



LOS ALAMOS

County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda - Final Board of Public Utilities

*Jeff Johnson, Chair; Andrew Fraser, Vice-chair; Paul
Frederickson Stephen McLin and Kathleen Taylor, Members
Tim Glasco, Ex Officio Member
Harry Burgess, Ex Officio Member
Susan O'Leary, Council Liaison*

Wednesday, October 19, 2016

5:30 PM

1000 Central Avenue
BCC Room 110

REGULAR SESSION

Complete Board of Public Utilities agenda packets, past agendas, videos, legislation and minutes can be found online at <http://losalamos.legistar.com/Calenar.aspx>. Learn more about the Board of Public Utilities at <http://www.losalamosnm.us/gov/bcc/utilitiesboard>.

PUBLIC COMMENTS:

Please submit written comments to the Board at bpu@lacnm.us. Oral public comment is accepted during the two periods identified on the agenda and after initial board discussion on a business item, prior to accepting a main motion on an item. Oral comments should be limited to four minutes per person. Requests to make comments exceeding four minutes should be submitted to the Board in writing prior to the meeting. Individuals representing or making a combined statement for a large group may be allowed additional time at the discretion of the Board. Those making comments are encouraged to submit them in writing either during or after the meeting to be included in the minutes as attachments. Otherwise, oral public comments will be summarized in the minutes to give a brief succinct account of the overall substance of the person's comments.

1. **CALL TO ORDER**

2. **PUBLIC COMMENT**

This section of the agenda is reserved for comments from the public on Consent Agenda items or items that are not otherwise included in this agenda.

3. **APPROVAL OF AGENDA**

4. **PUBLIC HEARING(S)**

There are no public hearings scheduled for this meeting.

5. **CONSENT AGENDA**

The following items are presented for Board approval under a single motion unless any item is withdrawn by a member for further Board consideration in the "Business" section of the agenda.

CONSENT MOTION -

I move that the Board of Public Utilities approve the items on the Consent Agenda as presented and that the motions in the staff reports be included in the minutes for the record.

OR

I move that the Board of Public Utilities approve the items on the Consent Agenda as amended and that the motions contained in the staff reports, be included in the minutes for the record.

- 5.A.** [8694-16](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Board of Public Utilities

PG. 1 - 13

- 5.B.** [AGR0456-16](#) Approval of Services Agreement No. AGR17-914 with Alpha Southwest, Inc. in the amount of \$150,114.00 plus Applicable Gross Receipts Tax, For the Purpose of Inspection, Repair, and Ancillary Services on all County Well Pumps.

Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services

PG. 14 - 25

- 5.C.** [AGR0460-16](#) Approval of Task Order No. 1 Under Services Agreement No. AGR16-055 with AUI, Inc. in the amount of \$498,088.00, plus Applicable Gross Receipts Tax, for the Purpose of Wastewater Collection System's Trenchless Repair Replacement and Rehabilitation

Presenters: James Alarid, Deputy Utilities Manager - Engineering

PG. 26 - 28

6. BUSINESS

- 6.A.** [AGR0467-16](#) Approval of Services Agreement No. AGR17-10 with Siemens Industry, Inc. in the amount of \$311,000.00, plus Applicable Gross Receipts Tax, for the Purpose of Developing an Integrated Resource Plan and Approval of Related Budget Revision 2017-08

Presenters: Steve Cummins, Deputy Utilities Manager - Power Supply

PG. 29 - 34

PG. 29 - 34

- 6.B. [8311-16](#) Approval of Department of Public Utilities Mission, Vision and Values, Goals and Objectives
- Presenters:** Tim Glasco, Utilities Manager
- PG. 35 - 38*
- 6.C. [8458-16](#) Financial Policies Status and Implementation Plan
- Presenters:** Bob Westervelt, Deputy Utilities Manager - Finance/Admin
- PG. 39 - 51*
- 6.D. [8408-16](#) Rate Philosophy and Development of Rate Increase Policy
- Presenters:** Tim Glasco, Utilities Manager and Andrew Fraser, Vice Chair Board of Public Utilities
- PG. 52 - 54*
- 6.E. [8418-16](#) Water System Needs and Cost Structure Report Presentation
- Presenters:** Jack Richardson, Deputy Utilities Manager - GWS Services
- PG. 55 - 98*
7. **STATUS REPORTS**
- 7.A. [8693-16](#) Status Reports
- Presenters:** Board of Public Utilities
- PG. 99 - 111*
8. **BOARD BUSINESS**
- 8.A. Chair's Report
- 8.B. Board Member Reports
- 8.C. Utilities Manager's Report
- 8.D. County Manager's Report
- 8.E. Council Liaison's Report
- 8.F. Environmental Sustainability Board Liaison's Report

8.G. General Board Business**8.G.1. [7991-16](#)** Presentation of the 2016 Department of Public Utilities Employee Survey Results

Presenters: Julie Williams-Hill, Public Relations Manager

PG. 112 - 124

8.H. Approval of Board Expenses**8.I. Preview of Upcoming Agenda Items****8.I.1. [8699-16](#)** Tickler File for the Next 3 Months

Presenters: Jeff Johnson, Chair of the Board of Public Utilities

PG. 125 - 128

9. PUBLIC COMMENT

This section of the agenda is reserved for comments from the public on any items.

10. ADJOURNMENT

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the County Human Resources Division at 662-8040 at least one week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact the personnel in the Department of Public Utilities (505) 662-8132 if a summary or other type of accessible format is needed.



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 5.A
Index (Council Goals): BCC - N/A
Presenters: Board of Public Utilities
Legislative File: 8694-16

Title

Approval of Board of Public Utilities Meeting Minutes

Recommended Action

I move that the Board of Public Utilities approve the meeting minutes of September 21st, 2016 as presented.

Body

REQUESTED REVISIONS TO THE DRAFT MINUTES

Draft minutes are sent to members after each meeting for their review. Members may then send changes to be incorporated prior to final approval of the minutes at the next regular meeting. There were no changes.

Attachments

A - Draft BPU Regular Session Minutes - September 21st, 2016



LOS ALAMOS

County of Los Alamos
Minutes
Board of Public Utilities

1000 Central Avenue
Los Alamos, NM 87544

*Jeff Johnson, Chair; Andrew Fraser, Vice-chair; Paul Frederickson Stephen McLin and
Kathleen Taylor, Members
Tim Glasco, Ex Officio Member
Harry Burgess, Ex Officio Member
Susan O'Leary, Council Liaison*

Wednesday, September 21, 2016

5:30 PM

1000 Central Avenue
Council Chambers

REGULAR SESSION

1. CALL TO ORDER

**Present 5 - Chair Johnson, Vice-chair Fraser, Board Member Frederickson,
Board Member McLin and Board Member Taylor**

Deputy Utility Manager for Power Supply, Mr. Steve Cummins, attended in Mr. Glasco's place.

Deputy County Manager, Mr. Steve Lynne, attended in Mr. Burgess' place.

2. PUBLIC COMMENT

Mr. Johnson opened the floor for public comment on items on the Consent Agenda and for those not otherwise included on the agenda. There were no comments.

3. APPROVAL OF AGENDA

**Ms. Taylor moved that the agenda be approved as presented. The motion passed
by the following vote:**

**Yes: 5 - Chair Johnson, Vice-chair Fraser, Board Member Frederickson,
Board Member McLin and Board Member Taylor**

4. PUBLIC HEARING(S)

There were no public hearings scheduled for this meeting.

5. CONSENT AGENDA

Mr. Fraser moved that the Board of Public Utilities approve the items on the Consent Agenda as presented and that the motions contained in the staff reports be included in the minutes for the record. The motion passed by the following vote:

Yes: 5 - Chair Johnson, Vice-chair Fraser, Board Member Frederickson, Board Member McLin and Board Member Taylor

- 5.A. [8612-16](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Board of Public Utilities

I move that the Board of Public Utilities approve the meeting minutes of August 17th, 2016 as presented.

- 5.B. [AGR0458-16](#) Approval of Amendment No. 1 to Services Agreement No. AGR16-056 with AESI-US, Inc. in the amount of \$219,750.00, plus Applicable Gross Receipts Tax, for the Purpose of Support Services for North American Electric Reliability Corporation (NERC) / Western Electricity Coordinating Council (WECC) Cyber Security Standards

Presenters: James Alarid

I move that the Board of Public Utilities approve Amendment No. 1 to Services Agreement No. AGR16-056 with AESI-US, Inc. in the amount of \$219,750.00, plus Applicable Gross Receipts Tax, for the Purpose of Support Services for North American Electric Reliability Corporation (NERC) / Western Electricity Coordinating Council (WECC) Cyber Security Standards and forward to Council for approval.

- 5.C. [8573-16](#) Award of Bid No. 2017-08 for the Purpose of the East Road Gas and Electric Replacement Project with Paul Parker Construction, in the Amount of \$580,500.00, plus Applicable Gross Receipts Tax.

Presenters: James Alarid

I move that the Board of Public Utilities approve the Award of Bid No. 2017-08 for the Purpose of East Road Gas and Electric Replacement Project, with Paul Parker Construction, in the Amount of \$580,500.00 and a contingency in the amount of \$58,050.00, for a total of \$638,550.00, plus Applicable Gross Receipts Tax, and forward to Council for approval.

- 5.D. [8575-16](#) Approval of Change Order No. 2 to Bid No. 16-052 for the Purpose of Kwage Mesa Non-potable Water Line Replacement Project with Paul Parker Construction, for an Increase in the Contract Amount of \$31,000.00, for a new total of \$329,218.50, plus Applicable Gross Receipts Tax.

Presenters: James Alarid

I move that the Board of Public Utilities approve Change Order No. 2 to Bid No. 16-052 for the Purpose of the Kwage Mesa Non-potable Water Line Replacement Project with Paul Parker Construction for an increase in the contract amount of \$31,000.00, for a total contract amount of \$329,218.50, plus Applicable Gross Receipts Tax, and forward to Council for approval.

6. BUSINESS

6.A. [8580-16](#) Presentation from Molzen-Corbin & Associates, Inc. on the White Rock Water Resources Recovery Facility Preliminary Engineering Report

Presenters: James Alarid

Deputy Utility Manager of Engineering, Mr. James Alarid, presented this item. The following is the substance of the item being considered.

Mr. Alarid introduced Mr. Clayton TenEyck from Molzen-Corbin & Associates. Molzen-Corbin & Associates completed the preliminary engineering report (PER) for the replacement of the White Rock Wastewater Plant. The PER was presented and recommendations discussed.

The Board discussed this item and requested clarification where necessary.

6.B. [8611-16](#) Los Alamos County 2016 Comprehensive Plan Draft - Utilities Portion

Presenters: Planning and Zoning Commission , Philip Gursky and Tamara Baer

Planning and Zoning Commission Chair, Phil Gursky, presented this item. The following is the substance of the item being considered.

Mr. Gursky presented to the Board the draft of the Los Alamos County 2016 Comprehensive Plan. Besides clarifying the County's intentions and policies of what the County should expect from this Comp Plan, he focused on the areas of the plan that are particularly relevant to the Department of Public Utilities.

The Board discussed this item and requested clarification where necessary.

The following actions were identified for follow-up:

1) If members have questions or comments about the Comprehensive Plan, they will send them individually to Mr. Gursky or Tamara Baer. They will send their comments as private citizens, and their opinions will not necessarily reflect those of the Board.

Mr. Johnson called for a recess at 7:29 p.m. The meeting reconvened at 7:36 p.m.

6.C. [RE0326-16](#) Resolution No. 16-19; A Resolution Authorizing the County Council Chair or Los Alamos County Utilities Manager to Approve Submission of Completed Applications and Necessary Documents for 2017 Applications to the Water Trust Board for Funding for Non-Potable Water System Projects.

Presenters: James Alarid

Deputy Utility Manager of Engineering, Mr. James Alarid, presented this item. The following is the substance of the item being considered.

The Water Trust Board (WTB) issued a request for intents to apply for 2017 funding on August 8, 2016. The Notice of Intent to apply was due on August 26, 2016. The completed project application phase opens on September 6, 2016 and closes on October 3. The Department submitted two Intents to Apply to the WTB. These are for a project to construct a Bayo Booster Station Tank 2 and also a project to perform the design of future Non-potable Water System Expansion projects. These projects will expand non-potable water usage and will increase potable water conservation for irrigation at many County facilities. The Water Trust Board is scheduled to approve a list of projects in November 2016 to recommend to the 2017 Legislature for authorization. Applicants appearing on the WTB's list of recommended projects will be invited to submit a Readiness Application in 2017. This resolution also meets several other WTB requirements including acknowledging commitment to the implementation and administration of an Asset Management Plan and Authorize Required Match and Future Operating and Maintenance Costs.

The Board discussed this item and requested clarification where necessary.

The following actions were identified for follow-up:

- 1) Mr. Alarid will send a copy of the Non-potable Master Plan to Board members.

7. STATUS REPORTS

7.A. 8613-16 Status Reports

Presenters: Board of Public Utilities

The following informational status reports were provided to the Board in the agenda packet:

- 1) Electric Reliability Update
- 2) Accounts Receivables Report
- 3) Safety Report

8. BOARD BUSINESS

8.A. Chair's Report

Mr. Johnson reported on the following items:

- 1) Yesterday, Mr. Johnson gave the Board's annual presentation to Council in White Rock. He thought it went fairly well. The information presented were the topics discussed by the Board at previous meetings. He presented work that has been done in the past year, where things are headed from a BPU point of view, some of the larger projects the Department has undertaken this year, and major concerns for the future. Mr. Cummins accompanied Mr. Johnson to the meeting and provided valuable back-up.
- 2) The Board and Council have requested a special closed session on September 28th or 29th. It should not be more than two hours long. The purpose is to discuss the new UAMPS Small Modular Nuclear Reactor (SMR).
- 3) Mr. Johnson will be putting an item on the agenda October agenda. Last month, the Board voted to put strategic initiatives into the Board's Policies and Procedures Manual.

Staff asked Mr. Johnson to clarify what those strategic initiatives are. Mr. Johnson will put together a discussion about what he thinks are strategic initiatives to be included in the appendix and how to deal with adding new future strategic initiatives. He may have a recommend action for the Board.

8.B. Board Member Reports

Board members reported on the following items:

1) Mr. Frederickson - Mr. Frederickson and Ms. Taylor recently attended a meeting with staff in Utah to learn more about the UAMPS Small Modular Nuclear Reactor (SMR) Carbon Free Power Project (CFPP). Mr. Frederickson gave a report, which is included in the minutes as an attachment. Ms. Taylor was also asked to comment on her experience. The Board discussed some of the next steps in the project and staff was asked to provide some clarifying information.

2) Mr. McLin - Mr. McLin is the Board's representative on the County's Audit Committee. The audit is about half-way through with a completion time anticipated for the end of November. He will hopefully be able to give the Board some kind of a written summary at the November or December meeting. The committee is receiving e-mail updates and the audit is proceeding normally without any problems.

3) Mr. Johnson asked Ms. Taylor to report on her attendance at the recent Energy Storage Summit in Albuquerque. She found it to be a little disappointing. They only talked about lithium batteries. She thought they were going to explore different kinds of batteries. They talked about university projects that are trying to improve batteries. She didn't think there was much new information there. Mr. Cummins was asked to expand on his thoughts about the summit. The Board discussed some of the issues that were brought up at the summit.

8.C. Utilities Manager's Report

Mr. Glasco was absent. Mr. Steve Cummins attended in his absence. His report is included in the minutes as an attachment.

8.D. County Manager's Report

Mr. Burgess was absent. Mr. Steve Lynne attended in his absence. Mr. Lynne had nothing to report.

8.E. Council Liaison's Report

Ms. Susan O'Leary was absent. No report was given.

8.F. Environmental Sustainability Board Liaison's Report

An ESB liaison was not present. No report was given.

8.G. General Board Business

There was no general Board business.

8.H. Approval of Board Expenses

There were no Board expenses.

8.I. Preview of Upcoming Agenda Items

8.I.1. [8614-16](#) Tickler File for the Next 3 Months

Presenters: Board of Public Utilities

In addition to the items already listed in the tickler provided in the agenda packet, the following items were identified for the tickler for upcoming meetings:

- 1) 10/19/2016 - Approval of Strategic Initiatives Identified for Inclusion in the Appendix of the Board of Public Utilities Policies & Procedures Manual (Jeff Johnson)

9. PUBLIC COMMENT

Mr. Johnson opened the floor for public comment on any items. There were no comments.

10. ADJOURNMENT

The meeting adjourned at 8:26 p.m.

APPROVAL

Board of Public Utilities Chair Name

Board of Public Utilities Chair Signature

Date Approved by the Board

ATTACHMENT
OFFICER REPORTS
SUBMITTED AT THE MEETING

MANAGER'S REPORT

SEPTEMBER 21, 2016

1. At each Board members place is a schedule for the BPU tickler regarding the FER Implementation plan as directed in the Board's motion.
2. The US Army Corps of Engineers let a contract to Weil Construction Co. for installation of the butterfly valves on the vent shaft of the Abiquiu dam. Notice to Proceed was issued on September 19, and the construction period is supposed to be 180 days. The Corps is waiting on the contractor's submittal of a safety plan and schedule before actual work will begin.
3. Work has resumed on the Long Range Water Plan. A public meeting to discuss the Plan is scheduled for November 14, 2016, from 5:30 until 7:00 PM in the Council Chambers.
4. We met with the LA Fire Department and worked out a plan to resume fire hydrant testing in September, with a goal of completing this year's testing before freezing weather hits. A GWS crew person will accompany FD personnel in certain areas of town to assist in shutting the fire hydrant valves in order to avoid water hammer and the resulting line breaks.
5. Attended the UAMPS informational meeting in Salt Lake City on September 12th and 13th. Two Board members and two County Council members attended the meeting, where basic information about the project, legal obligations, and schedule and costs were presented and discussed.
6. An all-hands DPU meeting is scheduled for Wednesday, September 28, 2016 from 8:30 until 10:00 AM. BPU members are invited and encouraged to attend.
7. The Department of Energy published a Supplemental Notice of Proposed Rulemaking on September 2, 2016 concerning new regulations for gas-fired home furnaces. Basically it will ban new non-condensing furnaces over 55,000BTU within 5 years of the rule taking effect. Most home furnaces in Los Alamos County would be affected by this rule. Condensing furnaces must have plastic flue piping and the furnace room must have a drain installed to accept the condensate. There has not been a lot of press coverage of this rule, even though it will have potentially huge impacts on home-owners when they go to replace their old furnaces. There will likely be litigation over the rule, so it may not go into effect by the end of 2016 as the Administration has planned.

NuScale
Reactor Site
Fluor
UAMPS

NuScale

Developing an SMR: Small Modular Reactor
Headquarters: Corvales, Oregon
John Hopkins, CEO
Jose Reyes, Lead Engineer
Each module is a 76' x 15' 200 ton cylinder.
Maximum of twelve modules per reactor.
Inner cylinder at 6000 psi contains reaction, sends steam to turbine under another roof.
Began as collaboration with Oregon State University.
Contractor will build stainless steel cylinders.



Reactor Site

Considering site on DOE land near Idaho Falls, Idaho.

Mayor Rebecca Casper of Idaho Falls was at all meetings.

Central building has twelve concrete nooks to hold the twelve modules.

Buildings on two sides of this contain six turbines each to convert 6000psi steam to electricity.



FLUOR

Hundred year old fourtune 500 company in South Carolina that has built a large number of standard reactor facilities in the past 70 years and has agreed to construct the modular reactor facility for NuScale near Idaho Falls, Idaho,

UAMPS

- UAMPS is a joint action agency providing wholesale electricity and electric energy services to 45 public power utility members in eight western states. Established in 1980, UAMPS helps its members with planning, financing, development, acquisition, construction, operation and maintenance of various projects for the generation, supply, transmission and management of electric energy



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 5.B.
Index (Council Goals): BCC - N/A
Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File: AGR0456-16

Title

Approval of Services Agreement No. AGR17-914 with Alpha Southwest, Inc. in the amount of \$150,114.00 plus Applicable Gross Receipts Tax, For the Purpose of Inspection, Repair, and Ancillary Services on all County Well Pumps.

Recommended Action

I move that the Board of Public Utilities approve Services Agreement No. AGR17-914 with Alpha Southwest, Inc. in the amount of \$150,114.00 plus applicable gross receipts tax, for the purpose of Inspection, Repair, and Ancillary Services on all County Well Pumps.

Staff Recommendation

Staff recommends approval of the agreement per the motion as presented.

Body

The DPU is occasionally in need of services for inspection, repair and ancillary activities for our well and booster station pumps. The Water Production budget includes funds to cover the average estimated costs for these types of services. Some years no work is required on any of our major facility pumps or motors. Some years multiple facilities require servicing. This year, so far, the pump in Pajarito Well # 4 has failed. We need to pull this pump, troubleshoot it, repair it and return it to service. Alpha Southwest has a good history of providing these services to the DPU.

Our water production well system has enough source capacity to maintain adequate service to our customers during this temporary PW-4 well outage. The relatively wet summer season has again reduced water demand throughout the system and no water volume problems have, or are likely to, occur this year. However, we have historically operated PW-4 during the summer irrigation season because this well is powered by a natural gas engine, in lieu of electric power, and the cost of water production when we use this well is typically significantly lower than using the other water source wells. So, this summer, while we did not pump as much water as we historically have during the irrigation season, the water we did pump had a higher than usual production cost due to the fact that PW-4 was out of service.

The proposed agreement between Alpha Southwest and the DPU is a piggybacking off of the Albuquerque/Bernalillo County Water Utility Authority Contract # RFP 2013000021. This contract between ABCWUA and Alpha Southwest is for the same services as required by the DPU. This ABCWUA contract was competitively bid through the public procurement process when it was established. In utilizing this piggyback approach the DPU saves time and

administrative effort while securing good prices for these services.

Alternatives

The alternative approach to piggy backing off of the Albuquerque/Bernalillo County Water Utility Authority Contract for these services would be for the DPU to competitively bid this as a separate service contract. This would add significantly to the length of time required to acquire these services and would, in all likelihood, not provide for any lesser estimated costs - since the ABCWUA contract is for a higher quantity of work and was also competitively bid when it was initiated.

Fiscal and Staff Impact

Agreement amount Not to Exceed \$150,114.00. Estimated amount for PW 4 well pump is \$70,114 leaving \$80,000 remaining in the contract for services on other pumps.

Attachments

A - Agreement No. AGR17-914



**INCORPORATED COUNTY OF LOS ALAMOS
SERVICES AGREEMENT**

This **SERVICES AGREEMENT** ("Agreement") is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County"), and **Alpha Southwest, Inc.**, a New Mexico corporation ("Contractor"), to be effective for all purposes October 20, 2016.

WHEREAS, the County's Department of Public Utilities has a need for inspection, repair, and ancillary services on all County well pumps; and

WHEREAS, procurement of the Services was made in accordance with Los Alamos County Code of Ordinances Sec. 31-3(b)(4)(d) (procurement of services under an existing contract with another government agency) as the Albuquerque/Bernalillo County Water Utility Authority had publicly bid and competitively awarded to Contractor, contract numbered "RFP2013000021"; and

WHEREAS, the County's Board of Public Utilities approved this Agreement at a public meeting held on October 19, 2016; and

WHEREAS, Contractor will provide the Goods and Services, as described below, to County.

NOW, THEREFORE, for and in consideration of the premises and the covenants contained herein, County and Contractor agree as follows:

SECTION A. SERVICES: Contractor shall provide the following services:

- 1. Contractor Services.** Contractor shall provide all necessary staff and materials for removal, inspection, repair, and replacement of potable water well pumps on one or more County owned wells ("Work") following the issuance of a Task Order, depending on the needs established by the County Contractor agrees that Work shall also include potable and non-potable booster pumps and related appurtenances.
- 2. Mobilization of crew, rig, and crane to site and pulling of pump(s).** Contractor shall prepare the job site as identified in the Task Order, including but not limited to placement of necessary fencing, removal of fencing, well house building/house dismantling, and adequate dunnage to lay the piping on and mobilize equipment and installation rig as provided by the approved Task Order. Once all equipment and rig are mobilized as provided in the agreed upon Task Order, Contractor shall remove the pump(s), inspect the column pipe as the pump(s) is being pulled and note any deficiencies, transport of the pump(s) (a.k.a. bowl assembly), oil tubing and shafting to Contractors' shop in Albuquerque or approved vendor for disassembly and inspection to obtain current condition. Secure the job site and well head until pump(s) are replaced.
- 3. Inspection and Repair.**

Contractor shall inspect the inner column assembly for wear and damage, recondition or install new inner column assemblies as directed by County via approved Task Order, which may include reassembly of four complete joints of inner column assembly, check and straighten all remaining shafting. The Contractor will set up a meeting at their shop with the County's representative for an onsite inspection and confirmation of the necessary repairs or replacement of any new parts. The Contractor shall provide a quote to the County for the necessary repairs or replacement part(s). Re-install the well pump after approved repairs are made as directed by County in writing. Once the well pump(s) is installed the Contractor shall reconnect the discharge head and set the required feet of pump assembly back in to the well, set the right angle gear drive on the discharge head, stretch the pump, install and align the driveshaft, start-up the well pump, and run a check of the pumping assembly. Contractor shall disinfect the well by utilizing a chlorine basket with enough Sodium Hypochlorite to establish a residual of 50 parts per million ("PPM"). Upon completion of the pump installation the chlorinated water is to be mixed proportionately with a dechlorination agent which meets applicable state or federal standards. The dechlorination agent is to be injected into the pump discharge line as the water is going to waste out the discharge line until no chlorine is detected.

4. Deliverables.

- a. New or reconditioned column assembly parts and equipment, including new shafts, couplings, bearings, and pipe as directed and agreed upon by County.
- b. Install new or reconditioned bowl assemblies as agreed or directed by County.
- c. Reinstallation of all equipment into well/(s), start-up, and disinfection services pursuant to well design specifications or as directed by County.

SECTION B. TERM: The term of this Agreement shall commence October 20, 2016 and shall continue through October 19, 2020, with the option to extend the term for up to three (3) one-year periods, unless sooner terminated, as provided herein.

SECTION C. COMPENSATION:

- 1. Amount of Compensation.** County shall pay compensation for performance of the Services in an amount not to exceed ONE HUNDRED FIFTY THOUSAND ONE HUNDRED FOURTEEN DOLLARS (\$150,114.00), which amount does not include applicable New Mexico Gross Receipts Taxes ("NMGRT"). Compensation shall be paid in accordance with the rate schedule set out in Exhibit "A," attached hereto and made a part hereof for all purposes.
- 2. Monthly Invoices.** Contractor shall submit itemized invoices to County's Project Manager showing amount of compensation due, amount of any NMGRT, and total amount payable. Payment of undisputed amounts shall be due and payable thirty (30) days after County's receipt of the invoice. All disputes related to performance and payment shall be governed by the County's Procurement Code, Chapter 31.

SECTION D. TAXES: Contractor shall be solely responsible for timely and correctly billing, collecting and remitting all NMGRT levied on the amounts payable under this Agreement.

SECTION E. STATUS OF CONTRACTOR, STAFF, AND PERSONNEL: This Agreement calls for the performance of services by Contractor as an independent contractor. Contractor is not an agent or employee of County and will not be considered an employee of County for any purpose. Contractor, its agents or employees shall make no representation that they are County employees, nor shall they create the appearance of being employees by using a job or position

title on a name plate, business cards, or in any other manner, bearing County's name or logo. Neither Contractor nor any employee of Contractor shall be entitled to any benefits or compensation other than the compensation specified herein. Contractor shall have no authority to bind County to any agreement, contract, duty or obligation. Contractor shall make no representations that are intended to, or create the appearance of, binding County to any agreement, contract, duty, or obligation. Contractor shall have full power to continue any outside employment or business, to employ and discharge its employees or associates as it deems appropriate without interference from County; provided, however, that Contractor shall at all times during the term of this Agreement maintain the ability to perform the obligations in a professional, timely and reliable manner.

SECTION F. STANDARD OF PERFORMANCE: Contractor agrees and represents that it has and will maintain the personnel, experience and knowledge necessary to qualify it for the particular duties to be performed under this Agreement. Contractor shall perform the Services described herein in accordance with a standard that exceeds the industry standard of care for performance of the Services.

SECTION G. DELIVERABLES AND USE OF DOCUMENTS: All deliverables required under this Agreement, including material, products, reports, policies, procedures, software improvements, databases, and any other products and processes, whether in written or electronic form, shall remain the exclusive property of and shall inure to the benefit of County as works for hire; Contractor shall not use, sell, disclose, or obtain any other compensation for such works for hire. In addition, Contractor may not, with regard to all work, work product, deliverables or works for hire required by this Agreement, apply for, in its name or otherwise, any copyright, patent or other property right and acknowledges that any such property right created or developed remains the exclusive right of County. Contractor shall not use deliverables in any manner for any other purpose without the express written consent of County.

