



4.201 APPLICATON SUBMISSION REQUIREMENTS

Guidelines and regulations for areas and activities of state interest

In addition to the materials listed at Section 2.303, applications for a permit to locate or construct a major new domestic water or sewage treatment system and/or major extension thereof shall be accompanied by the following information, in the number required by the Director:

(1) Preliminary review and comment on the proposal by the appropriate agency of the Colorado Department of Natural Resources and the Colorado Department of Public Health and Environment within sixty (60) days of the date of submittal of the proposal for review.

A Basis of Design Report was submitted to the CDPHE for the chlorine boosting system proposed at the booster station and is included in Appendix X. All applicable rules and regulations as noted in the CDPHE's initial review of the proposed project will be complied with. No new water sources or water treatment is proposed as part of this project.

- (2) Scope of Proposal
 - (a) Provide detailed plans of the proposal, including proposed system capacity and service area plans mapped at a scale acceptable to the Department.

The proposed NDS project that is the subject of this 1041 application does not include wastewater or water treatment facilities, collections or distribution systems. The proposed NDS project will convey treated water from the Springs Utilities Highway 83 Storage Tank through a pump station and transmission main at which point it will be delivered to Triview Metropolitan District's existing 1.1 MG C-Plant Tank located in the Sanctuary Pointe Development. From this delivery point, the water will be delivered to Forest Lakes Metropolitan District and other potential future partner's via Triview Metropolitan District's distribution system. Internal distribution system improvements will be required and include approximately 2,850 ft of 12" diameter pipeline and in the future, a proposed 1.5 MG storage tank that will be located adjacent to the District's existing B-Plant tank. Details of the proposed distribution system improvements, including the future tank are not included in this 1041 submittal since the tank will be located on land within the Town of Monument boundaries. The proposed booster pump station and approximately 4.4 miles of the 16" diameter pipeline are located within the jurisdictional boundaries of El Paso County (EPC).

The Northern Delivery pipeline and booster pump station are sized to accommodate a design flowrate of 4 MGD which matches the projected maximum day flowrate for the major water suppliers that can be served by the NDS system as outlined in the table below. In addition to Triview Metropolitan District and Forest Lakes Metropolitan District, demands are considered for Donala Water and Sanitation District and the Town of Monument. Service to Woodmoor Water and Sanitation District is not considered since a portion of their service





area lies outside of Division 2 and the Pueblo County 1041 permits for the City of Colorado Spring's Southern Delivery System does not allow for water delivery outside of Division 2.

Design Flowrates for Major Water Supplies in Northern El Paso County

	Triview	Forest Lakes	Donala	Monument	Total
Max Day Use (GPM)	1,719	153	376	521	2,769

The water districts map included in Appendix G3 shows the service area of Triview Metropolitan District, Forest Lakes Metropolitan District and potential partners and includes the line between Water Division 1 and 2...

(b) Provide a description of all existing or approved proposed domestic water or sewage treatment systems within the Project area.

Water conveyed by the pipeline and booster station will be potable water that will be treated by Colorado Springs Utilities prior to delivery to the Northern Delivery System. The proposed NDS project that is the subject of this 1041 application does not include water or wastewater treatment facilities.

There are no domestic water or sewage treatment systems within the easements or public right of ways that the NDS booster pump station and pipeline will be constructed. The Triview Metropolitan Water District and the Forest Lakes Metropolitan District and other potential participants in the NDS project own and operate multiple water treatment plants that provide water to their existing service areas. Wastewater from Triview Metropolitan Water District, Forest Lakes Metropolitan District is currently treated at the Upper Monument Creek Wastewater Treatment Plant.

The surface water sources that the NDS system provides Triview Metropolitan District and Forest Lakes Metropolitan District access to can be used to extinction in accordance with their existing or anticipated decrees under Colorado Water law. These water rights vary seasonally and interannually and the fully consumable return flow resulting from the Districts' municipal water uses accrue to the Fountain Creek watershed on a continuous basis. With the addition of the NDS, Triview and Forest Lakes can utilize the Colorado Springs Utility's water system and their proposed booster pump station and pipeline to move this accrued water back into their distribution system for reuse. Any water reused would be conveyed, treated and delivered to the Springs Utilities' Highway 83 Tank where it would be conveyed by the proposed NDS pipeline and pump station to Trivew's existing existing 1.1 MG C-Plant Tank located in the Sanctuary Pointe Development. From this delivery point, the water will be delivered to Forest Lakes Metropolitan District and other future partner's via Triview Metropolitan District's distribution system.

