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Water Consultants
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RAW WATER SYSTEM FEASIBILITY STUDY TOWN OF NORWOOD

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June 2016

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1.0 BACKGROUND AND PURPOSE

1.1 BACKGROUND

This Raw Water System Feasibility Study (Study) has been prepared to further explore the physical, technical, and economic conditions involved with designing, constructing, and operating a Raw Water System (RWS) for the Town of Norwood (Town). See Figures 1 and 2 for the project location and vicinity map.

Wright Water Engineers (WWE) prepared a report for the Norwood Water Commission (NWC) to evaluate the current water supplies available to the NWC for both current and future conditions in 2011. Within this report, it is suggested that a separate RWS could increase the water available for domestic indoor use.

In December 2014, a work session was held at the Town Community Center between the Town, NWC, residents, and local stakeholders to gauge interest in the development of a RWS. The overwhelming consensus from stakeholders was that there was ample interest in the development of a RWS and that the Town and the NWC would pursue funding the RWS through a Colorado Water Conservation Board (CWCB) grant. The grant was procured by the Town and NWC, and this Feasibility Study has been funded through that grant. Similar raw water systems have successfully been installed and are currently being operated in the similarly sized communities of Dove Creek (2003) and Nucla (1993).

Major benefits of developing a RWS for the Town, NWC, residents, and stakeholders include the following:

- The RWS will make additional water available from the Town's water portfolio thereby firming up the community's long-term water supply.
- The RWS will help conserve treated water as well as conserve energy as a result of reducing water treatment in the summer months for irrigation and provide untreated water for gardening.
- The RWS will relieve some of the added stress placed on the water treatment plant during summer months as the production during those peak times increases approximately 200,000 gallons per day or 6 million gallons per month.

- The RWS will provide an economical and sustainable option for the Town and water customers to water their lawns and landscaping, which may enhance the livability of the Town and potentially increase property values.
- The RWS will help to preserve and maintain the high desert natural environment by supporting the trees, plants, and soil structure with an adequate water supply.
- The RWS may promote future area economic growth and development.

1.2 PURPOSE

The main purpose of this Study is to evaluate further the following major technical issues related to the development of a RWS:

- Evaluate raw water availability for the RWS with respect to the NWC water supplies for the greater service area.
- Determine if the Town and NWC can take advantage of existing unused water rights to supply a new system.
- Determine current and estimate future RWS demands.
- Identify areas of service and project phasing.
- Complete a hydraulic analysis of the proposed system, including an operating storage location.
- Estimate probable construction cost of the system, including reservoir improvements.
- Develop basic parameters for the RWS program for the Town and NWC use in further developing and pursuing the project.

2.0 EVALUATION OF LEGAL AND PHYSICAL SOURCE(S) OF RAW WATER

A summary of the water rights, water shares, and contractual water held by the Town and NWC is shown in Table 1. The Town and the NWC have an ongoing cooperative relationship that provides for domestic water supply for their customers. The adequacy of that supply has been investigated by others in previous studies (Westwater, WWE). An assessment of future raw

water needs was conducted previously with the WWE report issued in 2011, but that study primarily addressed needs for the NWC service area as a whole.

This Study considers the possibility of using the Town's water rights/shares to supply only the Town and the potential of RWS development (see Figure 2). NWC rights/shares are not considered in this feasibility study since they are assumed to be committed to domestic supply for the entire NWC service area. The Town contracts water from Gurley Reservoir, but that source is not considered for this Study since it is assumed to be committed to the domestic water supply.

The previous WWE study noted possible advantages that the Town could gain from developing a RWS exclusively for municipal irrigation. The potential feasibility of utilizing the 119 shares of Farmers Water Development Company (FWDC) water to supply the RWS is a focus of this current work although other direct diversion rights are also considered. Additional information related to NWC water rights may be found in the 2011 WWE report.

2.1 DIRECT DIVERSION RIGHTS

The Town has seven direct diversion water rights from four points of diversion that could be used in a RWS for irrigation (see Table 1 and Figure 2). Although these rights total 2.5 cubic feet per second (cfs), the availability of water from these relatively junior rights could be significantly limited due to administration under Colorado's system of prior appropriation. Three general approaches have been used in various studies to consider the availability of water under these rights, as follows:

1. A broad approach that did not consider administration (1995).
2. A follow-up approach based on the 1995 work that contained some recognition of administration (2011).
3. Consideration of a range of periods of time water might be available (2015).

The 1995 study by Westwater Engineering suggested the yield of the direct diversion rights could be 142 acre-feet (AF).

The 2011 study offered the following conclusions:

- The yield of the direct diversion rights could be roughly 70 AF less (72 AF) than estimated by the 1995 study since it did not account for water rights administration.
- The priority No. 214 water right is typically not available during the irrigation season (when it would be needed by the RWS).
- The Gardner Spring/Pipeline has a highly variable yield that changes with the seasons and may be declining due to changes in irrigation practices.
- This 2011 study did not offer any conclusions about the Town Pipeline (Priorities 385 and 425).

Table 2 shows a range of amounts that could be available based on a range of periods in which the direct diversion rights might be in priority. It is likely that any water from these rights would be on the low end of the range since conversations with the Division 4 District 60 Water Commissioner suggest the availability of water under the priority system may be limited and would occur early in the irrigation season (May - June). It should also be recognized that the availability of these rights might also be affected by physical limitations with diversion structures or other infrastructure.

Review of previous studies and discussions with the Water Commissioner suggest water availability from the direct diversion rights is not a dependable enough supply as the basis for a new system. Based on the uncertainties discussed above, the 119 shares of FWDC becomes the area of focus.

2.2 FARMERS WATER DEVELOPMENT COMPANY WATER

FDWC contract water for 300 AF is considered to be the core supply for the long-term municipal/domestic needs of the Town and the NWC service area, and is not believed to be appropriate as part of a raw water supply for irrigation. The remaining water that could be utilized by the Town, and the logical source of supply for the RWS, is the 119 shares of FWDC owned by NWC.

The NWC's 119 shares of FWCD (Gurley Reservoir and direct flow) water are estimated to provide approximately 286 AF (2.4 AF per share) of water supply annually. This volume is dependent on the amount of water stored in the reservoir and the amount of direct flow from the stream each year. Direct flow is allocated to the Gurley System at a rate of 1 cfs per 40 shares,

so that NWC's 119 shares equate to 2.98 cfs of direct flow water. The ability of these shares to meet the future demands of the Town development area is discussed later in this report.

3.0 Current and Future Irrigation Demand Estimate

Understanding and planning for appropriate irrigation demands is necessary for evaluating the adequacy of the available water supply and water rights as well as for appropriate preliminary design of the RWS.

The NWC currently serves approximately 780 taps within the NWC service area (see Figure 2). Based on information provided by the Town, approximately 362 of these taps are within the Town Boundary. Of these 362 taps, 285 taps appear to use domestic water for irrigation purposes during summer water use season (May - August) based on domestic water system billing data provided by the Town.

3.1 RWS DEMANDS

One method for determining system demand is to consider plant needs in the context of the total area expected to be irrigated, both now and in the future. Using this method, Table 3 shows the Irrigation Water Requirement (IWR) by month for lawns in the area of the NWC service area. The IWR is essentially the plant (or crop) irrigation needs that are not supplied by precipitation. The table is based on Natural Resources Conservation Service (formerly U.S. Department of Agriculture Soil Conservation Service) Technical Release No. 21 methodology and is a standard approach for evaluating the consumptive use of a crop (in this case bluegrass) and the IWR. As seen in column 2, an average of 2 feet of water needs to be applied annually for a lawn to have a full supply.

3.1.1 Current Demand

To estimate Town RWS use as a whole for planning purposes, an approach was used based on Equivalent Residential Units (EQRs). For lawn and garden water demand (irrigation) estimates for planning purposes, an EQR assumes a lawn of 2,500 square feet (SF) for each residence. Although there are some larger water users in Town, for the purposes of this feasibility level work it is reasonable to assume that each tap represents a single EQR.

Table 3 Column 4 shows the monthly and total estimated irrigation demands for current development in the Town. The estimated demand for the current Town system is approximately 34 AF/year using the IWR and EQR approach.

Comparison of estimated current irrigation demands with irrigation use determined from actual water system billings is useful for assessing actual conditions. Water system billings from the years 2013, 2014, and 2015 were reviewed to estimate actual water use for Town lawn and garden watering. In each year, the difference between typical domestic and monthly summer usage and typical monthly winter usage was assumed to represent lawn and gardening use. The estimated average annual use for lawn and garden watering in those three years was 13.4 AF. This suggests it is likely that typical residential irrigating in Norwood is less than the EQR approach and practiced as defined using the IWR method.

3.1.2 Future Demand

Determining water demands in order to evaluate the sufficiency of water rights requires a different approach than might be used to project future financial aspects of a raw water program.

Assuming partial system participation of 150 taps to start and using a RWS growth rate of 10 percent initially and a long-term rate of 2 percent, the projected demand for RWS demand is approximately 18 AF in 2017 and increases to 47 AF annually in 2042 (using the EQR and IWR approach). See Tables 4 and 5. This compares favorably to an expected average annual supply of 286 AF (119 shares) available for RWS use.

3.2 DEMANDS AND DISTRIBUTION SYSTEM SIZING

Evaluation of current and future demands is also critical to the proper sizing of the system but requires a different approach. Two recent master plans for raw water systems in Colorado based demand projections on watering occurring for eight hours per day, six days per week. This seemed overly conservative to the point of being unrealistic so the following approach was used:

- This study assumes that each user will water three times a week, for up to three hours per watering session.
- 50 percent of the system taps will be active at one time. The Town shall adopt a watering schedule as part of the raw water program,
- In general, each tap is estimated to use 10 gallons per minute (gpm) and utilize zoned irrigation systems.

A final maximum instantaneous system demand of 1,960 gpm was used for the piping network design and analysis based on a watering pattern anticipating between 50 percent of the future system watering at any given time. The system has been designed to deliver approximately 2,000 gpm. It is important to note that the system cannot be operated at 2,000 gpm for long duration as the water supply is a finite resource.

- Phase 1 - If 50 percent of the assumed 242 active taps ran water at 10 gpm, then the instantaneous demand would be 1,210 gpm (121 taps x 10 gpm = 1,210 gpm).
- Phase 2 - If 50 percent of the assumed 321 active taps ran water at 10 gpm, then the instantaneous demand would be 1,610 gpm (161 taps x 10 gpm = 1,610 gpm).
- Phase 3 - If 50 percent of the assumed 392 active taps ran water at 10 gpm, then the instantaneous demand would be 1,960 gpm (196 taps x 10 gpm = 1,960 gpm)

The construction of the RWS is assumed to be completed in phases. The initial phase may only include delivering water to the highest density residential demand areas and large users. The system shall be installed with future growth in mind and the delivery and distribution system has been preliminarily sized to accommodate expansion and growth. Figures 6-8 show the schematic pipe network used to analyze system hydraulics. The final system layout shall be formalized during the formal design process. The Phase 1 improvements includes construction of trunk main (16-inch) larger conduits (6- to 8-inch diameters), distribution system lines (4-diameter), service lines (1-inch diameter), and reservoir improvements. Phase 1 facilities shall be designed and built \ for future system growth assumed in Phases 2 and 3.

4.0 OPERATING STORAGE LOCATION

The location of the proposed raw water supply reservoir is south of the Town and adjacent to the existing blue water tank on Y43 Road near Spruce Drive on Town owned property. This location is aligned with the Town Market Street Right of Way (ROW) corridor and allows for a raw water main transmission line to be installed adjacent to the existing domestic water main and within the existing utility easement and future Market St. ROW and is also in close proximity to the water supply (South Lateral Ditch). See Figure 3 for location of the reservoir with respect to the South Lateral Ditch and Figure 4 and Figure 10 for a preliminary diagram of the proposed reservoir system layout which is further described below.

At the proposed reservoir location, there is an existing abandoned historic reservoir site near the existing above ground domestic water tank. This site is directly south of the Town and adjacent to the South Lateral ditch. This abandoned reservoir was part of the historic domestic water distribution system for the Town prior to be replaced with the tank.

Additional improvements will be required to deliver raw water to the reservoir site from the South Lateral Ditch. Conveyance to the proposed reservoir site will require additional coordination with the FWDC. The FWDC has stated that a new headgate will not be allowed to be constructed on the Gurley Ditch system. The reservoir outlet shall include a screened intake structure and master meter. Inflows into the reservoir shall be coordinated with irrigation use and calls to the FWDC placed accordingly.

The existing reservoir facility will require grading, lining, and spillway improvements. The existing reservoir is approximately 200 feet by 60 feet and 8 to 10 feet deep with a 2:1 side slope. Based on field observation the reservoir could be improved and expanded to 220 feet by 75 feet and 12 feet deep. For this analysis, it is assumed that side slopes be 3:1 for the first 3 feet of depth and 2:1 at greater depths for safety purposes. The proposed reservoir is assumed to have a water surface elevation of 7,184 feet, providing 1 foot of freeboard. This elevation is approximately 164± feet above the Town (7,120 feet, ±). This provides adequate head for the RWS without the need for a booster pump system. A spillway will be required and will require further coordination with adjacent land owners.

The reservoir, in this proposed condition, will provide approximately 2.46 AF or 800,000 gallons of storage. There is potential to expand the reservoir within the Town of Norwood parcel as the system develops and a larger operating reservoir may be required as shown on Figures.

The proposed reservoir design shall be completed to meet the requirements of a non-jurisdictional-sized dam, as defined by the Colorado Division of Water Resources. The proposed reservoir stage - storage curve is shown in Table 6.

Figures 10 and 11 show a more detailed preliminary design of the operation reservoir and diversion improvements described above.

5.0 TRANSMISSION AND DISTRIBUTION SYSTEM

The preliminary raw water distribution system layout was designed to serve the Town Boundary, core area, and for future development west, northwest and south of the existing Town center. Figures 6-8 show the preliminary and schematic pipe network used to analyze system hydraulics and determine preliminary quantities. The final system layout shall be formalized during the formal design process.