SECTION H. EMPLOYEES AND SUB-CONTRACTORS: Contractor shall be solely responsible for payment of wages, salary or benefits to any and all employees or contractors retained by Contractor in the performance of the Services. Contractor agrees to indemnify, defend and hold harmless County for any and all claims that may arise from Contractor's relationship to its employees and subcontractors.

SECTION I. INSURANCE: Contractor shall obtain and maintain insurance of the types and in the amounts set out below throughout the term of this Agreement with an insurer acceptable to County. Contractor shall assure that all subcontractors maintain like insurance. Compliance with the terms and conditions of this Section is a condition precedent to County's obligation to pay compensation for the Services and Contractor shall not provide any Services under this Agreement unless and until Contractor has met the requirements of this Section. County requires Certificates of Insurance or other evidence acceptable to County that Contractor has met its obligation to obtain and maintain insurance and to assure that subcontractors maintain like insurance. Should any of the policies described below be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. General Liability Insurance and Automobile Liability Insurance shall name County as an additional insured.

- 1. General Liability Insurance:** ONE MILLION DOLLARS (\$1,000,000.00) combined single limit per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate.

2. **Workers' Compensation:** In an amount as may be required by law. County may immediately terminate this Agreement if Contractor fails to comply with the Worker's Compensation Act and applicable rules when required to do so.
3. **Automobile Liability Insurance for Contractor and its Employees:** ONE MILLION DOLLARS (\$1,000,000.00) combined single limit per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate on any owned, and/or non-owned motor vehicles used in performing Services under this Agreement.
4. **Owner's and Contractor's Protective Liability Insurance:** Contractor shall provide, in the name of the Incorporated County of Los Alamos, protective/contractor liability insurance with the County named as the additional insured. The limits of liability shall be the same as specified in Paragraph (1) above, and shall include Explosion, Collapse and Underground Hazards coverage.
5. **Professional Liability Insurance:** shall be provided as may be applicable to the particular profession or service to be provided, with a limit of not less than \$1,000,000 each claim, with a \$2,000,000 annual aggregate, without any restrictive "negligent act, negligent error, or negligent omission" clause, and with coverage extending for a three (3) year period from completion of this contract, against any and all claims which may arise from the Contractor's negligent performance of work described herein.

SECTION J. RECORDS: Contractor shall maintain, throughout the term of this Agreement and for a period of six (6) years thereafter, records that indicate the date, time, and nature of the services rendered. Contractor shall make available, for inspection by County, all records, books of account, memoranda, and other documents pertaining to County at any reasonable time upon request.

SECTION K. APPLICABLE LAW: Contractor shall abide by all applicable federal, state and local laws, regulations, and policies and shall perform the Services in accordance with all applicable laws, regulations, and policies during the term of this Agreement. In any lawsuit or legal dispute arising from the operation of this Agreement, Contractor agrees that the laws of the State of New Mexico shall govern. Venue shall be in the First Judicial District Court of New Mexico in Los Alamos County, New Mexico.

SECTION L. NON-DISCRIMINATION: During the term of this Agreement, Contractor shall not discriminate against any employee or applicant for an employment position to be used in the performance of the obligations of Contractor under this Agreement, with regard to race, color, religion, sex, age, ethnicity, national origin, sexual orientation or gender identity, disability or veteran status.

SECTION M. INDEMNITY: Contractor shall indemnify, hold harmless and defend County, its Council members, employees, agents and representatives, from and against all liabilities, damages, claims, demands, actions (legal or equitable), and costs and expenses, including without limitation attorneys' fees, of any kind or nature, arising from Contractor's performance hereunder or breach hereof and the performance of Contractor's employees, agents, representatives and subcontractors.

SECTION N. FORCE MAJEURE: Neither County nor Contractor shall be liable for any delay in the performance of this Agreement, nor for any other breach, nor for any loss or damage arising

from uncontrollable forces such as fire, theft, storm, war, or any other force majeure that could not have been reasonably avoided by exercise of due diligence.

SECTION O. NON-ASSIGNMENT: Contractor may not assign this Agreement or any privileges or obligations herein without the prior written consent of County.

SECTION P. LICENSES: Contractor shall maintain all required licenses including, without limitation, all necessary professional and business licenses, throughout the term of this Agreement. Contractor shall require and shall assure that all of Contractor's employees and subcontractors maintain all required licenses including, without limitation, all necessary professional and business licenses.

SECTION Q. PROHIBITED INTERESTS: Contractor agrees that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. Contractor further agrees that it will not employ any person having such an interest to perform services under this Agreement. No County Council member or other elected official of County, or manager or employee of County shall solicit, demand, accept or agree to accept a gratuity or offer of employment contrary to Section 31-282 of the Los Alamos County Code.

SECTION R. TERMINATION:

- 1. Generally.** County may terminate this Agreement with or without cause upon ten (10) days prior written notice to Contractor. Upon such termination, Contractor shall be paid for Services actually completed to the satisfaction of County at the rate set out in Section C. Contractor shall render a final report of the Services performed to the date of termination and shall turn over to County originals of all materials prepared pursuant to this Agreement.
- 2. Funding.** This Agreement shall terminate without further action by County on the first day of any County fiscal year for which funds to pay compensation hereunder are not appropriated by County Council. County shall make reasonable efforts to give Contractor at least ninety (90) days advance notice that funds have not been and are not expected to be appropriated for that purpose.

SECTION S. NOTICE: Any notices required under this Agreement shall be made in writing, postage prepaid to the following addresses, and shall be deemed given upon hand delivery, verified delivery by telecopy (followed by copy sent by United States Mail), or three (3) days after deposit in the United States Mail:

County:
Deputy Utilities Manager (GWS)
Incorporated County of Los Alamos
1000 Central Avenue, Suite 130
Los Alamos, New Mexico 87544

Contractor:
Dave Yates, Vice Pres.
Alpha Southwest, Inc.
205 Rosmoor Road, SW
Albuquerque, New Mexico 87105

SECTION T. INVALIDITY OF PRIOR AGREEMENTS: This Agreement supersedes all prior contracts or agreements, either oral or written, that may exist between the parties with reference to the services described herein and expresses the entire agreement and understanding between the parties with reference to said services. It cannot be modified or changed by any oral promise made by any person, officer, or employee, nor shall any written modification of it be binding on County until approved in writing by both County and Contractor.

SECTION U. CAMPAIGN CONTRIBUTION DISCLOSURE FORM: A Campaign Contribution Disclosure Form is attached as Exhibit "B." Contractor must submit this form with this Agreement, if applicable and in accordance with Chapter 81 of the laws of 2006 of the State of New Mexico.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on the date first written above.

ATTEST

INCORPORATED COUNTY OF LOS ALAMOS

SHARON STOVER
COUNTY CLERK

BY: _____
TIM GLASCO **DATE**
UTILITIES MANAGER

Approved as to form:



KATHRYN S. THWAITS
ACTING COUNTY ATTORNEY

ALPHA SOUTHWEST, INC., A NEW MEXICO
CORPORATION

BY: _____

Exhibit "A"
AGR17-914

The following are the Parties' agreed upon pricing pursuant to the Albuquerque/Bernalillo County Water Utility Authority publicly bid and awarded Contract No. "RFP2013000021."

Item Description:	Unit Price:	Annual Price Increase:
Shop drawings, Reports, O&M Manuals, Calculations, Permits and Scheduling(TS-1)	\$65.50/Hour	5%
Work Site Preparation, Cleanup, Disinfection and Gathering Materials (TS-2)	\$69.00/Hour	10%
Pull and Reinstall Pumps with Related Equipment as Provided in the Scope or Approved Task Order (TS-3)	\$8.35/L.F.	10%
Lower Pump (TS-4)	\$24.75/L.F.	10%
Well Abandonment and Rehabilitation (TS-5)	\$220.00/Hour	10%
Well Inspection Video Surveys and Logs (TS-6)	\$1,210.00/Each	10%
Repair/Replacement of Well, Booster Station and Reservoir Equipment (Mechanical/Miscellaneous Laborer) (TS-7a)	\$69.00/Hour	10%
Repair/Replacement of Well, Booster Station and Reservoir Equipment (Journeyman Electrician) (TS-7b)	\$84.00/Hour	20%
Fabrication and Machine Shop Work (TS-8)	\$71.50/Hour	5%
Percent of Blue Book Price (Not to Exceed 100%) (TS-9)	100%	0%
Inspection Labor (TS-10)	\$65.50/Hour	5%
Percent Over Invoice for Repair Parts (TS-11)	1.29%	3%
Operation of Driver Equipment (TS-12)	\$73.50/Hour	5%
Jobsite Security (TS-13)	\$23.50/Hour	5%
Percent Over Invoice for Rental Equipment (TS-14)	1.15%	0%
Percent Over Invoice for Subcontract Work (TS-15)	1.15%	0%
Performance Evaluation of Wells, Well Pumps and Booster Pumps (TS-16)	\$73.50/Hour	5%

Notes:

- L.F. is price per Linear Foot.
- Prices do not include NMGRT.
- Annual increases are based on the County's fiscal year from July 1st through June 31st.
- Items that include a "TS-#" are tasks described in more detail and which are cross-referenced to the Albuquerque Bernalillo County Water Utility Authority RFP Solicitation No. P2013000021 released February 6, 2013. See attached.

Exhibit “B”
CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to Chapter 81, Laws of 2006, any prospective contractor seeking to enter into a contract with any state agency or local public body must file this form with that state agency or local public body. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two year period.

THIS FORM MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

“Applicable public official” means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

“Campaign Contribution” means a gift, subscription, loan, advance or deposit of money or other things of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official’s behalf for the purpose of electing the official to either statewide or local office. “Campaign Contribution” includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

“Contract” means any agreement for the procurement of items of tangible personal property, services, professional services, or construction.

“Family member” means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law.

“Pendency of the procurement process” means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

“Person” means any corporation, partnership, individual, joint venture, association or any other private legal entity.

“Prospective contractor” means a person who is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person qualifies for a sole source or a small purchase contract.

“Representative of a prospective contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

DISCLOSURE OF CONTRIBUTIONS: (Report any applicable contributions made to the following - COUNTY COUNCILORS: James Chrobocinski, Steve Girrens, Kristin Henderson, David Izraelevitz, Susan O’Leary, Rick Reiss, and Peter Sheehey.)

Contribution Made by: _____

Relation to Prospective Contractor: _____

Name of Applicable Public Official: _____

Date Contribution(s) Made: _____

Amount(s) of Contribution(s) _____

Nature of Contribution(s) _____

Purpose of Contribution(s) _____

Signature Date

Title (position)

—OR—

NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250) WERE MADE to an applicable public official by me, a family member or representative.

Signature Date

Title (position)



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 5.C.
Index (Council Goals): BCC - N/A
Presenters: James Alarid, Deputy Utilities Manager - Engineering
Legislative File: AGR0460-16

Title

Approval of Task Order No. 1 Under Services Agreement No. AGR16-055 with AUI, Inc. in the amount of \$498,088.00, plus Applicable Gross Receipts Tax, for the Purpose of Wastewater Collection System's Trenchless Repair Replacement and Rehabilitation

Recommended Action

I move that the Board of Public Utilities approve Task Order No. 1 Under Services Agreement No. AGR16-055 with AUI Inc., in the amount of \$498,088.00 and a contingency in the amount of \$76,000.00, for a total of \$574,088.00, plus applicable gross receipts tax, for the purpose of Wastewater Collection System's Trenchless Repair Replacement and Rehabilitation, and forward to Council for approval.

Staff Recommendation

Staff recommends the Board approve the motion as presented.

Body

This constitutes the first task order under the On-call Agreement executed earlier this calendar year with AUI, Inc., for the trenchless rehabilitation of sanitary sewers in the County. This first task order will include work on several segments of sanitary sewer in White Rock; more specifically, on Jemez, Cayenta and Mimbres roads. The sewer lines in this area have experienced a number of back-ups and blockages in recent years, despite of increased preventative maintenance efforts. Based on video inspection of the lines and assessment of the sewer collection system, the problem areas will be replaced with trenchless methods by this project.

Alternatives

Postponing the execution of these replacement items would allow for further deterioration of the sanitary sewers. The cost of repairs and rehabilitation would only increase in the future.

Fiscal and Staff Impact

\$425,000 has been carried forward from FY2016 and \$150,000 budgeted in FY2017. The total approved budget is \$575,000. Project management and administration will be performed by DPU engineering staff.

Attachments

A - Task Order No 1 to AGR16-055

TASK ORDER #01

**COUNTY OF LOS ALAMOS UTILITIES DEPARTMENT
PRICE AGREEMENT AGR 16-055**

**AUI Inc.
October 3, 2016**

PROJECT TITLE: Wastewater Collection System's Trenchless Repair Replacement and Rehabilitation

Description: The contractor shall provide services for complete or partial replacement and rehabilitation of sanitary wastewater collection system's ("SAS") segments, identified by the county, using approved trenchless technologies.

Estimated Project Term: 60 Calendar Days

1. Bid Item 01: Mobilization1 LS @ \$25,000.00 / LS = \$25,000.00
2. Bid Item 02: Demobilization.....1 LS @ \$7,500.00 / LS = \$7,500.00
3. Bid Item 04: Clean Water Act Compliance as Applicable,
Including Best Practices per Site.....4 EA @ \$555.00 / EA = \$ 2,220.00
4. Bid Item 07: Traffic Control..... 42 Days @ \$684.00 / Day = \$28,728.00
5. Bid Item 08: Furnish and Install 8" Diameter SAS
using owner approved Spiral Wound
Trenchless Technologies.....1,432 LF @ \$120.00 / LF = \$ 171,840.00
6. Bid Item 27: 4" Dia. SAS Service Line Installation
and Reconnection by Trenchless Technology, Up to 40 ft Long,
Clean-out, Regardless of Depth..... 1,300 FT @ \$103.00 / LF = \$ 133,900.00
7. Bid Item 28: Supply and Install 4" Clean-out in Existing SAS Service Line,
Including Fittings, Up to 8' in Depth..... 85 EA @ \$1,340.00 / EA = \$113,900.00
8. Bid Item 32: Landscape Restoration..... 1-Allowance @ \$10,000.00 / ALL = \$10,000.00
9. Bid Item 33: Specification Compliance Testing.....1-Allowance @ \$5,000.00 / ALL = \$5,000.00

Estimated Construction Cost: \$ 498,088.00 (less GRT)

Charge Code Number _____

Acceptance of Conditions and Items of Work

Department of Public Utilities: _____
Timothy A. Glasco, PE

Date

AUI Inc.: _____
Michael Rocco, CPE

10-3-16
Date





County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 6.A.
Index (Council Goals): BCC - N/A
Presenters: Steve Cummins, Deputy Utilities Manager - Power Supply
Legislative File: AGR0467-16

Title

Approval of Services Agreement No. AGR17-10 with Siemens Industry, Inc. in the amount of \$311,000.00, plus Applicable Gross Receipts Tax, for the Purpose of Developing an Integrated Resource Plan and Approval of Related Budget Revision 2017-08

Recommended Action

I move that the Board of Public Utilities approve Services Agreement No. AGR17-10 with Siemens Industry, Inc., in a form acceptable to the County Attorney, in the amount of \$311,000.00 and a contingency in the amount of \$21,100.00, for a total of \$332,100.00, plus applicable gross receipts tax, for the purpose of Development of an Integrated Resource Plan. I further move that the Board of Public Utilities approve the related Budget Revision No. 2017-08 in the amount of \$132,100.00 and forward both to Council for approval.

Staff Recommendation

Staff recommends approval of the motion as presented.

Body

The County has partnered with DOE-LANL through the Electric Coordination Agreement (ECA) since 1985 to meet the electrical power needs of both parties. The current ECA expires June 30, 2025. This partnership is often referred to as the Los Alamos Power Pool (LAPP). Since 1985 the LAPP has developed and maintained a Power Supply Study, commonly referred to as an integrated resource plan, for planning purposes.

An integrated resource plan, or IRP, is a utility plan for meeting forecasted annual peak and energy demand, plus some established reserve margin, through a combination of supply-side and demand-side resources over a specified future period. IRPs compare the Levelized Cost of Electricity (LCOE) for generation resource options while also considering utility specific goals and objectives in the planning process.

While both Los Alamos County and Los Alamos National Laboratory believe it is beneficial to continue the ECA post 2025, a change in philosophy on generating assets will likely affect future agreements. Today, LANL and the County have different goals and objective to meet their current and forecasted energy demands. Each party is considering different replacement resources, either through owning generation assets or through power purchase agreements. In addition the County and DOE-LANL have different targets for reducing greenhouse gas emissions, particularly carbon dioxide emissions.

During the first quarter of 2016 the Board of Public Utilities adopted a Strategic Policy for Electrical Energy Resources and Distributed Energy Resources (DER) to meet our goal of being carbon neutral electrical energy provider by 2040. See Attachment C.

Because of the change in philosophy, DPU staff is recommending that the County have a new IRP developed with two primary objectives;

First, help guide near-term decisions under the requirements of the current ECA between LAC and DOE-LANL, while also recommending various options for a post 2025 ECA that may be beneficial to both parties.

Second, help guide near-term and long-term decisions in multiple areas as DPU implements the policies adopted by the Board of Public Utilities. The IRP will evaluate a comprehensive range of demand-side and supply-side resources over the period 2017-2036.

Currently DPU is evaluating our further participation through the Utah Association of Municipal Power Systems (UAMPS) in the Carbon Free Power Project (CFPP) developing a 600 megawatt capacity small modular reactor nuclear power plant. DPU is also faced with a decision on continued participation in the San Juan Generating Station post 2022. The IRP will assist DPU staff, Board and Council in making these decisions by looking at all of the options available to the County for meeting our electric demands while considering DPU's strategic initiatives. The IRP will compare options based on cost, stability and environmental stewardship.

A draft of the IRP is scheduled to be completed by March 1, 2017. DPU staff also plans on making a recommendation to the Utilities Board in March or April of 2017 on participation in Phase 2, Site Characterization, of the CFPP.

This contract will allow staff at their discretion to have the contractor provide an update of the IRP 18 to 24 months after its completion in 2017. The update will coincide with two critical decision points related to the San Juan Generating Station and further development of the CFPP using the most current information available at that time (i.e. cost of fuel, changes in environmental regulation and changes in technology options available). Should staff request this update, the cost is already included in the overall contract amount of \$311,000 and will not exceed \$100,000.

The development of the IRP will greatly assist staff in navigating the multitude of options available to the County for meeting their electrical energy resource needs while considering BPU's strategic initiatives.

Alternatives

If the board chooses not to approve this contract, DPU staff will need to rely on other methods of comparing generation resource options while considering the Strategic policies adopted by the board. The information used may be current but staff will not have the ability to change the variables to see what the cost of the alternatives may be over the planning period.

Fiscal and Staff Impact

This study was budgeted at \$200,000 in the FY2017 budget. A budget adjustment of \$132,100.00 is required.

Attachments

At the time of agenda publication, AGR17-10 was still pending legal review and was not yet

ready. A hard-copy will be provided to the Board at the meeting.

A - Budget Revision 2017-08

B - Strategic Policies for Energy Resources

BUDGET REVISION FORM

DATE to be submitted to Board: October 19, 2016
 DATE to be submitted to Council: **October 25, 2016**

REVISION NO: 2017-08

DEPARTMENT: Utilities - Electric Production

PREPARED BY: Finance

BATCH NUMBER:

DATE POSTED:

**FUND BALANCES OR
 RETAINED EARNINGS:**

Fund Account / Code/ (ss# - internal use only)	Account Title	From (-)	To (+)
511-2989	Electric Production Fund Balance	132,100	

**REVENUES OR
 TRANSFERS IN:**

Fund Account / Code/ (ss# - internal use only)	Account Title	From (+)	To (-)

**EXPENDITURES/EXPENSES OR
 TRANSFERS OUT:**

Fund Account / Code/ (ss# - internal use only)	Account Title	From (-)	To (+)
EP3209 8369	Electric Production Contract Admin		132,100
TOTALS		132,100	132,100

JUSTIFICATION AND FISCAL IMPACT:

Justification: This budget revision increases the budget in the Electric Production subfund by \$132,100 for an updated Integrated Resource Plan (IRP). The county partners with DOE-LANL through the Electric Coordination Agreement (known as the Los Alamos Power Pool). An IRP is a power supply study is a utility plan for meeting forecasted annual peak and energy demand, please established reserve margin through a combination of supply-side and demand-side resources.

Fiscal Impact: The impact of this revision to the Electric Production Fund is an increase in expenses and a decrease in fund balance of \$132,100.

DATE APPROVED:	January 20, 2016
TITLE:	Strategic Policy for Electrical Energy Resources

The Board of Public Utilities adopted, as part of a strategic policy, the following resource recommendations adapted from the 7 July 2015 “Future Electrical Energy Resources” report:

1. The definition of “carbon-neutral electrical energy provider” adopted by the Board of Public Utilities on January 20, 2016 should accompany or be included in board’s “carbon neutrality” goal.
2. Incorporate “environmental impact, specifically greenhouse gas production,” as a factor to be considered in all resource decisions.
3. Encourage more efficient use (conservation) of electrical energy by Los Alamos County consumers.
4. Support replacement of petroleum-fueled motor vehicles with all-electric vehicles. Consider locating more electric vehicle charging stations around the County or at LANL.
5. Maintain and operate the Abiquiu and El Vado hydroelectric plants as the backbone of the Los Alamos County long-term future electrical supply.
6. Plan to exit San Juan Generating Station share ownership in the mid-2020’s, under the most opportune circumstances.
7. Explore sale of the Laramie River Station purchased power agreement. Sell if and when economically feasible and consistent with the needs of the Electric Coordination Agreement Pool, considering the continued carbon production and increasing regulatory risks associated with that plant.
8. Continue to explore participation in the UAMPS nuclear power project as a replacement source of base power, carefully considering plant safety, realistic life-cycle costs, and potential for a cooperative power-sharing arrangement with DOE/LANL after 2025.
9. Pursue access (transfer or long-term lease) to suitable utility-scale photo-voltaic generation sites presently owned by DOE/LANL.
10. Monitor feasibility and costs for battery storage, including at least Li-ion and Vd-flow batteries.
11. Explore feasibility (including access to present DOE/LANL lands) and estimate costs of pumped hydro storage somewhere within Los Alamos County.
12. Evaluate feasibility, including market interest, for a community solar garden if bandwidth or other limits are not being approached by individual installations.
13. Explore current interest in a hydroelectric project at Cochiti Dam with the Pueblo.

DATE APPROVED:	March 16, 2016
TITLE:	Strategic Policy for Distributed Energy Resources (DER) and Rate Structure

The Board of Public Utilities adopted, as part of a strategic policy, the following recommendations from the 7 July 2015 “Future Electrical Energy Resources” report:

1. Complete smart meter implementation for all customers.
2. Develop an engineering model of the distribution system that will indicate how much DER generation can safely be absorbed.
3. Complete studies to determine how much DER generation can be tolerated before causing an unacceptable number of bandwidth exceedances.
4. Establish limits, based on DER generation absorption and bandwidth exceedance considerations, on how much DER generation can be tolerated in the system. Update these limits as necessary. Make it clear that permit issuance will be suspended once those limits have been reached pending expansion of system tolerance of increased DER generation.
5. Require smart inverters (at least “Phase 1”) on new DER systems as they become available. After smart inverters are available, all DER system inverter replacements should be of the smart type.
6. It clear in DER installation permits that rates and rate structures are not guaranteed to any point in the future.
7. Determine whether utility-scale, circuit, or neighborhood scale DER storage, or combination(s) of these approaches make the most sense technically and economically for firming DER generation. Take that determination into account in any rate structure.
8. large customers, require or encourage (via rates) that at least large loads be dispatchable. County government and the Department of Public Utilities can and should lead by example.
9. For large DER producers, require or encourage (via rates) dispatchable storage and generation and Phase 2 or 3 inverters as they become available. The County government and the Department of Public Utilities can and should lead by example.
10. All DPU customers (DER and non-DER) should be charged the same appropriate rate(s) for all services and energy (not just net energy) supplied by the utility.
11. Implement Time-of-Use pricing for both consumption and generation once smart meters are available to do so.
12. DER producers should be paid for the power they supply to the utility based on at least the average estimated avoided cost for the time period in which it is supplied. The rate(s) should reflect whether the power is firm and whether it is dispatchable.
13. Consider whether or not a non-economic Value-of-Solar Tariff should be a part of the reimbursement rate structure for DER generation and how it should be phased out as solar benefits relative to other non-carbon sources decline.



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 6.B.
Index (Council Goals): BCC - N/A
Presenters: Tim Glasco, Utilities Manager
Legislative File: 8311-16

Title

Approval of Department of Public Utilities Mission, Vision and Values, Goals and Objectives

Recommended Action

I move that the Board of Public Utilities affirm the existing Mission, Vision and Values statements, and adopt the FY2018 Goals and Objectives as presented.

Staff Recommendation

Staff recommends adoption of the FY2018 Objectives and Goals and affirmation of the existing Mission, Vision and Values statements.

Body

The DPU held our annual Strategic Planning Meeting on August 29th and 30th of this year. At that time the Mission, Vision and Values were evaluated to see if changes were required. Input from the Utilities Board was that, unless DPU staff felt that changes were necessary, then the existing statements were acceptable for another year. Staff did not feel that circumstances had changed enough to justify revising the Mission, Vision and Values statements.

After some discussion it was agreed that the objectives previously referred to as "Strategic Objectives" are more properly "Goals". Similarly, "Long Term Goals" were changed to "Objectives", and "Short Term Goals" were changed to "Action Plans". The new focus areas were somewhat changed to better reflect our actual focus areas. Therefore, the "Customer Focus" area became "Customers and Community", while "Operations Focus" became "Operations and Performance". Goals were also simplified to the list as shown in the attachment. Basically, there is one overall Goal attached to each focus area, with one or more objectives under each goal. As stated above, the short-term goals are now called "Action Plans", and correspond to the work the DPU will be doing over the coming year to ultimately accomplish the Goals and Objectives.

Many of the objectives remain the same as previous years, such as reducing unaccounted for water to 2% by 2030, while some became more general such as shooting for "high customer service ratings" rather than a specific number. The Partnerships objectives were also generalized to annually initiate conversation with our partners to look for new opportunities rather than specifying a number of new initiatives that would be launched. It was agreed that some of the specific numbers we have now in our Objectives may need to be revisited in the future if it turns out they are unrealistic. Examples of this are the 2%

unaccounted for water, sewer overflow rate per mile of pipe and the 3% improved heating efficiency objectives.

The Mission Vision and Values statements are provided below for reference. The revised Goals and Objectives are provided in the attachment.

MISSION

Provide safe and reliable utility services in an economically and environmentally sustainable fashion.

VISION

Be a high-performing utility matched to our community, contributing to its future with diversified and innovative utility solutions.

VALUES

We value our:

CUSTOMERS by being service oriented and fiscally responsible;

EMPLOYEES AND PARTNERSHIPS by being a safe, ethical and professional organization that encourages continuous learning;

NATURAL RESOURCES through innovative and progressive solutions;

COMMUNITY by being communicative, organized and transparent.

Alternatives

The Board can accept the Mission, Vision and Values as retained by the DPU, or change them. Similarly, the Board can change the Goals and Objectives if necessary.

Fiscal and Staff Impact

None

Attachments

A - DPU Goals for FY2018

On August 29-30, 2016, the Department of Public Utilities Senior Management Team held its annual Strategic Planning Workshop. The team reviewed previously approved goals and objectives and revised them as necessary.

These were presented to the Board of Public Utilities for approval on October 19th, 2016.

FOCUS AREA - OPERATIONS & PERFORMANCE

GOAL - 1.0 Provide safe and reliable utility services.

- 1.1 OBJECTIVE - WATER (WP/NP/DW) - Efficiently deliver safe and reliable water utility services.
- 1.2 OBJECTIVE - WATER (DW) - Reduce unaccounted for water to < half of the national average by 2030.
- 1.3 OBJECTIVE - GAS - Efficiently deliver safe and reliable gas utility services.
- 1.4 OBJECTIVE - SEWER (WWC & WWT) - Efficiently deliver safe and reliable sewer utility services.
- 1.5 OBJECTIVE - SEWER (WWC) - Sewer overflow per 100 miles of mainline pipe will be less than half of the national average by 2035.
- 1.6 OBJECTIVE - ELECTRIC (EP) - Efficiently deliver safe and reliable electric production utility services.
- 1.7 OBJECTIVE - ELECTRIC (ED) - Efficiently deliver safe and reliable electric distribution utility services.
- 1.8 OBJECTIVE - BUSINESS SYSTEMS - Efficiently implement and maintain safe, secure and reliable business systems.
- 1.9 OBJECTIVE - Utility control and mapping systems and processes are accurate, safe and secure.
- 1.10 OBJECTIVE - Develop a culture of continuous improvement.