(c) Describe the design capacity of each domestic water or sewage treatment system facility proposed and the distribution or collection network proposed in the Project area.





The proposed NDS project that is the subject of this 1041 application does not include water or wastewater treatment facilities.

(d) Describe the excess capacity of each treatment system and distribution or collection network in the affected community or Project area.

The proposed NDS project that is the subject of this 1041 application does not include treatment systems, distribution, or collection networks. The Springs Utilities' Highway 83 Tank holds potable water that will be conveyed by the NDS pipeline and pump station. All water that will be conveyed by the proposed booster station and pipeline is fully treated by Colorado Springs Utilities system before arriving at the existing Highway 83 Tank.

(e) Provide an inventory of total commitments already made for current water or sewage services.

No additional water or sewage service commitments are proposed as part of this project. The proposed tank and associated water transmission line will provide service for customers within the Triview Metropolitan and Forest Lakes District's existing service area and the service area of other potential partners.

Triview currently provides water and wastewater services for approximately 2,100 residential taps and 80 commercial taps. Forest Lakes Metropolitan District currently provides water and wastewater services for approximately 320 residential taps and 3 commercial taps.

(f) Describe the operational efficiency of each existing system in the Project area, including the age, state of repair and level of treatment.

There are no domestic water or sewage treatment systems within the easements or public right of ways that the NDS booster pump station and pipeline will be constructed.

Triview Metropolitan District has two groundwater treatment plants. B-Plant was originally constructed in 2001 with improvements made in and 2008. A-Plant was originally constructed in 1998. Triview has the ability to treat and produce approximately 3,300 acrefeet of water per year.

Forest Lakes Metropolitan District has both a groundwater and surface water treatment plant (SWTP). The groundwater treatment plant was constructed in 2007 and the SWTP was constructed in 2018. Forest Lakes has the ability to treat and produce approximately 1,120 acre-feet of water per year.

Triview Metropolitan District and Forest Lakes Metropolitan District each own a portion of the Upper Monument Creek Regional Wastewater Treatment Facility where all wastewater for both Districts is treated. The plant is currently rated for a hydraulic design capacity of 1.75 million gallons per day (MGD) and a 30-day average organic load capacity of 3,553 lb/day. The plant is currently operating at approximately 46% of hydraulic loading capacity and 60% organic loading capacity.

(g) Describe the existing water utilization, including the historic yield from rights and use by category such as agricultural, municipal, and industrial supply obligations to other systems.





Raw water produced by Triview Metropolitan District's Denver Basin groundwater wells for the past five years are outlined in the table below.

Table 2g: Triview Metropolitan District Historical Raw Water Produced

	2017	2018	2019	2020	2021	2022
Raw Water Produced (AF/year)	734	806	789	973	889	965

Water from these sources is treated, disinfected, stored, and delivered to residential units and commercial taps within the existing Triview Metropolitan District service area. Water rights stipulate that water can be used for the following purposes:

- Domestic
- Livestock watering
- Lawn irrigation
- Commercial
- Industrial
- Replacement supply

Currently, Triview has no obligation to supply water to other systems. Triview does, at times, sell or lease raw water and wastewater return flows for augmentation purposes but the transactions are subject to annual contracts and are not continuing obligations.

Forest Lakes currently owns 1652 AF of decreed Denver Basin ground water and 660 AF of transmountain diversion return flows waters – i.e. surface water.

Forest Lakes is obligated to supply augmentation water for the evaporation losses from ponds of 12 property owners on the Rampart Range west of Forest Lakes and along Hay Creek south of Forest Lakes. The obligation is 50 acre-feet per year.

(3) Demonstration of Need

(a) Provide population trends for the Project area, including present population, population growth and growth rates, documenting the sources used.