Development of the system has generally been divided into three Phases. Phase 1 will deliver raw water to existing residents and Town water system customers while Phases 2 and 3 deliver water to rural and undeveloped areas. Phases 2 and 3 system improvements are highly dependent on rural area participation in the RWS program and projected population growth. Figure 5 shows the proposed phasing as generally described below:

- Development of Phase 1 is planned between 2017 and 2022 and will add approximately 242 taps. The phase will deliver raw water to the Town core area, including the fairgrounds complex and the high school, which have been identified as potentially large users and key system participants.
- Development of Phase 2 is planned between 2022 and 2032 and will add approximately 100 taps. This phase will extend the RWS to the northwest and south and expand the system in the Town Core Area. This provides service to the residents along the County Road 145 corridor up to the Buckboard Drive and Pioneer Circle neighborhoods. Additional taps are also planned within and south of the Town core area.
- Development of Phase 3 is planned between 2032 and 2042 and will add an additional 74 taps. This phase will expand the system on the south side of town between Market Street and Pine Street. This phase of the development is highly dependent on future growth as shown in the Town Master Plan.

5.1 SYSTEM DESIGN CRITERIA

The following criteria were applied to develop the preliminary system design and hydraulic model. Results from the hydraulic model and associated system maps can be found in Appendix A and Figures 1 to 9. Innovyze software was used to produce the hydraulic model in combination with Arc-GIS software.

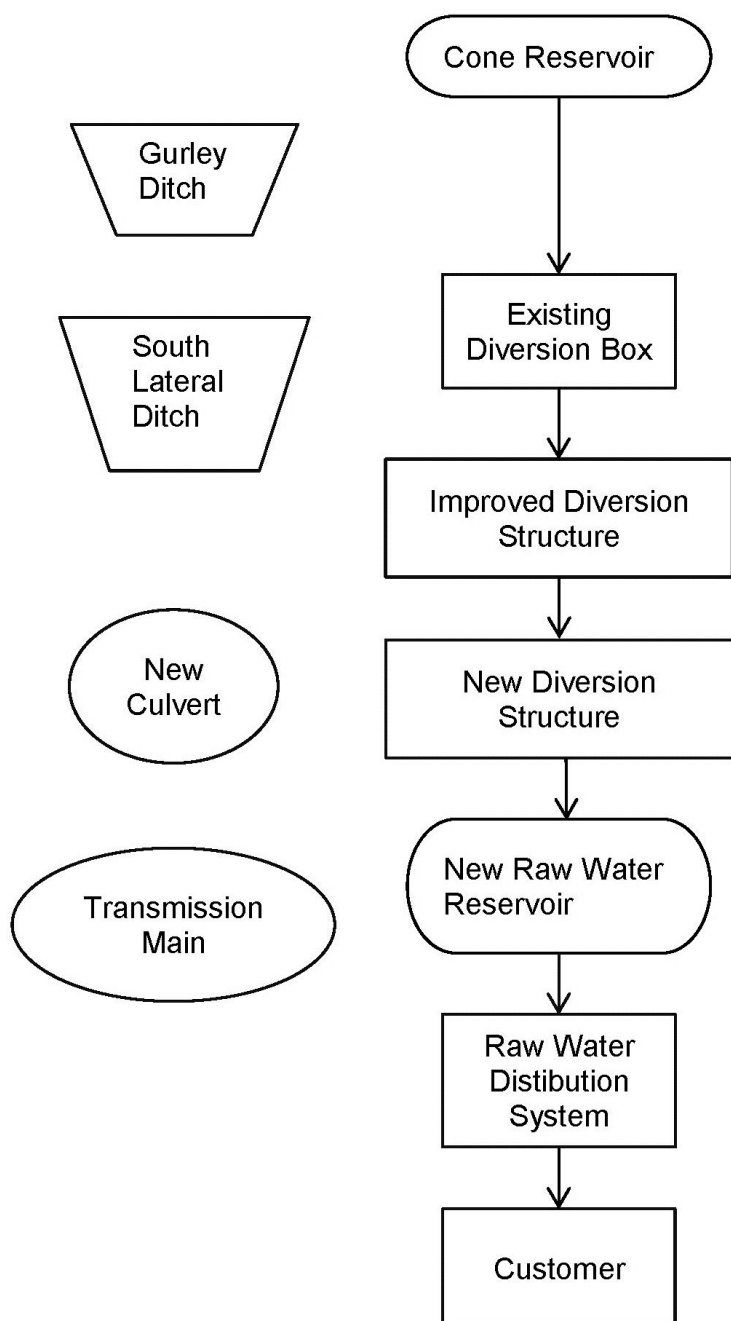
- In general, the layout was aligned efficiently with the existing Town street and alley grid to deliver water to the majority existing Town residents and future growth areas. Final design shall consider the most efficient system layout.
- Node elevations were assigned using one-third arc-second resolution DEM from U.S. Geological Survey mapping.
- Overall, instantaneous demands were distributed across the system at each model node using San Miguel parcel data and future growth scenarios.
- A friction coefficient (C Value) of 150 was used for all pipes. Minor losses were not accounted for.
- Pipe sizes were developed using an iterative process.
- Maximum system instantaneous demand is 1,960 gpm.
- Maximum velocity within pipe system is 5 cfs.
- System will use static head and has been designed to provide a minimum operating pressure of 40 pounds per square inch.
- Meters for each individual user are not being considered at this time due to cost, operation, and maintenance.

5.2 SYSTEM DESIGN CONSIDERATIONS

- Final design and permitting shall be completed per local, Colorado Department of Public Health and Environment, and American Water Works Association (AWWA) requirements.
- Raw waterlines shall be placed a minimum of 10 feet from domestic potable water lines.
- Raw Water irrigation pipes shall be AWWA C9000 and shall be purple in color and marked "Caution Non-Potable Water" in addition to any other AWWA requirements.
- Minimum distribution pipe diameter is 4 inches.

- Service lines for typical taps shall be a minimum of 1 inches diameter. Meters will not be installed initially to decrease cost and system maintenance.
- Minimum cover over pipes and service lines is 3 feet with a maximum of 5 feet.
- System will require winterization at the end of each irrigation season.
- Underground marking tape shall be installed above raw water lines.
- Accessible appurtenances (valve boxes, hatches, manhole lids, meter pit lids, etc.) shall be stamped "Irrigation" and shall be primed and painted with appropriate purple paint.
- Final layout and design of distribution system shall be completed to minimize damage to paved streets, landscaping, and utilities.
- There is potential to add fire hydrants to the system main lines (less than 8 inches diameter) to enhance Town fire protection system which shall be further considered during final design.
- The final layout and design of the system shall be zoned to provide isolation of areas for maintenance and winterization.

5.3 SYSTEM FLOW DIAGRAM



6.0 ESTIMATED SYSTEM COST

An Opinion of Probable Construction Cost was prepared for each of the three project phases. Construction costs have been developed using the preliminary system layouts for each phase from the hydraulic model. The cost estimate assumes a 20 percent contingency due to the preliminary state of the design and includes soft costs for general construction conditions, construction management, permitting, and engineering design. See Table 7 for estimated system costs.

7.0 SYSTEM FINANCIAL BASIS (RAW WATER PROGRAM)

The information provided in this section is intended to provide a framework for the NWC and Town develop a program to fund the construction, operations, and maintenance of the RWS. Additionally, this section provides information on potential grants and loans to help fund the project.

7.1 RWS GROWTH AND DEVELOPMENT

The raw water program system is assumed to develop and grow over a period of time. This Study has assumed that 150 taps will be purchased during the initial development of Phase 1 and taps will be added at a higher rate to serve existing customers and then added as growth and development occur in the Town.

Phase	Year	Taps	System Growth Rate
• Phase 1	2017-2022	242	10%
• Phase 2	2023-2028	73	5%
	2028-2032	26	2%
• Phase 3	2032-2042	74	2%
• Total System Buildout	2042	415	

7.2 RWS PROGRAM DESCRIPTION

The framework for the Town RWS program has generally been developed and based on available information from the RWS program in Dove Creek, Colorado. The Dove Creek system was installed between 2003 and 2008 and is successfully operated. In addition, a survey was sent to potential customers to better understand interest and a reasonable tap fee for the local economy. Survey results are included in the Appendix. It is critical to have interest within the

community and tap fees paid to have funds to request and procure available grant and loan funds.

Table 8 provides additional detail regarding the framework for developing a RWS program. The table projects the RWS growth through Phase 3 (2042). The table estimates revenue from tap fees, annual fees, estimated water use and fees, and the cost of RWS operation and maintenance.

Table 8.1 estimates anticipated revenue from tap fees. The initial tap fee of \$2,500 increases annually by \$200 and a \$20 annual fee is assessed to each customer, each year on a cumulative basis, to pay for system operation and maintenance.

Table 8.2 estimates anticipated revenue from water use fees. The price of water was estimated at \$1.50 per 1,000 gallons and estimated use was developed in Table 4. An average annual water use fee of approximately \$60 per customer can be assumed using this information for Phase 1 and increase during Phases 2 and 3. This fee shall be tiered for different levels of use and further analyzed as the program is developed and interest in the program becomes more evident.

Table 8.3 estimates Operation and Maintenance Costs. It is assumed that operations and maintenance will require 12 hours per week of Town staff time at a base rate of \$25 per hour which increases annually. In addition, an initial annual \$10,000 cost for general infrastructure maintenance for system start up, shut down, and general repairs is included each year and increases annually as the system expands.

The following assumptions have been made in developing the proposed Town RWS program:

- Raw water will be available to customers in 2017.
- 150 customers will purchase taps at the initial pre-construction tap price. Tap price will increase after construction and continue to increase as the system develops. It may be possible to collect tap fees using a payment plan.
- Customers will pay for a flat fee for use of the water. This cost was developed using a base use for a residential customer and may be tiered for different types of use i.e. residential, large residential, commercial, etc.

- An annual fee will be assessed to each user to fund system operations and maintenance (O&M).
- O&M costs have been included and increase each year as the system develops.

Table 9 provides additional information to help understand for how the RWS program might be financed, managed, and operated. This table includes the following items:

- System revenue sources from tap fees, annual use fees, and water use fees.
- Potential grants, loans, and Town and NWC contributions to fund system development. A target grant and loan amount is shown which will cover the funding gap between the system revenue and cost for each phase and the total project.
- Projected system design, construction, and O&M costs.

7.3 GRANTS AND LOANS

The following organizations have been identified which have historically provided grants and loans for similar water conservation projects to rural western Colorado communities. The grant and loan application process varies for each entity.

The grant and loan amounts shown in Table 9 above are target amounts that will need to be further verified and are based on system growth and customer interest. It is critical that the residents and system users provide up front funds for the tap fee in order to provide matching amounts for grant applications. These grants and loans have not been secured or applied for.

- Southwest Water Conservation District Program
<<http://swwcd.org/programs/financial-assistance-program>>
- Colorado Department of Local Affairs
<<https://www.colorado.gov/pacific/dola/financial-assistance-0>>
- Colorado Water Conservation Board
<<http://cwcb.state.co.us/LoansGrants/water-project-loan-program/Pages/main.aspx>>

8.0 SUMMARY

- The NWC has adequate water rights to develop a raw water irrigation system.

- System demands were developed to understand seasonal use and develop an instantaneous demand. The system has been designed to provide 1,960 gpm.
- The proposed reservoir site is adequate for operational supply use and owned by the Town. The operation supply facility will require improvements to the reservoir itself and to convey raw water to the reservoir. The existing ditch system provides deliver of water close to the proposed reservoir site, requiring minimal supply improvement work.
- The distribution system and hydraulic model provide reasonable assurance that the proposed RWS will provide adequate pressures for irrigation purposes.
- The development of the system was divided into three phases to provide service to the Town domestic water customers, adjacent rural areas, and future development.
- The Town and NWC will need to formalize a raw water program to fund and operate the system. The initial framework for a raw water program has been provided in this Study.

9.0 REFERENCES

- Dove Creek Lawn and Garden Overview
- Town of Norwood Master Plan, Future Land Use Plan,
- Town of Nucla, Raw Water Irrigation, Phase II-B
- Wright Water Engineers, Inc. Raw Water System Updates and Future Needs Assessment - Norwood Water Commission; April 2011.

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Tables

**Table 1. Water Rights and Reservoir Shares
Town of Norwood/Norwood Water Commission**

Water Rights/Shares	Amount (cfs)	Amount (AF)	Use	Source	Adjudication Date	Appropriation Date	Priority	Case No.
Priority No. 214 (Naturita Canal)	0.25	-	M	Maverick Draw	10/16/1933	10/21/1926	214	CA4348
Town of Norwood Pipeline	0.50	-	M	Maverick Draw	7/10/1952	6/1/1935	385	CA5882
	0.25	-	M		7/10/1952	6/1/1948	425	CA5882, Absolute; 85CW151
Norwood Infiltration Pipeline	0.57	-	M	Maverick Draw, various springs and seeps	1/16/1967	6/10/1962	513	CA9042
	0.18	-	M		1/16/1967	6/10/1962	513C	CA9042; Absolute; 85CW151
Gardner Springs/Pipeline	0.25	-	D/S	Maverick Draw, various springs and seeps	1/16/1967	11/13/1950	478	CA9042
	0.50	-	I/S		1/16/1967	11/1/1960	511	CA9042
FWDC Contract ⁽¹⁾	-	300	D		Various	Various	Various	Various
FWDC Shares ⁽²⁾	-	286 ⁽³⁾	I	Beaver Creek and Gurley Reservoir	Various	Various	Various	Various

Notes:

AF = acre-feet

cfs = cubic feet per second

FWDC = Farmers Water Development Company

Use Code: M - Municipal, D - Domestic, S - Stock, I - Irrigation

Footnotes:

1) Town of Norwood has contract for 300 AF of Gurley Reservoir water.

2) Norwood Water Commission holds 119 shares of Gurley Reservoir water.

3) 119 shares estimated to represent 2.4 AF/share annually, average for the period 1978-2014. This includes both direct flow diversions plus Gurley Reservoir releases.