FOCUS AREA - FINANCIAL PERFORMANCE

GOAL - 2.0 Achieve and maintain excellence in financial performance.

- 2.1 OBJECTIVE - Utilize revenues to provide a high-level of service while keeping rates competitive with similar utilities.
- 2.2 OBJECTIVE - Conduct cost of service studies for each utility at least every 5 years.
- 2.3 OBJECTIVE - Meet financial plan targets by 2025.

FOCUS AREA - CUSTOMERS & COMMUNITY

GOAL - 3.0 Be a customer service oriented organization that is communicative, efficient, and transparent.

- 3.1 OBJECTIVE - Customer service processes and systems are efficient and user-friendly.
- 3.2 OBJECTIVE - Stakeholders are engaged in and informed about Utilities operations affecting the community.

FOCUS AREA - WORKFORCE

GOAL - 4.0 Sustain a capable, satisfied, engaged, ethical and safe workforce focused on customer service.

- 4.1 OBJECTIVE - Leaders invest in employee training and professional development.
- 4.2 OBJECTIVE - Employees promote a culture of safe and ethical behavior.
- 4.3 OBJECTIVE - Employees are engaged, satisfied and fairly compensated.

FOCUS AREA - ENVIRONMENTAL SUSTAINABILITY

GOAL - 5.0 Achieve environmental sustainability.

- 5.1 OBJECTIVE - ELECTRIC (EP & ED) Be a carbon neutral electric provider by 2040.
- 5.2 OBJECTIVE - ELECTRIC (ED) - Electrical efficiency is promoted through targeted energy conservation programs.
- 5.3 OBJECTIVE - WATER (DW) - Per capita per day potable water use is reduced by 12% by 2050.
- 5.4 OBJECTIVE - GAS - Heating efficiency is improved to reduce gas usage by 3% by 2030.
- 5.5 OBJECTIVE - SEWER (WWT) - Class 1A effluent water is provided in White Rock by 2020.

FOCUS AREA - PARTNERSHIPS

GOAL - 6.0 Develop and strengthen partnerships with stakeholders.

- 6.1 OBJECTIVE - Communicate with stakeholders to identify new potential mutually beneficial partnering opportunities.
- 6.2 OBJECTIVE - Communicate with stakeholders to strengthen existing partnerships.



County of Los Alamos

Los Alamos, NM 87544
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Staff Report

October 19, 2016

Agenda No.: 6.C.
Index (Council Goals): BCC - N/A
Presenters: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File: 8458-16

Title

Financial Policies Status and Implementation Plan

Recommended Action

N/A - Discussion item only

Staff Recommendation

N/A - Discussion item only

Body

With adoption of a formal policy for desired cash balances for the Utilities funds, initial steps for implementation involve determination of current status, followed by consideration of methods and alternatives for resolving differences.

Status of the Utilities Department's cash position as relates to the Board adopted financial policies is presented in two different formats as Exhibits A and B attached herewith. Exhibit A shows reserve status by reserve category, which allows the reader to compare requirements in each category between the individual utilities. This presentation also shows the definition of the target and, if applicable, the floor amount for each reserve category, per the adopted policy. Exhibit B shows reserve status by Utility, which shows the total amount over or under policy targets by sub fund. This is important as each fund is required to "stand alone", meeting policy targets with cash designated as held within the specific sub-fund. The first action toward implementation will be to transfer available cash within each utility into the various reserve categories.

As shown on the exhibits, in total the department has sufficient cash reserves to meet minimum ("floor") policy requirements, but the sewer sub fund does have a rather significant cash shortage, as does electric to a much lesser extent. Gas and water are sufficiently funded compared to policy "floors"

Compared to target amounts, cash reserves in both the sewer and the electric sub-funds do have significant shortages. Gas and Water remain adequately funded compared to policy targets.

Correction or adjustment of cash position as relates to policy targets can be accomplished through various actions, most notably adjustment of rates, adjustment of operational plans and budgets, adjustment of capital plans and budgets, issuance of debt, or a combination of those things. The report on this evening's agenda on the status of the water system shows

how this analysis would proceed and will be discussed at length during that agenda topic. The analysis presented demonstrates the importance of balancing rate actions with operational plans to maintain sufficient cash without constantly reacting to what are essentially short term variables. This approach is supported in the policies by the language that allows the department to develop corrective actions within reasonable time frames to correct variances from cash targets. A similar analysis will be completed as part of the normal budget process henceforth.

Alternatives

N/A - Discussion item only

Fiscal and Staff Impact

No immediate impact. We have sufficient reserves to meet minimum requirements overall. Fiscal impact to individual funds in terms of rate impacts and operational and capital plans will be determined during planning and normal budgetary cycles.

Attachments

A - Reserve Status by Reserve Category

B - Reserve Status by Utility

RESERVE STATUS BY RESERVE CATEGORY

Operations Reserves not including depreciation, debt service, or commodity purchases

target: 180 days budgeted O&M
 floor: 90 days budgeted O&M

Electric Utility Distribution only. Production included in cost of power below

FY17 Budget O&M - Distribution \$3,658,263

Target \$1,829,132
 Floor \$914,566
 \$2,238,139

Gas Utility

FY17 Budget O&M \$1,988,668

Target \$994,334
 Floor \$497,167
 \$6,357,139

Water Utility \$3M well replacement not included but is budgeted to fund through cash reserves

FY17 Budget O&M - Production \$3,042,938
 FY17 Budget O&M - Distribution \$2,163,228
 FY17 Budget O&M - Non Potable \$642,187

Target \$2,924,177
 Floor \$1,462,088
 \$11,200,648

Sewer Utility

FY17 Budget O&M \$3,295,427

Target \$1,647,714
 Floor \$823,857
 -\$643,319

RESERVE STATUS BY RESERVE CATEGORY

8/31/2016 cash balance

Capital Expenditures Reserve FY17 YE Balance, per capital annuity worksheets with minimum as define below
minimum: annual depreciation amount plus 2.5%

Electric Utility
minimum ann'l depr. + 2.5% \$6,083,754
Capital annuity Worksheet \$3,746,650

Amount \$6,083,754 \$8,911,057

Gas Utility
minimum ann'l depr. + 2.5% \$386,911
Capital annuity Worksheet \$603,092

Amount \$603,092 \$0

Water Utility
minimum ann'l depr. + 2.5% \$2,085,473
Capital annuity Worksheet \$5,107,664

Amount \$5,107,664 \$0

Sewer Utility
minimum ann'l depr. + 2.5% \$861,219
Capital annuity Worksheet \$1,902,725

Amount \$1,902,725 \$0

RESERVE STATUS BY RESERVE CATEGORY

8/31/2016 cash balance

Contingency Reserve

amount: replacement cost of single largest piece of equipment
will be identified by asset management team

Electric Utility

FY15 gross plant in service \$166,867,964
(for reference) 1% gross plant in service \$1,668,680
Department recommendation \$500,000 substation \$0

Gas Utility

FY15 gross plant in service \$15,307,977
(for reference) 1% gross plant in service \$153,080
Department recommendation \$250,000 regulator station \$0

Water Utility

FY15 gross plant in service \$83,748,255
(for reference) 1% gross plant in service \$837,483
Department recommendation \$750,000 Well Pump \$0

Sewer Utility

FY15 gross plant in service \$41,507,545
(for reference) 1% gross plant in service \$415,075
Department recommendation \$350,000 blower, belt press, etc. \$0

RESERVE STATUS BY RESERVE CATEGORY

8/31/2016 cash balance

Debt Service Reserve

amount as required by bond indenture or debt agreements

Electric Utility

\$3,793,750

\$3,833,939

Gas Utility

\$0

\$0

Water Utility

\$254,182

\$201,222

Sewer Utility

\$1,155,799

\$1,362,985

Rate Stabilization Reserve

target: 10 years average historical cost times 12 months projected consumption

floor: 10 years average historical cost times 180 days projected consumption

Electric Utility

LAPP avg cost of power / FY17 projected quantity * 22% approximate LAC average allocator

Target

\$8,673,509

\$0

Floor

\$4,336,754

RESERVE STATUS BY RESERVE CATEGORY

8/31/2016 cash balance

Retirement/reclamation reserve

amount: as required by contractual agreements, or NPV of anticipated future requirements

Electric Utility

FY15 gross plant in service	\$166,867,964	
Identified Items on site	\$300,000	\$0
Identified items, external:		
LRS Decommissioning	\$694,792	\$669,980
San Juan Decommissioning	\$4,287,196	\$4,502,248
San Juan Mine Reclamation*	\$3,027,369	\$3,637,511
total	\$8,309,357	

* new funding curves 10/16 will increase this by ~1.9M, requires full funding by 12/31/17

Gas Utility

FY15 gross plant in service	\$15,307,977	
Identified Items	\$50,000	\$0

Water Utility

FY15 gross plant in service	\$83,748,255	
Identified Items	\$150,000	\$0

well retirement funded as part of replacement well CIP

Sewer Utility

FY15 gross plant in service	\$41,507,545	\$0
Identified Items	\$500,000	\$0

one lift station, one treatment plant

RESERVE STATUS BY RESERVE CATEGORY

Total requirements (target)

Electric	29,189,501
Gas	1,897,426
Water	9,186,023
Sewer	5,556,238
	<u>45,829,187</u>

Total requirements (floor)

Electric	23,938,181
Gas	1,400,259
Water	7,723,934
Sewer	4,732,381
	<u>37,794,755</u>

8/31/16 cash on hand

	\$23,792,874
	\$6,357,139
	\$11,401,870
	\$719,666
	<u>42,271,549</u>

	\$23,792,874
	\$6,357,139
	\$11,401,870
	\$719,666
	<u>42,271,549</u>

8/31/2016 cash balance
difference from requirement

	-\$5,396,627
	\$4,459,713
	\$2,215,848
	-\$4,836,572
	<u>(3,557,638)</u>

	-\$145,307
	\$4,956,880
	\$3,677,936
	-\$4,012,715
	<u>4,476,794</u>

8/31/2016 cash balance over/under target

RESERVE STATUS BY UTILITY
ELECTRIC UTILITY

Operations Reserves

FY17 Budget O&M - Distribution

\$3,658,263
Target
Floor

\$2,238,139 \$409,008

Capital Expenditures Reserve

minimum ann'l depr. + 2.5%
Capital annuity Worksheet

\$6,083,754
\$3,746,650

\$8,911,057 \$2,827,303

Contingency Reserve

FY15 gross plant in service
(for reference) 1% gross plant in service
Department recommendation

\$166,867,964
\$1,668,680
\$500,000 substation

\$0 -\$500,000

Debt Service Reserve

Amount

\$3,793,750

\$3,833,939 \$40,189

Rate Stabilization Reserve

Target
Floor

\$8,673,509
\$4,336,754

\$0 -\$8,673,509

Retirement/reclamation reserve

FY15 gross plant in service
Identified items on site

\$166,867,964
\$300,000

\$0 -\$300,000

Identified items, external:

LRS Decommissioning
San Juan Decommissioning
San Juan Mine Reclamation*

\$694,792
\$4,287,196
\$3,027,369

\$669,980 -\$24,812
\$4,502,248 \$215,052
\$3,637,511 \$610,142

total

\$8,309,357

* new funding curves 10/16 will increase this by ~1.9M, requires full funding by 12/31/17

TOTAL ELECTRIC -\$5,396,627

RESERVE STATUS BY UTILITY

	<u>8/31/2016 cash balance</u>	<u>over/under target</u>
<u>GAS UTILITY</u>		
<u>Operations Reserves</u>		
FY17 Budget O&M		
	\$1,988,668	
Target	\$994,334	\$5,362,805
Floor	\$497,167	
<u>Capital Expenditures Reserve</u>		
minimum ann'l depr. + 2.5%	\$386,911	
Capital annuity Worksheet	\$603,092	
Amount	\$603,092	-\$603,092
<u>Contingency Reserve</u>		
FY15 gross plant in service	\$15,307,977	
(for reference) 1% gross plant in service	\$153,080	
Department recommendation	\$250,000 regulator station	-\$250,000
<u>Debt Service Reserve</u>		
Amount	\$0	\$0
<u>Rate Stabilization Reserve</u>		
N/A		
<u>Retirement/reclamation reserve</u>		
FY15 gross plant in service	\$15,307,977	
Identified Items	\$50,000 abandon one regulating station	-\$50,000
	<u>TOTAL GAS</u>	<u>\$4,459,713</u>

RESERVE STATUS BY UTILITY

WATER UTILITY

Operations Reserves

FY17 Budget O&M - Production
 FY17 Budget O&M - Distribution
 FY17 Budget O&M - Non Potable

\$3M well replacement not included but is budgeted to fund through cash reserves
 \$3,042,938
 \$2,163,228
 \$642,187

Target Floor
 \$11,200,648

\$2,924,177
 \$1,462,088

\$8,276,472

Capital Expenditures Reserve

minimum ann'l depr. + 2.5%
 Capital annuity Worksheet
 Amount

\$2,085,473
 \$5,107,664
 \$5,107,664

\$0

\$0

-\$5,107,664

Contingency Reserve

FY15 gross plant in service
 (for reference) 1% gross plant in service
 Department recommendation

\$83,748,255
 \$837,483
 \$750,000 Well Pump

\$0

\$0

\$0

-\$750,000

Debt Service Reserve

Amount

\$254,182

\$201,222

-\$52,960

Rate Stabilization Reserve

N/A

Retirement/reclamation reserve

FY15 gross plant in service
 Identified Items

\$83,748,255
 \$150,000 one tank or booster station
 well retirement funded as part of replacement well CIP

\$0

-\$150,000

TOTAL WATER

\$2,215,848

<u>RESERVE STATUS BY UTILITY</u>	<u>8/31/2016 cash balance</u>	<u>over/under target</u>
<u>SEWER UTILITY</u>		
<u>Operations Reserves</u>		
FY17 Budget O&M	\$3,295,427	
Target Floor	\$1,647,714	-\$2,291,033
	\$823,857	
<u>Capital Expenditures Reserve</u>		
minimum ann'l depr. + 2.5% Capital annuity Worksheet	\$861,219	
	\$1,902,725	
Amount	\$1,902,725	-\$1,902,725
<u>Contingency Reserve</u>		
FY15 gross plant in service (for reference) 1% gross plant in service Department recommendation	\$41,507,545	
	\$415,075	
	\$350,000 blower, belt press, etc.	-\$350,000
<u>Debt Service Reserve</u>		
Amount	\$1,155,799	
	\$1,362,985	\$207,186
<u>Rate Stabilization Reserve</u>		
N/A		
<u>Retirement/reclamation reserve</u>		
FY15 gross plant in service Identified Items	\$41,507,545	-\$41,507,545
	\$500,000 one lift station, one treatment plant	
	\$0	
TOTAL SEWER		-\$45,844,117

RESERVE STATUS BY UTILITY

TOTALS

<u>Total requirements (target)</u>	
Electric	29,189,501
Gas	1,897,426
Water	9,186,023
Sewer	5,556,238
	<u>45,829,187</u>

<u>Total requirements (floor)</u>	
Electric	23,938,181
Gas	1,400,259
Water	7,723,934
Sewer	4,732,381
	<u>37,794,755</u>

8/31/2016 cash balance

<u>difference from requirement</u>	
	-\$5,396,627
	\$4,459,713
	\$2,215,848
	<u>-\$4,836,572</u>
	<u>(3,557,638)</u>

	-\$145,307
	\$4,956,880
	\$3,677,936
	<u>-\$4,012,715</u>
	<u>4,476,794</u>

8/31/16 cash on hand

	\$23,792,874
	\$6,357,139
	\$11,401,870
	<u>\$719,666</u>
	<u>42,271,549</u>

	\$23,792,874
	\$6,357,139
	\$11,401,870
	<u>\$719,666</u>
	<u>42,271,549</u>

over/under target



County of Los Alamos

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Staff Report

October 19, 2016

Agenda No.:	6.D.
Index (Council Goals):	BCC - N/A
Presenters:	Tim Glasco, Utilities Manager and Andrew Fraser, Vice Chair Board of Public Utilities
Legislative File:	8408-16

Title

Rate Philosophy and Development of Rate Increase Policy

Recommended Action

Discussion Item Only, no action required.

Staff Recommendation

Discussion Item Only, no staff recommendation

Body

In considering past actions to restructure rates, the Board has discussed many aspects of rate philosophy. The last such action taken was adoption of a tiered water rate ordinance in 2014. Also in 2014, the Board discussed changes to the electric rate to incorporate a separate distribution service charge and an energy cost adjustment factor, neither of which was eventually adopted into the electric rate structure. We believe it is appropriate for the Board to discuss rate philosophy again now because that last action occurred before any current member of the Board began serving.

Since utilities are monopolies, their operations and particularly their rates are rightly subject to more public control, scrutiny and often passion than the operations of most other kinds of business. There are several notions and principles that could guide setting rates. The following sentences from Article V of the Los Alamos County Charter provide some guidance but do not dictate formulas:

The Department of Utilities shall be operated on a compensatory basis. The rates and charges shall be just, reasonable, and comparable to those in neighboring communities and shall be uniform for all consumers of the same class. Different rate schedules may be established for different classes of consumers. Charges for other services provided by the Department of Public Utilities shall be set by the Board of Public Utilities.

We should consider at least the following principles and notions in setting rates:

Safety and Reliability The DPU needs adequate income to deliver service safely and reliably.

Ordinary Costs For example: Operations and maintenance, capital, and cost of fuel. These appear in our budgets while the external values or costs in the next item do not.

External Values or Costs Utility operations (and indirectly rates) have effects on things members of our community value beyond the four services that we provide to our customers. While the diverse and sometimes nebulous nature of the values held by members of our community make them difficult to quantify for incorporation into our rates, it remains a primary responsibility of the Board. The following are some of the external values of the community that we weigh:

- **Global Environment** For example, many want the DPU to reduce emissions of greenhouse gases.
- **Regional Resources** For example, recognizing the limited amount of water in New Mexico, many want to reduce water use in the county.
- **Economic development** Reliable affordable utilities support existing business and attract others.
- **Aesthetics** Eliminating overhead wires has value that is difficult to quantify.
- **Disruptive Maintenance** Digging up streets has a negative value for traffic, and servicing utility easements in backyards can impose various costs on customers.
- **Education** The rates we charge schools affects the quality of education in the County.
- **Affordability** Many want our rates to accommodate customers on low and limited incomes.

Efficiency If we could quantify all the relevant values and costs and forecast demand, we could use arithmetic to rank rate policies. Even though that seems unlikely (impossible?), aspects of mathematical theory may be helpful. For example, a necessary condition for optimal operation of a multi-component system is that the shadow prices be equal for all components.

Since utilities are generally capital intensive and some have low marginal costs, much of rate setting concerns dividing fixed costs among our customers. There is no simple best or fair solution to this task. However, we should be aware of the technical argument that mismatches between our marginal rates and our marginal costs (including external costs) indicates inefficiency or forgone opportunities.

In the following paragraphs, we summarize the forces that have influenced the rates of our four utilities. For each utility, the required physical capital depends to some degree on peak demand. Also maintenance and operating expenses are fairly insensitive to metered use.

Water This utility is very capital intensive, yet has relatively low marginal costs. The requirement that we provide water for fighting fires largely determines the size of our distribution systems. Our water department expenses vary with water use in two principle ways:

1. Electric energy for pumping
2. When use exceeds well capacity, we must pay for new wells

Our tiered rates indicate to our customers that water conservation is a regional priority. Historically water rates recover the fixed costs through a consumption-based rate structure. This tends to benefit the low water user over the higher water user, and encourages conservation.

Residential: \$8.72 + \$4.61/1,000 Gallons (More for high tiers)

Commercial: \$8.72 (more for bigger pipes) + \$4.61/1,000 Gallons

Sewer Building our treatment plants are expensive, and our high median income disqualifies us from some financial assistance available to neighboring communities. Our incremental cost for volume is low, hence our flat rate for residential customer classes. However, the highly variable and generally stronger quality of wastewater from commercial customers means that a volume-based rate is more appropriate for them.

Residential: \$9.51 Flat rate

Commercial: \$41.92 + \$16.20/1,000 Gallons of water used above 2,000

Electric We claim that our long term sources of energy cost between about \$0.03 and \$0.10 per kWh. Recently the market price of power has been low (below \$.03 per kWh). The evolution of the electric distribution grid that we are presently seeing is demonstrating that the old rate structure whereby the distribution system fixed costs are recovered through a strictly commodity-base rate is becoming no longer viable.

Small Commercial: \$22.00 + \$0.1111/kWh

Large Commercial: \$22.00 + \$0.0821/kWh + \$11.00 Demand

Gas The gas system operates with relatively modest fixed costs, with the commodity cost being the lion's share of most customers' bills. Appropriately, the gas rate is unbundled to have a variable cost of gas component and another component to recover fixed distribution operation and maintenance costs. This rate still however, ties O&M cost recovery to the gas consumed, as opposed to a fixed cost per customer per month.

Commercial and Residential \$9.50 or \$28.50 + (\$.23 + Cost of Gas)/Therm

Alternatives

None

Fiscal and Staff Impact

None

Attachments

None



County of Los Alamos

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Staff Report

October 19, 2016

Agenda No.: 6.E.
Index (Council Goals): BCC - N/A
Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File: 8418-16

Title

Water System Needs and Cost Structure Report Presentation

Recommended Action

No formal action to be taken.

Staff Recommendation

No formal staff recommendation.

Body

A report has been developed that discusses the following specific items:

- The change in water sales volume and the effect on water rates and the financial health of the water enterprise groups.
- The water systems condition and how that condition affects the need for infrastructure investment.
- The history and planned future infrastructure investment program.
- An analysis of several alternative scenarios for funding a CIP Program, covering O&M costs and meeting the annual cash balance goals pursuant to the DPU Financial Policy guidelines.

Alternatives

The report details three alternative scenarios for determining rates for the Water Distribution, Water Production and Non-Potable water systems. The expenses - revenues - rates models in Excel allow for multiple scenarios to be run based on various assumptions and goals for each system. Eventually a final scenario will be developed and rates for each of these systems will be implemented.

Fiscal and Staff Impact

Impacts to staff in developing the final recommendations, developing the programs and implementing the selected rates should be within normal budget parameters.

Attachments

A - Water System Needs and Cost Structure Report

WATER SYSTEM NEEDS AND COST STRUCTURE REPORT

BOARD OF PUBLIC UTILITIES MEETING 19 OCTOBER 2016

BPU AGENDA ITEM # 8418-16

INTRODUCTION

Water sales for the Los Alamos County (LAC) Department of Public Utilities (DPU) have decreased over the last few years. The reasons for this are believed to be threefold: 1) Increased rainfall during the irrigation season the last two years – after a period of prolonged dry weather; 2) A concerted effort on the part of LANL to decrease their potable water use by switching over to reclaimed water the last few years; 3) A conservation mindset may be starting to take hold within the Los Alamos County communities.

The decreased water sales have caused a decrease in the revenue stream for the water system enterprise. The water system is a standalone enterprise of the Department of Public Utilities within the government of Los Alamos County. The water system is comprised of three groups: Water Distribution (DW), Water Production (WP) and Non-Potable Water (NP). The WP group produces and treats potable water and sells that water to two customers, LANL and the DW group, at a wholesale water rate. The DW group purchases their share of that water and distributes it to customers throughout the County at a retail water rate that varies depending on the class of customer (residential, commercial, etc.). The NP group takes reclaimed effluent from the two DPU wastewater treatment plants (WWTPs) as well as collects non-potable untreated water from two other sources (LA Canyon Reservoir & Ski Hill Runoff Collector). The NP group distributes this NP water to sites throughout the County for irrigation of large turf areas.

Within the unified Water Enterprise Fund the DW group and the WP group are budgeted separately. The DW group has a line item for wholesale water purchase and the WP group receives revenue from the DW group for these sales to the DW group. The NP group is embedded inside the WP group with NP expenses and revenues informally listed separately within the WP accounting system. The NP system is relatively small with a minimum number of customers.

This report is intended to analyze and or report on the following specific items:

- The change in water sales and use and how that affects water rates and the financial health of the water enterprise groups
- The water systems condition and how that condition affects the need for infrastructure investment through a Capital Improvement Program (CIP)
- The history and future of infrastructure investment in the water systems
- An analysis of various CIP funding and water rate scenarios; including a comparison of annual cash balance funds based on initial recommendations developed from the DPU Financial Policy statement.

EXECUTIVE SUMMARY

Water sales volumes (and revenue) for the water systems have fallen in the last few years: 10 % for the Water Distribution (DW) system and 12 % for the Water Production (WP) system since FY 2015.

Recommended estimates for future sales volumes are 775,000 kgal for the DW system and 1,150,000 kgal for the WP system. Figure 3 shows the recommended varying sales volume for the NP system.

Weather, LANL conservation and possibly an improving County conservation ethic are the probable causes for these decreases. Some general correlation between precipitation and water sales is noted but Automated Metering Infrastructure is necessary before any more detailed correlation between precipitation and water use can be determined.

\$31 million dollars in CIP infrastructure projects have been completed on the Water Production and Water Distribution systems between FY 2003 and FY 2016: \$750,000 per year for the DW system and \$1,500,000 per year for the WP system. All for system condition improvement and repair & replacement. \$4,800,000 in CIP infrastructure projects have been completed on the Non Potable system between FY 2012 and FY 2016. Virtually all of this \$957,000 per year CIP expenditure has been for system expansion.

The historic CIP Program for both systems compares very well with AWWA national standards for water utility system repair and replacement expenditures: essentially at the AWWA Top Quartile national standard – Figure 4.

After system condition “catch up”, the recommended CIP Program for both systems will compare well with the AWWA national standard Median value.

Within the 20-year report period, the recommended CIP programs for both the DW and WP systems “catch up” to a system condition whereby future CIP projects are true R&R (repair & replacement) projects and not critical replacement of failing infrastructure within the 20-year report period.

The end of year cash balance for both the DW and WP systems are allowed to converge toward matching the recommended cash balance values stipulated in the DPU Financial Policy for cash balances without drastic year over year rate changes.

Scenario Two for the DW system is the recommended approach. The DW rates should remain at or below those of our closest neighbors while the accelerated CIP program will help alleviate the concerns raised by citizens regarding the overall condition of portions of the DW system.

The Scenario Three approach is recommended for the WP system. The WP rates remain reasonable with consistent relatively modest annual changes, after the 10% FY 2018 increase, while meeting the goals of the CIP Program and the Financial Policy recommendations for cash balance.

The recommended approach for NP system rates is Scenario Two; where NP rates match WP rates each year except one. All O&M expenses become covered and over half of Capital R&R expenses are covered by FY 2036.

Final refinements to the spreadsheets for both the DW and WP & NP systems developed for this report are expected. Review comments and improved cash balance requirements, as well as annual sales volume updates, will be collected and solidified and then incorporated into an improved system expense and revenue forecast model.

WATER SALES AND USE

A quick spreadsheet analysis was done that shows relevant data for the years FY2007 through FY2015, inclusive. For both the DW and WP systems there was never a year when actual sales volume met or exceeded budgeted sales volume. Some quick analysis using the straight average sales figures for both systems over this 9 year period was determined to be the best estimate to use for revenue estimates for the future. Keeping this database updated annually will allow for real time refinements to the sales volume, and hence revenue, estimates made annually as a part of the budget process.

The recommended Water Distribution volume figure has been assumed to be the 9-year average of actual total sales from the Quarterly Reports data set. For DW this is 775,000 kgals per year. This is a decrease from the FY2016 "Forecast" volume of 850,000 kgals and from the FY 2014 & FY 2015 "Forecast" volume of 865,500 kgals. Lost water due to breaks, flushing, testing and similar type of activities is non-revenue water and so is not included in this "Forecast" volume. However it will be produced and pumped into the system and has been accounted for in the estimated expenses portions of the analysis.

The recommended Water Production volume figure, also based on the 9-year average sales volume, is assumed to be 1% greater than the 9-year average of WP sales volume. This recommended volume, equivalent to that produced or pumped into the system, is 1,150,000 kgals. This is a decrease from the FY2016 "Forecast" volume of 1,250,000 kgals and from the FY 2014 & FY 2015 "Forecast" volume of 1,302,000 kgals. Lost water due to breaks, flushing, testing and similar type of activities is non-revenue water and so is not included in this "Forecast" volume. However it will be produced and pumped into the system and has been accounted for in the estimated expenses portions of the analysis.

These recommended sales volume estimates decrease the projected sales volume (and hence revenue) by 10% for the DW system and by 12% for the WP system. The use of these 9-year averages, updated annually, should create a more accurate and reliable set of estimates for forecasting sales volumes, revenue streams, cash balances and CIP funds that would be available.

