA land use and zoning maps, including the area of the WUSA modification, Appendix C.</p> <p>Sources of information:</p> <ol style="list-style-type: none"> USGS' National Land Cover Dataset (NLCD, http://www.mrlc.gov/) USDA's National Agricultural Statistics Service (NASS, http://www.nass.usda.gov/) Colorado State University WRAP tool (https://erams.com/catena/tools/colorado-collaborative/watershed-assessment/) under the "Land Surface" data category for any area of interest across the country <p>County and city land and zoning maps.</p>			

Proposed WUSA Boundary Change or update:		Proposed WUSA agency/system capacity change:	
Proposed WUSA description map, describe or illustrate the change proposed:		Maximum Month Average WUSA Change Hydraulic Capacity in million gallons per day (MGD)	MGD
Legal Description (e.g., Section, Township, Range)		Peak Hour WUSA Change Hydraulic Capacity in million gallons per day (MGD)	MGD
County		Organic WUSA Change in Capacity (lbs. BOD ₅ /day)	lbs. BOD ₅ /day

E. WUSA Modification Population, Loading, and Capacity Information

Current WWTF Design Capacity:		WWTF Capacity with WUSA modification:	
Maximum Month Average WWTF Hydraulic Capacity in million gallons per day (MGD)	MGD	Maximum Month Average WWTF Change Hydraulic Capacity in million gallons per day (MGD)	MGD
Peak Hour WWTF Hydraulic Capacity in million gallons per day (MGD)	MGD	Peak Hour WWTF Hydraulic Capacity in million gallons per day (MGD)	MGD
WWTF Organic Capacity (lbs. BOD ₅ /day)	lbs. BOD ₅ /day	WWTF Organic Capacity (lbs. BOD ₅ /day)	lbs. BOD ₅ /day

Current and anticipated WWTF Flow loads (mgd):		Current and anticipated WWTF Organic loads (lbs. BOD₅/day):	
Design Capacity (mgd)		Organic Design Capacity	
Current Flow Load		Current Organic Load	
5 Year Flow Load		5 Year Organic Load	
10 Year Flow Load		10 Year Organic Load	
15 Year Flow Load		15 Year Organic Load	
20 Year Flow Load		20 Year Organic Load	
Year at 80% Design Capacity		Year at 80% Design Capacity	
Year at 95% Design Capacity		Year at 95% Design Capacity	

WUSA Population Information

Current WUSA Population and SFE Projections:			WUSA Modification Population and SFE Projections:		
	Population	Single Family Equivalents (SFEs)		Population	Single Family Equivalents (SFEs)
Existing:			Current SFEs:		
5 Years:			5 Years:		
10 Years:			10 Years:		
15 Years:			15 Years:		
20 Years:			20 Years:		
Population Source:			SFEs Factor(s):		

F. WUSA modification purpose.

The applicant shall briefly explain the reason for the WUSA modification.

G. Performance of Existing WWTF regarding the water quality-based limits of the CDPS, PELs, or NOA, Appendix D-E.

Regarding the performance of the receiving WWTF and the permitted water quality planning targets as developed in coordination with the Division, will the WWTF have any difficulties or special treatment requirements for meeting the CDPS, PELs, or NOA water quality planning targets (Appendix D)? The applicant must provide an overview of the receiving WWTF describing the treatment process, including a flow schematic, Appendix E.

H. CDPS Permit, Primary Effluent Limits (PELs), or Notice of Authorization (NOA) requirements and constraints, Appendix D.

CDPS permit or PELs description and information:

a) CDPS #:	Expiration Date:	
b) PELs #:	Expiration Date:	
c) CDPS Status:	Active: <input type="checkbox"/>	Administratively Extended: <input type="checkbox"/>

NOA #:

Other CDPS or PELs info:

d) Will the capacity increase or decrease create any difficulties in meeting the water quality limits of the CDPS, PELs, or NOA: Explain:

I. 305(b) Stream Segment WID & EPA Classifications and Assessments

The Stream Segment and EPA Classifications may be obtained with Divisions Section 305(b) Integrated Water Quality Monitoring and Assessment Report here:

<https://cdphe.colorado.gov/rulemaking-boards-and-commissions/water-quality-control-commission/water-quality-control-commission>

Stream Segment WID:				
Stream Segment Description:				
Stream Segment IR Category:			Segment Aquatic Life Tier:	
Segment Recreational Tier:			Acres/Miles:	
EPA Classified Use	Assessment	Analyte	Category / List	Priority
Aquatic Life Use				
Recreation				
Agriculture				
Water Supply				
Wetlands				