**Table 2. Estimated Potential Water from Direct Diversion Rights
Town of Norwood**

Water Rights/Shares	Water Right Amount (cfs)	Priority No.	Amount Potentially Available Based on Theoretical Days Available (AF)			
			5	10	20	30
Priority No. 214 (Naturita Canal)	0.25	214	2.5	5.0	9.9	14.9
Town of Norwood Pipeline	0.50	385	5.0	9.9	19.8	29.7
	0.25	425	2.5	5.0	9.9	14.9
Norwood Infiltration Pipeline	0.57	513	5.6	11.3	22.6	33.9
	0.18	513	1.8	3.6	7.1	10.7
Gardner Springs/Pipeline	0.25	478	2.5	5.0	9.9	14.9
	0.50	511	5.0	9.9	19.8	29.7
Total:			24.8	49.5	99.0	148.5

Notes:

AF = acre-feet

cfs = cubic feet per second

Table 3. Projected Irrigation Demand (EQR Approach)
Town of Norwood

Month	(1)	(2)	(3)	(4)
	Irrigation Water Requirement			
	(in)	(ft)	2,500 SF Lawn (AF)	Future System Demand* (AF)
January	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	1.02	0.085	0.005	1.39
May	3.92	0.327	0.019	5.34
June	5.59	0.466	0.027	7.62
July	5.48	0.457	0.026	7.47
August	4.42	0.368	0.021	6.02
September	3.21	0.268	0.015	4.38
October	1.33	0.111	0.006	1.81
November	0	0	0	0.00
December	0	0	0	0.00
Total:	24.97	2.08	0.12	34.04

Notes:

* 285 taps = 285 EQRs

AF = acre-feet

EQR = Equivalent Residential Unit

ft = feet

in = inches

IWR = irrigation water requirement

SF = square feet

Column Notes:

1) IWR based on Blaney-Criddle Method with Pochop correction for bluegrass at Norwood.

2) IWR in feet.

3) IWR for standard 2,500 SF lawn and garden considered an EQR for planning purposes.

4) Estimated IWR for current Norwood system.

**Table 4. Projected System Water Demand Based on EQR Approach
Town of Norwood**

Use	Year	No. of Taps ⁽¹⁾	Outdoor Use (AF)
Current ⁽²⁾ (Domestic System Irrigation)	2012	278	14.86
	2013	286	13.3
	2014	285	12.00
Projected ⁽³⁾ (Raw Water System Irrigation)	2017	150	17.9
	2018	165	19.7
	2019	182	21.7
	2020	200	23.8
	2021	220	26.2
	2022	242	28.8
	2027	308	36.8
	2032	340	40.7
	2037	376	44.9
	2042	415	49.6

Notes:

AF = acre-feet

EQR = Equivalent Residential Unit

Footnotes:

1) See Table 5. Tap Projection Calculations.

2) Based on Town of Norwood Water Billing records.

3) Based on assumed raw water program participation.

Table 5. Tap Projection Calculations
Town of Norwood

Year	Water System Growth Rate*	Taps - Projected Quantity
2017		150
2018	10%	165
2019	10%	182
2020	10%	200
2021	10%	220
2022	10%	242
2023	5%	254
2024	5%	266
2025	5%	280
2026	5%	294
2027	5%	308
2028	2%	314
2029	2%	321
2030	2%	327
2031	2%	334
2032	2%	340
2033	2%	347
2034	2%	354
2035	2%	361
2036	2%	368
2037	2%	376
2038	2%	383
2039	2%	391
2040	2%	399
2041	2%	407
2042	2%	415
2043	2%	423
2044	2%	432
2045	2%	440
2046	2%	449
2047	2%	458
2048	2%	467
2049	2%	477
2050	2%	486
2051	2%	496
2052	2%	506
2053	2%	516
2054	2%	526
2055	2%	537
2056	2%	548
2057	2%	558
2058	2%	570
2059	2%	581
2060	2%	593

Notes:

* Assumes growth rate of Raw Water System, not population.

**Table 6. Stage Storage Analysis - Proposed Reservoir
Town of Norwood/Norwood Water Commission**

Elevation	Length	Width	Side Slope	Area	Volume		
(ft)			(ratio)	(sq ft)	(cf)	(gal)	(AF)
7,184	200	60		12,000	12,000	89,760	0.28
7,183	194	54	3 :1	10,476	10,476	78,360	0.24
7,182	188	48	3 :1	9,024	9,024	67,500	0.21
7,181	182	42	3 :1	7,644	7,644	57,177	0.18
7,180	178	38	2 :1	6,764	6,764	50,595	0.16
7,179	174	34	2 :1	5,916	5,916	44,252	0.14
7,178	170	30	2 :1	5,100	5,100	38,148	0.12
7,177	166	26	2 :1	4,316	4,316	32,284	0.10
7,176	162	22	2 :1	3,564	3,564	26,659	0.08
7,175	158	18	2 :1	2,844	2,844	21,273	0.07
7,174	154	14	2 :1	2,156	2,156	16,127	0.05
7,173	150	10	2 :1	1,500	1,500	11,220	0.03
7,172	146	6	2 :1	876			
Total:					533,354	1.64	

Notes:

ft = feet

sq ft = square feet

cf = cubic feet

gal = gallons

AF = acre-feet

Table 7. Opinion of Probable Cost
Town of Norwood

Item No.	Unit	Description	Unit Price	Phase 1		Phase 2		Phase 3	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
1	EA	New Headgate	\$10,000	1	\$10,000	-		-	
2	EA	18" culvert	\$5,000	1	\$5,000	-		-	
3	EA	Reservoir improvements	\$65,000	1	\$65,000	-		1	\$65,000
4	EA	Intake and screen/strainer	\$12,500	1	\$12,500	-		-	
5	EA	Master meter	\$7,500	1	\$7,500	-		-	
6	LF	4" PVC pipe - C900	\$20	14,205	\$284,100	7,205	\$144,100	4,446	\$88,920
7	LF	6" PVC pipe - C900	\$25	-		7,242	\$181,050	3,820	\$95,500
8	LF	8" PVC pipe - C900	\$30	10,910	\$327,300	-		-	
9	LF	10" PVC pipe - C900	\$35	-		-			
10	LF	12" PVC pipe - C900	\$40	-		-			
11	LF	14" PVC pipe - C901	\$45	-		-		-	
12	LF	16" PVC pipe - C900	\$50	3,572	\$178,600	-		-	
13	LF	1" PVC pipe - C900	\$15	-		988	\$14,825	745	\$11,182
14	EA	Meter and pit	\$300	-		99	\$29,650	75	\$22,364
15	EA	Hose bib	\$100	-		-		-	
16	LS	Road repair	\$50,000	1	\$50,000	1	\$50,000	1	\$50,000
17	LS	Utility repair	\$50,000	1	\$50,000	1	\$50,000	1	\$50,000
18	LS	Landscape repair	\$25,000	1	\$25,000	1	\$25,000	1	\$25,000
19	%	Contingency	20%	1	\$203,000	1	\$98,925	1	\$81,593
20	%	Construction Management	10%	1	\$121,800	1	\$59,355	1	\$48,956
21	%	Engineering (design/construction)	7.5%	1	\$91,350	1	\$44,516	1	\$36,717
Total Cost:					\$1,431,150		\$697,421		\$575,233

Engineer's Disclaimer on the Engineer Estimate of Probable Cost

This ENGINEER'S opinion of probable construction cost is made on the basis of ENGINEER'S experience and qualifications and represents the ENGINEER'S best judgment as an experienced and qualified professional generally familiar with the industry. However, since the ENGINEER has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, ENGINEER cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by ENGINEER. If OWNER wishes greater assurance as to probable construction costs, OWNER shall employ an independent cost estimator or contractor.

Assumptions:

- 1) Cost estimate was prepared based on preliminary design. The scope of work includes installing a raw water irrigation system for the Town of Norwood.
- 2) Unit cost data are based on similar project and available data and are not guaranteed.
- 3) Cost Estimate does not include any municipal permitting fees.
- 4) Cost estimate is based on preliminary design and layout; a 20 percent contingency has been applied.
- 5) Pipe cost includes trenching, bedding, and appurtenances (valves, tees, fittings, etc.).

Notes:

LF = linear feet
EA = each
LS = lump sum

Table 8. Raw Water System Program Details
Town of Norwood

Table 8.1 - Tap Fees					
Phase	Year	Taps	Tap Fee	Total Tap Fee	Annual Fee ⁽¹⁾
1	2017	150	\$2,500	\$375,000	\$3,000
	2018	15	\$2,700	\$40,500	\$3,300
	2019	17	\$2,900	\$47,850	\$3,630
	2020	18	\$3,100	\$56,265	\$3,993
	2021	20	\$3,300	\$65,885	\$4,392
	2022	22	\$3,500	\$76,865	\$4,832
	Subtotal	242			
2	2023-2027	67	\$4,000	\$266,973	\$6,166
	2027-2032	32	\$4,500	\$144,406	\$6,808
	Subtotal	99			
3	2033-2037	35	\$5,000	\$177,151	\$7,517
	2037-2042	39	\$5,500	\$215,147	\$8,299
	Subtotal	75			
Total:		415		\$1,466,041	\$51,937

Table 8.2 - Water Use Fees							
Phase	Year	AF	1,000 gal	\$/1,000 gal	Fee	\$/yr/tap	Fee
1	2017	18	5,837	\$1.50	\$8,756	\$58.37	\$59.00
	2018	20	6,421	\$1.50	\$9,631	\$58.37	\$59.00
	2019	22	7,063	\$1.50	\$10,594	\$58.37	\$59.00
	2020	24	7,769	\$1.50	\$11,654	\$58.37	\$59.00
	2021	26	8,546	\$1.50	\$12,819	\$58.37	\$59.00
	2022	29	9,401	\$1.50	\$14,101	\$58.37	\$59.00
2	2023-2027	37	11,998	\$1.75	\$20,997	\$68.10	\$69.00
	2027-2032	41	13,247	\$2.00	\$26,494	\$77.83	\$78.00
3	2033-2037	45	14,626	\$2.25	\$32,907	\$87.56	\$88.00
	2037-2042	50	16,148	\$2.50	\$40,369	\$97.29	\$98.00
Total:					\$188,323		

Table 8.3 - Operation and Maintenance Costs							
Phase	Year	Labor			Maintenance ⁽²⁾		
		hrs ⁽³⁾	\$/hr	\$/yr	Cost	\$/yr	Cost
1	2017	624	\$ 25	\$15,600	\$ 15,600	\$ 10,000	\$ 10,000
	2018	624	\$ 27	\$16,848	\$ 16,848	\$ 11,000	\$ 11,000
	2019	624	\$ 29	\$18,096	\$ 18,096	\$ 12,000	\$ 12,000
	2020	624	\$ 31	\$19,344	\$ 19,344	\$ 13,000	\$ 13,000
	2021	624	\$ 33	\$20,592	\$ 20,592	\$ 14,000	\$ 14,000
	2022	624	\$ 35	\$21,840	\$ 21,840	\$ 15,000	\$ 15,000
2	2023-2027	3120	\$ 35	\$15,600	\$ 109,200	\$ 17,500	\$ 122,500
	2027-2032	3120	\$ 40	\$24,960	\$ 124,800	\$ 20,000	\$ 100,000
3	2033-2037	3120	\$ 45	\$28,080	\$ 140,400	\$ 22,500	\$ 112,500
	2037-2042	3120	\$ 50	\$31,200	\$ 156,000	\$ 25,000	\$ 125,000
Total:					\$642,720		\$ 535,000

Notes:

AF = acre-feet

gal = gallon

hr = hour

yr = year

Footnotes:

1) \$20 annual fee

2) Repairs and equipment

3) 12 hours/week

Table 9. Raw Water Program Summary and Analysis
Town of Norwood

Program Summary	Phase 1 2017-2022	Phase 2 2023-2032	Phase 3 2033-2042	Total 2017-2042
System Revenue				
Tap fees collected	\$ 662,365	\$ 411,378	\$ 392,298	\$ 1,466,041
Annual user fees	\$ 23,147	\$ 36,121	\$ 51,937	\$ 51,937
Water use fees	\$ 68,283	\$ 239,130	\$ 368,699	\$ 188,323
Total:	\$ 753,795	\$ 686,630	\$ 812,934	\$ 2,253,359
Grants, Loans, Contributions⁽¹⁾				
SWCD grant	\$ 50,000	\$ 40,000	\$ 34,222	\$ 124,222
Roundtable/CWCB grant	\$ 400,000	\$ 250,000	\$ 150,000	\$ 800,000
DOLA grant	\$ 400,000	\$ 250,000	\$ 150,000	\$ 800,000
CWCB - loan	\$ 650,000	\$ -	\$ -	\$ 650,000
Town and NWC	\$ -	\$ -	\$ -	\$ -
Total:	\$ 1,500,000	\$ 540,000	\$ 334,222	\$ 2,374,222
System Costs				
Design/construction	\$ 1,431,150	\$ 697,421	\$ 575,233	\$ 2,703,804
O&M costs	\$ 115,888	\$ 456,500	\$ 533,900	\$ 1,106,288
CWCB loan payment ⁽²⁾	\$ 203,590	\$ 407,180	\$ 206,719	\$ 817,489
Total:	\$ 1,750,628	\$ 1,561,101	\$ 1,315,852	\$ 4,627,581
Running Total:	\$ 503,167	\$ 168,695	\$ (0)	\$ (0)

Notes:

CWCB = Colorado Water Conservation Board

O&M = operations and maintenance

SWCD = Southwestern Water Conservation District

DOLA = Colorado Department of Local Affairs

Town = Town of Norwood

NWC = Norwood Water Commission

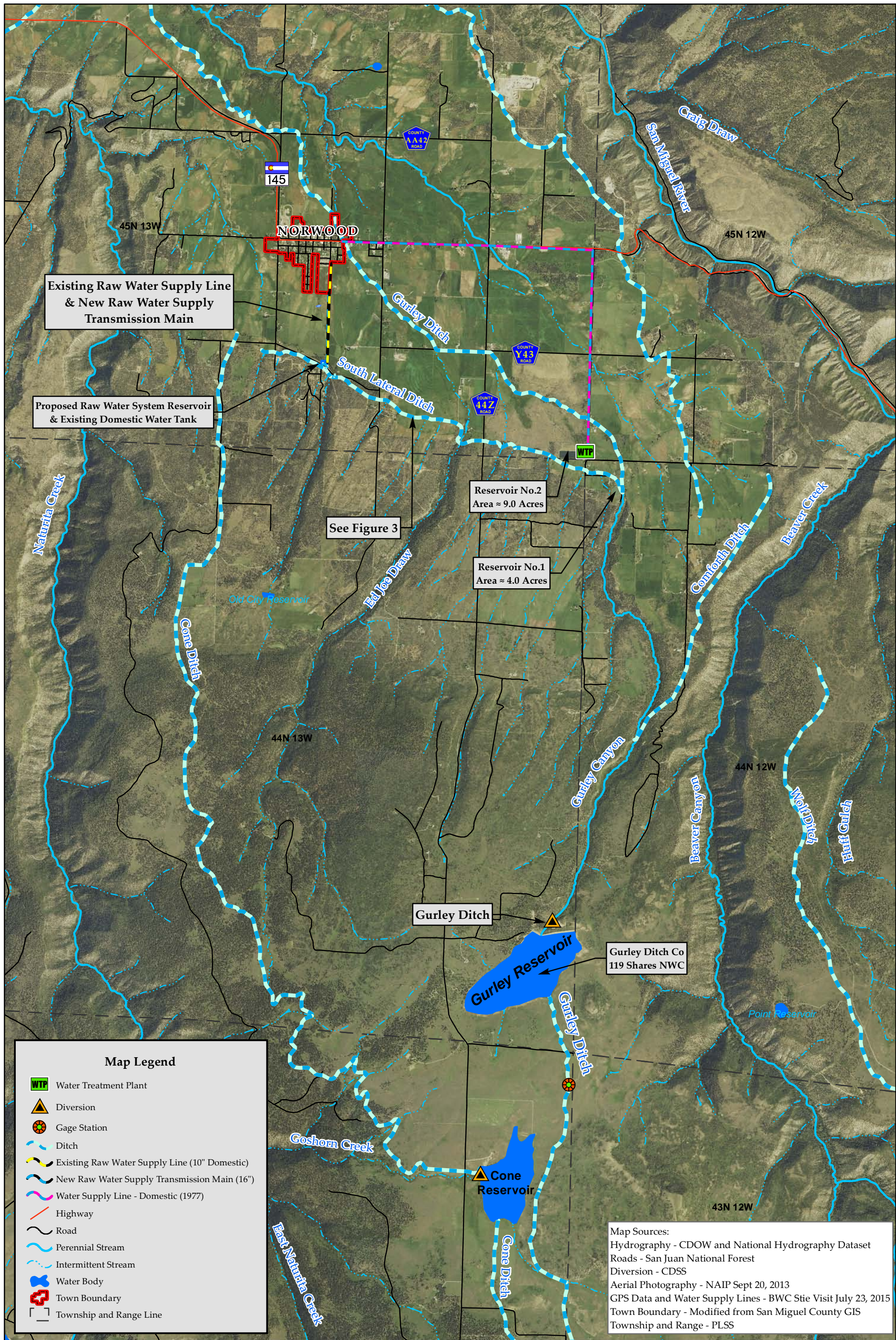
Footnotes:

1) Target amounts to fund project.

2) Loan payment based on estimated loan amount and terms (CWCB, 20 years, 2.25%).

Figures

P:\Project Files\2015-440.001 Town of Norwood\Mapping\ArcMap\2016\Report\Fig1 Vicinity Map.mxd



BIKIS
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a division of SGM

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Durango, CO 81301
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0 2,250 4,500 9,000 Feet

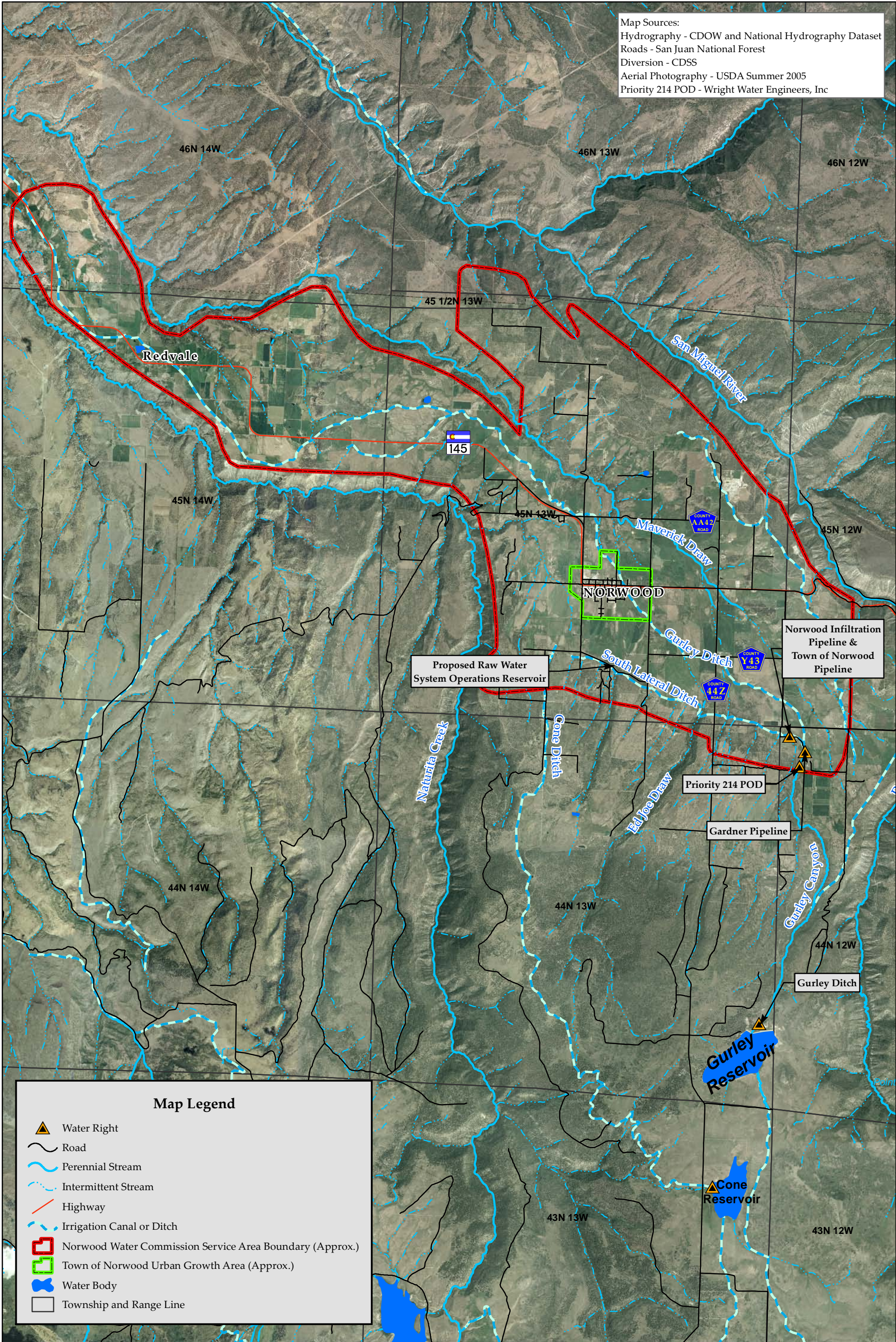
1 inch = 4,500 feet

Designed by: DSS
Checked by: EAB
Date: 5/31/2016
Scale: 1:54,000

**Norwood Raw Water System
Vicinity Map**

**Figure
1**

Map Sources:
Hydrography - CDOW and National Hydrography Dataset
Roads - San Juan National Forest
Diversion - CDSS
Aerial Photography - USDA Summer 2005
Priority 214 POD - Wright Water Engineers, Inc



P:\Project Files\2015-440.001 Town of Norwood\Mapping\ArcMap\2016\Report\Fig2 Study Area Map.mxd



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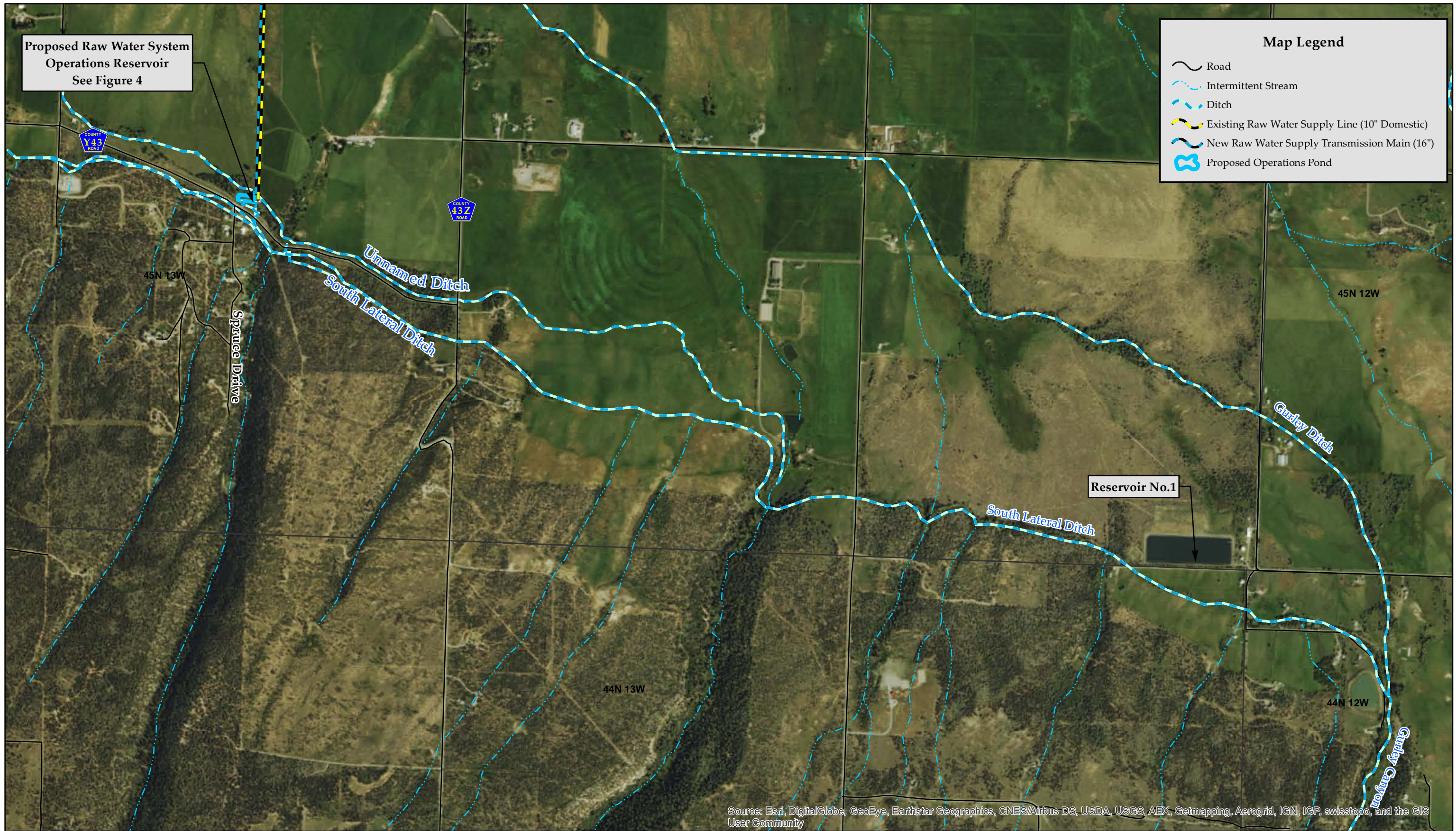
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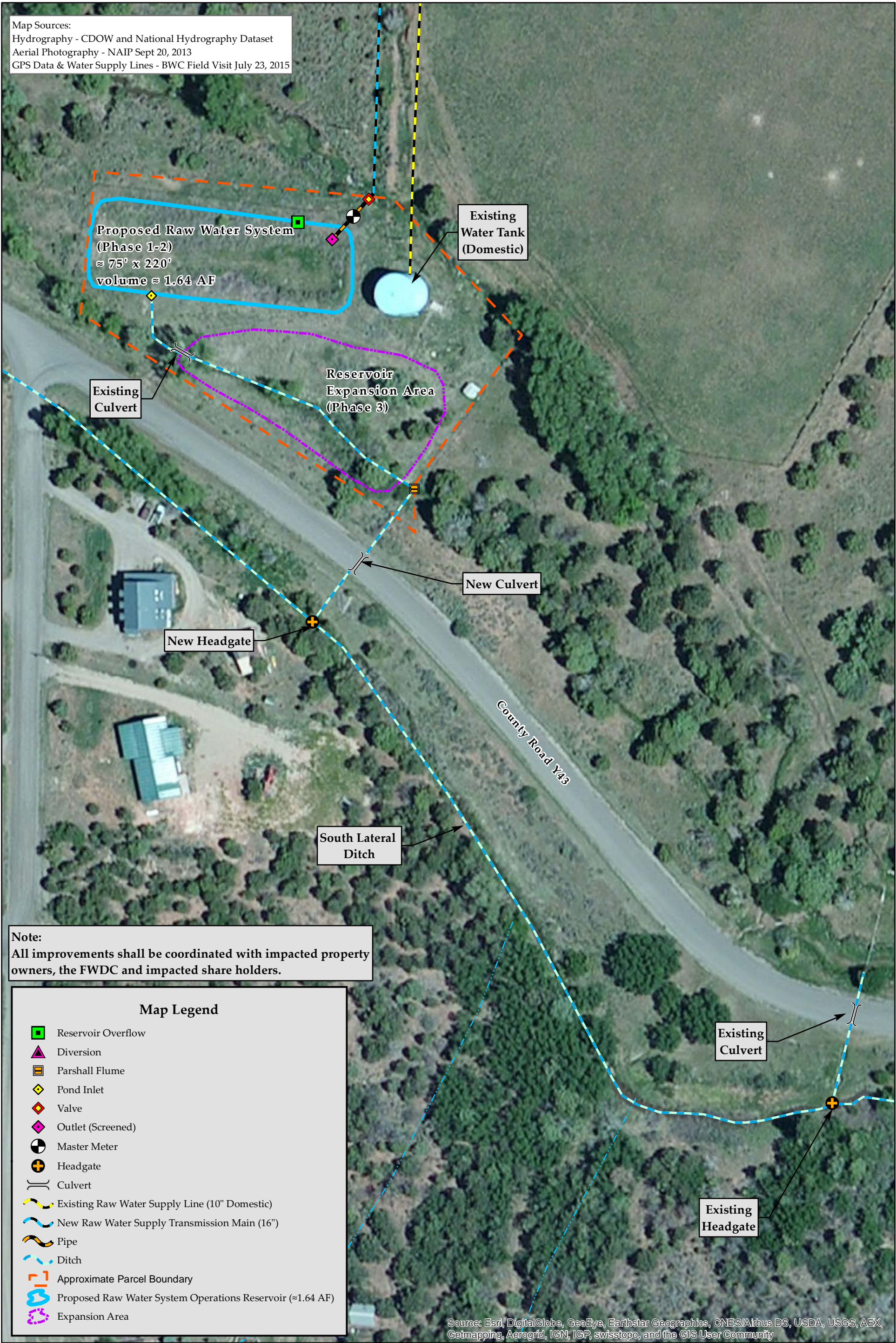
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1 inch = 7,000 feet