Triview Metropolitan District is experiencing high growth rates and anticipates that it could be substantially built out as early as 2030. The table below shows the calculated growth in Single Family Equivalents within the Triview Metropolitan District service area.

Year	Single Family Equivalents Served by Triview Metro District	Calculated Growth Rate
2015	1782	4.25%
2016	1861	8.28%
2017	2029	10.34%
2018	2263	0.18%
2019	2267	7.15%
2020	2442	7.34%
2021	2635	





As outlined in Section 2.303 (5h), the NDS system is sized to accommodate a design flowrate of 4 MGD which matches the projected maximum day flowrate for the major water suppliers that can be served by the NDS system which includes the current participants, Triview Metropolitan District and Forest Lakes Metropolitan District, and potential future participants Donala Water and Sanitation District and the Town of Monument. As outlined in Section 2.303 (18c), the NDS booster pump station and pipeline does not have a net effect on water quantity and therefore will not contribute to sprawl or strip development. The quantity of water required to adequately supply the service areas of Triview Metropolitan District, Forest Lakes Metropolitan District and other potential participants is not changed by the project but the conjunctive system does increase reliability and quality of the system, allows aquifer resting, drought reserves, and efficiency by the reuse of water supplies. Triview has decreed water rights that are sufficient to supply build out water supply.

(b) Specify the predominant types of developments to be served by the proposed new water and/or sewage systems or extensions thereof.

The land within the Triview Metropolitan Service area is included in the Town of Monument boundaries. The land within Forest Lakes that is for residential development is within unincorporated El Paso County. The commercial property within Forest Lakes is within the Town of Monument. See Appendix G5 for a zoning map of the Town of Monument. Land zoning for the Forest Lakes Metropolitan District service area is primarily PUD. See Append G4 for a map showing the zoning for Forest Lake Metropolitan District and other potential partners that lie outside of the Town of Monument.

- (c) Specify at what percentage of the design capacity the current system is now operating:
 - i. Water treatment system.
 - ii. Wastewater treatment system.

The Triview water treatment system has the ability to treat and produce approximately 3,300 acrefeet of water per year. Current demand within the system is approximately 900 acrefeet per year so the current system is operating at approximately 27.3% of the water treatment capacity.

The Forest Lakes water treatment system has the ability to treat and produce approximately 1,120 acre-feet of water per year. Current demand within the system is approximately 160 acre-feet per year so the current system is operating at approximately 14% of the water treatment capacity.

The Upper Monument Creek Regional Wastewater Treatment Facility is currently rated for a hydraulic design capacity of 1.75 million gallons per day (MGD) and a 30-day average organic load capacity of 3,553 lb/day. The plant is currently operating at approximately 46% of hydraulic loading capacity and 60% organic loading capacity.

(d) Specify whether present facilities can be upgraded to accommodate adequately the tenyear projected increase needed in treatment and/or hydraulic capacity.

Note that the proposed booster station and pipeline does not increase the service area of Triview Metropolitan District, Forest Lakes Metropolitan District or any other potential



participant and therefore does not in itself increase hydraulic capacity or require additional water treatment. The proposed booster pump station and pipeline will be sized to meet the projected max day demand of Triview Metropolitan District and Forest Lakes Metropolitan District. However, the Convey Treat and Deliver Contract set's delivery limitations. If Triview wishes to utilize the full capacity of the delivery system Triview would be responsible for paying an additional System Availability Fee to Springs Utilities.

(4) Description of the water to be used by the Project and, to the extent identified by the Director in consultation with the applicant, alternatives, including: the source, amount, the quality of such water; the applicant's right to use the water, including adjudicated decrees or determinations and any substitute water supply plans, and applications for decrees or determinations; proposed points of diversion and changes in the points of diversion; the existing uses of the water; adequate proof that adequate water resources have been or can and will be committed to and retained for the Project, and that applicant can and will supply the Project with water of adequate quality, quantity, and dependability; and approval by the respective Designated Ground Water Management District if applicable. If an augmentation or replacement plan for the Project has been decreed or determined or an application for such plan has been filed in the court or with the Ground Water Commission, the applicant must submit a copy of that plan or application.