Figure 1 "Budgeted versus Actual Water Sales with Precipitation & Temperature Variables" is an attempt to find any correlation between precipitation and temperature and the sales volumes of the DPU's water systems. Weather data was taken from the LANL Weather Machine website. Average annual temperature was used and the data set is not refined enough to discern any correlation between temperature and water use. Precipitation data sets for annual total, 1st Quarter (July-Sept) total and 4th Quarter (Apr-June) total were compared to annual water use. Trend lines show a distinct but generic correlation between precipitation and water use. A closer look at FY 2012 – FY 2015, when precipitation fluctuated significantly, shows that overall water use did not track directly with year over year precipitation – either annual average or during the quarters when irrigation is greatest. It appears as though water use within the County does track fairly well with precipitation during the irrigation season. LANL water use does not track well with precipitation and it is thought that changing water use patterns discussed later is why weather has not been tracking well with LANL water use in the last few years.

Figure 2 "Percentage Precipitation Variance versus Percentage Water Sales Variance – FY 2007 thru FY 2015" attempts to refine the correlation. The variance tracked is the year over year difference in "Total Actual Sales – (Actual vs 7-year Average)", "Total Water Sales – (Actual vs Budget)" and "Precipitation – (Actual vs 7-year Average)" values of interest. Again the trend lines show a general relationship but the relationship does not track closely. In the future, after the Automated Metering Infrastructure (AMI) project is up and running, it will be possible to track precipitation with water sales on a daily, weekly or monthly frequency that should allow for an improved and more realistic comparison of these values.

Another reason for decreasing water sales appears to be the aggressive switchover from potable water use to reclaimed effluent at the LANL computing centers for equipment cooling. It is understood that the switch from potable to reclaimed water accelerated around the County's FY 2013. A significant drop in water sales to LANL is shown in Figure One between FY 2013 and FY 2015 regardless of precipitation.

Hard data is not available at this time to estimate any direct water sales impact due to the DPU's conservation education efforts. However, anecdotally the majority of water using fixture remodel projects within the County have a good chance of replacing high flow fixtures with low flow fixtures and this trend should continue for the foreseeable future as the County's housing stock continues to age and as new homeowners initiate remodel projects.

NP System water sales were first tracked in detail in the September 2013 NP Water System Master Plan. The volumes estimated for the three different NP sub-systems (Townsite, White Rock & Ski Hill) are listed in Figure 3 "NP Water Use Projections / 6 October 2016 / BPU Water System Report". These estimates of volume and expected year of use, derived from the NP Master Plan, have been revised based on current CIP planning and internal analyses of maximum water availability due to current NP system pumping and storage limitations. It is assumed that these limitations will be overcome when projects outlined in the NP Master Plan are completed.

The estimates are used in the NP portion of the WP system "Forecast" spreadsheets found later in this report. The water sales estimates for the WP and DW systems are assumed to hold constant at the current 9-year average, as discussed above, throughout the length of the forecast through FY 2036.

PREVIOUS EXPENDITURES

\$31 million dollars in CIP infrastructure projects have been completed on the Water Production and Water Distribution systems between FY 2003 and FY 2016. All of these projects have been to replace older portions of the system whose condition was determined to be critical using the 2007 Water Systems Condition Assessment Study recommendations, recent current condition problems and historic knowledge. Both water systems (WP & NP combined and DW) have a separate Asset Management Team (AMT) that meets quarterly to discuss the physical and financial health of their respective systems. Each AMT has members from the GWS, Engineering and Finance divisions of the DPU.

The annual average CIP expenditure on infrastructure improvement for the WP system has been \$1,500,000 per year and for the DW system has been \$750,000 per year.

Regarding the NP system, \$4,800,000 has been invested in upgrades to the NP system between FY 2012 and FY 2016. The majority of these CIP projects, averaging \$957,000 per year, have been for system expansion to meet the County's and DPU's sustainability goals of decreased potable water use through increase use of reclaimed effluent (and untreated non-potable water) and to meet the DPU sustainability goal of decreased per capita consumption of potable water. Whenever possible, of course, these system expansion projects have striven to also upgrade existing infrastructure.

Figures 5 thru 8 and show Townsite area water system maps and Figures 9 thru 12 show White Rock area water system maps. Figures 5 & 9 show colorized locations of CIP projects completed by the Department of Public Utilities (DPU) within the scope of the DPU's annual 10-year CIP Program started in the early 2000's. Figures 6 & 10 show waterlines colorized by pipeline age. Figures 7 & 11 show waterlines colorized by size. Figures 8 & 12 show waterlines colorized by waterline material. All respective to the Townsite & White Rock areas.

Figures 5 & 9 display the level of effort that has gone into the CIP program for the DW and WP systems by DPU since FY 2000. Please note that some of these shown colorized projects are developer driven and installed projects, Quemazon north and south for example, but the majority of the shown projects are the result of the DPU CIP Program. A significant level of effort went toward the repair and upgrade of the water system after the Cerro Grande fire. The remainder of the DPU CIP program effort has been in replacing aging infrastructure in deteriorated condition, emphasizing the Townsite's Western Area and North Community, as described in the 2007 Condition Assessment Report. The DPU CIP Program expenditures in future years funded in the spreadsheets of this report continue to follow the recommendations of the 2007 Condition Assessment Report by emphasizing the Aspen School Area, Denver Steel High School Area and Eastern Area for significant waterline replacement projects. These future projects have been confirmed as high priority projects based on the experience and knowledge of the Asset Management Teams through quarterly condition assessment meetings. Figures 5 thru 12, showing updated water system information, can be compared to the 2007 maps from the 2007 Condition Assessment Report located in an appendix to this report.

Significant progress has been made in carrying out the recommendations of the 2007 Report. Much of it shown on the maps of this report. However, many of the DPU CIP projects that have been completed since the early 2000's are not shown on these maps. These projects are site specific to individual features of the water systems. Water tanks have been repainted after having the old lead based paint safely removed. PRV (Pressure Reducing Station) sites have been upgraded with new valves and new corrosion resistant fasteners. Well sites and booster stations have been upgraded with new modern electronic controls and SCADA equipment. One-third of the Water Production system now functions fully automatic through the SCADA system. With the adoption of water rates sufficient to continue CIP Program funding, the history of significant progress can continue for the next 10 to 15 years until the condition of both the DW and WP systems reaches an overall good condition rating; with no known aged or inferior infrastructure.

At the back of this report are shown Attachments # 1 through # 9, taken from the "Water Systems Condition Assessment 2007" study (author unknown). These figures show relevant details of the WP and DW systems circa 2007 and, while recent infrastructure projects have modified the systems, they are still good references to view the overall system variables such as age, pipe diameter and pipe material.

Also at the far back of this report are shown Figures 2-1 thru 2-4 and Figures 8-1 & 8-6, taken from the "Non Potable Water System Master Plan" dated September 2013 by Forsgren & Associates. These figures give a good representation of the NP system and visually show the planned expansion recommended in the Master Plan document.

AWWA NATIONAL STANDARD CIP COMPARISON

Figure 4 is titled "System Renewal & Replacement AWWA National Standard Percentages". The national standard percentage data is taken from the AWWA (American Water Works Association) "Benchmarking – Performance Indicators for Water and Wastewater – 2013 Survey Data and Analyses Report"; which is the latest version of this benchmarking manual published by AWWA. This data has been combined with the Present Worth Value of both the WP and DW systems to provide a comparison between possible DPU annual CIP recommendations against a range of annual Repair & Replacement expenditures for other water (and wastewater) utilities across the country. Comparison of our historic and recommended levels of CIP for infrastructure improvements appears favorable between the DPU systems and the AWWA national standards.

For the DW system – the historic \$750,000 per year CIP is equivalent to the top quartile for water distribution systems across the country (\$770,266). For the WP system – the historic \$1,500,000 per year CIP falls slightly above the mid-point between the top quartile and the median value for water production systems across the country.

Various annual levels of CIP spending are recommended in the three spreadsheet analyses included in this report. Depending on the final selected alternative – whether that is one of the recommended alternatives within this report or a modified version – it is anticipated that the level of annual CIP funding for both the WP and the DW systems will provide for an adequate program of infrastructure improvements that fits within the fiscal means of the DPU customer base and that will compare favorably to AWWA national standards.

ALTERNATIVE SCENARIOS FOR THE CIP PROGRAM AND WATER RATES

Three scenarios spanning the next 20 years regarding various approaches to implement necessary CIP expenditures, and how these various approaches affect water rates are included in this report. The expense and revenue models used for these various scenarios have been adopted from the typical “Forecast” spreadsheets used during the annual budget cycle but differ from that annual forecast in a few important ways.

- The length of time is expanded from 10 years to 20 years. This was done to enable capture of the length of time it is anticipated for the CIP programs to “catch up” to what is felt to be an overall good condition for each system; after which all CIP projects will be typical R&R projects and not critical replacement of older failing system components.
- A “Recommended Cash Balance” item is included. This recommended cash balance value is estimated based on the recent recommendations in the DPU Financial Policy for cash balances. Initial estimates for the various cash balance categories are used in these recommended values. Any variation between the calculated “Cash Balance” of the model and the “Recommended Cash Balance” was used to adjust the water rates in an attempt to match these two values.
- Calculated future water rates are included for quick review and comparison between alternative model runs.
- Modifications from the typical annual “Forecast” spreadsheet or outstanding important aspects being recommended are highlighted in various colors. (Example: DW “Water Meters” expense shows an elevated level for FY 2016 thru FY 2020 to account for planned in-house meter replacements. Note: The in-house meter replacement program has provided an unexpected benefit in that many old meter setters, shut off valves or meter cans are being found defective and in need of repair or replacement. The in-house pursuit of meter replacements is enabling DPU to improve all meter infrastructure and not simply meter replacement.)
- Portions of the NP system have been highlighted or added to the WP spreadsheet in order to improve the accounting for that system as an independent sub-system within the WP system.
- After the long overdue NP rate adjustment in FY 2018, rate adjustments for the NP system match rate adjustments for the WP system in Alternative Two. This keeps the difference between the two rates approximately the same throughout the 20 year program – with the NP rate being roughly \$1.00 to \$1.50 less per kgal than the wholesale potable rate. The NP rates in Alternative Three are adjusted higher than the WP system rates. This allows the NP system revenue to grow until full coverage of both O&M and Capital R&R expenses is met. The difference between the NP and WP rates in Alternative Three decreases from \$1.00 to \$0.55 by FY 2036.

- After the FY 2018 budget year – the O&M expenses forecast values are increased 1.5% each year for inflation (except in special highlighted cases).
- After the FY 2018 budget year – the “Debt Service” item in the WP spreadsheet increases 10% each year to accommodate assumed annual debt service of Water Trust Board funded NP system CIP projects.
- The “Recommended Cash Balance” value, for both the DW and the WP systems, are calculated assuming that the Contingency Reserve (equal to the replacement cost of the single largest potential failed piece of equipment) will not occur the same year for both the DW and WP systems. The estimated Contingency Reserve value for the Water Enterprise Fund was split 50/50 between the two water system funds. Some years show a higher or lower value than the “Recommended Cash Balance” for either the DW or WP systems however, taken together the total cash balance for the Water Enterprise Fund (DW + WP) remains sufficient to cover expected expenses each year for either or both systems.

Figure 13 “Forecast Summary of Cash Balances for DW & WP Expenses – Revenues – Rates Models” shows the calculated “Cash Balance” versus the “Recommended Cash Balance” (based on the Financial Policy) for each individual system (DW & WP) plus the total cash balance for the Water Enterprise Fund (DW + WP) for each alternative scenario. The WP system has a current cash balance that exceeds the “Recommended Cash Balance” policy while the current DW system cash balance falls significantly short. The combination of these two system’s cash balances currently exceed the “Recommended Cash Balance” goal.

The WP CIP Program projects a \$3,000,000 expense every 4 to 6 years. It is difficult to keep rates steady when the CIP Program projected spending is not relatively constant. Each alternative scenario shows years when the combined cash balance seems excessive and years when it does not meet our goal. The goal in developing the models used for this report was to develop a DW and WP system CIP Program and rate structure that did not fluctuate too much from year to year and that also either met the Financial Policy goals for the “Recommended Cash Balance” for each system or did not stray too far, in either direction, from the Financial Policy goal.

Alternative One – “Baseline” Scenario

The Alternative One scenario is considered a “Baseline” forecast. Very preliminary previous discussions have considered 10% rate increases in FY 2017 & FY 2018 with inflationary 1.5% increases each year thereafter. The DW CIP recommendations hold to the historic \$750,000 per year estimate until FY2030 when the overall system condition is assumed “caught up” after which the CIP recommendation decreases to \$500,000 per year. The WP CIP recommendations hold consistent to historic values at \$1,500,000 per year until the system condition is “caught up” in FY 2030 after which the WP CIP decreases to \$750,000 per year.

Full coverage of O&M expenses for the NP system is expected to occur in FY 2024. As rates and NP water sales increase beyond this year, it is expected that NP system Capital R&R costs begin to be covered a little more each year. At the end of this study period (FY 2036) the recommended NP rates and estimated water sales anticipate the full coverage of O&M expenses and 30% coverage of R&R expenses with the NP rate \$1.29 less than the wholesale potable rate (\$4.56 - \$3.27).

The effect on the systems health, as indicated by the estimated cash balance each year, is obvious. The “Baseline” scenario provides excessive cash balances for the DW system and inadequate cash balances for the WP system. Refer to Figures 14 and 15.

Alternative Two – “Accelerated DW CIP & Conservative WP CIP” Scenario

The Alternative Two scenario recommends a slightly more aggressive or accelerated CIP program for the DW system by increasing the annual value to \$1,000,000 per year but reaching the condition “caught up” point three years sooner (FY 2027 instead of FY 2030). The DW rates are increased 10% in FY 2018 and an additional 5% in FY 2019. This scenario also includes an 8.5% rate decrease in FY 2027 (similar to the FY 2017 10% decrease in the gas rate) which is the year the DW CIP program would be “caught up”. Before and after these significant rate adjustments the DW rates increase at a relatively modest and consistent 0.0% to 1.5% for inflation and to adjust for fluctuations in the cash balances. The WP CIP recommendations are the same as in the “Baseline” scenario in that they hold consistent to historic values at \$1,500,000 per year until the system condition is “caught up” in FY 2030 after which the WP CIP decreases to \$750,000 per year. For the anticipated major WP CIP well replacement project years this scenario does not modify the annual \$1,500,000 CIP value. Therefore, those years with a planned well replacement project have a significant impact on the year end cash balance. The water rates for the WP system increase another 10% in FY 2018; the same as all three alternative scenarios. This scenario also includes an 8.0% rate decrease in FY 2031 (similar to the FY 2017 10% decrease in the gas rate) which is the year after the WP CIP program would be “caught up”. Before these significant rate adjustments the WP rates increase at steady 2.5%. After the FY 2031 rate decrease the WP rates rise by a consistent 1.0% to 1.5% for inflation and to adjust for fluctuations in the cash balances. NP rates are held the same as WP rates, except no NP rate decrease in FY 2031.

Full coverage of O&M expenses for the NP system is expected to occur in FY 2024. As NP rates and water sales increase beyond this year, it is expected that NP system Capital R&R costs are covered a little more each year. At the end of this study period (FY 2036) the recommended NP rates and estimated water sales anticipate a 52% coverage of R&R expenses with the NP rate \$0.97 less than the wholesale potable rate (\$4.61 - \$3.64).

The cash balances in FY 2018 thru FY 2026 for the DW system are low. This should not be a significant problem because the cash balances in the WP system for those years are higher than recommended and the combination of these two cash balance values within the Water Enterprise Fund should be adequate to cover any emergency for either of the WP or DW systems. Cash balances for the WP system at the far out years FY 2030 thru FY 2036 fluctuate significantly due to the recurring well replacement CIP projects. Again, it is assumed that the combined DW and WP system cash balances should be able to cover any emergency situation within either of the systems. Refer to Figures 16 and 17.

Alternative Three – “Mellower DW Rate & Adjusted WP CIP” Scenario

The Alternative Three scenario recommends the same historic DW system CIP program of \$750,000 per year as the “Baseline” scenario. The DW system condition is “caught up” in FY 2030 after which the CIP recommendation decreases to \$500,000 per year. The DW rate adjustments are less drastic up front than those recommended in Scenarios One and Two. After the FY 2017 rate increase of 10%, the DW rate is increased only 5.5% in FY 2018. After this relatively modest increase, the DW rates are increased a consistent 2.5% to 1.5% per year for inflation and cash balance coverage until the DW cash balance approaches the recommended cash balance value in FY 2027. In FY 2031, the year after the system condition is “caught up”, the DW rate is decreased by 10.0% (again similar to the FY 2017 gas rate decrease) and then continues a 0.0% to 1.0% annual inflationary increase until the end of the study period in FY 2036. The WP CIP recommendations for this scenario are adjusted to decrease the annual CIP value significantly in years with a well replacement CIP project. The other years the annual CIP is increased from the historic \$1,500,000 to \$1,615,000 per year. These adjustments

attempt to moderate the influence of the well replacement projects on the cash balance. The down side to this approach is that the “catch up” year is extended until FY 2033. The WP rates are recommended to rise by 10% in both FY 2017 & FY 2018 – the same for all three alternative scenarios. After that the WP rates then increase 1.5% then 2.0% then 2.5% then 3.5% in three year steps until FY 2030 after which they then increase 2.5% for two years. In FY 2033, the year of system condition “catch up”, the WP rate decreases by 5.0%. After that the rate increases 1.5% for inflation the last three years. This fluctuating rate for the WP system attempts to cover all O&M expenses as well as keep the WP cash balance as close to the “Recommended Cash Balance” value as possible without falling significantly below that recommended value for any year.

NP rates are not held constant with WP rates in the Alternative Three scenario. After the major rate increase of FY 2018 (the same in all three scenarios), NP rates increase a consistent 3.15% throughout the remaining 18 years of the report period. Full coverage of O&M expenses for the NP system is expected to occur in FY 2023. NP system Capital R&R costs begin to be covered a little more each year until, at the end of this study period (FY 2036), the recommended NP rates and estimated water sales anticipate the full coverage of O&M expenses and 100% of R&R expenses with the NP rate \$0.44 less than the wholesale potable rate (\$4.81 - \$4.37).

The cash balances in years FY 2018 thru FY 2026 for the DW system are low, but similar to the Alternative Two scenario, this should not be a significant problem because the cash balances in the WP system for those same years are higher than required and the combination of these two cash balance values within the Water Enterprise Fund should be adequate to cover any anticipated emergency for either of the WP or DW systems. The cash balance for both the DW and WP systems fluctuate toward the end of the study period but appear to remain within acceptable limits for variation around the combined cash balance “Recommended Cash Balance” goal. Refer to Figures 18 and 19.

Budgeted versus Actual Water Sales with Precipitation & Temperature Variables

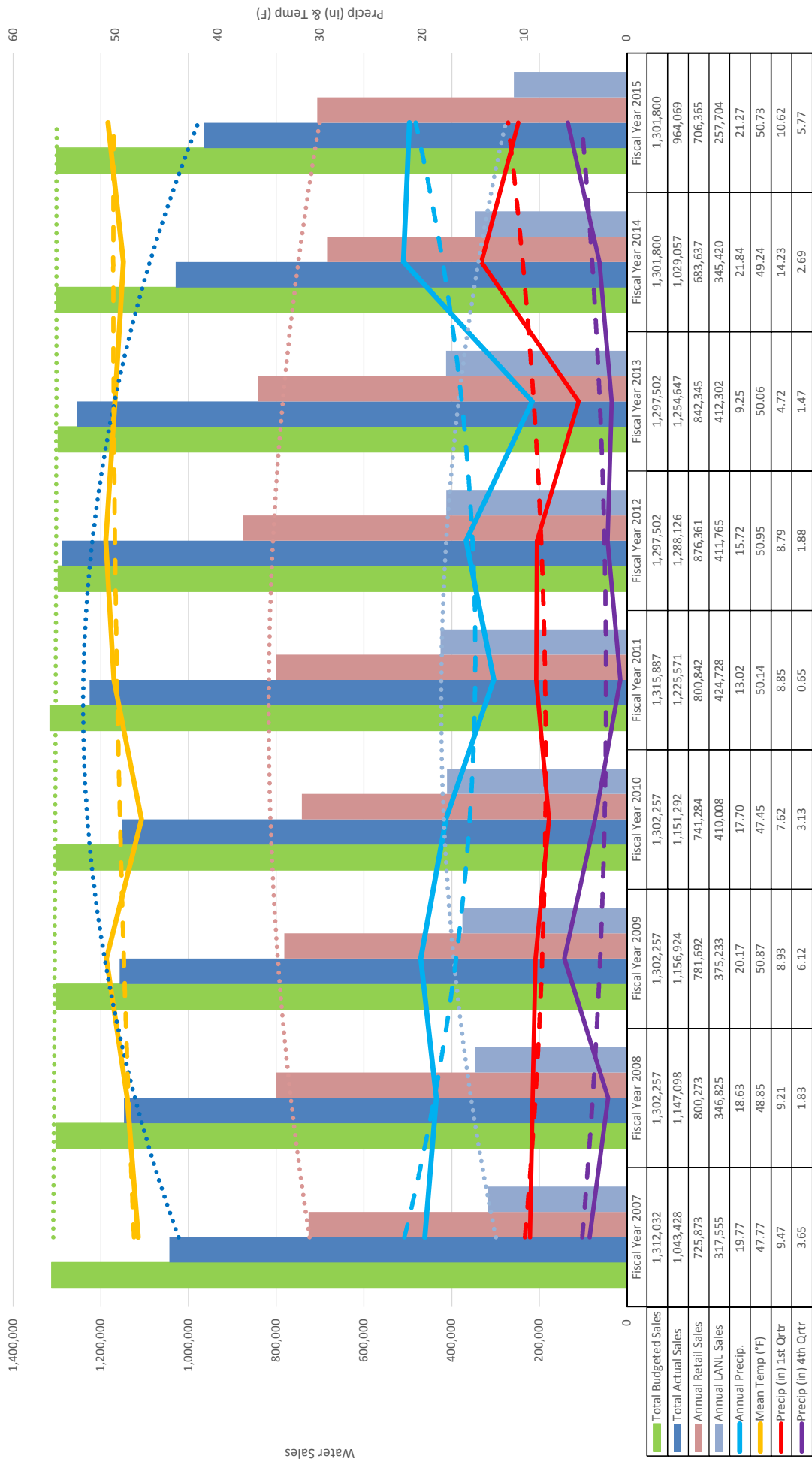


Figure 1

Percentage Precipitation Variance versus Percentage Water Sales Variance - FY2007 thru FY2015

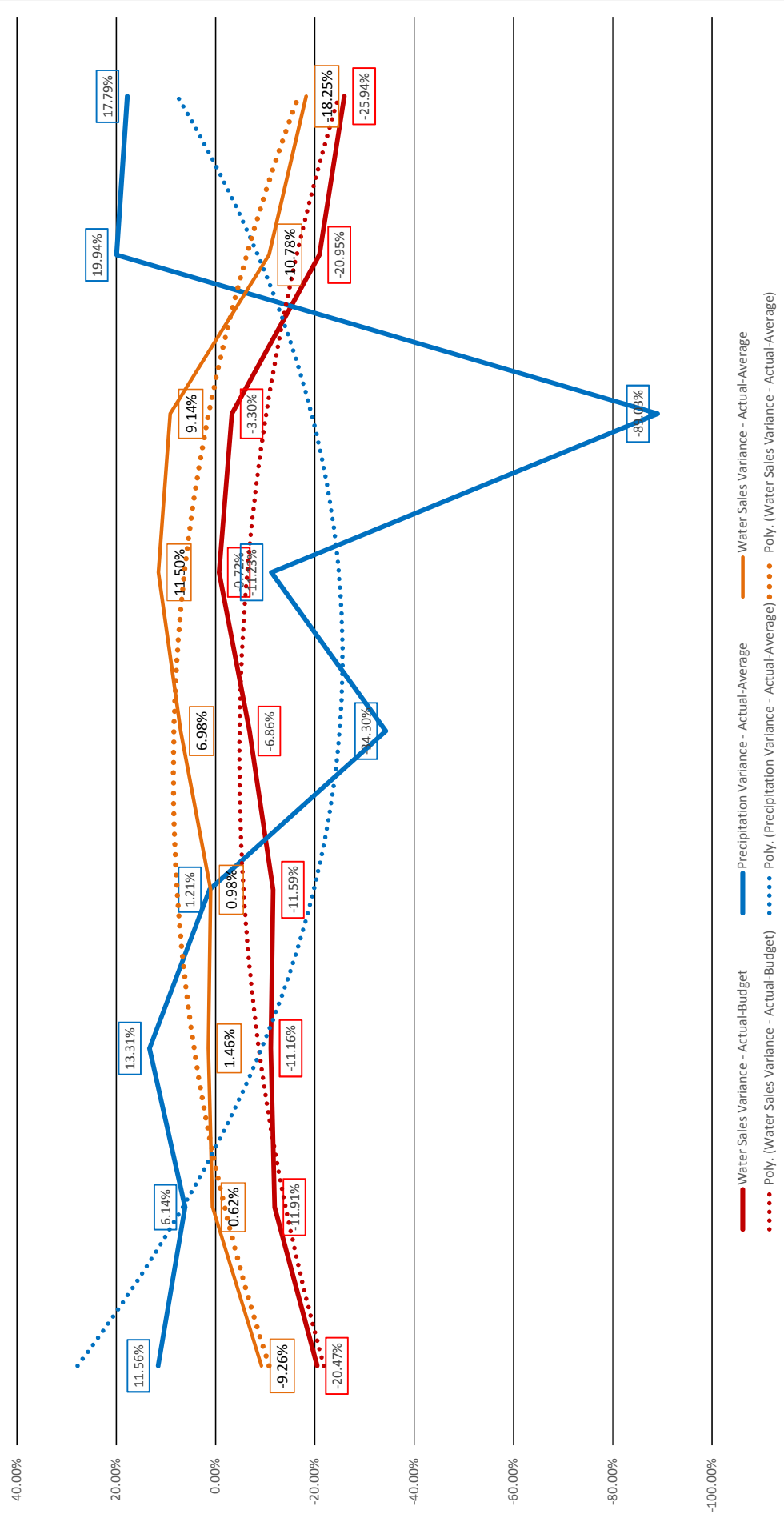


Figure 2

NP Water Use Projections / 6 October 2016 / BPU Water System Report					
Fiscal Year	Townsite	White Rock	Ski Hill	TOTAL (gallons)	TOTAL (kgals)
2016	63,100,000	18,900,000	2,500,000	84,500,000	84,500
2017	65,000,000	18,900,000	2,500,000	86,400,000	86,400
2018	65,000,000	18,900,000	2,500,000	86,400,000	86,400
2019	69,000,000	18,900,000	2,500,000	90,400,000	90,400
2020	69,000,000	18,900,000	2,500,000	90,400,000	90,400
2021	69,000,000	23,000,000	2,500,000	94,500,000	94,500
2022	69,000,000	23,000,000	2,500,000	94,500,000	94,500
2023	69,000,000	37,100,000	2,500,000	108,600,000	108,600
2024	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2025	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2026	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2027	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2028	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2029	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2030	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2031	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2032	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2033	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2034	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2035	96,900,000	37,100,000	2,500,000	136,500,000	136,500
2036	96,900,000	37,100,000	2,500,000	136,500,000	136,500

Figure 3

System Renewal & Replacement AWWA National Standard Percentages						
Asset Class	System Repair & Replacement Percentage			Present Worth Value of the GWS Group System	Annual Repair & Replacement National Standard (PWV) X (System R&R %)	
	Bottom Quartile	Median	Top Quartile		Bottom Quartile	Median
Water Supply	0.8%	1.5%	3.7%			
Water Treatment Facilities	0.7%	1.9%	5.0%			
Water Pump Station	0.6%	2.6%	5.5%			
Water Transmission and Distribution	1.0%	2.4%	4.5%			
Wastewater Collection	1.3%	2.5%	5.2%			
Wastewater Pump Stations	0.7%	2.1%	5.9%			
Wastewater Treatment	1.1%	2.2%	4.4%			
Water Production	0.775%	2.1%	4.675%	\$39,939,696	\$838,734	\$1,867,181
Water Distribution	1.0%	2.4%	4.5%	\$17,117,013	\$410,808	\$770,266
Wastewater Collection	1.0%	2.3%	5.55%	\$19,989,785	\$459,765	\$1,109,433
Wastewater Treatment	1.10%	2.20%	4.40%	\$13,326,524	\$293,184	\$586,367
NOTE: AWWA Benchmarking Value 2013 used in this analysis.						
NOTE: "System Renewal & Replacement (%)" = (Total Expenditures for R&R of an asset group) / (Total Present Worth depreciated value for that asset group)						
NOTE: AWWA values for the Water Production group are the average of "Water Supply" + "Water Treatment Facilities" + "Water Pump Station" + "Water Transmission and Distribution".						
NOTE: AWWA values for the Wastewater Collection are the average of "Wastewater Collection" + "Wastewater Pump Stations".						
NOTE: Present Worth Value of each asset group is the FY2012 thru FY 2015 average of: (Land + Utility Plant In Service + Machinery & Equipment) - (Accumulated Depreciation).						
NOTE: Annual R&R National Standard is the comparable value used against the annual R&R CIP (annuity) proposed in the analyses.						