Designed by: SCV
Checked by: EAB
Date: 5/31/2016
Scale: 1:84,000

Norwood Raw Water System Study Area Map



Map Sources:
Hydrography - CDOW and National Hydrography Dataset
Aerial Photography - NAIP Sept 20, 2013
GPS Data & Water Supply Lines - BWC Field Visit July 23, 2015



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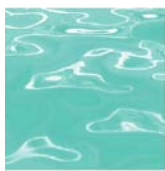
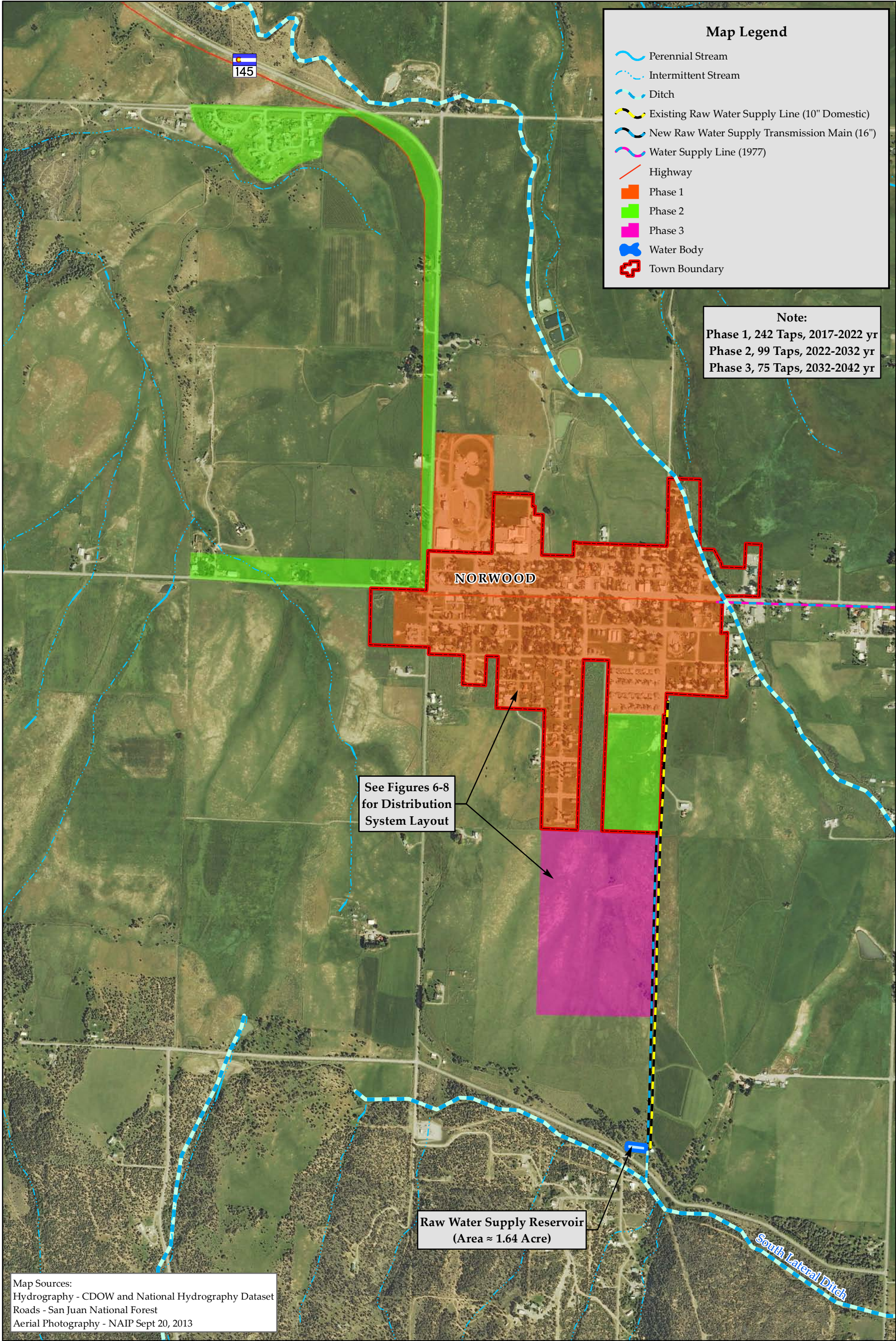
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Checked by: EAB
Date: 5/31/2016
Scale: 1:900

**Proposed Supply Reservoir
Diagram & Map**

**Figure
4**

P:\Project Files\2015-440.001 Town of Norwood\Mapping\ArcMap\2016\Report\Fig5 System Phasing Map.mxd



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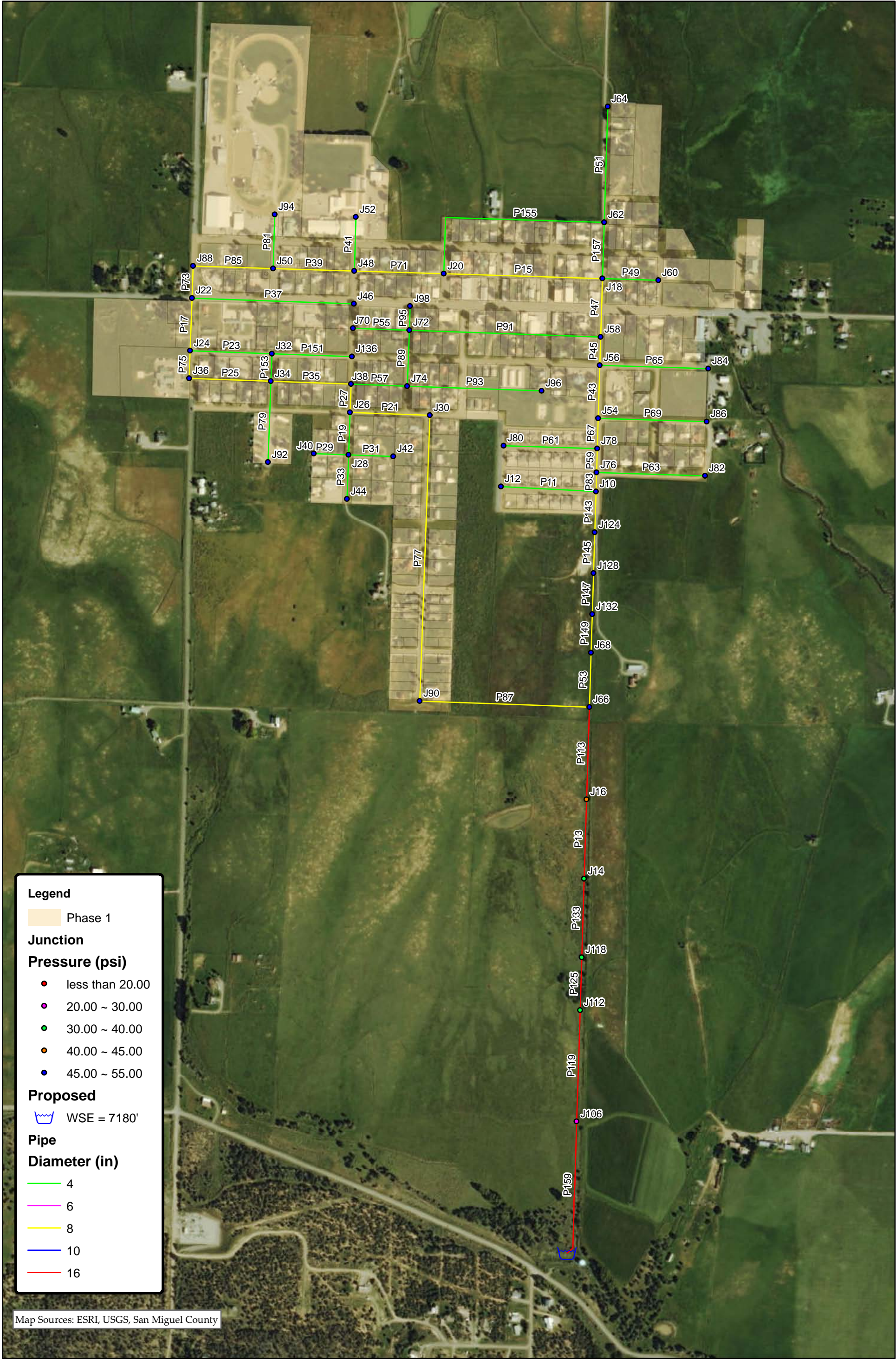


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1 inch = 1,000 feet

Designed by: SCV
Checked by: EAB
Date: 5/31/2016
Scale: 1:12,000

**Norwood Raw
Water Irrigation
System Phasing Map**

**Figure
5**



Legend

Phase 1

Junction

Pressure (psi)

less than 20.00

20.00 ~ 30.00

30.00 ~ 40.00

40.00 ~ 45.00

45.00 ~ 55.00

Proposed

WSE = 7180'

Pipe

Diameter (in)

4

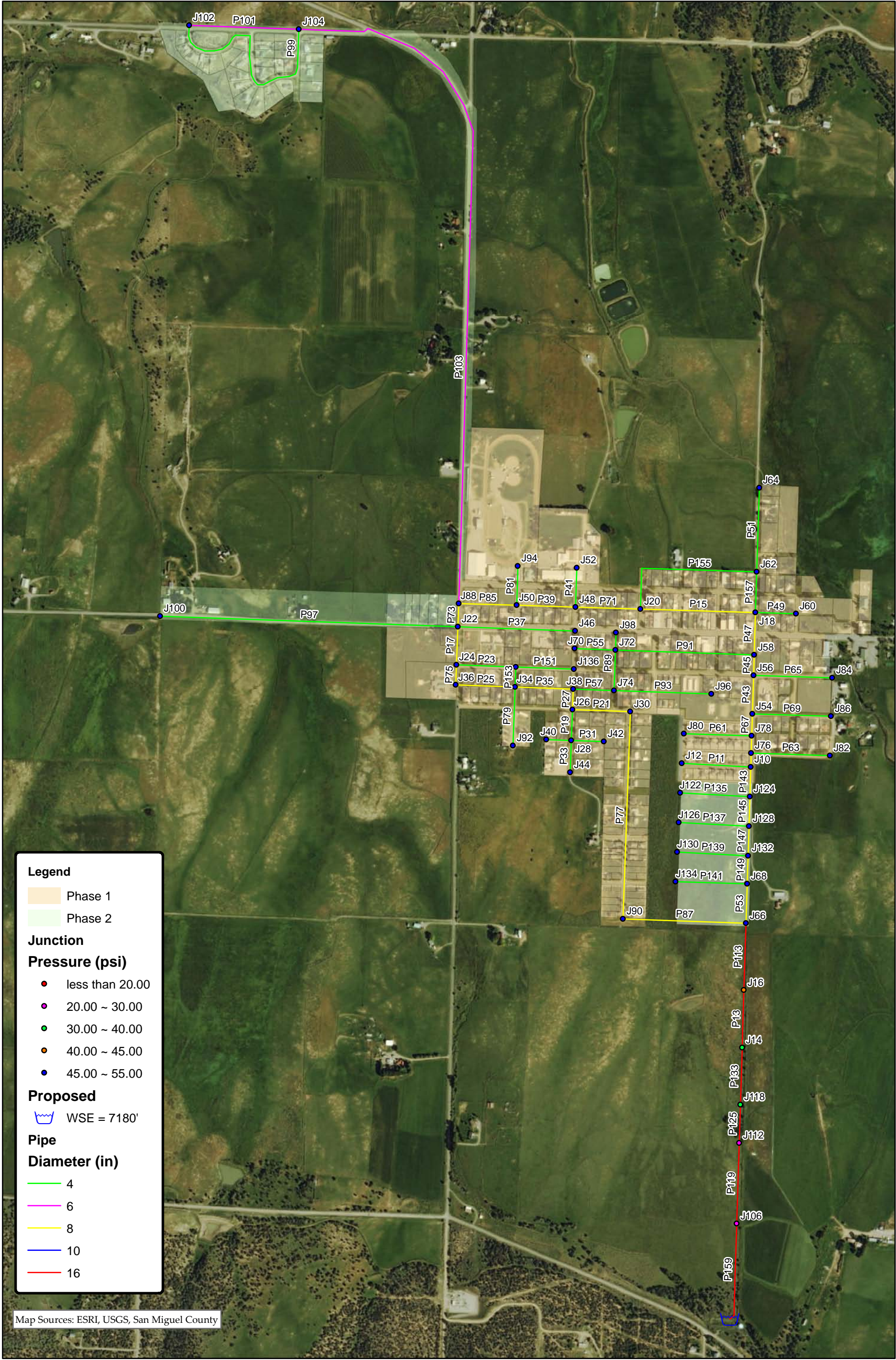
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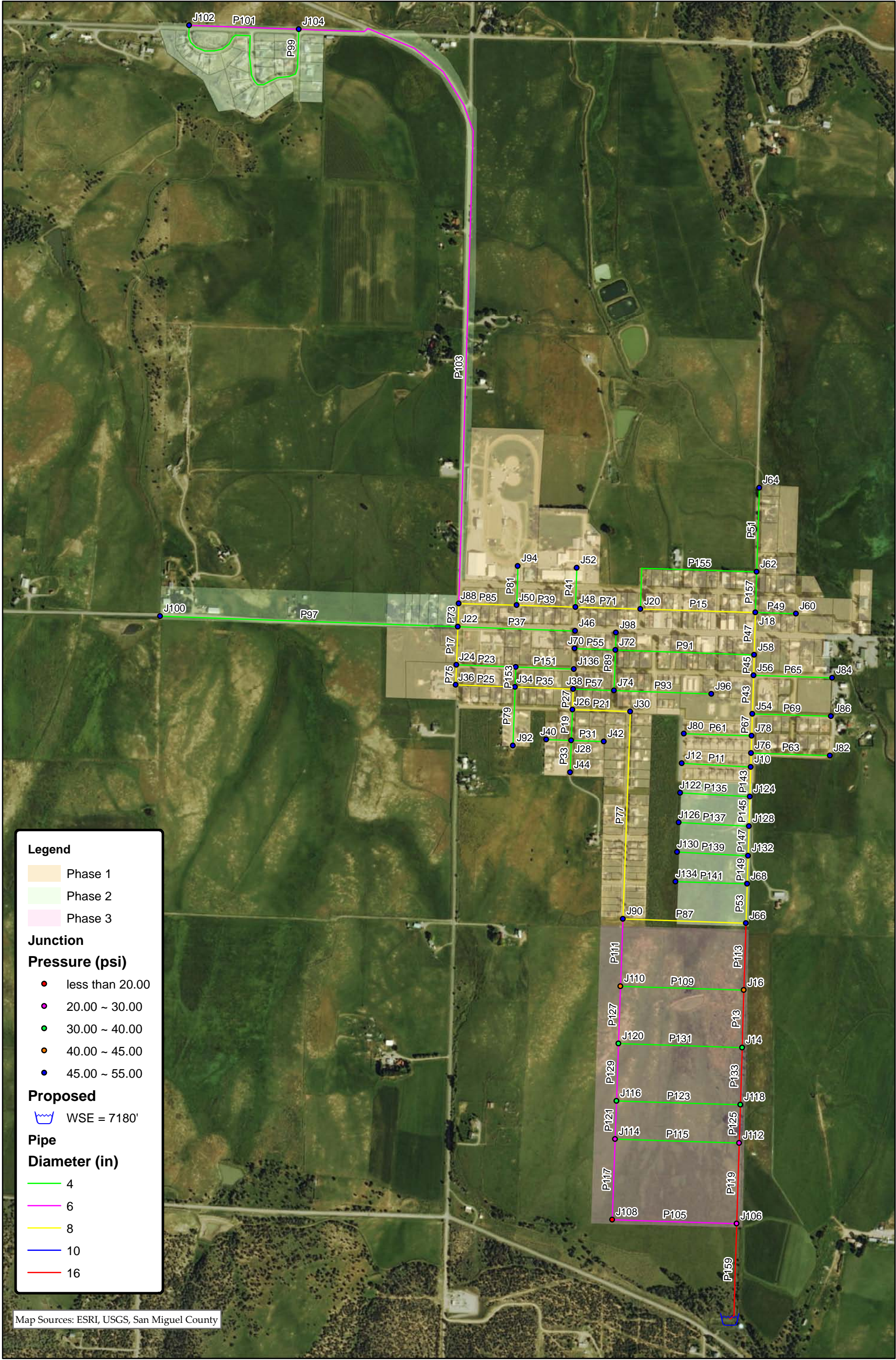
8