Triview's water supply is currently derived from nonrenewable deep aquifers in the Denver Basin which are located within the Triview Metropolitan District. Triview Metropolitan District (the District) proposes to construct the Northern Delivery System (NDS) with the intent to bring renewable water from surface water sources to Northern El Paso County municipal customers.

Existing infrastructure will be utilized to convey treat, and deliver water to the north end of Colorado Springs Utilities (Springs Utilities) service area at a location known as the Springs Utilities' Highway 83 Storage Tank. The proposed booster pump station and pipeline that is located within jurisdictional boundaries of both El Paso County and the subject of this application will convey water from the Springs Utilities' Highway 83 Storage Tank through a pump station and transmission pipeline at which point it will be delivered to existing District storage for distribution to Triview's customers and other potential future project participants including Forest Lakes Metropolitan District.

This 1041 application does not request the review or permitting of any source water or raw water storage for the Northern Delivery System. Two 1041 permit applications have been submitted to Pueblo County to allow them to review these components. The first 1041 application provides the necessary components to allow the NDS system to operate and concerns a contract for use of excess capacity in Pueblo Reservoir. The approval for this 1041 is included in Appendix Y. The second 1041 application addresses the permitting of the Stonewall Springs Reservoir Complex and was submitted to Pueblo County on July 22, 2022 and is currently under review. The Letter of Request for the second application is also included in Appendix Y.

The booster pump station and pipeline are sized to convey 4 MGD of source water from Triview Metropolitan District, Forest Lakes Metropolitan District other future potential project participants. The existing source water that will be initially delivered by the proposed booster pump station and transmission pipeline to Triview's existing potable water tank include the following:





- 1,057 shares of the Fountain Mutual Irrigation Company (FMIC), representing an average annual yield of approximately 739.9 AF;
- Ownership of the Arkansas Valley Irrigation Company (AVIC) representing an average annual yield of approximately 560.0 AF; and
- Ownership of the Bale Ditch No.1 and 50% of the Bale Ditch No. 2 (Bale) representing approximately 82.0 AF.
- Approximately 40.23% share of the Excelsior Irrigation Company (Excelsior), representing an average annual yield of approximately 581.99 AF;

All of the average annual yields of historical consumptive use (CU) water from the above sources can be used and reused to extinction in accordance with their existing or anticipated decrees under Colorado water law. These water rights vary seasonally and interannually and the return flows resulting from Denver Basin groundwater use also accrue to the Fountain Creek watershed on a continuous basis.

Triview determined that additional storage was needed to manage that variability and to recapture the reusable return flows resulting from the first use of the water and water rights available to Triview. As such, Triview applied for and obtained a contract with the United States Bureau of Reclamation (Reclamation) allowing Triview to store up to 999 AF (acre-feet) in Pueblo Reservoir "if-and-when space" when available for municipal purposes within Triview's service area. Such water stored in Pueblo Reservoir pursuant to Triview's "Excess Capacity Contract", whether by direct flow or exchange, will then be delivered to Colorado Springs Utilities' Southern Delivery System (SDS) project through the North Outlet Works for ultimate delivery to Triview's municipal service infrastructure. Water storage under development outside of El Paso County also includes the Stonewall Springs Reservoir Company (SSRCo), representing approximately 19,538 AF of conditional storage capacity. Two 1041 permit applications have been submitted to Pueblo County and are currently under review. The first 1041 application concerns a contract for use of excess capacity in Pueblo Reservoir and was submitted to Pueblo County on February 10, 2022 and was approved Pueblo County's Board of County Commissioners on August 23, 2022. The second 1041 application addresses the permitting of the Stonewall Springs Reservoir Complex and was submitted to Pueblo County on July 22, 2022 and is currently under review.

Forest Lakes has both groundwater and surface water supplies in it's water portfolio. Forest Lakes District boundaries are within both the Town of Monument and El Paso County. The Town of Monument bases their annual supply on 100 years, while the County is based on 300 years. The following numbers are based on a 300 year allocation and account for existing obligations to other entities. Forest Lakes has 358.14 acre-feet/ year of Denver Basin groundwater and 503 acre-feet/year of surface supply. The surface water is based on a 1984 agreement between Springs Utilities and Forest Lakes. The agreement allows the exchange of up to 660 annual acre feet of fully consumable return flows from Springs Utilities' wastewater treatment facility to be exchanged upstream to Beaver Creek. Beaver Creek flows are then stored in Bristlecone Reservoir under this exchange.