Figure 4

Los Alamos County Townsite Area Water Map



Date: 10/10/2016



0 425 850 1,700 Feet

LEGEND

CIP WATERLINES INSTALLATION YEAR

- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016

WATERLINES 1999 and EARLIER

EXISTING WATER TANKS

PARKS

OPEN SPACE

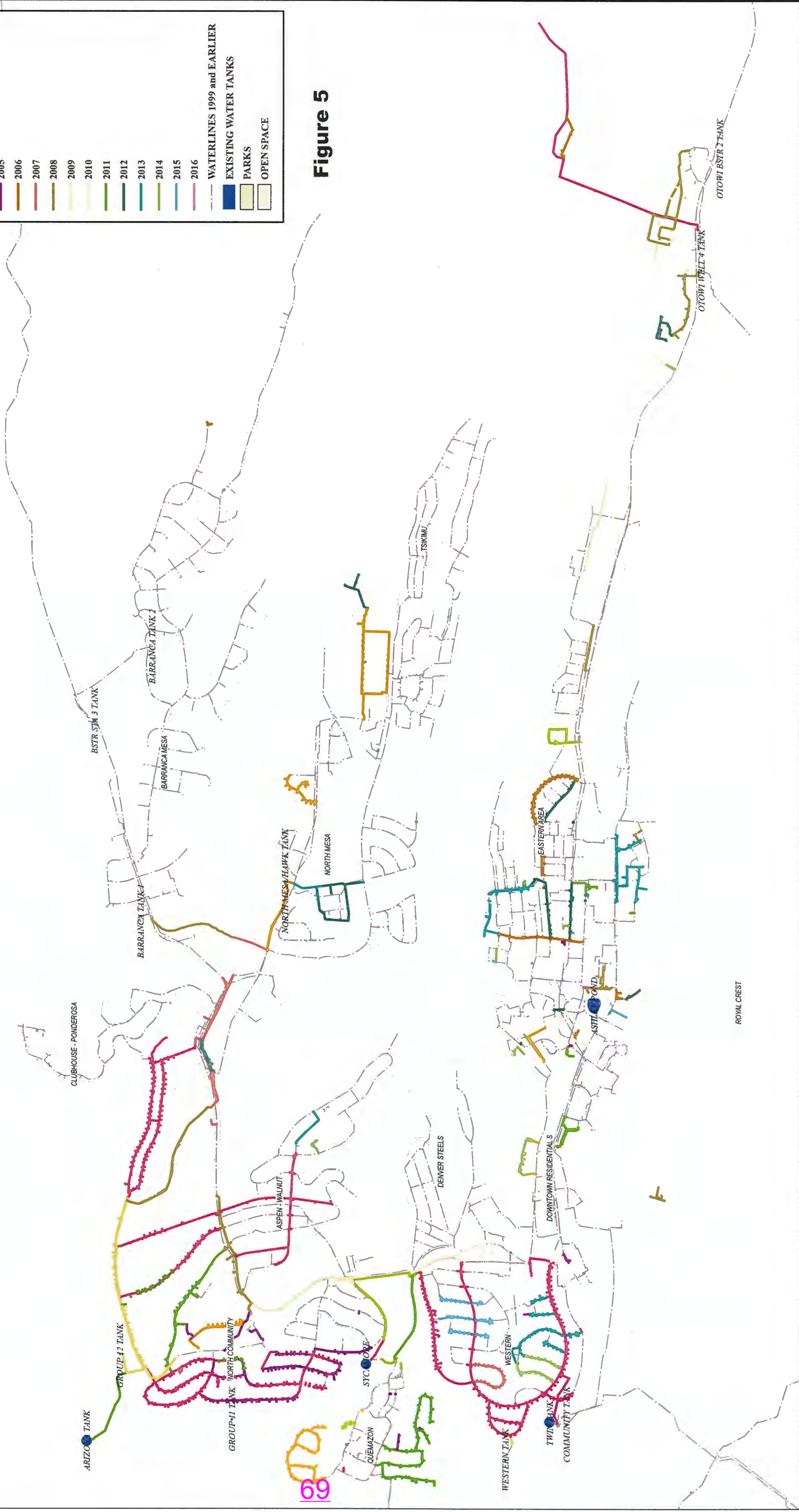
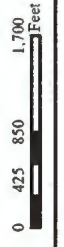


Figure 5

Los Alamos County Townsite Area Water Map



Date: 10/10/2016



LEGEND	
TRANSMISSION WATERLINES BY AGE	
	0 - 1950
	1951 - 1966
	1967 - 1991
	1992 - 2003
	2004 - 2007
	STREETS
	EXISTING WATER TANKS
	PARKS
	OPEN SPACE

Figure 6



Los Alamos County Townsite Area Water Map



Date: 10/10/2016



0 425 850 1,700 Feet

LEGEND

WATERLINES BY SIZE

- 2
- 3
- 4
- 6
- 8
- 10
- 12
- 14
- 16
- 18

- STREETS
- EXISTING WATER TANKS
- PARKS
- OPEN SPACE



Figure 7

Los Alamos County Townsite Area Water Map



Date: 10/10/2016



0 425 850 1,700 Feet

LEGEND

- | MATERIAL | EXISTING WATER TANKS |
|--------------|----------------------|
| CAST IRON | STREETS |
| DUCTILE IRON | PARKS |
| PVC | OPEN SPACE |
| POLYETHYLENE | |
| STEEL | |
| TRANSITE | |

Figure 8



LEGEND

CIP WATERLINES INSTALLATION YEAR

2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

--- WATERLINES 1999 and EARLIER

STREETS

PARKS

OPEN SPACE



0 362.5 725 1,450 Feet

Los Alamos County
White Rock Area Water Map

Date: 10/11/2016

Figure 9

LEGEND

Prior to 1950 or no record

AGE

- 1950
- 1955
- 1960
- 1966
- 1982
- 1985
- 1991
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2007

STREETS

PARKS

OPEN SPACE

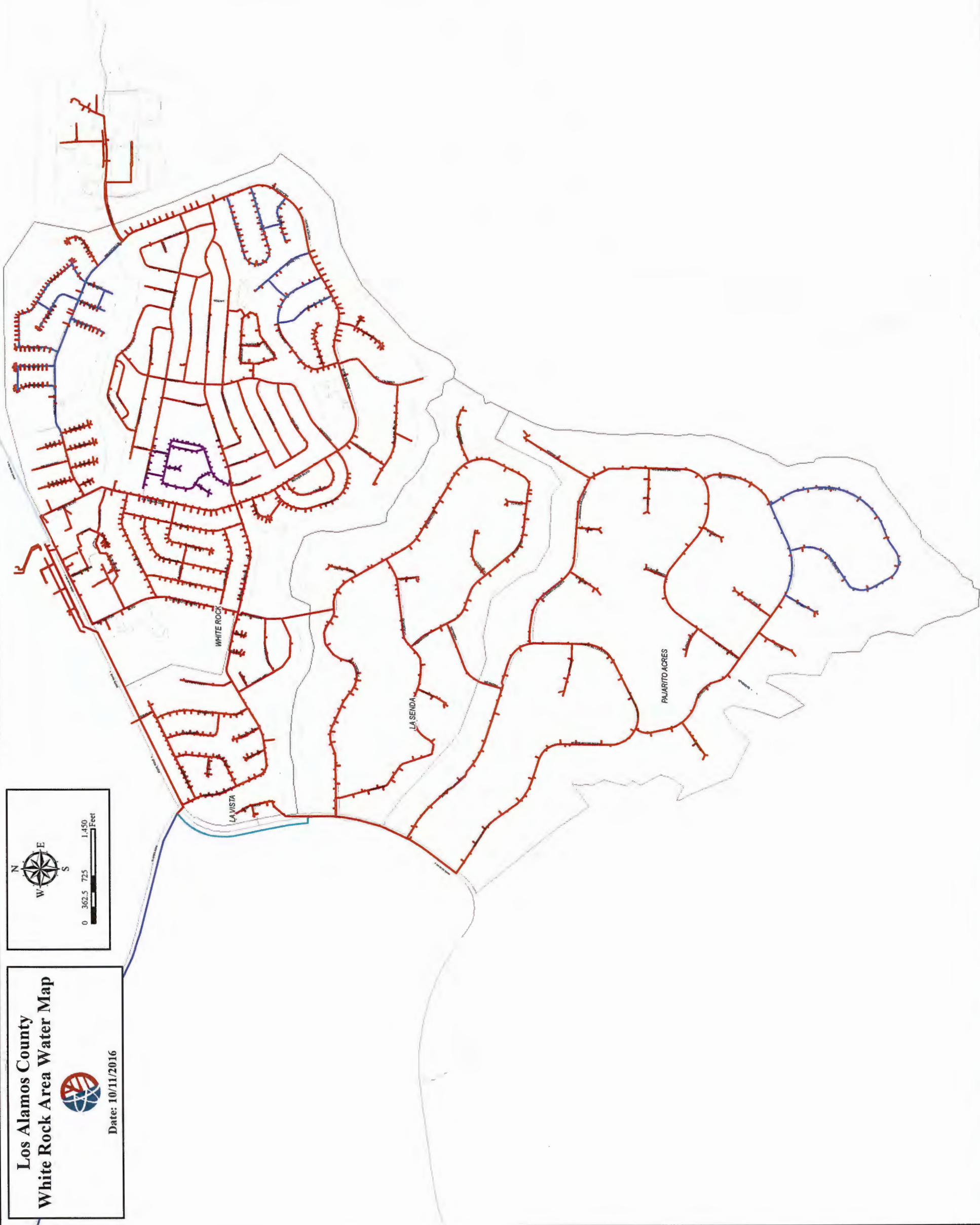


Figure 10

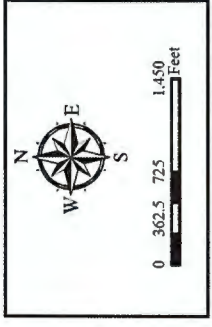
0 362.5 725 1.450 Feet

Los Alamos County
White Rock Area Water Map

Date: 10/11/2016

Los Alamos County
 White Rock Area Water Map

 Date: 10/11/2016



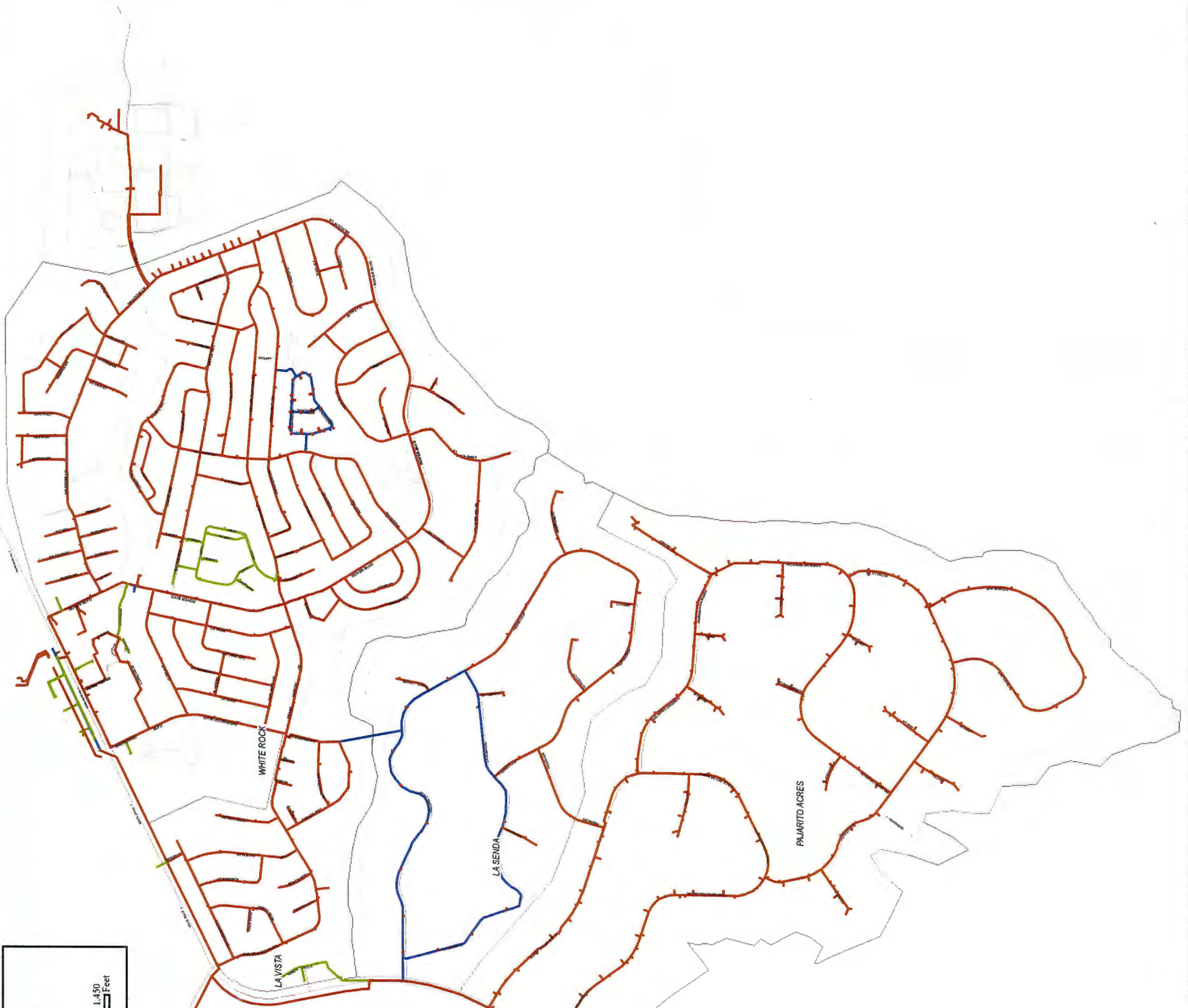
LEGEND	
WATERLINES BY SIZE	
	2
	3
	4
	6
	8
	10
	12
	14
	16
	18
STREETS	
	PARKS
	OPEN SPACE


Figure 11

LEGEND

MATERIAL	Color
CAST IRON	Red
DUCTILE IRON	Blue
PVC	Green
POLYETHYLENE	Yellow
STEEL	Orange
TRANSITE	Brown
STREETS	Grey
PARKS	Light Green
OPEN SPACE	Light Yellow

Figure 12




 0 362.5 725 1,450 Feet

Los Alamos County
White Rock Area Water Map

 Date: 10/11/2016

FORECAST SUMMARY OF CASH BALANCES FOR DW & WP EXPENSES - REVENUES - RATES MODELS																					
	ACTUAL	BUDGET	BUDGET	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Alt One	WP	10,362,736	8,155,213	8,327,763	8,475,360	8,812,750	9,276,267	6,304,380	6,464,681	3,301,384	3,094,021	2,893,116	2,698,767	2,511,071	(669,870)	(93,956)	488,916	1,078,851	1,675,953	2,280,332	(107,904)
Alt One	WP	5,673,786	4,118,566	4,167,422	4,229,927	4,320,683	4,466,230	4,549,351	7,640,860	4,729,259	4,767,798	4,806,915	4,846,619	7,886,918	4,177,822	4,219,339	4,261,480	4,304,252	4,347,666	7,391,731	4,436,456
Alt One	DW	615,779	839,058	1,496,752	1,421,548	1,364,716	2,002,024	2,341,399	2,694,865	3,062,633	3,444,917	3,841,935	4,253,909	4,681,062	5,123,623	5,831,822	6,555,894	7,296,077	8,052,613	8,825,747	9,615,728
Alt One	DW	1,513,167	1,529,483	2,290,932	2,302,046	2,138,327	2,166,688	2,181,188	2,195,906	2,210,844	2,226,007	2,241,397	2,257,018	2,272,873	2,038,966	2,055,301	2,071,880	2,088,709	2,105,789	2,123,126	2,140,723
Alt One	WP+DW	10,978,515	8,994,271	9,824,515	9,896,908	10,177,466	8,306,404	8,605,398	9,159,546	6,364,017	6,538,937	6,735,051	6,952,675	7,192,134	4,453,753	5,737,866	7,044,810	8,374,928	9,728,566	11,106,079	9,507,823
Alt One	WP+DW	7,186,953	5,648,049	6,458,354	6,531,973	6,459,010	6,632,918	6,730,539	9,836,766	6,940,104	6,993,805	7,048,312	7,103,637	10,159,792	6,216,789	6,274,640	6,333,360	6,392,960	6,453,455	9,514,857	6,577,180
		3,791,562	3,346,223	3,366,161	3,364,935	3,718,456	1,673,487	1,874,859	(677,219)	(576,087)	(454,868)	(313,262)	(150,962)	(2,967,658)	(1,763,036)	(536,774)	711,450	1,981,967	3,275,111	1,591,222	2,930,644
Alt Two	WP	10,362,736	8,155,213	8,327,763	8,515,504	8,934,790	6,722,133	6,901,914	7,375,945	7,540,457	4,717,440	4,959,557	5,269,109	5,648,462	3,100,054	3,805,081	4,519,003	5,216,745	5,923,272	6,612,875	4,311,141
Alt Two	WP	5,673,786	4,118,566	4,167,422	4,229,927	4,320,683	4,466,230	4,549,351	7,640,860	4,729,259	4,767,798	4,806,915	4,846,619	7,886,918	4,177,822	4,219,339	4,261,480	4,304,252	4,347,666	7,391,731	4,436,456
Alt Two	DW	615,779	1,085,005	784,390	546,590	374,780	880,321	1,152,326	1,437,412	1,735,774	2,047,611	2,373,126	2,712,523	3,066,012	3,433,803	3,374,581	3,319,721	3,269,289	3,223,350	3,181,971	3,116,502
Alt Two	DW	1,513,167	2,279,483	2,290,932	2,302,046	2,138,327	2,166,688	2,181,188	2,195,906	2,210,844	2,226,007	2,241,397	2,257,018	2,272,873	2,038,966	2,055,301	2,071,880	2,088,709	2,105,789	2,123,126	2,140,723
Alt Two	WP+DW	10,978,515	9,240,218	9,112,153	9,062,094	9,309,570	7,602,454	8,054,241	8,813,357	9,276,231	6,765,051	7,332,683	7,981,632	8,714,474	6,533,856	7,179,662	7,838,724	8,486,034	9,146,622	9,794,846	7,427,643
Alt Two	WP+DW	7,186,953	6,398,049	6,458,354	6,531,973	6,459,010	6,632,918	6,730,539	9,836,766	6,940,104	6,993,805	7,048,312	7,103,637	10,159,792	6,216,789	6,274,640	6,333,360	6,392,960	6,453,455	9,514,857	6,577,180
		3,791,562	2,842,169	2,653,799	2,530,121	2,850,560	969,536	1,323,701	(1,023,409)	2,336,127	(228,754)	284,371	877,995	(1,445,318)	317,068	905,022	1,505,364	2,093,073	2,693,167	279,990	850,464
Alt Three	WP	10,362,736	8,142,563	8,186,198	8,208,400	8,424,086	6,571,265	6,468,017	6,641,356	6,503,205	4,240,589	4,176,211	4,225,219	4,392,894	2,549,723	2,918,398	3,366,653	3,479,648	4,479,598	5,502,115	3,547,829
Alt Three	WP	5,419,604	3,924,544	3,942,498	3,971,011	4,024,376	4,083,548	4,116,901	4,153,665	6,316,845	4,210,447	4,239,479	4,268,946	6,433,855	4,329,213	4,360,026	4,391,302	3,558,046	3,590,267	6,622,971	3,656,166
Alt Three	DW	615,779	1,085,005	784,390	546,590	374,780	880,321	1,152,326	1,437,412	1,735,774	2,047,611	2,373,126	2,712,523	3,066,012	3,433,803	3,374,581	3,238,542	3,024,533	2,785,503	2,520,808	2,229,789
Alt Three	DW	1,513,167	2,279,483	2,290,932	2,302,046	2,138,327	2,166,688	2,181,188	2,195,906	2,210,844	2,226,007	2,241,397	2,257,018	2,272,873	2,038,966	2,055,301	2,071,880	2,088,709	2,105,789	2,123,126	2,140,723
Alt Three	WP+DW	10,978,515	9,227,568	8,970,588	8,754,989	8,798,866	7,451,586	7,620,344	8,078,768	8,238,979	6,288,201	6,549,337	6,937,742	7,458,906	5,983,526	6,292,979	6,605,195	6,504,181	7,265,101	8,022,923	5,777,617
Alt Three	WP+DW	6,932,771	6,204,027	6,233,430	6,273,057	6,162,702	6,250,236	6,298,089	6,349,570	8,527,689	6,436,454	6,480,876	6,525,964	8,706,729	6,368,180	6,415,327	6,463,182	5,646,755	5,696,056	8,746,097	5,796,889
		4,045,744	3,023,540	2,737,157	2,481,933	2,636,164	1,201,350	1,322,255	1,729,197	(288,710)	(148,254)	68,461	411,778	(1,247,822)	(384,653)	(122,348)	142,013	857,426	1,569,045	(723,174)	(19,271)

Figure 13

Expense Forecast	ACTUAL	BUDGET	BUDGET	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST			
	2016	2,017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Supervision, Misc Direct Admin	221,273	182,979	187,328	190,138	192,990	195,885	198,823	201,805	204,833	207,905	211,024	214,189	217,402	220,663	223,973	227,332	230,742	234,203	237,717	241,282	244,902	
Hydrants	71,088	58,860	59,924	60,823	61,735	62,661	63,601	64,555	65,523	66,506	67,504	68,517	69,544	70,587	71,646	72,721	73,812	74,919	76,043	77,183	78,341	
Water Distribution	369,040	403,107	409,154	415,291	421,520	427,843	434,261	440,779	447,396	454,097	460,909	467,822	474,839	481,962	489,191	496,529	503,977	511,537	519,210	526,998	534,903	
Water Meters	655,736	691,719	699,002	700,000	700,000	350,000	355,250	360,579	365,987	371,477	377,049	382,705	388,446	394,272	400,186	406,189	412,282	418,466	424,743	431,115	437,581	
Interdepartmental Charges	225,566	251,649	251,649	255,424	259,255	263,144	267,091	271,097	275,164	279,291	283,481	287,733	292,049	296,430	300,876	305,389	309,970	314,620	319,339	324,129	328,991	
Administrative Division Allocation	520,812	538,020	551,910	560,189	568,591	577,120	585,777	594,564	603,482	612,535	621,723	631,048	640,514	650,122	659,874	669,772	679,818	690,016	700,366	710,871	721,534	
Cost of Water	2,528,096	2,705,409	2,705,409	2,745,990	2,787,180	2,828,987	2,871,422	2,914,494	2,958,211	3,002,584	3,047,623	3,093,337	3,139,737	3,186,833	3,234,636	3,283,155	3,332,403	3,382,389	3,433,125	3,484,621	3,536,891	
Capital Annuity				750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	
Capital	443,092																					
Total Operation Expenses	4,591,611	4,831,743	4,864,375	4,927,854	4,991,272	4,705,641	4,776,225	4,847,869	4,920,587	4,994,396	5,069,312	5,145,351	5,222,532	5,300,870	5,380,383	5,461,088	5,543,005	5,626,150	5,710,542	5,796,200	5,883,143	
Total Capital Expenditures	443,092	0	0	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	
Total Expenditures	5,034,703	4,831,743	4,864,375	5,677,854	5,741,272	5,455,641	5,526,225	5,597,869	5,670,587	5,744,396	5,819,312	5,895,351	5,972,532	6,050,870	6,130,383	6,043,005	6,126,150	6,210,542	6,296,200	6,383,143	6,471,143	
Revenue Forecast																						
kgal Sales	850,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	
Revenue per kgal	\$ 5.43	6 \$	6.57 \$	6.67 \$	6.77 \$	6.87 \$	6.97 \$	7.08 \$	7.18 \$	7.29 \$	7.40 \$	7.51 \$	7.63 \$	7.74 \$	7.86 \$	7.97 \$	8.09 \$	8.21 \$	8.34 \$	8.46 \$	8.59 \$	
Rate Increase Percentage		10.00%	10.00%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	
Total Sales Revenue	4,615,500	4,629,075	5,091,983	5,168,362	5,245,888	5,324,576	5,404,445	5,485,511	5,567,794	5,651,311	5,736,081	5,822,122	5,909,454	5,998,095	6,088,067	6,179,388	6,272,079	6,366,160	6,461,652	6,558,577	6,656,956	
Interest on Utility Reserves	520,525	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
Revenue on Recoverable Work	271,869	275,947	280,086	284,288	288,552	292,880	297,274	301,733	306,259	310,852	315,515	320,248	325,052	329,927	334,876	339,900	344,998	350,173	355,426	360,757	366,168	
Bond Issue Proceeds																						
Total Cash Inflow from Operations	5,407,894	5,055,022	5,522,069	5,602,650	5,684,440	5,767,456	5,851,718	5,937,244	6,024,053	6,112,163	6,201,596	6,292,370	6,384,505	6,478,023	6,572,943	6,669,287	6,767,077	6,866,333	6,967,078	7,069,334	7,173,124	
Net Cash Flow	373,191	223,279	657,694	(75,204)	(56,832)	311,815	325,493	339,375	353,466	367,768	382,284	397,018	411,974	427,153	442,561	458,199	474,072	490,183	506,536	523,134	540,000	
Cumulative Net Cash Flow	373,191	596,471	1,254,164	1,178,960	1,122,128	1,433,944	1,759,437	2,098,812	2,452,277	2,820,045	3,202,329	3,599,348	4,011,321	4,438,475	4,881,035	5,349,234	5,838,306	6,348,490	6,879,626	7,431,760	7,994,894	
Cash Balance	615,779	839,058	1,496,752	1,421,548	1,364,716	1,676,531	2,002,024	2,341,399	2,694,865	3,062,633	3,444,917	3,841,935	4,253,909	4,681,062	5,123,623	5,583,822	6,055,894	6,548,727	7,053,490	7,569,267	8,097,051	
Recommended Cash Balance	1,513,167	1,529,483	2,290,932	2,302,046	2,138,327	2,152,402	2,166,688	2,181,188	2,195,906	2,210,844	2,226,007	2,241,397	2,257,018	2,272,873	2,038,966	2,055,301	2,071,880	2,088,709	2,105,789	2,123,126	2,140,723	
Alter, One Retail (DW) Water Rates / kgal																						
Residential Tier 1 - < 9,000 gals	\$4.19	5	\$5.07	\$5.15	\$5.22	\$5.30	\$5.38	\$5.46	\$5.54	\$5.63	\$5.71	\$5.80	\$5.88	\$5.97	\$6.06	\$6.15	\$6.24	\$6.34	\$6.43	\$6.53	\$6.63	
Residential Tier 2 - 9 to 15,000 gals	\$4.45	5	\$5.38	\$5.47	\$5.55	\$5.63	\$5.71	\$5.80	\$5.89	\$5.98	\$6.07	\$6.16	\$6.25	\$6.34	\$6.44	\$6.53	\$6.63	\$6.73	\$6.83	\$6.94	\$7.04	
Residential Tier 3 - > 15,000 gals	\$5.32	6	\$6.44	\$6.53	\$6.63	\$6.73	\$6.83	\$6.93	\$7.04	\$7.14	\$7.25	\$7.36	\$7.47	\$7.58	\$7.70	\$7.81	\$7.93	\$8.05	\$8.17	\$8.29	\$8.42	
Multi-Family Tier 1 - < 9,000 gals	\$4.19	5	\$5.07	\$5.15	\$5.22	\$5.30	\$5.38	\$5.46	\$5.54	\$5.63	\$5.71	\$5.80	\$5.88	\$5.97	\$6.06	\$6.15	\$6.24	\$6.34	\$6.43	\$6.53	\$6.63	
Multi-Family Tier 2 - 9 to 15,000 gals	\$4.40	5	\$5.32	\$5.40	\$5.48	\$5.57	\$5.65	\$5.74	\$5.82	\$5.91	\$6.00	\$6.09	\$6.18	\$6.27	\$6.37	\$6.46	\$6.56	\$6.66	\$6.76	\$6.86	\$6.96	
Multi-Family Tier 3 - > 15,000 gals	\$4.50	5	\$5.45	\$5.53	\$5.61	\$5.69	\$5.78	\$5.87	\$5.95	\$6.04	\$6.13	\$6.23	\$6.32	\$6.41	\$6.51	\$6.61	\$6.71	\$6.81	\$6.91	\$7.01	\$7.12	
Commercial All Tiers	\$4.61	5	\$5.58	\$5.66	\$5.75	\$5.83	\$5.92	\$6.01	\$6.10	\$6.19	\$6.28	\$6.38	\$6.47	\$6.57	\$6.67	\$6.77	\$6.87	\$6.97	\$7.08	\$7.18	\$7.29	
County & Schools All Tiers	\$4.61	5	\$5.58	\$5.66	\$5.75	\$5.83	\$5.92	\$6.01	\$6.10	\$6.19	\$6.28	\$6.38	\$6.47	\$6.57	\$6.67	\$6.77	\$6.87	\$6.97	\$7.08	\$7.18	\$7.29	
Customer Charge per Meter Size																						
= or < 1.25"	\$7.93	9	\$9.60	\$9.74	\$9.89	\$10.03	\$10.18	\$10.34	\$10.49	\$10.65	\$10.81	\$10.97	\$11.14	\$11.30	\$11.47	\$11.64	\$11.82	\$12.00	\$12.18	\$12.36	\$12.54	
1.5"	\$25.12	28	\$30.85	\$31.31	\$31.78	\$32.26	\$32.74	\$33.24	\$33.73	\$34.24	\$34.75	\$35.27	\$35.80	\$36.34	\$36.87	\$37.41	\$37.96	\$38.51	\$39.07	\$39.64	\$40.22	
2"	\$37.50	41	\$45.38	\$46.06	\$46.75	\$47.45	\$48.16	\$48.88	\$49.61	\$50.36	\$51.11	\$51.88	\$52.66	\$53.45	\$54.25	\$55.06	\$55.89	\$56.73	\$57.58	\$58.44	\$59.32	
2.5" to 3"	\$74.00	81	\$89.54	\$90.88	\$92.25	\$93.63	\$95.03	\$96.46	\$97.91	\$99.38	\$100.87	\$102.38	\$103.91	\$105.47	\$107.06	\$108.66	\$110.29	\$111.95	\$113.62	\$115.33	\$117.06	
4"	\$126.00	139	\$152.46	\$154.75	\$157.07	\$159.42	\$161.82	\$164.24	\$166.71	\$169.21	\$171.75	\$174.32	\$176.94	\$179.59	\$182.28	\$185.02	\$187.79	\$190.61	\$193.47	\$196.37	\$199.32	
6"	\$266.00	293	\$321.86	\$326.69	\$331.59	\$336.56	\$341.61	\$346.73	\$351.94	\$357.21	\$362.57	\$368.01	\$373.53	\$379.13	\$384.82	\$390.59	\$396.45	\$402.40	\$408.44	\$414.56	\$420.74	
8"	\$439.50	483	\$531.80	\$539.77	\$547.87	\$556.09	\$564.43	\$572.89	\$581.49	\$590.21	\$599.06	\$608.05	\$617.17	\$626.43	\$635.82	\$645.36	\$655.04	\$664.87	\$674.84	\$684.96	\$695.24	