10

16

Map Sources: ESRI, USGS, San Miguel County





Norwood Master Plan Future Land Use Plan

**Geographic
Information Systems**
**SAN MIGUEL COUNTY
COLORADO**
www.sanmiguelcountymaps.org

San Miguel County GIS Department
333 W. Colorado Ave., 2nd Floor
PO Box 1170, Telluride, CO 81415
970-369-5470 gis@sanmiguelcounty.org

DISCLAIMER: This information is a product of San Miguel County GIS Department and is intended for the display of relative positions and boundaries. Users of this information agree that no warranty of any kind has been made by San Miguel County.

Legend

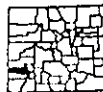
- Ditch
- Town
- Trails
- Norwood Master Plan Area
- Streets
- Future Streets
- Parcels

Future Land Use

- NAME**
- COMMERCIAL
 - LIGHT INDUSTRIAL
 - PUBLIC
 - RESIDENTIAL



NOT TO SCALE



PREPARED BY: San Miguel
GIS (11/11), 20060921
(GISProject\NORWOOD\NORWOOD_FLU.D.mxd)

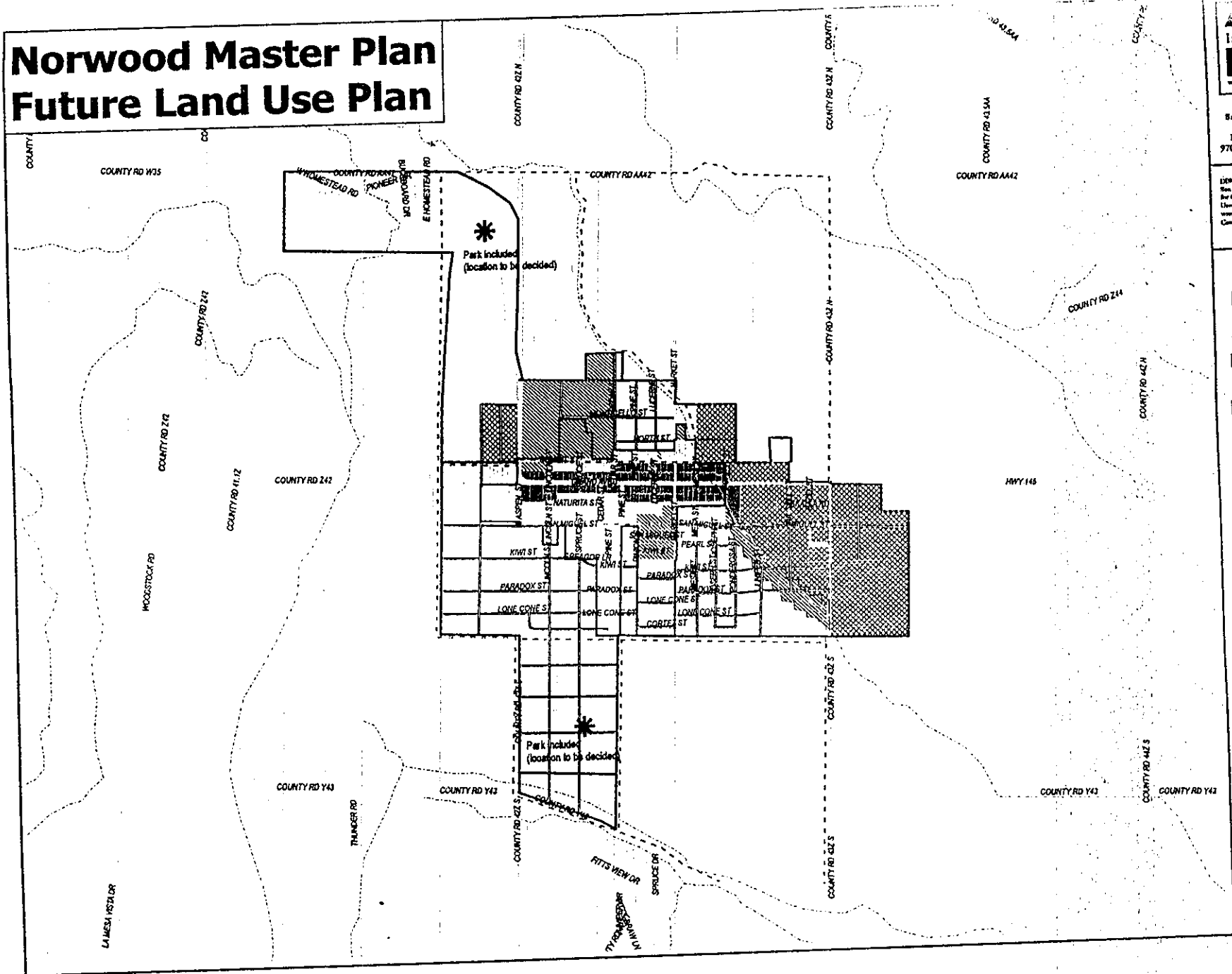
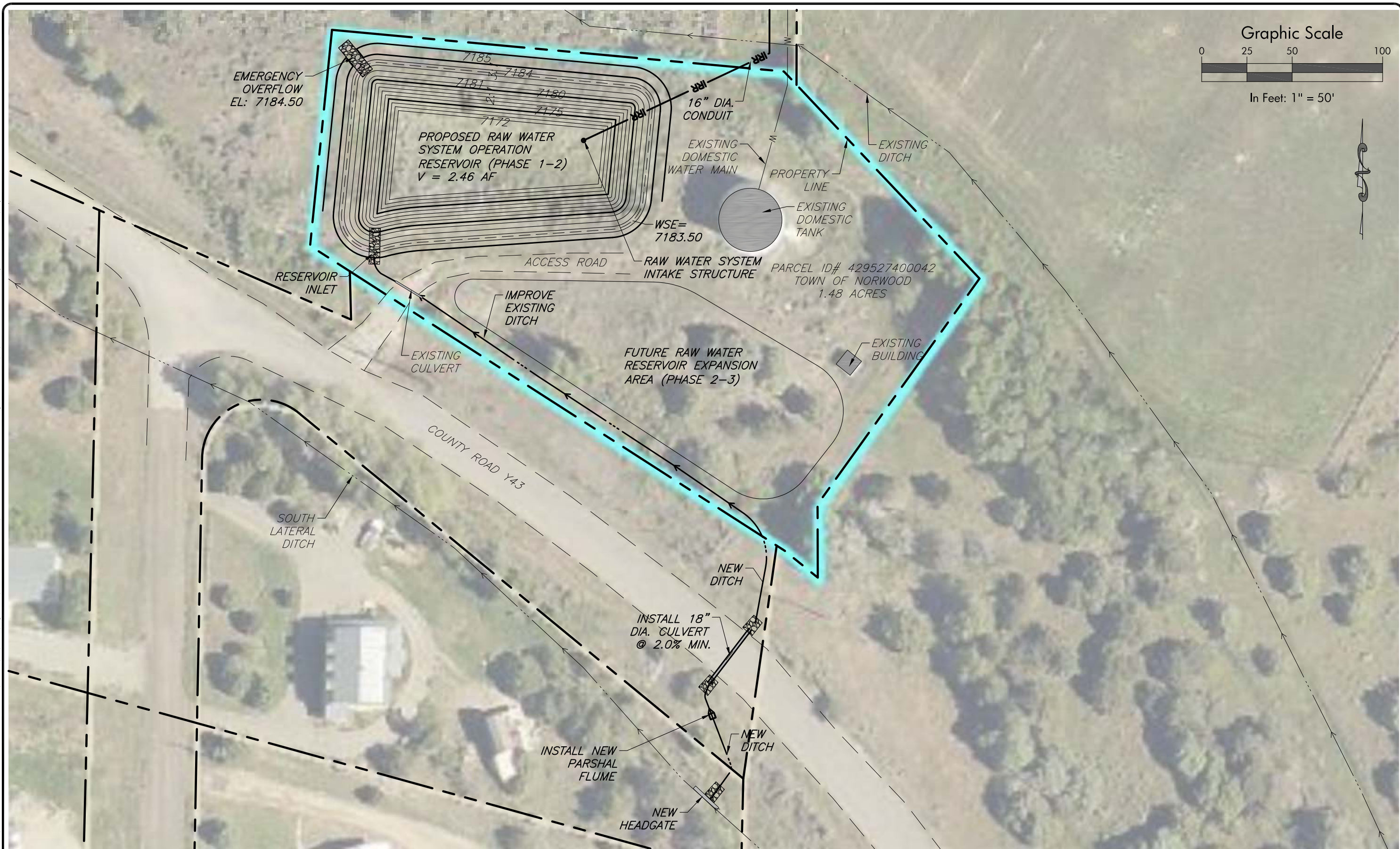


Figure 9

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Preliminary
Not For
Construction



Town of Norwood
Raw Water System
Feasibility Study

#	Revision	Date	By

Preliminary Operations
Reservoir Layout

Job No.	2015-440.001
Drawn by:	ABR
Date:	6-2-16
QC:	PE:
File:	2015-440.001_Op_Res-5-31-16_Final

Fig. 10

Appendix A:

Hydraulic Calculation Results

Appendix A. Hydraulic Calculation Results
Pipe Network Hydraulics
Town of Norwood