- (5) Loss of Agricultural Productivity
 - (a) Information on any agricultural water rights in the region converted to provide water for the Project, now or in the future.





The proposed booster pump station and pipeline will not require water to be transferred, converted or taken out of beneficial use that has been previously used for agricultural purposes within the area of El Paso County jurisdiction.

- (b) Information on the amount of irrigated agricultural lands taken out of production, and a description of revegetation plans.
 - The proposed booster pump station and pipeline will not require water to be transferred, converted or taken out of beneficial use that has been previously used for agricultural purposes within the area of El Paso County jurisdiction.
- (c) Economic consequences of any loss of irrigated agriculture, including loss of tax base, in the region.
 - The proposed booster pump station and pipeline will not require water to be transferred, converted or taken out of beneficial use that has been previously used for agricultural purposes within the area of El Paso County jurisdiction.
- (d) Information as to loss of wildlife habitat, loss of topsoil, or noxious weed invasion, as a result of the transfer of water rights and subsequent dry-up of lands.
 - The proposed booster pump station and pipeline will not require water to be transferred, converted or taken out of beneficial use that has been previously used for agricultural purposes within the area of El Paso County jurisdiction. Therefore, no loss of wildlife habitat loss of topsoil or noxious weed invasion will occur as a result of the transfer of water rights and subsequent dry-up of lands.
- (e) Information on impacts to agricultural head gates and water delivery systems.

 The proposed booster pump station and pipeline will not require water to be transferred, converted or taken out of beneficial use that has been previously used for agricultural purposes within the area of El Paso County jurisdiction.
- (6) The financial impact analysis of site selection and construction of major new water and sewage treatment facilities and/or major extension of existing domestic water and sewage treatment systems shall include but need not be limited to the following items:
 - (a) A review and summary of any existing engineering and/or financial feasibility studies, assessed taxable property valuations and all other matters of financial aid and resources in determining the feasibility of the proposed new facility, including:
 - i. Service area and/or boundaries.
 - The proposed NDS booster pump station and pipeline do not increase the service area of Triview Metropolitan District, Forest Lakes Metropolitan District or any other potential participant.
 - Applicable methods of transmitting, storing, treating and delivering water and collecting, transmitting, treating and discharging sewage, including effluent and/or sludge disposal.



Existing infrastructure will be utilized to convey, treat, and deliver water to the north end of Colorado Springs Utilities' service area at a location known as the Colorado Springs Utilities' Highway 83 Storage Tank. The proposed NDS project will convey potable water from the Colorado Springs Utilities' Highway 83 Storage Tank through a pump station and transmission main at which point it will be delivered to existing District storage for distribution to customers.

iii. Estimated construction costs and period of construction of each new or extension facility component.

The preliminary cost estimate for the NDS project is included in Appendix K.

The construction will be completed throughout the year with a target operational date set for 2024.

iv. Assessed valuation of the property to be included within the service area boundaries.

The proposed NDS booster pump station and pipeline do not alter the service areas of Triview Metropolitan District, Forest Lakes Metropolitan District or any other potential participant.

v. Revenues and operating expenses of the proposed new or extension facility, including but not limited to historical and estimated property taxation, service charges and rates, assessments, connection and tap fees, standby charges and all other anticipated revenues of the proposed new facility.

Triview Utility Enterprise is funded through monthly bills sent to residents for water and wastewater services,. Triview's General Fund is funded through sales tax revenue collected from retailers located within the district. When Triview was formed in 1985, it issued debt. Debt service payments consisting of principal and Interest payments is funded by a 21.25-mill property tax assessed against all property located within the District. Triview also has the ability to assess up to 7 mills for operations and maintenance of streets, park and open space facilities. In 2023, 2.75mills was allocated to operations and capital improvements. A summary of Triview's 2022 budget is included in the table below along with water rates that Triview charges its customers. Triview Metropolitan District's 2022 Annual Budget Report is included in Appendix H.