Figure 14

Expense Forecast	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Supervision, Misc Direct Admin	221,273	182,979	187,328	190,138	192,990	195,885	198,823	201,805	204,833	207,905	211,024	214,189	217,402	220,663	223,973	227,332	230,742	234,203	237,717	241,282	244,902
Hydrants	71,088	58,860	59,924	60,823	61,735	62,661	63,601	64,555	65,523	66,506	67,504	68,517	69,544	70,587	71,646	72,721	73,812	74,919	76,043	77,183	78,341
Water Distribution	369,040	403,107	409,154	415,291	421,520	427,843	434,261	440,775	447,386	454,097	460,909	467,822	474,839	481,962	489,197	496,529	503,977	511,537	519,210	526,998	534,903
Water Meters	655,736	691,719	699,002	700,000	700,000	350,000	355,250	360,579	365,987	371,477	377,049	382,705	388,446	394,272	400,186	406,189	412,282	418,466	424,743	431,115	437,581
Interdepartmental Charges	225,566	251,649	251,649	255,424	259,255	263,144	267,091	271,097	275,164	279,291	283,481	287,733	292,049	296,430	300,876	305,389	309,970	314,620	319,339	324,129	328,991
Administrative Division Allocation	520,812	538,020	551,910	560,189	568,591	577,120	585,777	594,564	603,482	612,535	621,723	631,048	640,514	650,122	659,874	669,772	679,818	690,016	700,366	710,871	721,534
Cost of Water	2,528,096	2,459,463	2,705,409	2,745,990	2,787,180	2,828,987	2,871,422	2,914,494	2,958,211	3,002,584	3,047,623	3,093,337	3,139,737	3,186,833	3,234,636	3,283,155	3,332,403	3,382,389	3,433,125	3,484,621	3,536,891
Capital Annuity			750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	500,000	500,000	500,000	500,000	500,000	500,000
Capital			443,092																		
Total Operation Expenses	4,591,611	4,585,797	4,864,375	4,927,854	4,991,272	4,705,641	4,776,225	4,847,869	4,920,587	4,994,396	5,069,312	5,145,351	5,222,532	5,300,870	5,380,383	5,461,088	5,543,005	5,626,150	5,710,542	5,796,200	5,883,143
Total Capital Expenditures	443,092	0	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	500,000	500,000	500,000	500,000	500,000	500,000
Total Expenditures	5,034,703	4,585,797	5,614,375	5,677,854	5,741,272	5,455,641	5,526,225	5,597,869	5,670,587	5,744,396	5,819,312	5,895,351	5,972,532	6,050,870	6,130,383	5,961,088	6,043,005	6,126,150	6,210,542	6,296,200	6,383,143
Revenue Forecast																					
kgal Sales	850,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000
Revenue per kgal	\$ 5.43	\$ 5.97	\$ 6.30	\$ 6.46	\$ 6.62	\$ 6.79	\$ 6.89	\$ 6.99	\$ 7.10	\$ 7.20	\$ 7.20	\$ 7.31	\$ 7.42	\$ 7.53	\$ 7.64	\$ 7.76	\$ 7.88	\$ 7.98	\$ 8.08	\$ 8.18	\$ 8.28
Rate Increase Percentage	10.00%	5.50%	5.50%	2.50%	2.50%	2.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	0.00%	0.00%	0.00%	1.00%	1.00%
Total Sales Revenue	4,615,500	4,629,075	4,883,674	5,005,766	5,130,910	5,259,183	5,388,071	5,518,142	5,649,414	5,781,905	5,915,634	6,050,618	6,186,877	6,324,431	6,462,297	6,601,467	6,741,056	6,881,074	7,021,542	7,162,470	7,303,869
Interest on Utility Reserves	520,525	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Revenue on Recoverable Work	271,869	275,947	280,086	284,288	288,552	292,880	297,274	301,733	306,259	310,852	315,515	320,248	325,052	329,927	334,876	339,900	344,998	350,173	355,426	360,757	366,168
Bond Issue Proceeds																					
Total Cash Inflow from Operations	5,407,894	5,055,022	5,313,761	5,440,054	5,569,462	5,702,063	5,835,344	5,968,874	6,102,673	6,241,757	6,386,149	6,535,866	6,690,929	6,851,431	7,017,503	7,189,376	7,367,054	7,550,627	7,740,203	7,935,980	8,138,037
Net Cash Flow	373,191	469,226	(300,615)	(237,800)	(171,810)	246,422	259,119	272,005	285,086	298,362	311,837	325,515	339,398	353,488	367,791	(59,221)	(136,039)	(214,009)	(239,029)	(264,695)	(291,019)
Cumulative Net Cash Flow	373,191	842,417	541,802	304,002	132,192	378,615	637,733	909,739	1,194,824	1,493,186	1,805,024	2,130,538	2,469,936	2,823,424	3,191,215	3,131,994	2,995,954	2,781,945	2,542,916	2,278,220	1,987,201
Cash Balance	615,779	1,085,005	784,390	546,590	374,780	621,202	880,321	1,152,326	1,437,412	1,735,774	2,047,611	2,373,126	2,712,523	3,066,012	3,433,803	3,374,581	3,238,542	3,024,533	2,785,503	2,520,808	2,229,789
Recommended Cash Balance	1,513,167	2,279,483	2,290,932	2,302,046	2,138,327	2,152,402	2,166,688	2,181,188	2,195,906	2,210,844	2,226,007	2,241,397	2,257,018	2,272,873	2,038,966	2,055,301	2,071,880	2,088,709	2,105,789	2,123,126	2,140,723
After One Retail (DW) Water Rates / kgal																					
Residential Tier 1 - < 9,000 gals	\$4.19	\$4.61	\$4.86	\$4.98	\$5.11	\$5.24	\$5.31	\$5.39	\$5.48	\$5.56	\$5.64	\$5.73	\$5.81	\$5.90	\$5.99	\$6.07	\$6.16	\$6.25	\$6.34	\$6.43	\$6.52
Residential Tier 2 - 9 to 15,000 gals	\$4.45	\$4.90	\$5.16	\$5.29	\$5.43	\$5.56	\$5.64	\$5.73	\$5.82	\$5.90	\$5.99	\$6.08	\$6.17	\$6.26	\$6.36	\$6.45	\$6.54	\$6.64	\$6.73	\$6.83	\$6.93
Residential Tier 3 - > 15,000 gals	\$5.32	\$5.85	\$6.17	\$6.33	\$6.49	\$6.65	\$6.75	\$6.85	\$6.95	\$7.06	\$7.16	\$7.27	\$7.38	\$7.49	\$7.60	\$7.71	\$7.82	\$7.93	\$8.04	\$8.15	\$8.26
Multi-Family Tier 1 - < 9,000 gals	\$4.19	\$4.61	\$4.86	\$4.98	\$5.11	\$5.24	\$5.31	\$5.39	\$5.48	\$5.56	\$5.64	\$5.73	\$5.81	\$5.90	\$5.99	\$6.07	\$6.16	\$6.25	\$6.34	\$6.43	\$6.52
Multi-Family Tier 2 - 9 to 15,000 gals	\$4.40	\$4.84	\$5.11	\$5.23	\$5.36	\$5.50	\$5.58	\$5.67	\$5.75	\$5.84	\$5.92	\$6.01	\$6.10	\$6.19	\$6.29	\$6.38	\$6.48	\$6.57	\$6.67	\$6.77	\$6.87
Multi-Family Tier 3 - > 15,000 gals	\$4.50	\$4.95	\$5.22	\$5.35	\$5.49	\$5.62	\$5.71	\$5.79	\$5.88	\$5.97	\$6.06	\$6.15	\$6.24	\$6.34	\$6.43	\$6.53	\$6.63	\$6.73	\$6.83	\$6.93	\$7.03
Commercial All Tiers	\$4.61	\$5.07	\$5.35	\$5.48	\$5.62	\$5.76	\$5.85	\$5.94	\$6.02	\$6.11	\$6.21	\$6.30	\$6.39	\$6.49	\$6.59	\$6.69	\$6.79	\$6.89	\$6.99	\$7.09	\$7.19
County & Schools All Tiers	\$4.61	\$5.07	\$5.35	\$5.48	\$5.62	\$5.76	\$5.85	\$5.94	\$6.02	\$6.11	\$6.21	\$6.30	\$6.39	\$6.49	\$6.59	\$6.69	\$6.79	\$6.89	\$6.99	\$7.09	\$7.19
Customer Charge per Meter Size																					
= or < 1.25"	\$7.93	\$8.72	\$9.20	\$9.43	\$9.67	\$9.91	\$10.06	\$10.21	\$10.36	\$10.52	\$10.68	\$10.84	\$11.00	\$11.16	\$11.33	\$11.50	\$11.67	\$11.84	\$12.01	\$12.19	\$12.37
1.5"	\$25.12	\$27.63	\$29.15	\$29.88	\$30.63	\$31.39	\$32.16	\$32.94	\$33.73	\$34.53	\$35.34	\$36.15	\$36.97	\$37.80	\$38.64	\$39.49	\$40.34	\$41.20	\$42.07	\$42.95	\$43.84
2"	\$37.50	\$41.25	\$43.52	\$44.61	\$45.72	\$46.86	\$48.01	\$49.17	\$50.34	\$51.52	\$52.71	\$53.91	\$55.11	\$56.32	\$57.54	\$58.76	\$60.00	\$61.24	\$62.49	\$63.74	\$65.00
2.5" to 3"	\$74.00	\$81.40	\$85.88	\$88.02	\$90.22	\$92.48	\$94.79	\$97.14	\$99.53	\$101.96	\$104.43	\$106.94	\$109.49	\$112.08	\$114.70	\$117.36	\$120.05	\$122.78	\$125.54	\$128.34	\$131.17
4"	\$126.00	\$138.60	\$146.22	\$149.88	\$153.63	\$157.47	\$161.37	\$165.32	\$169.32	\$173.37	\$177.47	\$181.61	\$185.80	\$190.04	\$194.33	\$198.67	\$203.06	\$207.50	\$212.00	\$216.54	\$221.13
6"	\$266.00	\$292.60	\$308.69	\$316.41	\$324.32	\$332.43	\$340.74	\$349.24	\$357.94	\$366.83	\$375.92	\$385.20	\$394.67	\$404.34	\$414.20	\$424.25	\$434.50	\$444.94	\$455.57	\$466.39	\$477.40
8"	\$439.50	\$483.45	\$510.04	\$522.79	\$535.86	\$549.26	\$563.00	\$577.09	\$591.53	\$606.32	\$621.41	\$636.80	\$652.49	\$668.48	\$684.77	\$701.36	\$718.25	\$735.44	\$752.93	\$770.72	\$788.81

Figure 18

Expense Forecast	ACTUAL 2016	BUDGET 2017	BUDGET 2018	FORECAST 2019	FORECAST 2020	FORECAST 2021	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032	FORECAST 2033	FORECAST 2034	FORECAST 2035	FORECAST 2036
Supervision and Operations	957,506	975,822	990,459	1,005,316	1,020,396	1,035,702	1,051,237	1,067,006	1,083,011	1,099,256	1,115,745	1,132,481	1,149,468	1,166,711	1,184,211	1,201,974	1,220,004	1,238,304	1,256,879	1,275,732	1,294,868
Pumping Power	522,501	800,000	812,000	824,180	836,543	849,091	861,827	874,755	887,876	901,194	914,712	928,433	942,359	956,495	970,842	985,405	1,000,186	1,015,188	1,030,416	1,045,873	1,061,561
Wells	83,059	137,508	139,571	141,664	143,789	145,946	148,135	150,357	152,613	154,902	157,225	159,584	161,977	164,407	166,873	169,376	171,917	174,496	177,113	179,770	182,466
Booster Pump Stations	121,154	125,236	127,115	129,021	130,957	132,921	134,915	136,938	138,993	141,077	143,194	145,341	147,522	149,734	151,980	154,260	156,574	158,923	161,307	163,726	166,182
Treatment	42,144	105,199	106,777	108,379	110,004	111,654	113,329	115,029	116,755	118,506	120,283	122,088	123,919	125,778	127,665	129,579	131,523	133,496	135,498	137,531	139,594
Storage Tanks	20,317	19,600	19,894	20,192	20,495	20,803	21,115	21,431	21,753	22,079	22,410	22,747	23,088	23,434	23,786	24,142	24,505	24,872	25,245	25,624	26,008
Transmission Lines	54,999	65,509	66,492	67,489	68,501	69,529	70,572	71,630	72,705	73,795	74,902	76,026	77,166	78,324	79,499	80,691	81,901	83,130	84,377	85,643	86,927
Non Potable System	176,711	642,187	372,422	300,000	300,000	315,000	315,000	324,521	334,344	339,389	334,330	339,344	344,435	349,601	354,845	360,168	371,054	376,620	382,269	388,003	388,003
Interdepartmental Charges	227,774	263,893	267,851	271,869	275,947	280,086	284,288	288,552	292,880	297,274	301,733	306,259	310,852	315,515	320,248	325,052	329,927	334,876	339,900	344,998	350,173
Administrative Division Allocation	521,533	505,254	512,833	520,525	528,333	536,258	544,302	552,467	560,754	569,165	577,702	586,368	595,163	604,091	613,152	622,350	631,685	641,160	650,777	660,539	670,447
State Water Tax	34,855	45,000	45,675	46,360	47,056	47,761	48,478	49,205	49,943	50,692	51,453	52,224	53,008	53,803	54,610	55,429	56,260	57,104	57,961	58,830	59,713
Debt Service	222,382	254,182	309,021	339,924	373,916	411,308	452,438	497,682	547,450	602,195	662,415	723,351	782,436	842,673	903,063	963,609	1,024,313	1,085,178	1,146,205	1,207,399	1,268,760
Capital Annuity - NP R&R		127,000	129,000	160,000	165,000	187,000	187,000	195,000	201,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000
Capital Annuity - WP CIP & R&R			1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000
Capital - WP CIP	1,937,194	3,000,000									3,000,000										3,000,000
Capital Paid with Debt/Grants	550,000	483,300	712,500	618,750	825,000	975,000	562,500	487,500	693,750	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000
Capital Paid with Reserves																					
Total Operation Expenses	2,984,935	3,939,390	3,770,110	3,774,920	3,855,937	3,956,059	4,045,636	4,144,778	4,249,253	4,359,525	4,476,104	4,543,246	4,611,394	4,680,565	4,750,774	4,822,035	4,894,366	4,967,781	5,042,298	5,117,933	5,194,702
Total Capital Expenditures	1,937,194	3,000,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000	1,615,000
Total Cash Outflow	4,922,129	6,939,390	5,385,110	5,389,920	5,470,937	5,571,059	7,795,636	5,759,778	5,864,253	5,974,525	8,226,104	6,158,246	6,226,394	6,295,565	8,500,774	6,437,035	6,509,366	6,582,781	6,792,298	5,867,933	8,944,702
Revenue Forecast																					
Production in thousand gallons (NP)	84,500	86,400	86,400	90,400	90,400	94,500	94,500	108,600	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500	136,500
Revenue per thousand gallons (NP)	\$ 1.15	\$ 1.15	\$ 2.50	\$ 2.58	\$ 2.66	\$ 2.74	\$ 2.83	\$ 2.92	\$ 3.01	\$ 3.11	\$ 3.20	\$ 3.30	\$ 3.41	\$ 3.52	\$ 3.63	\$ 3.74	\$ 3.86	\$ 3.98	\$ 4.11	\$ 4.24	\$ 4.37
Rate Increase Percentage			117.00%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%	3.15%
Total Sales Revenue (NP)	\$ 97,175	\$ 99,360	\$ 216,000	\$ 233,119	\$ 240,462	\$ 259,286	\$ 267,454	\$ 317,041	\$ 411,044	\$ 423,992	\$ 437,347	\$ 451,124	\$ 465,334	\$ 479,992	\$ 495,112	\$ 510,708	\$ 526,795	\$ 543,389	\$ 560,506	\$ 578,162	\$ 596,374
Production in thousand gallons	1,250,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000
Revenue per thousand gallons	\$ 2.88	\$ 3.16	\$ 3.48	\$ 3.53	\$ 3.58	\$ 3.64	\$ 3.71	\$ 3.78	\$ 3.86	\$ 3.96	\$ 4.06	\$ 4.16	\$ 4.30	\$ 4.45	\$ 4.61	\$ 4.72	\$ 4.84	\$ 4.60	\$ 4.67	\$ 4.74	\$ 4.81
Rate Increase Percentage		10.00%	10.00%	1.50%	1.50%	1.50%	2.00%	2.00%	2.00%	2.50%	2.50%	2.50%	3.50%	3.50%	3.50%	2.50%	2.50%	-5.00%	1.50%	1.50%	1.50%
Total Sales Revenue	3,606,504	3,636,875	4,000,563	4,060,571	4,121,480	4,183,302	4,266,968	4,352,307	4,439,353	4,550,337	4,664,095	4,780,698	4,948,022	5,121,203	5,300,445	5,432,956	5,568,780	5,290,341	5,369,696	5,450,242	5,531,995
Interest on Inter-Utility Loans	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106	182,106
Interest on Utility Reserves	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Other Revenue	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000
Bond Federal Subsidy	27,576	27,576	27,576	27,576	27,576	27,576	27,576	27,576	21,338	14,940	14,940	14,940	14,940	14,940	14,940	14,940	14,940	14,940	14,940	14,940	14,940
Federal or State Grant/Loan	550,000	483,300	712,500	618,750	825,000	975,000	562,500	487,500	693,750	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000
Inter-Utility Loan																					
Total Cash Inflow	4,753,361	4,719,217	5,428,745	5,412,122	5,686,624	5,917,270	5,596,604	5,656,530	6,037,591	5,836,374	5,963,488	6,093,867	6,275,402	6,463,241	6,657,603	6,805,710	6,957,621	6,695,776	6,792,248	6,890,449	6,990,415
Net Cash Flow	(168,768)	(220,173)	43,635	22,202	215,687	346,211	(2,199,033)	(103,247)	173,338	(138,150)	(2,262,616)	(64,378)	49,008	167,676	(1,843,171)	368,675	448,255	112,995	999,950	1,022,517	(1,954,286)
Cumulative Net Cash Flow	(168,768)	(2,388,941)	(2,345,306)	(2,323,104)	(2,107,418)	(1,761,207)	(3,960,239)	(4,063,487)	(3,890,148)	(4,028,299)	(6,290,915)	(6,355,293)	(6,306,285)	(6,138,610)	(7,981,781)	(7,613,106)	(7,164,851)	(7,051,856)	(6,051,906)	(5,029,389)	(6,983,675)
Cash Balance	10,362,736	8,142,563	8,186,198	8,208,400	8,424,086	8,770,297	6,571,265	6,468,017	6,641,356	6,503,205	4,240,589	4,176,211	4,225,219	4,392,894	2,549,723	2,918,398	3,366,653	3,479,648	4,479,598	5,502,115	3,547,829
Recommended Cash Balance	5,419,604	3,924,544	3,942,498	3,971,011	4,024,376	6,183,599	4,083,548	4,116,901	4,153,665	6,316,845	4,210,447	4,239,479	4,268,946	6,433,855	4,329,213	4,360,026	4,391,302	3,558,046	3,590,267	6,622,971	3,656,166
Alter, One Wholesale (WP) Water Rates / kgal	\$2.89	\$3.16	\$3.48	\$3.53	\$3.58	\$3.64	\$3.71	\$3.78	\$3.86	\$3.96	\$4.06	\$4.16	\$4.30	\$4.45	\$4.61	\$4.72	\$4.84	\$4.60	\$4.67	\$4.74	\$4.81
Alter, One Non-Potable (NP) Water Rates / kgal	\$1.15	\$1.15	\$2.50	\$2.58	\$2.66	\$2.74	\$2.83	\$2.92	\$3.01	\$3.11	\$3.20	\$3.30	\$3.41	\$3.52	\$3.63	\$3.74	\$3.86	\$3.98	\$4.11	\$4.24	\$4.37

Figure 19

Los Alamos County Utilities Water System Condition Assessment Transmission System



LAC Water Utilities Transmission System:
231,620 feet; ~44 miles



1:30,000

1 inch equals 2,500 feet



Age	Length (feet)
1950-1959	72,980
1960-1969	88,655
1970-1979	3,205
1980-1989	24,710
1990-1999	15,570
2000-2010	26,500
Transmission System Total	231,620

Legend

TRANSMISSION LINES - AGE

PIPE AGE

- 1950 - 1959
- 1960 - 1969
- 1970 - 1979
- 1980 - 1989
- 1990 - 1999
- 2000 - 2010

Los Alamos County Utilities Water System Condition Assessment Transmission System

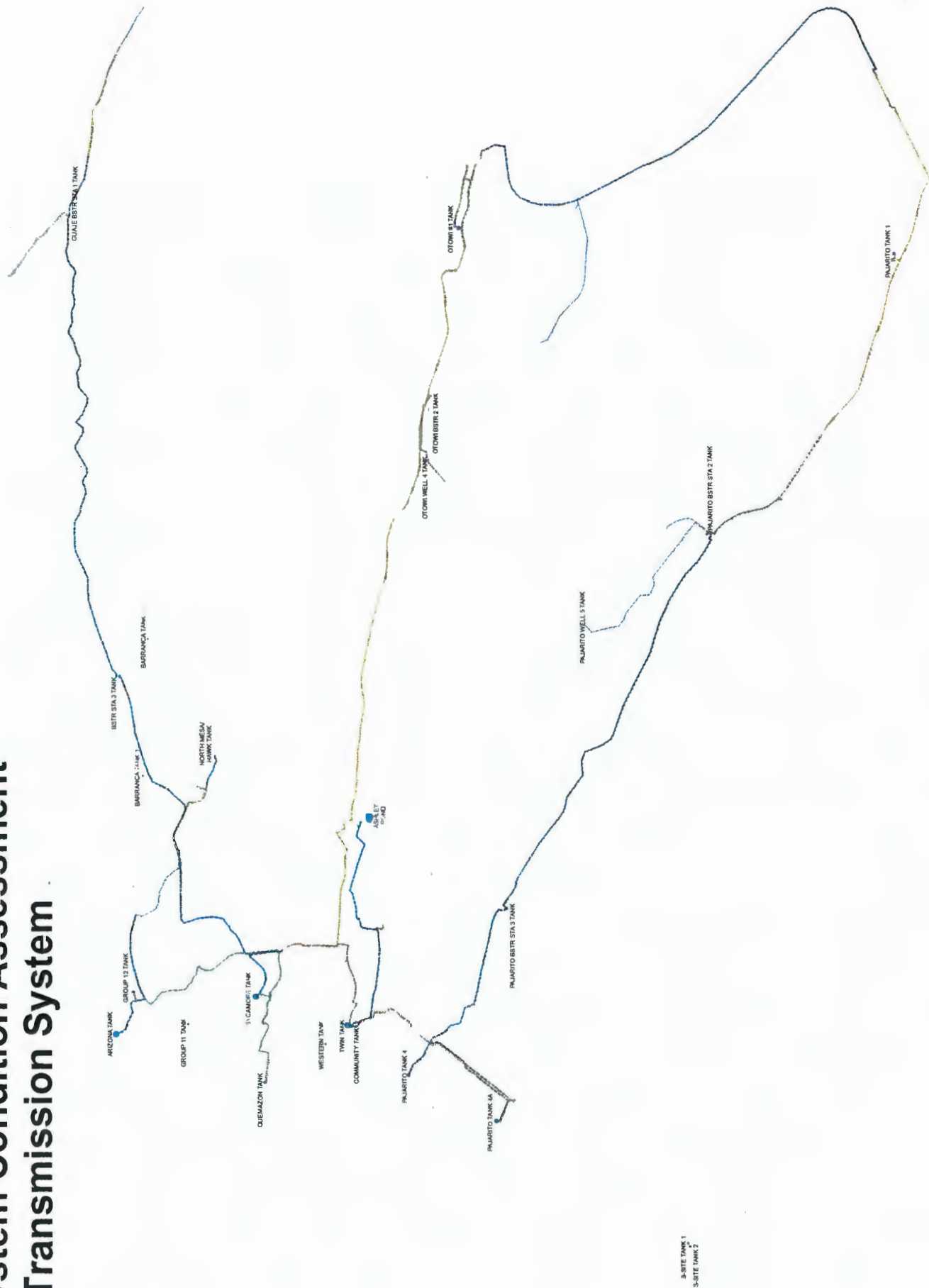


LAC Water Utilities Transmission System:
231,620 feet; ~44 miles



1:30,000

1 inch equals 2,500 feet



Transmission System Statistics	
Size	Length (feet)
8"	65
10"	21,310
12"	33,870
14"	66,600
16"	100,310
18"	9,465
Transmission System Total	
	231,620

Legend	
PIPE SIZE	
—	6"
—	8"
—	10"
—	12"
—	14"
—	16"
—	18"

Los Alamos County Utilities Water System Condition Assessment Transmission System