J. 303(d) Stream Segment WID & EPA Classifications and Assessments

The Stream Segment TMDLs may be obtained within Divisions Regulation #93 and the 303(d) list of impaired waters here:

<https://cdphe.colorado.gov/impaired-waters>

Stream Segment WID:			
Stream Segment Description:			
Affected Classified Use	Analyte	Category / List	Priority

K. Discharge Downstream Distances; NFRWQPA GIS Database; <https://data-nfrwqpa.hub.arcgis.com/>

a) Downstream distance from the discharge point to the nearest domestic water supply intake? Name of supply? Address of supply? Please include a 1-mile radius map of domestic water supplies, Appendix F. <i>Distance:</i> <i>Name of Supply:</i> <i>Address of Supply:</i>
b) Downstream Distance from the discharge point to the next nearest permitted discharge? Name of the user? Address of the user? Please include a 5-mile radius map of permitted discharges, Appendix G. <i>Distance:</i> <i>Name of User:</i> <i>Address of User:</i>
c) Will the additional discharge of the WUSA boundary amendment affect other dischargers on the stream segment? Name of the user? Address of the user? No: <input type="checkbox"/> Yes: <input type="checkbox"/>

Distance:
Name of User:
Address of User:
If yes, explain:

I. Opportunities of Consolidation analysis, Appendix H.

Refer to Regulation No. 22 -Site Location & Design Guidance and WQCD Design Manual DR-1. Per Regulation No. 22, the Division is required to “encourage the consolidation of wastewater treatment works whenever feasible” with consideration for such issues as:

1. Water Conservation
2. Water Rights Utilization
3. Stream Flow
4. Water Quality
5. Economics
6. Wastewater Service Area
7. Distance
8. Threaten or Endangered Species
9. Local Plans

Economically, does it make sense to perform a costly plant expansion to upgrade a plant due to urbanization or route the service area flows to a plant with adequate capacity? Consolidation may also be based on differing stream segment assimilative capacities between agencies. For example, does it make sense to consolidate WWTFs based on which stream segment has the greatest assimilative capacity for anticipated growth? Confirm regional consolidation decisions, including the reasons for or against, with letters signed by the involved agencies' decision-making authorities. IGAs, letters, or meeting minutes should identify legally responsible personnel with decision-making authority (i.e., mayor, president/chair of the council/board, town or city council/board, public works director, owner, corporate officer, other authorized officials, etc.) with the business, organization, or municipality.

M. WUSA Collection System needs.

The applicant must provide the collection system requirements, sizing, pipe type, and staging, including any lift stations, needed to be constructed to serve the additional WUSA area.

N. Inflow and Infiltration (I&I) analysis of Collection System.

Please identify the current and proposed WUSA Inflow & Infiltration. I&I estimates should be included within the design flow of the proposed WWTF, and unsupported I&I should be at least 10% of the design flow of the WWTF.

Is the Inflow & Infiltration considered excessive? Illustrating what portion of the daily flow basis per capita per day (gpcd) is I&I and what part is attributed to calculated or anticipated wastewater flows.

NOTE: The EPA guideline for potentially excessive I&I on an average daily flow basis is 120 gallons per capita per day (gpcd) (EPA, May 1985). If the average wet weather flow exceeds 275 gpcd, the inflow is considered to be excessive (EPA, May 1985). The above I&I EPA numbers cited above historically have been used for grants and loans and are outdated. [CW-14 Implementation Policy Regulation No. 22 - Site Location and Design Regulations for Domestic Wastewater Treatment Works \(5 CCR 1002-22\)](#) denotes unsupported I&I estimates should be a minimum of 10 percent of the average daily flow. <https://cdphe.stg.colorado.gov/water-quality/regulations-policies-and-guidance/facility-design-approval-policies>

O. Capital Improvements Schedule

Capital improvements implementation plan and schedule, including the estimated construction time and the estimated date upon which the collection system or WWTF will need to accommodate the WUSA modification flows and loads.

P. Management Capabilities - Intergovernmental Agreement(s) (IGAs), Appendix I.

Management capabilities for controlling the wastewater loadings within the current and proposed modified WUSA, i.e., user contracts, operating agreements, pretreatment requirements, and/or the management capabilities to expand receiving facilities as needed (subject to the appropriate, future review and decision procedures) to accommodate the expanding WUSA. Include intergovernmental agency agreement(s) with agencies agreeing to provide collection or treatment, and capacity sharing agreements if applicable. Including contracts to pay for acceptable waste treatment. IGAs may be simple legal agreements that document agencies contractual obligations to provide collection or treatment. These IGAs ensure long term 208 planning collaboration between agencies concerning WUSA boundaries and consolidation of WWTFs (5-mile radius).