Phase 1									
ID	Node		Length (ft)	Diameter (in)	C Value	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)
	From	To							
P11	J10	J12	619.38	4	150	29	0.75	0.37	0.6
P113	J16	J66	600.47	16	150	1210	1.93	0.41	0.68
P119	J106	J112	724	16	150	1210	1.93	0.49	0.68
P125	J112	J118	343	16	150	1210	1.93	0.23	0.68
P13	J14	J16	516	16	150	1210	1.93	0.35	0.68
P133	J118	J14	513	16	150	1210	1.93	0.35	0.68
P143	J124	J10	266	8	150	658	4.2	1.72	6.46
P145	J128	J124	266	8	150	658	4.2	1.72	6.46
P147	J132	J128	266	8	150	658	4.2	1.72	6.46
P149	J68	J132	251	8	150	658	4.2	1.62	6.46
P15	J18	J20	1033	8	150	239	1.53	1.03	0.99
P151	J136	J32	522	4	150	0	0	0	0
P153	J34	J32	180	4	150	44	1.13	0.23	1.27
P155	J62	J20	1399	4	150	2	0.06	0.01	0.01
P157	J18	J62	366	4	150	67	1.72	1.02	2.78
P159	STORAGE_POND	J106	875	16	150	1210	1.93	0.6	0.68
P17	J22	J24	343	8	150	-98	0.63	0.06	0.19
P19	J26	J28	277	4	150	76	1.95	0.97	3.51
P21	J26	J30	520	8	150	-489	3.12	1.94	3.72
P23	J32	J24	533	4	150	15	0.37	0.09	0.16
P25	J34	J36	533	8	150	164	1.05	0.26	0.49
P27	J26	J38	184	8	150	408	2.61	0.49	2.67
P29	J40	J28	226	4	150	-6	0.15	0.01	0.03
P31	J28	J42	292	4	150	32	0.82	0.21	0.71
P33	J28	J44	288	4	150	26	0.66	0.13	0.47
P35	J38	J34	522	8	150	314	2	0.85	1.64
P37	J46	J22	1054	4	150	0	0	0	0
P39	J48	J50	529	8	150	109	0.69	0.12	0.23
P41	J48	J52	351	4	150	64	1.65	0.9	2.56
P43	J54	J56	345	8	150	548	3.5	1.59	4.61
P45	J56	J58	184	8	150	488	3.11	0.68	3.71
P47	J58	J18	381	8	150	396	2.53	0.96	2.52
P49	J18	J60	364	4	150	53	1.34	0.64	1.76
P51	J62	J64	753	4	150	29	0.74	0.43	0.58
P53	J66	J68	354	8	150	658	4.2	2.29	6.46
P55	J70	J72	366	4	150	-23	0.6	0.14	0.39
P57	J38	J74	366	4	150	76	1.94	1.27	3.47
P59	J76	J78	156	8	150	607	3.87	0.86	5.55
P61	J78	J80	609	4	150	20	0.51	0.18	0.3
P63	J76	J82	707	4	150	7	0.19	0.03	0.05
P65	J56	J84	707	4	150	51	1.3	1.17	1.66
P67	J78	J54	197	8	150	575	3.67	0.99	5.03
P69	J54	J86	707	4	150	7	0.19	0.03	0.05
P71	J20	J48	583	8	150	197	1.26	0.4	0.69
P73	J88	J22	209	8	150	-86	0.55	0.03	0.15
P75	J24	J36	180	8	150	-125	0.8	0.05	0.3
P77	J90	J30	1861	8	150	511	3.26	7.53	4.05
P79	J92	J34	526	4	150	-82	2.08	2.08	3.96
P81	J50	J94	351	4	150	160	4.1	4.86	13.84
P83	J10	J76	124	8	150	624	3.98	0.73	5.85
P85	J50	J88	521	8	150	-73	0.47	0.06	0.11
P87	J66	J90	1105	8	150	552	3.52	5.15	4.66
P89	J74	J72	364	4	150	3	0.07	0	0.01
P91	J72	J58	1246	4	150	-56	1.43	2.46	1.97
P93	J74	J96	875	4	150	58	1.48	1.84	2.1
P95	J72	J98	157	4	150	6	0.16	0.01	0.03

Appendix A. Hydraulic Calculation Results
Pipe Network Hydraulics
Town of Norwood

Phase 2									
ID	Node		Length (ft)	Diameter (in)	C Value	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)
	From	To							
P101	J104	J102	984	6	150	45	0.51	0.18	0.18
P103	J88	J104	6258	6	150	119	1.35	6.92	1.11
P111	J10	J12	619	4	150	14	0.37	0.1	0.16
P113	J16	J66	600	16	150	1605	2.56	0.69	1.15
P119	J106	J112	724	16	150	1605	2.56	0.83	1.15
P125	J112	J118	343	16	150	1605	2.56	0.4	1.15
P13	J14	J16	516	16	150	1605	2.56	0.59	1.15
P133	J118	J14	513	16	150	1605	2.56	0.59	1.15
P135	J122	J124	625	4	150	-6	0.14	0.02	0.03
P137	J126	J128	631	4	150	-10	0.26	0.05	0.08
P139	J130	J132	637	4	150	-10	0.26	0.06	0.09
P141	J134	J68	643	4	150	-4	0.09	0.01	0.01
P143	J124	J10	266	8	150	759	4.84	2.23	8.4
P145	J128	J124	266	8	150	764	4.88	2.27	8.52
P147	J132	J128	266	8	150	774	4.94	2.32	8.73
P149	J68	J132	251	8	150	928	5.92	3.07	12.2
P15	J18	J20	1033	8	150	346	2.21	2.02	1.96
P151	J136	J32	522	4	150	0	0	0	0
P153	J34	J32	180	4	150	67	1.72	0.5	2.76
P155	J62	J20	1399	4	150	22	0.56	0.49	0.35
P157	J18	J62	366	4	150	84	2.15	1.53	4.19
P159	STORAGE_POND	J106	875	16	150	1605	2.56	1.01	1.15
P17	J22	J24	343	8	150	-264	1.69	0.41	1.19
P19	J26	J28	277	4	150	71	1.81	0.84	3.05
P21	J26	J30	520	8	150	-627	4	3.07	5.91
P23	J32	J24	533	4	150	39	0.99	0.53	1
P25	J34	J36	533	8	150	302	1.93	0.81	1.53
P27	J26	J38	184	8	150	552	3.53	0.86	4.67
P29	J40	J28	226	4	150	-6	0.14	0.01	0.03
P31	J28	J42	292	4	150	31	0.79	0.19	0.65
P33	J28	J44	288	4	150	23	0.58	0.11	0.37
P35	J38	J34	522	8	150	470	3	1.81	3.46
P37	J46	J22	1054	4	150	0	0	0	0
P39	J48	J50	529	8	150	241	1.54	0.53	1
P41	J48	J52	351	4	150	61	1.57	0.82	2.34
P43	J54	J56	345	8	150	667	4.26	2.29	6.63
P45	J56	J58	184	8	150	610	3.89	1.03	5.61
P47	J58	J18	381	8	150	515	3.29	1.56	4.1
P49	J18	J60	364	4	150	50	1.28	0.59	1.61
P51	J62	J64	753	4	150	27	0.7	0.4	0.53
P53	J66	J68	354	8	150	932	5.95	4.35	12.29
P55	J70	J72	366	4	150	-22	0.57	0.13	0.36
P57	J38	J74	366	4	150	65	1.66	0.95	2.6
P59	J76	J78	156	8	150	723	4.62	1.2	7.69
P61	J78	J80	609	4	150	19	0.49	0.17	0.27
P63	J76	J82	707	4	150	7	0.18	0.03	0.04
P65	J56	J84	707	4	150	49	1.24	1.07	1.52
P67	J78	J54	197	8	150	693	4.42	1.4	7.11
P69	J54	J86	707	4	150	7	0.18	0.03	0.04
P71	J20	J48	583	8	150	325	2.07	1.02	1.74
P73	J88	J22	209	8	150	-52	0.33	0.01	0.06
P75	J24	J36	180	8	150	-265	1.69	0.21	1.2
P77	J90	J30	1861	8	150	649	4.14	11.7	6.29
P79	J92	J34	526	4	150	-78	1.99	1.91	3.63
P81	J50	J94	351	4	150	153	3.91	4.45	12.68
P83	J10	J76	124	8	150	740	4.72	1	8.02
P85	J50	J88	521	8	150	67	0.43	0.05	0.09
P87	J66	J90	1105	8	150	673	4.3	7.44	6.74
P89	J74	J72	364	4	150	-5	0.13	0.01	0.02
P91	J72	J58	1246	4	150	-61	1.55	2.87	2.3
P93	J74	J96	875	4	150	55	1.41	1.68	1.92
P95	J72	J98	157	4	150	6	0.15	0	0.03
P97	J22	J100	2674	4	150	201	5.13	56.08	20.98
P99	J102	J104	1994	4	150	-11	0.29	0.18	0.09

Appendix A. Hydraulic Calculation Results
Pipe Network Hydraulics
Town of Norwood

Phase 3									
ID	Node		Length (ft)	Diameter (in)	C Value	Flow (gpm)	Velocity (ft/s)	Headloss (ft)	HL/1000 (ft/k-ft)
	From	To							
P101	J104	J102	984	6	150	37	0.42	0.12	0.13
P103	J88	J104	6258	6	150	97	1.1	4.73	0.76
P105	J106	J108	1118	6	150	234	2.65	4.31	3.86
P109	J16	J110	1108	4	150	97	2.47	5.99	5.4
P011	J10	J12	619	4	150	12	0.3	0.07	0.11
P111	J90	J110	606	6	150	25	0.28	0.04	0.06
P113	J16	J66	600	16	150	1332	2.12	0.49	0.81
P115	J112	J114	1115	4	150	98	2.49	6.15	5.52
P117	J114	J108	724	6	150	-234	2.65	2.79	3.86
P119	J106	J112	724	16	150	1726	2.75	0.95	1.32
P121	J116	J114	343	6	150	-168	1.91	0.72	2.1
P123	J116	J118	1113	4	150	-100	2.56	6.47	5.81
P125	J112	J118	343	16	150	1628	2.6	0.41	1.18
P127	J110	J120	513	6	150	-42	0.47	0.08	0.16
P129	J120	J116	516	6	150	-105	1.19	0.45	0.88
P013	J14	J16	516	16	150	1428	2.28	0.48	0.93
P131	J120	J14	1110	4	150	-100	2.55	6.38	5.75
P133	J118	J14	513	16	150	1528	2.44	0.54	1.05
P135	J122	J124	625	4	150	-5	0.12	0.01	0.02
P137	J126	J128	631	4	150	-8	0.21	0.04	0.06
P139	J130	J132	637	4	150	-8	0.21	0.04	0.06
P141	J134	J68	643	4	150	-3	0.08	0.01	0.01
P143	J124	J10	266	8	150	621	3.96	1.54	5.8
P145	J128	J124	266	8	150	626	3.99	1.56	5.88
P147	J132	J128	266	8	150	634	4.05	1.6	6.02
P149	J68	J132	251	8	150	759	4.84	2.12	8.41
P15	J18	J20	1033	8	150	284	1.81	1.4	1.36
P151	J136	J32	522	4	150	0	0	0	0
P153	J34	J32	180	4	150	54	1.39	0.33	1.86
P155	J62	J20	1399	4	150	18	0.47	0.35	0.25
P157	J18	J62	366	4	150	69	1.76	1.06	2.89
P159	STORAGE_POND	J106	875	16	150	1960	3.13	1.46	1.67
P17	J22	J24	343	8	150	-212	1.36	0.27	0.79
P19	J26	J28	277	4	150	58	1.47	0.58	2.08
P21	J26	J30	520	8	150	-507	3.24	2.07	3.99
P23	J32	J24	533	4	150	31	0.8	0.36	0.67
P25	J34	J36	533	8	150	244	1.56	0.55	1.03
P27	J26	J38	184	8	150	446	2.85	0.58	3.15
P29	J40	J28	226	4	150	-5	0.12	0	0.02
P31	J28	J42	292	4	150	25	0.64	0.13	0.44
P33	J28	J44	288	4	150	18	0.47	0.07	0.25
P35	J38	J34	522	8	150	380	2.43	1.22	2.33
P37	J46	J22	1054	4	150	0	0	0	0
P39	J48	J50	529	8	150	199	1.27	0.37	0.7
P41	J48	J52	351	4	150	50	1.28	0.56	1.6
P43	J54	J56	345	8	150	547	3.49	1.58	4.58
P45	J56	J58	184	8	150	500	3.19	0.72	3.88
P47	J58	J18	381	8	150	422	2.69	1.08	2.83
P49	J18	J60	364	4	150	41	1.04	0.4	1.1
P51	J62	J64	753	4	150	22	0.57	0.27	0.36
P53	J66	J68	354	8	150	762	4.86	3	8.47
P55	J70	J72	366	4	150	-18	0.46	0.09	0.25
P57	J38	J74	366	4	150	52	1.33	0.63	1.72
P59	J76	J78	156	8	150	592	3.78	0.83	5.31
P61	J78	J80	609	4	150	16	0.4	0.11	0.19
P63	J76	J82	707	4	150	6	0.15	0.02	0.03
P65	J56	J84	707	4	150	40	1.01	0.73	1.04
P67	J78	J54	197	8	150	568	3.62	0.97	4.91
P69	J54	J86	707	4	150	6	0.15	0.02	0.03
P71	J20	J48	583	8	150	267	1.7	0.71	1.21
P73	J88	J22	209	8	150	-39	0.25	0.01	0.04
P75	J24	J36	180	8	150	-213	1.36	0.14	0.8
P77	J90	J30	1861	8	150	525	3.35	7.9	4.24
P79	J92	J34	526	4	150	-63	1.62	1.3	2.48
P81	J50	J94	351	4	150	125	3.18	3.04	8.66
P83	J10	J76	124	8	150	606	3.87	0.69	5.54
P85	J50	J88	521	8	150	57	0.37	0.04	0.07
P87	J66	J90	1105	8	150	570	3.64	5.46	4.94
P89	J74	J72	364	4	150	-5	0.13	0.01	0.02
P91	J72	J58	1246	4	150	-51	1.29	2.03	1.63
P93	J74	J96	875	4	150	45	1.15	1.15	1.31
P95	J72	J98	157	4	150	5	0.12	0	0.02
P97	J22	J100	2674	4	150	164	4.17	38.32	14.33
P99	J102	J104	1994	4	150	-9	0.22	0.12	0.06

Appendix A. Hydraulic Calculation Results
Pipe Network Hydraulics
Town of Norwood

Notes:

C Value = friction coefficient

ft = feet

ft/k-ft = feet per thousand feet

ft/s = feet per second

gpm = gallons per minute

HL/1,000 = headloss per 1,000 feet of conduit

in = inches

Appendix B: Survey Results

SURVEY

1. Do you use domestic water for irrigation purposes?
☒ Yes
☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf
☒ 0-500 sf
☐ 500-1,000 sf
☐ 1,000-2,000 sf
☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☒ 1 day/week
☐ 3 days/week
☐ 5 days/week
☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes
☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☒ Yes
☐ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week
☒ 3 days/week
☐ 5 days/week
☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes
☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
☐ \$0
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes
☐ No

Additional Comments:

I AM NOT SURE THAT WATER IS AVAILABLE FOR THE EFFORT. MUCH MORE SUBSTITUTED INFORMATION IS NEEDED.