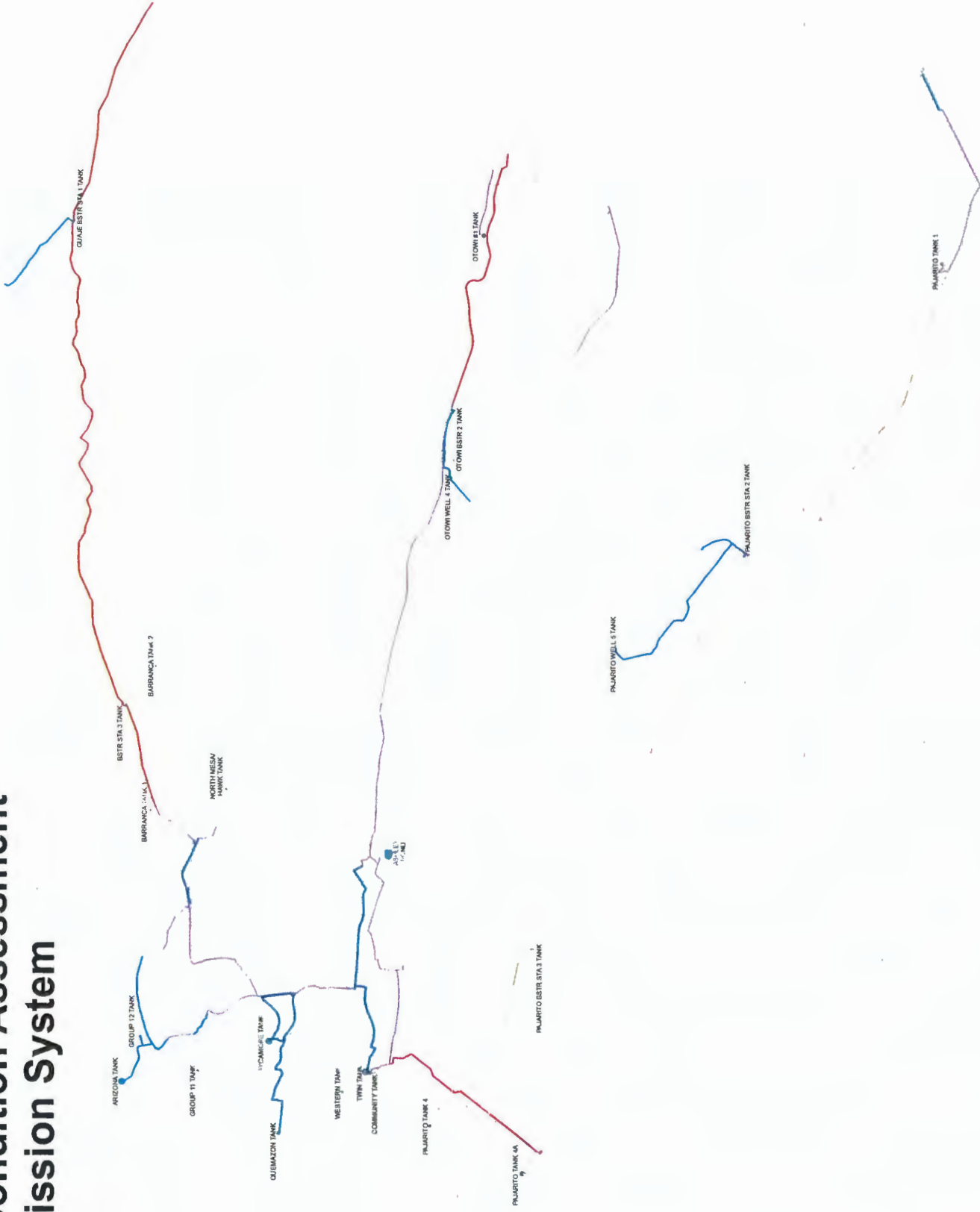


LAC Water Utilities Transmission System:
231,620 feet; ~44 miles



1:30,000

1 inch equals 2,500 feet



Transmission System Statistics	
Material	Length (feet)
CAST IRON	66,016
CONCRETE	62,540
DUCTILE IRON	48,377
STEEL	48,050
POLYETHYLENE	6,637
Transmission System Total	231,620

Legend

PIPE MATERIAL

- CAST IRON
- CONCRETE CYLINDER
- DUCTILE IRON
- STEEL
- POLYETHYLENE

Los Alamos County Utilities Townsite Water Distribution System Pipe Age



1:12,000

1 inch equals 1,000 feet

Townsite Water Line Statistics	
Age	Length (feet)
1950-59	167,790
1960-69	76,760
1970-79	35,390
1980-89	27,640
1990-99	31,640
2000-present	88,330
Townsite Water Main	427,550
Total	

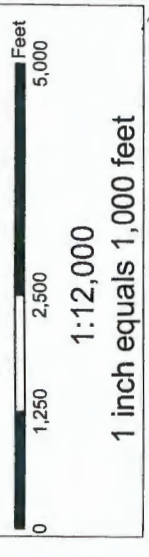
Legend

WATERLINES - AGE

- 1950 - 1959
- 1960 - 1969
- 1970 - 1979
- 1980 - 1989
- 1990 - 1999
- 2000 - 2009
- TRANSMISSION LINE

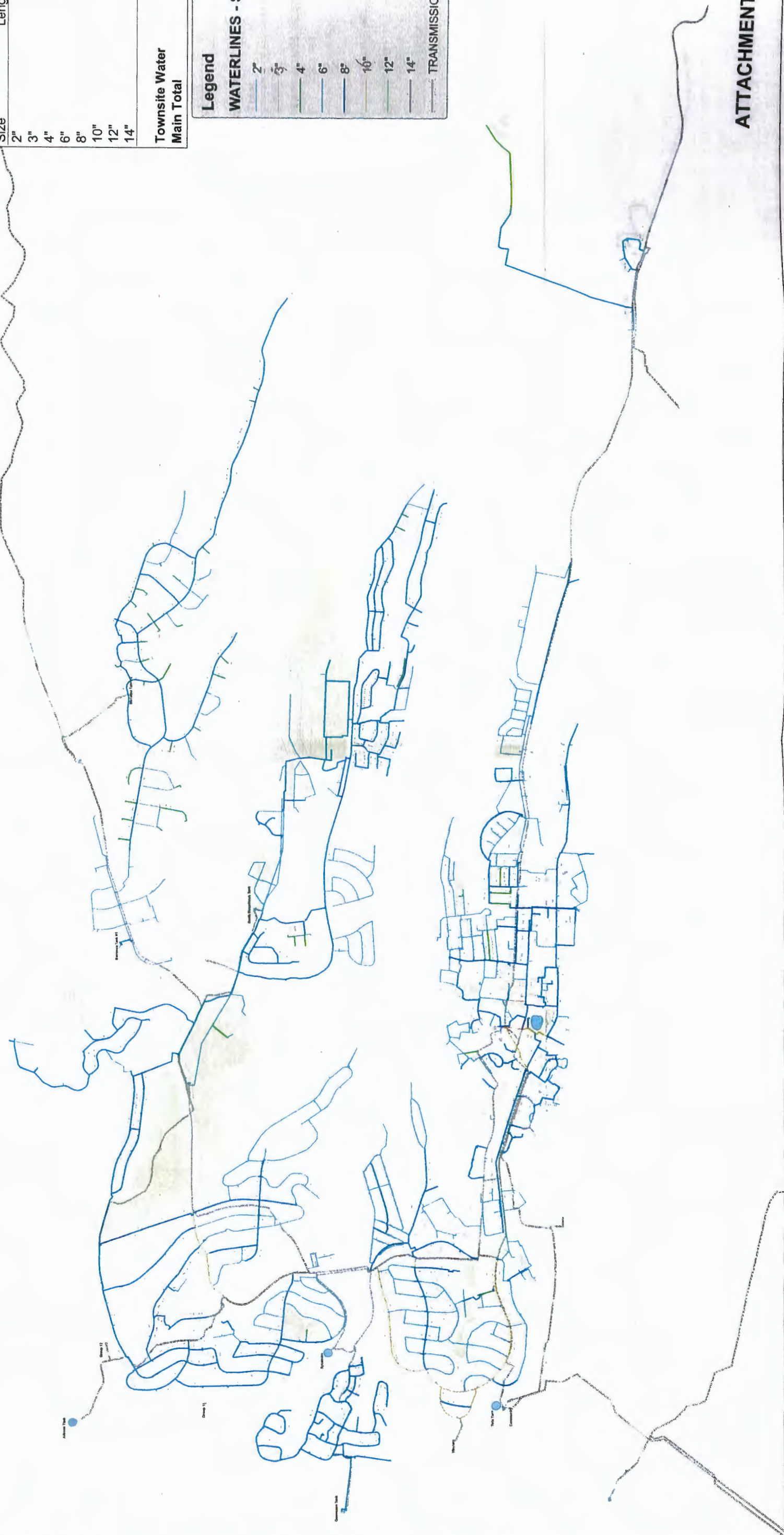


Los Alamos County Utilities Townsite Water Distribution System Pipe Sizes



Townsite Water Line Statistics	
Size	Length (feet)
2"	9,405
3"	4,605
4"	12,625
6"	164,585
8"	215,640
10"	12,855
12"	7,835
14"	0
Townsite Water Main Total	427,550

Legend	
WATERLINES - SIZE	
	2"
	3"
	4"
	6"
	8"
	10"
	12"
	14"
	TRANSMISSION LINE



Los Alamos County Utilities Townsite Water Distribution System Pipe Materials



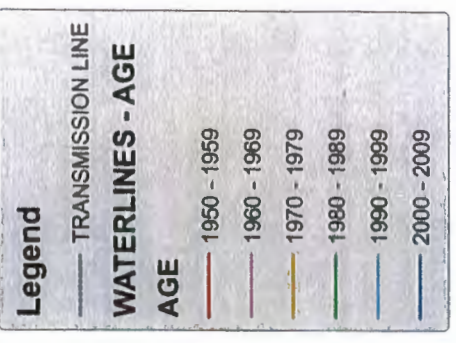
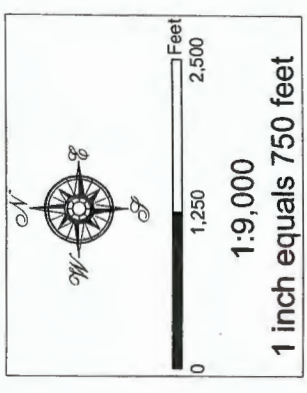
1:12,000
1 inch equals 1,000 feet



Townsite Water Line Statistics	
Material	Length (feet)
CI	288,705
DI	67,520
PVC	57,450
ST	4,800
PE	6,235
TRANSITE	2,840
Townsite Water Main Total	427,550

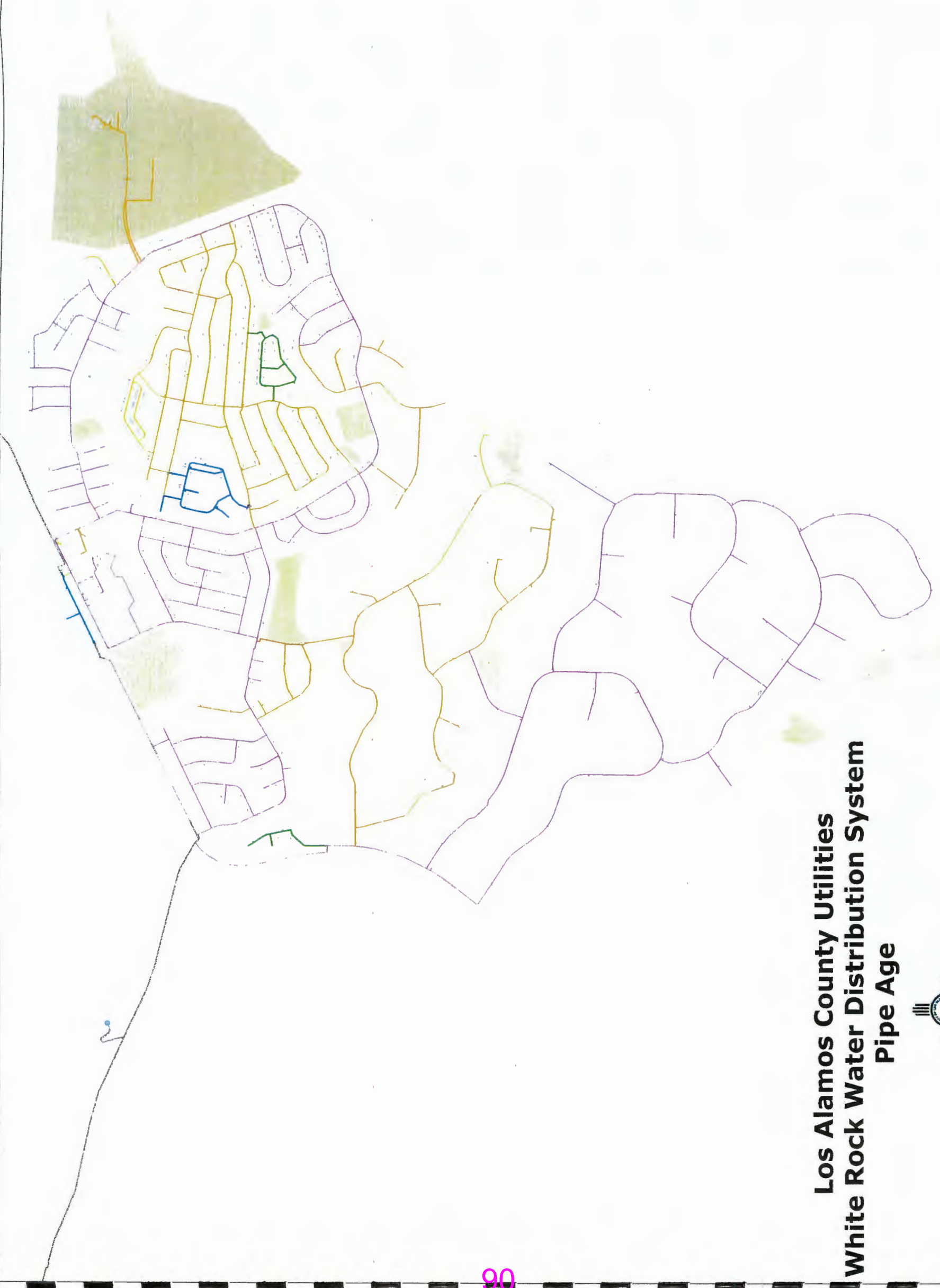
Legend	
WATERLINES - MATERIAL	
	CAST IRON
	DUCTILE IRON
	PVC
	POLYETHYLENE
	STEEL
	TRANSITE
	TRANSMISSION LINE

Los Alamos County Utilities White Rock Water Distribution System Pipe Age

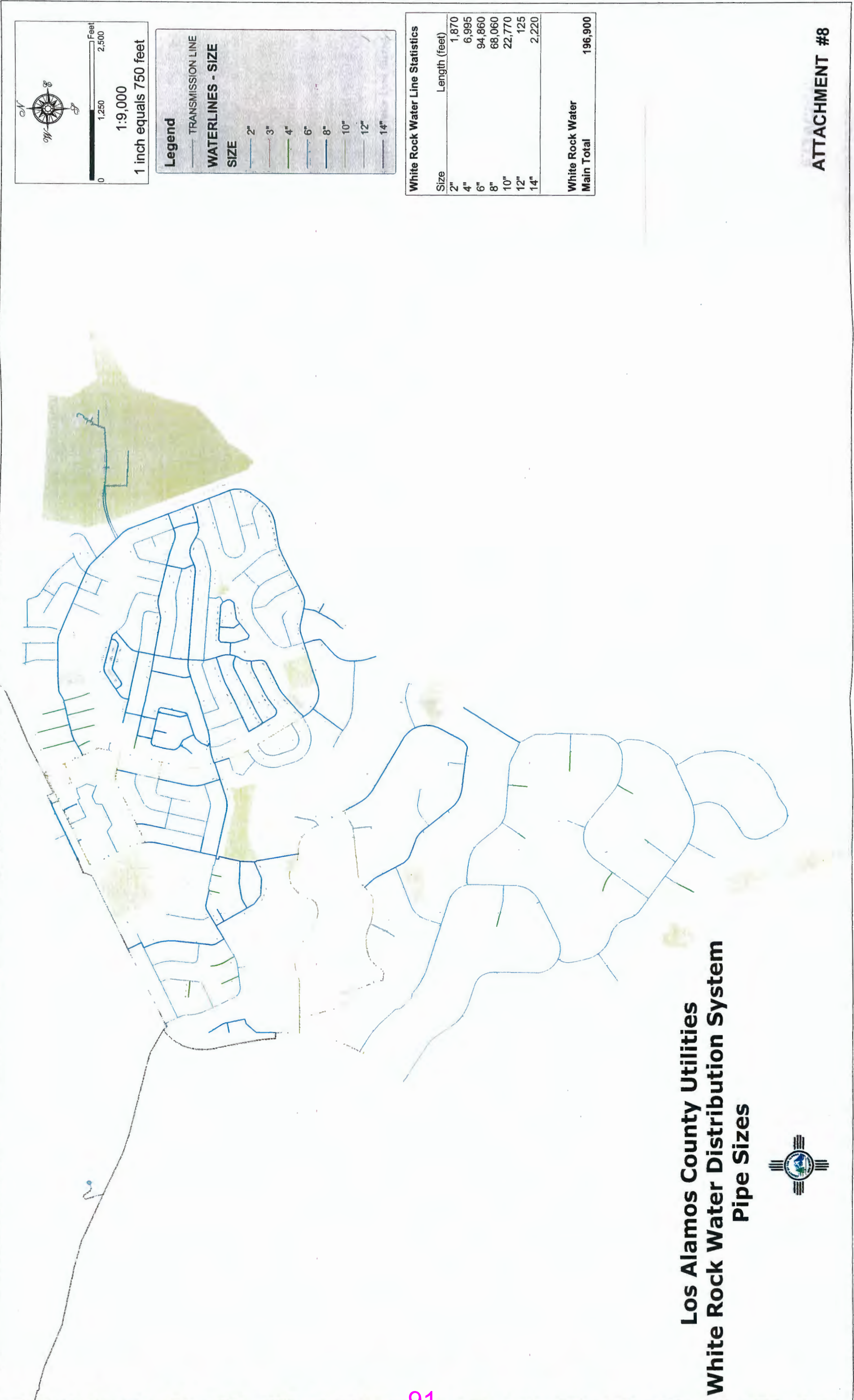



White Rock Water Line Statistics

Material	Length (feet)
1950-59	0
1960-69	112,080
1970-79	73,805
1980-89	4,800
1990-99	0
2000-Present	6,215
White Rock Water Main Total	196,900



Los Alamos County Utilities White Rock Water Distribution System Pipe Sizes




 0 1,250 2,500 Feet
 1:9,000
 1 inch equals 750 feet

Legend

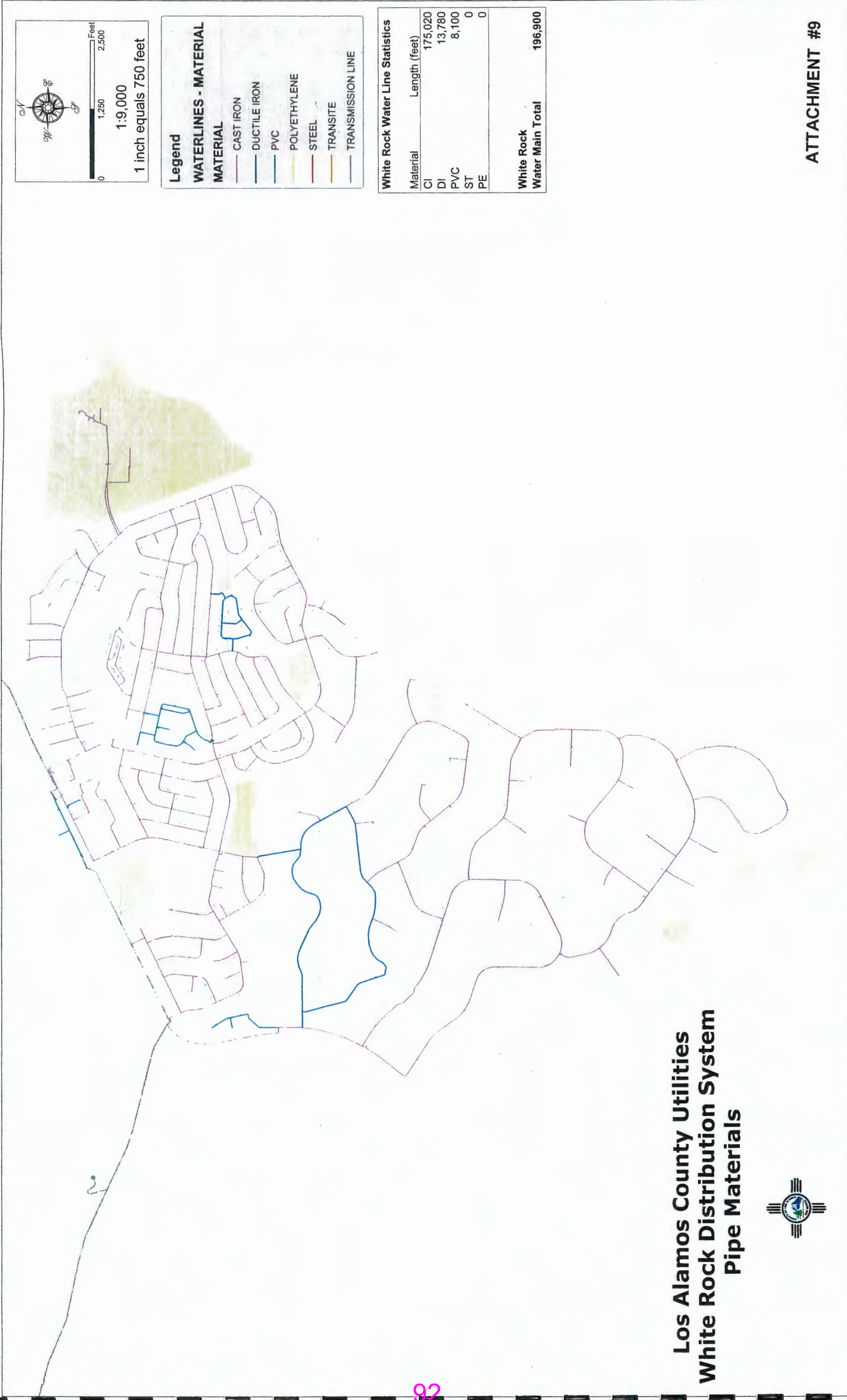
— TRANSMISSION LINE


WATERLINES - SIZE

SIZE
 2" —
 3" —
 4" —
 6" —
 8" —
 10" —
 12" —
 14" —

White Rock Water Line Statistics

Size	Length (feet)
2"	1,870
4"	6,995
6"	94,860
8"	68,060
10"	22,770
12"	125
14"	2,220
White Rock Water Main Total	196,900





 0 1,250 2,500 Feet

 1:9,000

 1 inch equals 750 feet

Legend

WATERLINES - MATERIAL

- CAST IRON
- DUCTILE IRON
- PVC
- POLYETHYLENE
- STEEL
- TRANSITE
- TRANSMISSION LINE

White Rock Water Line Statistics

Material	Length (feet)
CI	175,020
DI	13,780
PVC	8,100
ST	0
PE	0
White Rock Water Main Total	196,900