Q. Responsible Parties.

What agency or entity is financially responsible for maintaining the collection system of the WUSA?

What agency or entity has the financial responsibility of owning and long-term operating expense of the WUSA collection system?

R. 208 Areawide Water Quality Management Plan Considerations.

For WUSA amendment projects in the region, indicate how this project aligns with the Association's current 208 Areawide Water Quality Management Plan to ensure present and future wastewater needs are met economically and with a focus on protecting, maintaining, or restoring water quality.

S. Agency Point Source Inventory Data, Appendix J.

Include a updated Agency's current Point Source Inventory Data summary from the NFRWQPA website, <https://nfrwqpa.colorado.gov/agency-point-source-data-inventory>.

See Next Page.

T. Responsible Party Certification.			
System Name			
Project Title			
County			
Receiving Treatment Entity Information – Certification of Available Treatment Capacity			
Receiving Treatment Entity		Receiving Treatment Plant	
CDPS Permit No.		Permit Capacity	
Site Location Approval No. (Appendix K)		Site Location Approved Capacity	
Proposed treatment works capacity impacts on receiving treatment plant			
Proposed maximum month average hydraulic capacity:	MGD		
Proposed peak hour hydraulic capacity:	MGD		
Proposed maximum month average organic loading capacity:	lbs BOD ₅ /day		
Proposed treatment works will increase the receiving treatment plant's hydraulic loading to:	(% of total plant capacity)		
Proposed treatment works will increase the receiving treatment plant's organic loading to:	(% of total plant capacity)		
Receiving wastewater treatment capacity information in accordance with existing site approval and discharge permit			
I certify that the receiving treatment plant is not presently receiving wastes in excess of the design capacity as defined in the above listed site location approval and discharge permit and has the capacity to treat the projected flows and loads from the proposed wastewater utility service area (initial in box).			
OR			
I certify that the receiving treatment plant does not currently have the capacity to serve the proposed wastewater utility service area flows and loads but is under construction, or will be in a phased construction of new or expanded facilities, and will have the necessary capacity to treat the projected flows and loads from the proposed wastewater utility service area (initial in box).			
Estimated date capacity will be available:			
I certify that the receiving treatment entity information presented above is correct and that the treatment plant is currently capable (or will be capable) of treating the wastewater produced by the wastewater utility service area.			
Receiving Treatment Entity Representative			
Position/Title:	Typed Name:	Signature:	Date:
Email:		Phone:	

Referral Agencies Signatures Page

NOTE: NFRWQPA will route and acquire the required signatures, not the applicant.

1. Signature of Designated Management/Operation Agency (Applicant), if different from other entities listed below				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
2. Signature of County Planning Department				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
3. Adjacent Signature of City or Town, could be multiple adjacent boundaries of WUSA Amendment being proposed needed for approval				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
4. Adjacent Signature of City or Town, could be multiple adjacent boundaries of WUSA Amendment being proposed needed for approval				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
5. Adjacent Signature of City or Town, could be multiple adjacent boundaries of WUSA Amendment being proposed needed for approval				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
6. Adjacent Signature of City or Town, could be multiple adjacent boundaries of WUSA Amendment being proposed needed for approval				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
7. Signature of Local Health Authority				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
8. Signature of Other Basin Water Quality Authority, Watershed Association, Watershed Authority, etc., if the facility is located in a Water Quality Control Commission Watershed Protection Control Area.				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>
9. Signature of North Front Range Water Quality Planning Association				
NOTE: NFRWQPA signature is obtained, including the Association's recommendation, after the public hearing decision of the 208 plan amendment.				
Role	Date	Typed Name / Agency	Signature	
			Recommend Approval?	Yes <input type="checkbox"/> No <input type="checkbox"/>

Review Agency Comments:

Appendix A
Current WUSA Map recognized and approved by NFRWQPA

Appendix B
Proposed WUSA Amendment/Modification Map

Appendix C
Map Identifying Stream Segment WID, WWTF, and discharge location

Appendix D

CDPS Permit, Primary Effluent Limits (PELs), or Notice of Authorization (NOA) requirements and constraints

Appendix E
Receiving WWTF overview and Flow schematic

Appendix F
1-mile Radius Map Identifying Drinking Water wells or water sources

Appendix G
5-mile Radius Map Identifying other permitted discharges

Appendix H
Opportunities of Consolidation Analysis Statements or IGAs

Appendix I
Intergovernmental Agreements (IGAs)

Appendix J
Agency Point Source Inventory Data

Appendix K
Wastewater Treatment Facility Site Application Approval