Summary of Triview's 2022 Budget				
Revenue				
General Fund	\$ 7,379,445			
Utility Enterprise	\$ 6,529,293			
Enterprise Capital Projects	<u>\$ 5,124,100</u>			
Total Revenue	\$ 19,032,838			





Expenses		
General Fund	\$ 5,808,702	
Utility Enterprise	\$ 5,456,926	
General Fund Capital Projects	\$ 637,500	
Enterprise Capital Projects	\$ 5,204,228	
Total Expenses	\$ 17,107,356	
Ending Fund Balance General Fund 2022	\$ 4,445,480	
Ending Fund Balance Utility Enterprise Fund 2022	\$ 18,942,599	

Commercial Water Rates			
Metering and Billing	\$4.50		
	Meter Size	Cost	
Base Rate	1" and less	\$57.00	
Base Rate	1 1/2"	\$114.00	
Base Rate	2"	\$228.00	
Base Rate	3"	\$456.00	
Volume Rates	Per 1,000 Gallons		
Uniform Water Rate p	\$7.00		

Residential Water and Wastewater Rates			
Base Rate per Month (Renewa	\$28.50		
Metering and Billing Charge pe	\$4.50		
Volume Rates per 1,000 Gallons	Usage	Cost	
Block 1	0 to 8,000	\$6.20	
Block 2	8,001 to 20,000	\$9.54	
Block 3	20,001 to 30,000	\$16.90	
Block 4	30,001 to 40,000	\$22.07	
Block 5	Over 40,000	\$32.70	

Irrigation Only Rates				
Metering and Billing Char	\$4.50			
Meter Size	Cost			
Renewable Water Fee	1" and less	\$57.00		
Renewable Water Fee	1 1/2"	\$114.00		
Renewable Water Fee	2"	\$228.00		
Renewable Water Fee	3"	\$456.00		
Volume Rates	Per 1,000 Gallons			
Uniform Water Rate	\$7.00			





Forest Lakes' current operations are funded with revenues paid by its customers monthly for water, wastewater and landscaping services. The Taxing Districts – Pinon Pines Metropolitan Districts 1–3 – also levy O&M mill levies of 10 mills or more that are paid to Forest Lakes to cover administrative, legal and managements expenses incurred for the benefit of the Pinon Districts. Pinon Pines Metropolitan District #3 also levies a 2.5% Public Improvement Fee on all retail sales within that District. Those funds are also available to the Forest Lakes. A \$5000 Facilities Development Fee is paid upon lot sale and may be available to Forest Lakes if not pledged to existing bonds. Forest Lakes also levies appropriate development fees for water and sewer connections which are used to cover necessary capital outlays. Most of the existing utility infrastructure – including drainage infrastructure and roadways, roadway landscaping and parks and trails have generally been funded by advances from the Developer or constructed directly by the Developer and dedicated to Forest Lakes. Forest Lakes therefore shows very significant liabilities to the Develop on its books for these activities.

A summary of Forest Lakes water rates are noted below.

WATER SERVICE RATES:
Customer Charge – per month:
Single Family Residential \$11.98
Commercial: based on tap size
5/8 – 1.5 inches \$29.95
2 inches \$63.85
3 inches \$119.71
4 inches \$199.71
6 inches \$399.29
8 inches \$638.89
10 inches \$918.51
Commodity Charge per 1000 gal. \$5.39

vi. Amount and security of the proposed debt and method and estimated cost of debt service.

The preliminary cost estimate for the project is included in Appendix K. All capital financing of the booster station and pipeline will be accomplished through funds held in reserve by Triview Metropolitan District, and a loan provided by Colorado Springs Utilities for the regional water availability fee through a 25 year note a 3.45% interest. Details regarding this loan will be included in the Intergovernmental Agreement with Colorado Springs Utilities. An update regarding the status of this agreement is attached as Appendix R.

vii. Provide the details of any substantial contract or agreement for revenues or for services to be paid, furnished or used by or with any person, association, corporation or governmental body.

A loan provided by Colorado Springs Utilities for the regional water availability fee through a 25 year note a 3.45% interest. Details regarding this loan will be



included in the Intergovernmental Agreement with Colorado Springs Utilities. An update regarding the status of this agreement is attached as Appendix R.