TOWN OF NORWOOD

P.O. BOX 528
 NORWOOD, CO 81423
 (970) 327-4288
 FAX: (970) 327-0451

Town of Norwood/Norwood Water Commission
 Raw Water System Feasibility Study
 Customer Survey

INTRODUCTION

The intent of this survey is to obtain a better understanding of Town and NWC customer irrigation patterns and general interest in the development of a Raw Water System. The information in this survey will be used to prepare the Town of Norwood Raw Water System Feasibility Study. This Study has been financed through a Colorado Water Conservation Board Grant. A public meeting will be held on Feb. 17, 2016 at 6:30 PM at the Norwood Community Center to provide additional information and obtain feedback. Please return completed survey to Town Hall. For more information call 327-4288.

SURVEY

1. Do you use domestic water for irrigation purposes?
☐ Yes
☒ No
2. Estimate of square footage of irrigated area
☐ 0 sf
☐ 0-500 sf
☐ 500-1,000 sf
☐ 1,000-2,000 sf
☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week
☐ 3 days/week
☐ 5 days/week
☐ 5 days/week
☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☐ Yes
☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes
☒ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week
☐ 3 days/week
☐ 5 days/week
☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes
☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
☐ \$
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes
☒ No

Additional Comments:

Yes. I support the idea for the people of Norwood, but I still could not afford the tap, ect.

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SURVEY

1. Do you use domestic water for irrigation purposes?
☒ Yes ☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☒ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week ☒ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes ☒ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week ☐ 3 days/week ☒ 5 days/week ☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ 0
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☐ No not sure

Additional Comments:

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SURVEY

1. Do you use domestic water for irrigation purposes?
☐ Yes ☒ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☐ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes ☐ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☒ No

Additional Comments:

- ① Current ditch system is proven.
- ② Severe drought could/would bankrupt a "new" delivery system.

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SURVEY

1. Do you use domestic water for irrigation purposes?
☒ Yes ☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☒ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☒ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☐ Yes ☒ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes ☒ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☒ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ N/A
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☒ No

Additional Comments:

I would suggest to stabilize water supply to town in general. Invest in that. Address water treatment.

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SURVEY

1. Do you use domestic water for irrigation purposes?
☐ Yes ☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☐ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes ☐ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☐ No

Additional Comments:

We live in Phoenix - this property is for sale so did not complete survey

Kennex B. Robertson

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SURVEY

1. Do you use domestic water for irrigation purposes?
☒ Yes ☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☒ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week ☒ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
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6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
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7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ 2,500
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

TOWN OF NORWOOD

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\$ I would want to know more as to what is being on.
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Additional Comments: I HAVE A shallow well in my yard THAT keeps water out of my BASEMENT. I Try To Keep The ground water down to a level That won't interfere with my house. So, I Run my Pump Approximately 3 or 4 days a week as long As The water level holds up. To water my Grass And Flowers in front yard. my wife waters with Town water a little bit Each day.

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\$1,000
9. In general, do you support the development of a separate Raw Water System for irrigation use?
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Additional Comments:

am on a fixed income + could not afford
\$3,200 to \$4,000

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☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday ☒ TWICE A MONTH
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
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8. If no to 7), for what amount would you consider purchasing a tap?
\$ 500
9. In general, do you support the development of a separate Raw Water System for irrigation use?
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Additional Comments:

A good idea but I can no longer afford the tap fee.

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\$ 2,000.00
9. In general, do you support the development of a separate Raw Water System for irrigation use?
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Additional Comments:

now I water a few flowers and a very small garden area. My increase would be to water the lawn

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Additional Comments:

We irrigate our vegetable gardens with drip irrigation. All landscape is xeriscape (no grass lawn).

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☒ Yes ☐ No *don't water grass in back, some xeriscape*
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☐ Yes ☐ No *Maybe, if installments*
8. If no to 7), for what amount would you consider purchasing a tap?
\$1,000
9. In general, do you support the development of a separate Raw Water System for irrigation use?
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Additional Comments:

Retired on a fixed income
Also catch rain water

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Personal + management are always VERY helpful.
They are always available when we have questions.

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7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$2,500 seems better considering is not affording this would be more doable with financing option / payment plan
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments: Yes Please. Love this idea.
See above.

TOWN OF NORWOOD

P.O. BOX 528
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(970) 327-4288
FAX: (970) 327-0451

Town of Norwood/Norwood Water Commission
Raw Water System Feasibility Study
Customer Survey

*Nina Kothe
1745 S. Pine
PO BOX 678
Norwood, CO 81423*

INTRODUCTION

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☒ Yes ☐ No *See below*
8. If no to 7), for what amount would you consider purchasing a tap?
\$1,500
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☐ No

Additional Comments:

*I have a couple of questions.
We have small yards in the Hornshead - South Pine
I wonder if you would allow 2 adjacent neighbors to share a tap (again small lots)
Also does that tap transfer with ownership?
I'll come to any public sessions you have.*

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\$1,000
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Additional Comments:

*Cost savings at water treatment should be very large!
Amortization of tap fees should be doable at \$2 / 1000 gallons.*

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\$ 2000 - 3200
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Additional Comments:

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Additional Comments: I am disappointed with the water commission for passing a vote to put the responsibility of the existing water meters on the property owners. My fear is they will install the raw water system the raise the rates down the road to expand the system. That will influence my decision to buy a tap.

Tom Kyle

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Additional Comments:

THIS PROJECT COULD REALLY HELP NORWOOD
TO BE GREENER—MORE BEAUTIFUL. THE
OLD-TIMERS TALK ABOUT HOW MUCH GREENER
THE TOWN USED TO BE. LET'S DO IT!

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☒ Yes ☐ No *DEPENDS ON RAIN*
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Additional Comments:

"Popcorn" tried to get this
going the whole time
he was on the board!

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Additional Comments:

* OF COURSE, A LOWER PRICE PER TAP WOULD BE NICE, BUT WE WOULD LIKE TO SEE THIS GO FORWARD.

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Additional Comments:

Would there be monthly fees in addition to the annual fee or tap fee?

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SURVEY

1. Do you use domestic water for irrigation purposes?
☐ Yes ☒ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☒ 1,000-2,000 sf ☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☒ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☐ Yes ☒ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☐ Yes ☒ No
6. If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☒ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ everyday
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ _____
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

TOWN OF NORWOOD

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(970) 327-4288
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8. If no to 7), for what amount would you consider purchasing a tap?
\$ 0
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Additional Comments:

Remember when you could afford to live in Norwood?
Now everytime you turn around, some entity seeks
more money. Perhaps we all could do with less.

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\$ 0
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Additional Comments:

WE HOPE OUR WATER COMMISSION
CAN WORK IT OUT,

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but increase area watered (grow more food)
7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ 700.00
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

The treated water has resulted in reduced yields from my garden since changing to chloramine. Raw water will help improve Veggie garden yield.

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☒ Yes ☒ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ 2500.00
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☐ No *I don't know enough to answer*

Additional Comments:

IS IRRIGATION THE SAME AS WATERING A GARDEN AND SPRINKLER USE FOR A LAWN?
DIDN'T KNOW IF IRRIGATION WAS ONLY CROP LAND. Confusing. Under wording

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☒ Yes *for less* ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ 7,000
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

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\$ _____
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

with raw water, we would significantly increase our irrigated sq footage and the 5 day/wk watering would probably be divided between lawn & trees, flowers, & garden areas

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- Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☒ No
- If no to 7), for what amount would you consider purchasing a tap?
\$ 2,500
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

It may be helpful to consider payment plans for the tap fee, for example, 'x' amount over the course of 5 years.

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☐ Yes ☒ No
- Estimate of square footage of irrigated area *We would like to irrigate*
☐ 0 sf ☐ 0-500 sf ☒ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
- On average, how often do you irrigate during the summer months? *we don't currently*
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
- Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
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- Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☐ Yes ☐ No *Maybe*
- If no to 7), for what amount would you consider purchasing a tap?
\$ 1,500
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

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Additional Comments:

IT would Be nice To have
water To keep
things Green

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7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No
8. If no to 7), for what amount would you consider purchasing a tap?
\$ _____
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

TOWN OF NORWOOD

P.O. BOX 528
NORWOOD, CO 81423
(970) 327-4288
FAX: (970) 327-0451

Town of Norwood/Norwood Water Commission
Raw Water System Feasibility Study
Customer Survey

INTRODUCTION

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SURVEY

1. Do you use domestic water for irrigation purposes?
☒ Yes ☐ No
2. Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
3. On average, how often do you irrigate during the summer months?
☐ 1 day/week ☒ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
4. Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
5. Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☒ Yes ☐ No
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7. Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No *If you could include the cost into monthly bill it*
8. If no to 7), for what amount would you consider purchasing a tap? *so everyone could afford it*
\$ _____
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☐ Yes ☐ No

Additional Comments: *bill a bill of 3 years or so to pay off tab as you use it.*

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Additional Comments:

Good idea
Ryan

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☐ Yes ☐ No *don't understand the difference \$100/yr vs \$2/keel seems steep*
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8. If no to 7), for what amount would you consider purchasing a tap?
\$ _____ *\$500 - \$1000*
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

The main reason I would want it is to:
1) reduce the budget of the treated water systems increase capacity for new taps
2) plants have trouble with treated water, which should be more expensive than raw water.
— Dan Grossman
Deer Park

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\$ 1,000
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Additional Comments:

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8. If no to 7), for what amount would you consider purchasing a tap?
\$ 1,500 to \$ 2,000
9. In general, do you support the development of a separate Raw Water System for irrigation use?
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Additional Comments:

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☐ Yes ☒ No
- If no to 7), for what amount would you consider purchasing a tap?
\$ 500 ~~3k~~
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

ABSOLUTELY

WAY TOO HIGH

TOWN OF NORWOOD

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\$ _____
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

GREAT PROGRAM. I SUPPORT BREAKING UP THE INITIAL TAP FEE TO 2 YRS. \$1,500.00 /YR. I THINK THE \$3,000 WOULD BE PROHIBITIVE FOR MANY PEOPLE. THANKS FOR YOUR EFFORTS! EXCELLENT.

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☐ Yes ☒ No
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- If no to 7), for what amount would you consider purchasing a tap?
\$ 2,000
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

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SURVEY

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☒ Yes ☐ No
- Estimate of square footage of irrigated area
☐ 0 sf ☐ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☒ 2,000-3,000 sf *4000 sf*
- On average, how often do you irrigate during the summer months?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☒ everyday *the garden. The*
- Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No *grass only as needed*
- Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☒ Yes ☐ No *(1x/week)*
- If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week ☐ 3 days/week ☐ 5 days/week ☒ everyday *but a little longer + mostly just the garden*
- Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No *but prefer less expensive or payment plan*
- If no to 7), for what amount would you consider purchasing a tap?
\$ _____
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

We need this to make Norwood more attractive.

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Additional Comments:

To me this is the single most important
issue in how livable Norwood is and it
would allow for positive and valuable growth
of the community

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Additional Comments:

THANKS

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Additional Comments:

~~How much~~ How much water is being offered for this Tap fee? how is it metered

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Town of Norwood/Norwood Water Commission
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David Royer
327-4185

INTRODUCTION

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SURVEY

- Do you use domestic water for irrigation purposes?
☒ Yes ☐ No *Very little*
- Estimate of square footage of irrigated area
☐ 0 sf ☒ 0-500 sf ☐ 500-1,000 sf ☐ 1,000-2,000 sf ☐ 2,000-3,000 sf
- On average, how often do you irrigate during the summer months?
☒ 1 day/week ☐ 3 days/week ☐ 5 days/week ☐ 5 days/week ☐ everyday
- Does the cost of irrigation water have an impact on how often and the how much you irrigate?
☒ Yes ☐ No
- Would you increase the area you irrigate if water was untreated and more affordable? An annual use fee of \$20 and annual water use fee of \$80/year (\$2 per 1,000 gallons) for an average user is anticipated.
☒ Yes ☐ No
- If untreated irrigation water was available and more affordable than domestic water how often would you irrigate?
☐ 1 day/week ☒ 3 days/week ☐ 5 days/week ☐ everyday
- Would you consider purchasing a tap in 2017 for the following one time tap fee range of \$3,200 to \$4,000?
☒ Yes ☐ No *Seems high*
- If no to 7), for what amount would you consider purchasing a tap?
\$ *2000*
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No *The price seems too high*

Additional Comments:

\$2.00/1000 gals isn't much less than the \$3.50/1000 gals for existing water price.

\$40 diff

Using
Treated water $40 \times 1000 \text{ gals} \times \$3.50/\text{yr} = \$140/\text{yr}$
Raw water $40 \times 1000 \times \$2.00/\text{yr} = \$80 + \$20 \text{ annual} = \100

TOWN OF NORWOOD

P.O. BOX 528
NORWOOD, CO 81423
(970) 327-4288
FAX: (970) 327-0451

Town of Norwood/Norwood Water Commission
Raw Water System Feasibility Study
Customer Survey

INTRODUCTION

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☐ Yes ☐ No *if I owned my own property*
- If no to 7), for what amount would you consider purchasing a tap?
\$ _____
- In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

I was on the NW Commis when shares of water were purchased. I learned that it is not that there is not enough water for our community, but that how it is managed is key. Developing a raw water system to complement our domestic water system is good management and wise long range planning. Mario Zappa always told me that the Town of Norwood sits on the most fertile soil on the mesa. I agree. Let's grow gardens and lawns. and less. This is a good project for a grant.

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8. If no to 7), for what amount would you consider purchasing a tap?
\$1,500
9. In general, do you support the development of a separate Raw Water System for irrigation use?
☒ Yes ☐ No

Additional Comments:

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Additional Comments:

Thank You water commission for
all your time on bringing this to Norwood!

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School

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Additional Comments:

hopefully the tap fee will be below
\$2000 / (payment plan)

Christ In Focus Church
1472 Spruce

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Additional Comments:

Would be great for the community

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Additional Comments:

DON'T UNDERSTAND USE FEE STRUCTURE, WHY NOT JUST ONE ANNUAL USE FEE?

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Additional Comments:



www.BikisWater.com