Los Alamos County Utilities
White Rock Distribution System
Pipe Materials



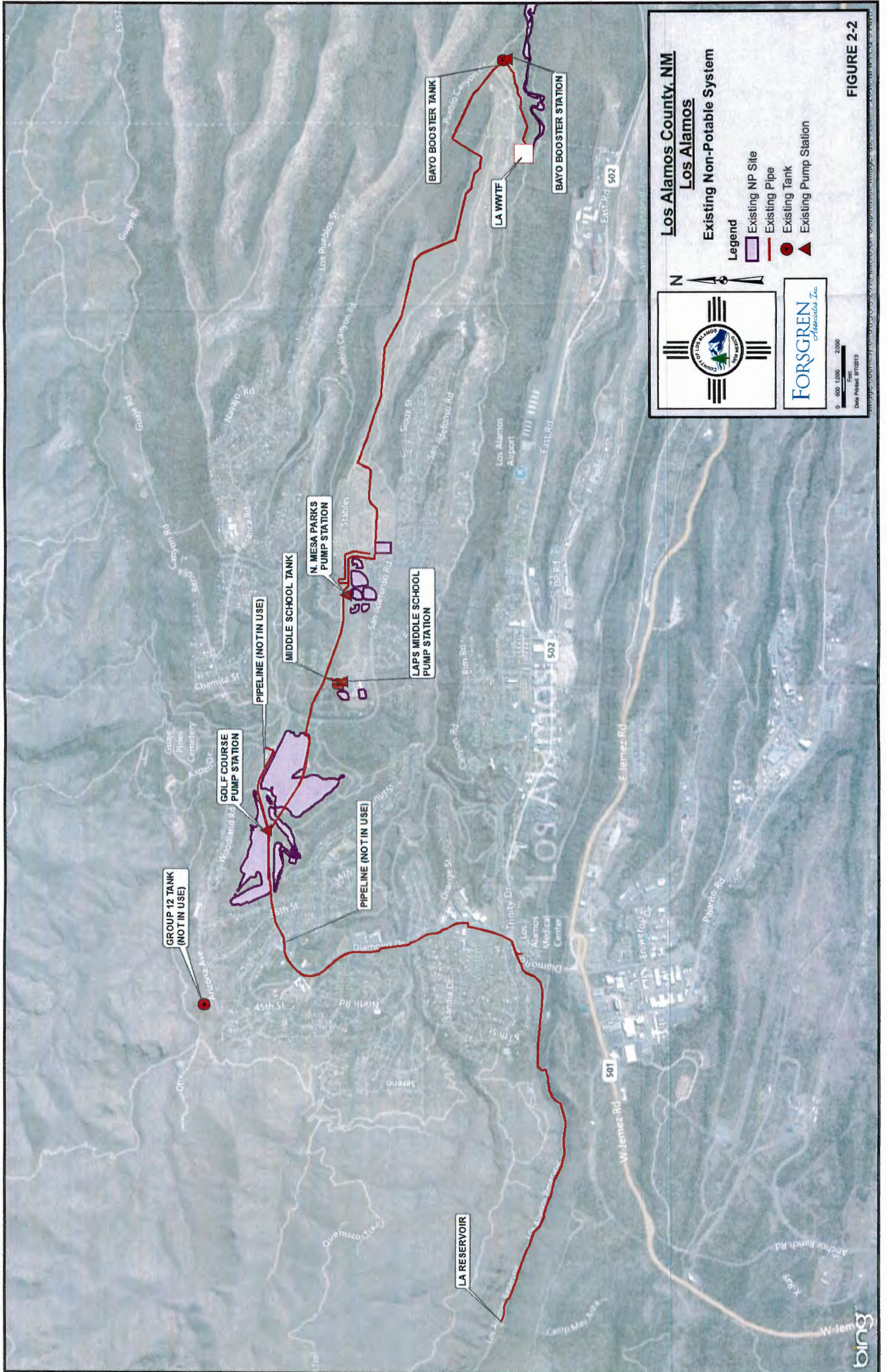


Los Alamos County, NM
Overall Area Map



FIGURE 2-1

0 1,250 2,500 5,000
 Feet
 Date Printed: 5/23/2013



Los Alamos County, NM
Los Alamos

Existing Non-Potable System

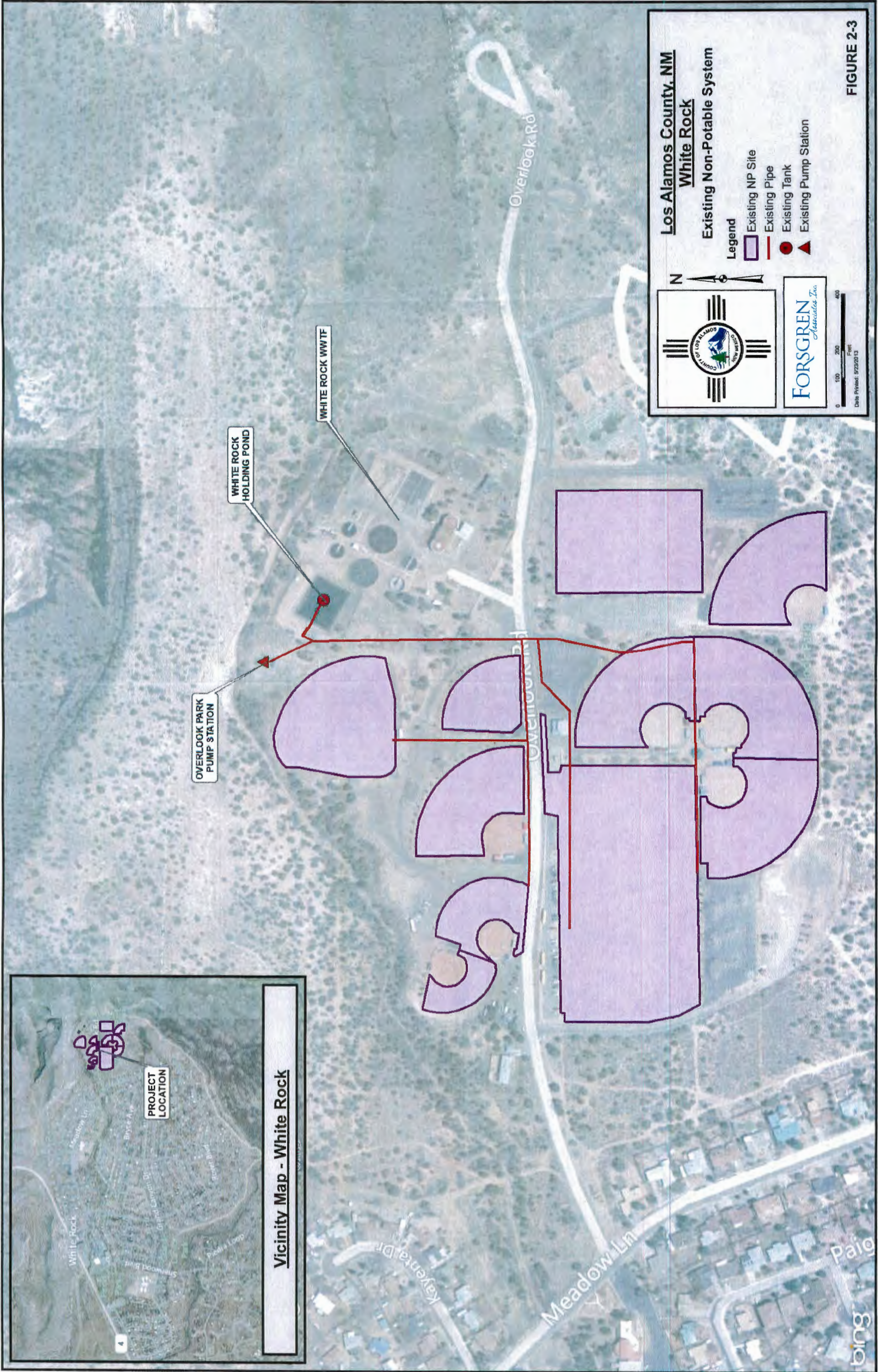
Legend

-  Existing NP Site
-  Existing Pipe
-  Existing Tank
-  Existing Pump Station



0 500 1000 2000
Feet
Date Printed: 8/7/2013

FIGURE 2-2



Los Alamos County, NM
White Rock
Existing Non-Potable System

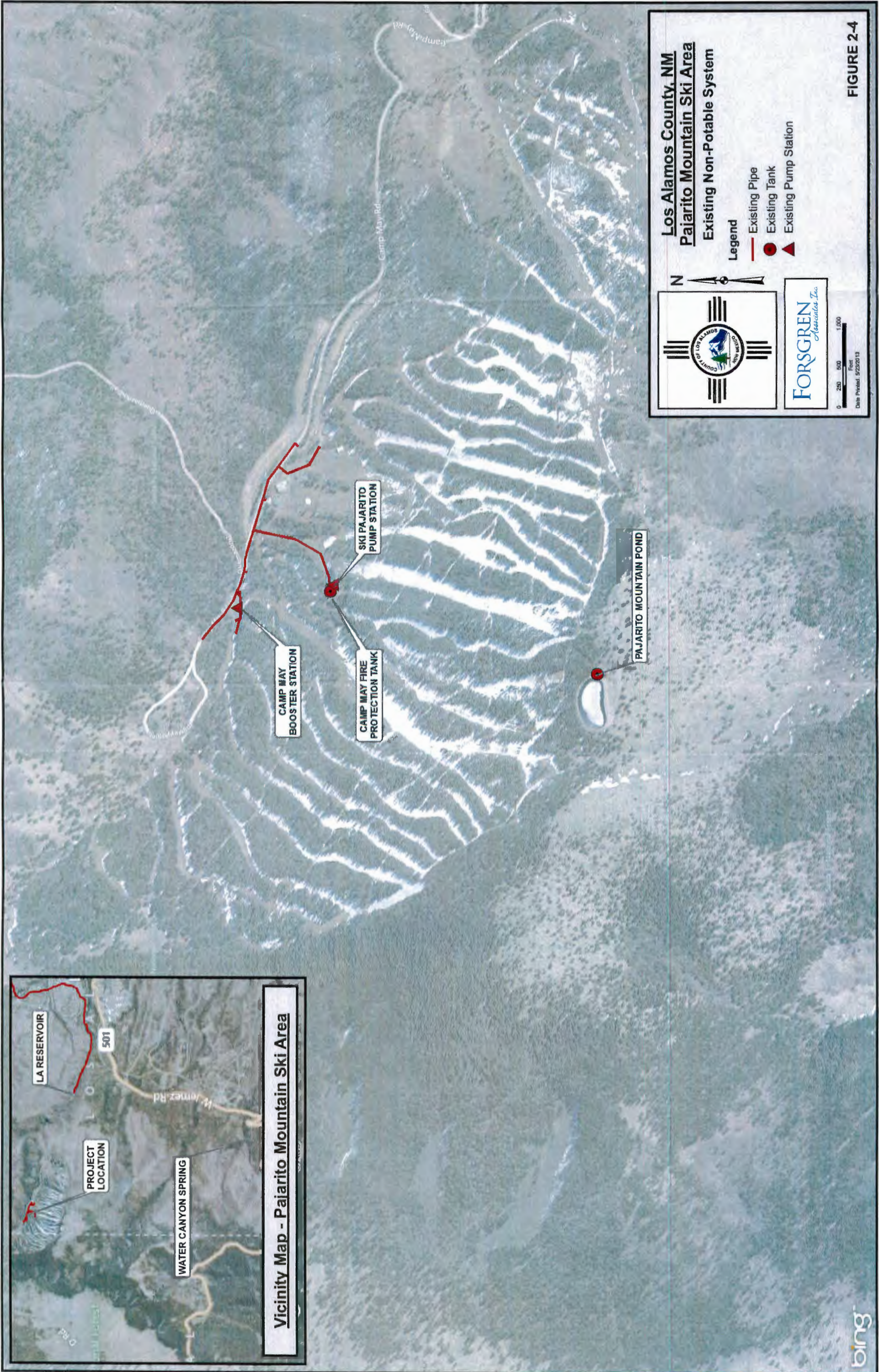
Legend

- Existing NP Site
- Existing Pipe
- Existing Tank
- Existing Pump Station

FORSGREN
 Corporation

0 100 200 400
 Feet
 Date Prepared: 9/23/2013

FIGURE 2-3



Los Alamos County, NM
Pajarito Mountain Ski Area
Existing Non-Potable System

Legend

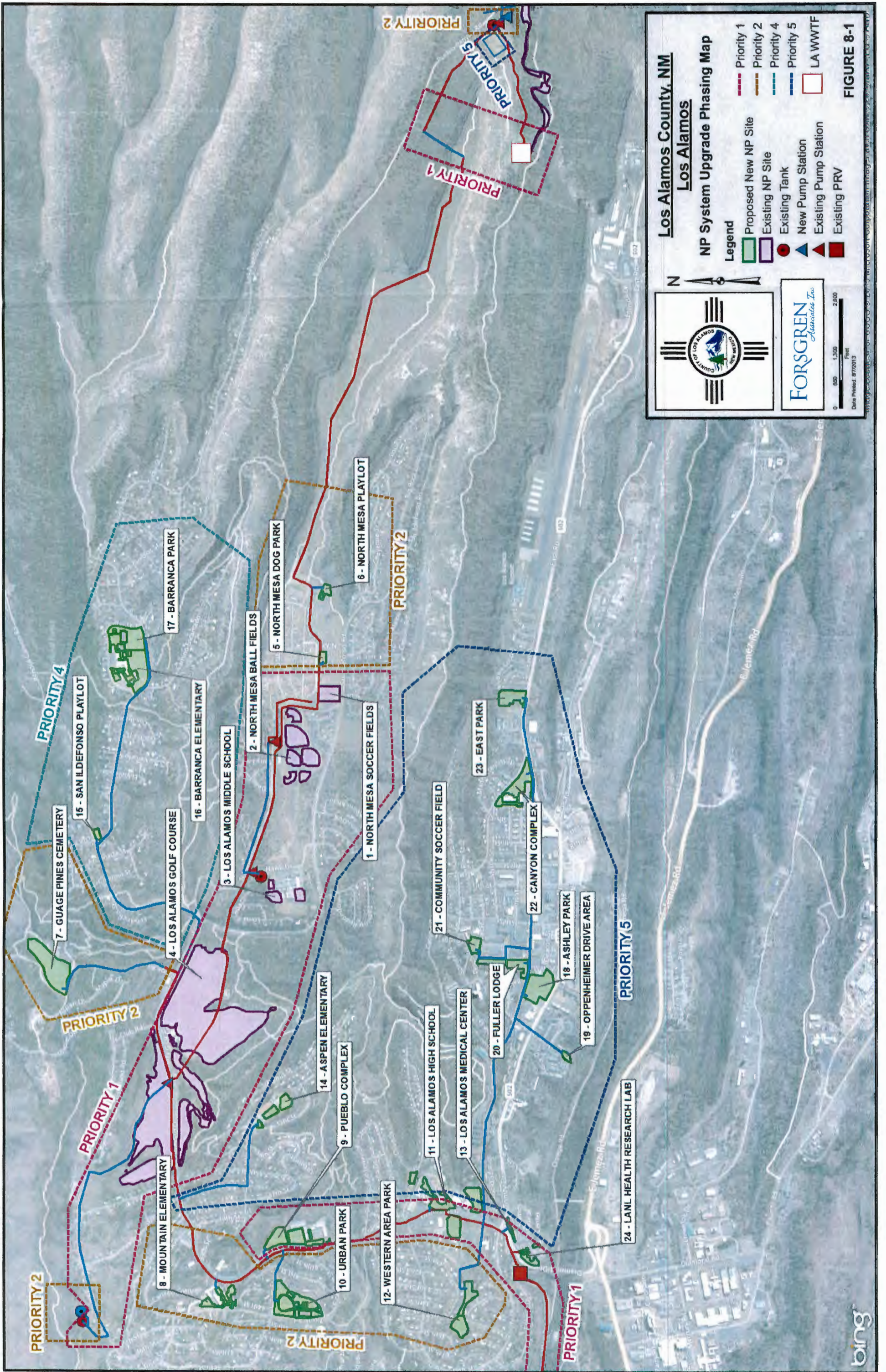
- Existing Pipe
- Existing Tank
- Existing Pump Station

FORSGREN
Associates, Inc.

0 250 500 1,000
Feet

Date Printed: 5/23/2013

FIGURE 2-4



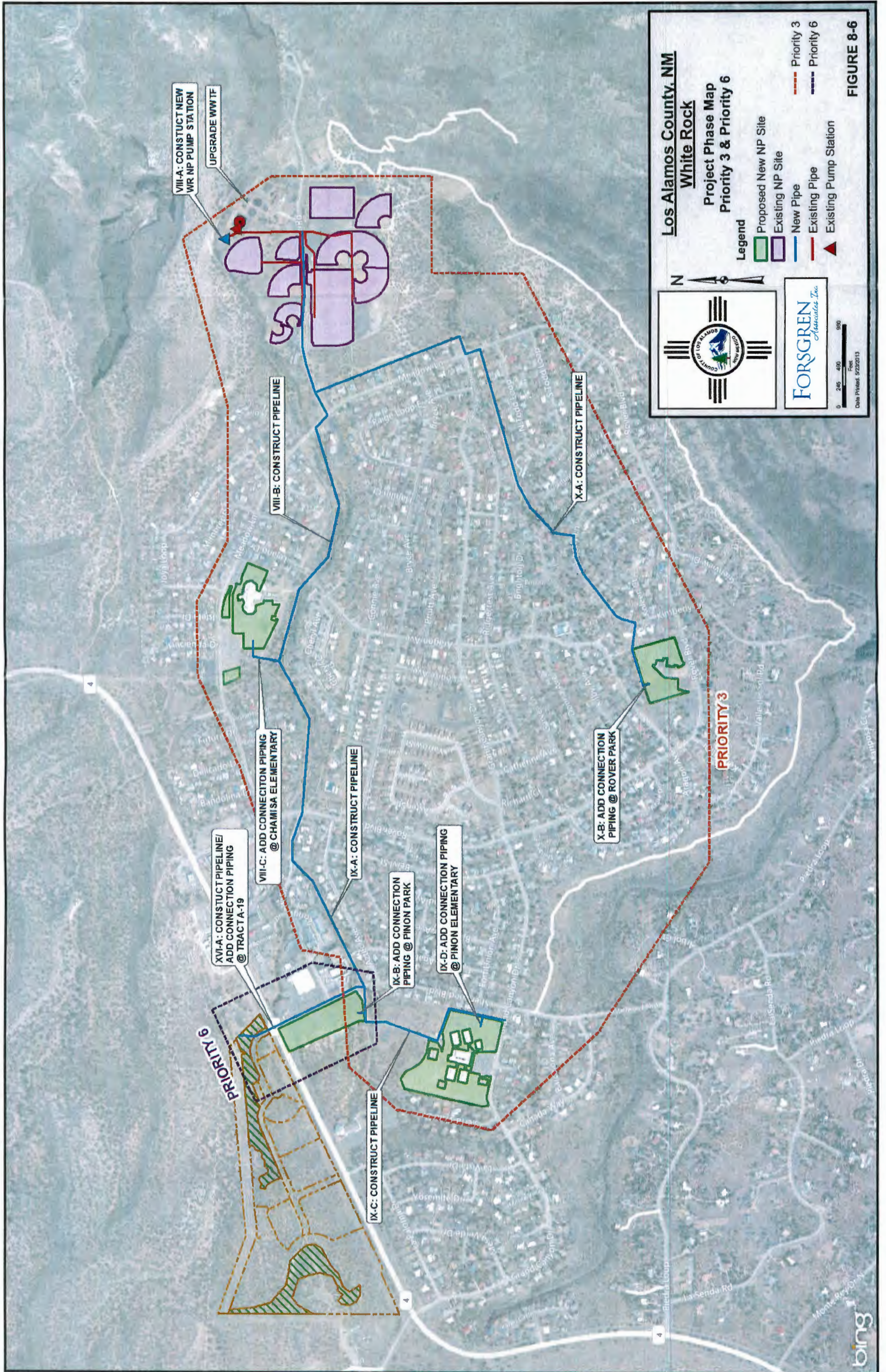
Los Alamos County, NM
Los Alamos

NP System Upgrade Phasing Map

Legend

- Proposed New NP Site
- Existing NP Site
- Existing Tank
- New Pump Station
- Existing Pump Station
- Existing PRV
- Priority 1
- Priority 2
- Priority 4
- Priority 5
- LA WWTF

FIGURE 8-1



Los Alamos County, NM
White Rock
Project Phase Map
Priority 3 & Priority 6

Legend

- Proposed New NP Site
- Existing NP Site
- New Pipe
- Existing Pipe
- Existing Pump Station

Priority 3 (indicated by a dashed red line)

Priority 6 (indicated by a dashed purple line)

Scale: 0, 245, 490, 980 Feet
 Date Printed: 5/23/2013

FIGURE 8-6



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 7.A.
Index (Council Goals): BCC - N/A
Presenters: Board of Public Utilities
Legislative File: 8693-16

Title

Status Reports

Body

Each month the Board receives in the agenda packet informational reports on various items. No presentation is given, but the Board may discuss any of the reports provided.

Attachments

- A - Electric Reliability Report
- B - Accounts Receivables Report
- C - Safety Report

STATUS REPORTS

ELECTRIC RELIABILITY

Los Alamos County Utilities



Electric Distribution Reliability

October 19, 2016

Stephen Marez
Senior Engineer

Twelve Month History	September 2016	
Total # Accounts	9045	
Total # Interruptions	39	
Sum Customer Interruption Durations	2984:11:00	hours:min:sec
# Customers Interrupted	2060	
SAIFI(APPA AVG. = 1.0)	.23	int./cust.
SAIDI (APPA AVG. = 1:00)	:19	hours:min
CAIDI	1:26	hours:min/INT
ASAI	99.9998%	% available

- SAIFI - System Average Interruption Frequency Index**
 A measure of interruptions per customer (Per Year)

$$\text{SAIFI} = \frac{\text{(Total number of customer interruptions)}}{\text{(Total number of customers served)}}$$

- SAIDI – System Average Interruption Duration Index**
 A measure of outage time per customer if all customers were out at the same time (hours per year)

$$\text{SAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customers served)}}$$

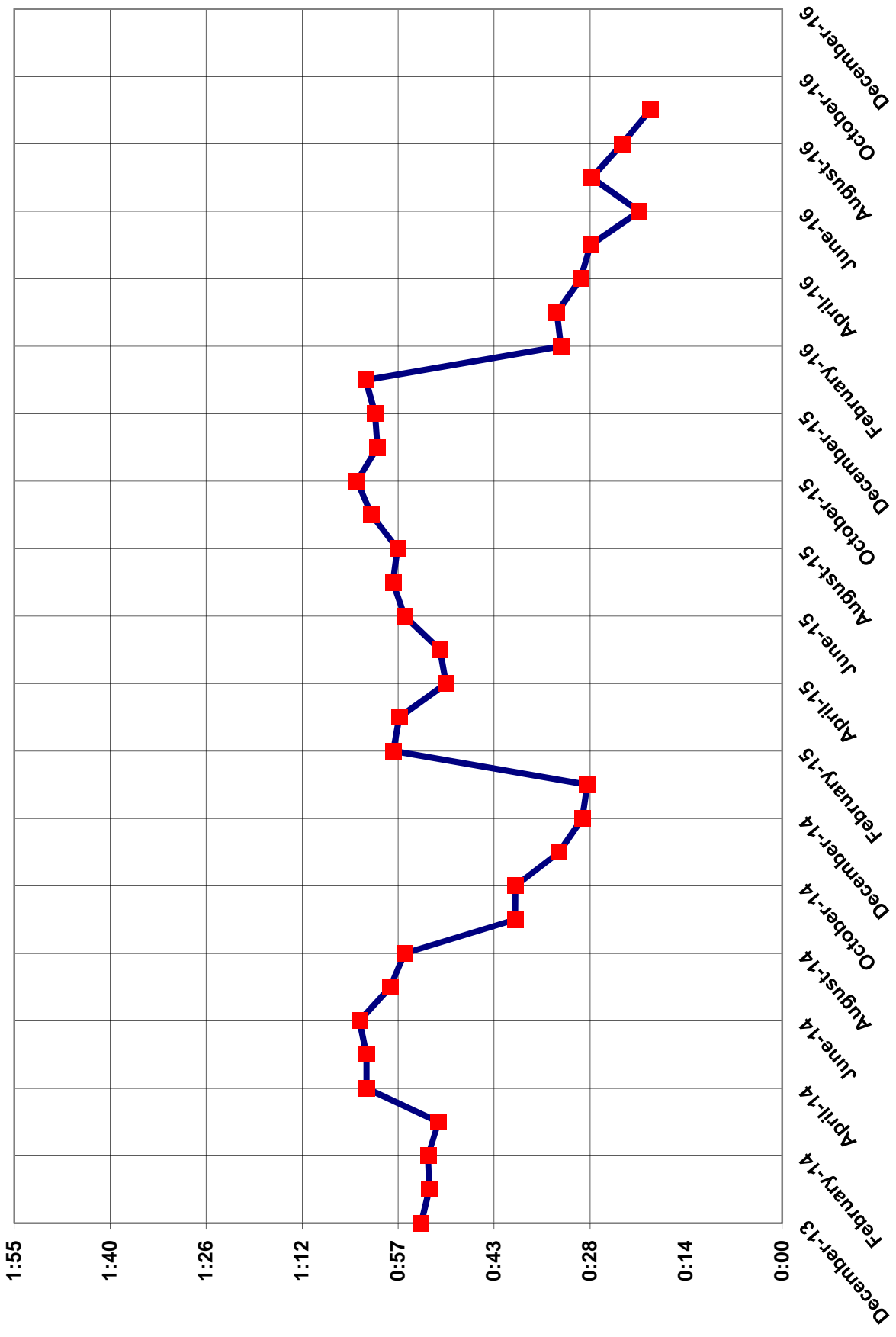
- CAIDI – Customer Average Interruption Duration Index**
 A measure of the average outage duration per customer (hours per interruption)

$$\text{CAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customers interruptions)}} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- ASAI – Average System Availability Index**
 A measure of the average service availability (Per unit)

$$\text{ASAI} = \frac{\text{(Service hours available)}}{\text{(Customer demand hours)}} = \frac{8760 - \text{SAIDI}}{8760}$$

EACH POINT IS A 12 MONTH SAIDI HISTORY
 1:00:00 = APPA BENCHMARK SAIDI



STATUS REPORTS

ACCOUNTS RECEIVABLES

Los Alamos County Utilities Department
Active Receivables Over 90 Days Past Due
October 3, 2016

<i>Account</i>	<i>Acct Type</i>	<i>Comments</i>	<i>90 - 119</i>	<i>120 +</i>
2021703	COMM	Payment plan, will lien property this week	110.87	-
2091608	RES	Turn off 10/11, broken payment arrangement	117.17	-
2008884	RES	Electric shut off 9/29, account is final	142.92	-
2018841	RES	Paid \$100 10/3 and \$303.07 on 10/10	153.30	-
2001811	APT	Paid in full 9/12, check returned NSF. Turn off scheduled 10/12	364.00	-
2008883	RES	Electric shut off 9/7, Gas & Water shut off 10/10	149.33	10.00
2021698	COMM	Payment plan, will lien property this week	199.33	104.96
2083878	RES	Electric meter shut off on 8/4	135.51	130.87
2010299	RES	Electric meter shut off on 9/12, water & gas shut off 10/10	107.13	218.94
2002898	COMM	Electric meter shut off on 9/8, water & gas shut off 10/10	504.89	473.83
2082018	COMM	Paid \$5,000 on 10/7	1,383.54	779.98
2121518	RES	Paid \$250 on 10/4 and \$350 on 10/6	271.99	-
2122178	RES	Door tag issued 10/10	166.15	-
2122788	COMM	Paid \$1,800 on 10/3	1,166.43	-
			4,972.56	1,718.58
			TOTAL \$	6,691.14

Los Alamos County Utilities Department
 Receivables More than 60 Days Inactive
 October 3, 2016

<i>YEAR</i>	<i>OUTSTANDING 10/3</i>	<i># OF ACCOUNTS</i>	<i>OUTSTANDING 9/1</i>	<i># OF ACCOUNTS</i>
FY13	16,911.93	72	9,631.32	48
FY14	31,529.17	99	27,430.02	85
FY15	28,307.65	107	21,371.15	86
FY16	29,268.24	174	26,092.28	147
FY17	26,279.16	166	14,369.27	81
TOTAL	\$ 132,296.15	618	\$ 98,894.04	447

STATUS REPORTS

SAFETY

NAME	DOI	REPTD	EE#	DESC	DEPT
	09/28/16	09/28/16	8345	Meter Reader; dog bite	GWS

	ADMIN	EL DIST	EL PROD	GWS	WA PROD	WWTP
MONTH						
Jan - 2016	2874.0	1315.0	1520.0	3075.0	1068.0	1459.0
Feb - 2016	3588.0	1416.0	1838.8	3376.0	1248.0	1320.5
Mar - 2016	5275.0	2172.8	2606.0	5330.0	1995.5	2029.0
Apr - 2016	3553.8	1490.0	1772.0	3615.0	1359.0	1322.0
May - 2016	3656.5	1410.5	1675.0	3759.6	1395.5	1338.5
June - 2016	4122.0	1462.3	1606.1	3773.0	1422.5	1376.3
July - 2016	4122.0	1462.3	1606.1	3773.0	1422.5	1376.3
Aug - 2016	3599.0	1567.0	718.0	3730.0	987.0	1210.0
Sept - 2016	5389.0	2064.0	2472.0	5772.0	1722.0	1775.0
Oct - 2015	5324.0	2213.8	2782.0	5047.0	2261.0	2335.5
Nov - 2015	3316.0	1385.0	1669.0	3475.8	1351.5	1536.0
Dec - 2015	3083.0	1253.0	1685.5	3450.0	1283.0	1248.0
	47902.3	19211.7	21950.5	48176.4	17515.5	18326.1
INJURIES	0	0	0	1	0	0
INC RATE	0	0	0	4.15140765	0	0
LOST/RSTR CASES	0	0	0	0	0	0
LOST/RSTR RATE	0	0	0	0	0	0



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Staff Report

October 19, 2016

Agenda No.: 8.G.1.
Index (Council Goals): BCC - N/A
Presenters: Julie Williams-Hill, Public Relations Manager
Legislative File: 7991-16

Title

Presentation of the 2016 Department of Public Utilities Employee Survey Results

Recommended Action

None - discussion item only.

Staff Recommendation

None - discussion item only.

Body

The Department of Public Utilities has a long-term goal to achieve an employee satisfaction rating of 4.0 or greater on a scale of 1 to 5. It was decided in 2014 that DPU would begin administering its own survey every two years. Previously employee surveys were administered by the County. The last DPU survey was conducted in 2014.

In an attempt to broaden the Department's understanding of not only its employees' satisfaction, but also of the employees' engagement, DPU elected to utilize a Gallup Q12 Employee Engagement Survey for 2016. Gallup has determined that 12 questions are able to capture an employee's engagement. They've administered the same survey since 1990. Over 25 million employees from around the world in 189 countries have taken the test and they have a fairly extensive database.

The advantages of the survey is that it:

- 1) Is not very expensive to use,
- 2) Takes approximately five minutes for the employee to take it,
- 3) Is online and anonymous through the Gallup organization
- 4) Segments the employee results
- 5) Compares DPU results with the Gallup database, as well as other segmentations within the Gallup database, such as government organizations and companies smaller than 100 employees.

The grand mean results:

2014 employee survey for "satisfaction" was 4.19. There was no grand mean score for employee "engagement."

2016 employee survey for "satisfaction" was 3.99. Results for "engagement" is 3.78.

Alternatives

N/A

Fiscal and Staff Impact

None

Attachments

A - Employee Engagement Survey 2016

Employee Engagement Survey 2016 | Overall

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

ENGAGEMENT INDEX

■ Engaged

Current

36%

Percent Engaged available when N ≥ 30.

All categories available when N ≥ 100.

OVERALL

3.78

GRANDMEAN
PERCENTILE RANK: 33

Score (Respondents) Gallup Database Percentile Rank

Q00 | **Overall Satisfaction**
How satisfied are you with your organization as a place to work?

3.99 (77)

61

Q01 | **Know What's Expected**
I know what is expected of me at work.

4.36 (77)

54

Q02 | **Materials and Equipment**
I have the materials and equipment I need to do my work right.

4.20 (76)

77

Q03 | **Opportunity to do Best**
At work, I have the opportunity to do what I do best every day.

4.08 (77)

64

Q04 | **Recognition**
In the last seven days, I have received recognition or praise for doing good work.

3.34 (73)

36

Q05 | **Cares About Me**
My supervisor, or someone at work, seems to care about me as a person.

3.93 (76)

25

Q06 | **Development**
There is someone at work who encourages my development.

3.83 (76)

52

Q07 | **Opinions Count**
At work, my opinions seem to count.

3.48 (75)

23

Q08 | **Mission/Purpose**
The mission or purpose of my organization makes me feel my job is important.

4.01 (77)

50

Q09 | **Committed to Quality**
My coworkers are committed to doing quality work.

3.84 (77)

18

Q10 | **Best Friend**
I have a best friend at work.

2.63 (73)

1

Q11 | **Progress**
In the last six months, someone at work has talked to me about my progress.

3.70 (74)

41

Q12 | **Learn and Grow**
This last year, I have had opportunities at work to learn and grow.



























3.93 (75)

46

Department of Public Utilities

Employee Engagement Survey 2016 | Overall

Percentile range in Gallup Database  >33 |  33-66 |  >66
 Current Percent Engaged  **36%**

	Gallup Poll	Public Admin	Companies <100
	3.78 GRANDMEAN PERCENTILE RANK 33%	3.78 GRANDMEAN PERCENTILE RANK 63%	3.78 GRANDMEAN PERCENTILE RANK 33%
Q00	61	73	51
Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)		
Q01	54	73	60
Know What's Expected I know what is expected of me at work.	4.36 (77)		
Q02	77	75	62
Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)		
Q03	64	74	64
Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)		
Q04	36	61	33
Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)		
Q05	25	44	32
Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)		
Q06	52	69	44
Development There is someone at work who encourages my development.	3.83 (76)		
Q07	23	60	32
Opinion's Count At work, my opinions seem to count.	3.48 (75)		
Q08	50	68	40
Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)		
Q09	18	35	32
Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)		
Q10	1	27	28
Best Friend I have a best friend at work.	2.63 (73)		
Q11	41	59	43
Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)		
Q12	43	68	36
Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)		



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL	ELECTRIC PRODUCTION
	<p>3.78 GRANDMEAN PERCENTILE RANK:33</p>	<p>4.16 GRANDMEAN PERCENTILE RANK:84</p>
	Score (Respondents)	Score (Respondents) Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	4.13 (8) 76
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.50 (8) 78
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.50 (8) 97
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	4.25 (8) 84
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	4.00 (8) 89
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	4.63 (8) 98
Q06 Development There is someone at work who encourages my development.	3.83 (76)	4.25 (8) 91
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	4.00 (7) 84
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	4.25 (8) 79
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	4.00 (8) 37
Q10 Best Friend I have a best friend at work.	2.63 (73)	3.38 (8) 50
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	4.00 (8) 70
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	4.14 (7) 72



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL	ELECTRIC DISTRIBUTION
	<p>3.78 GRANDMEAN PERCENTILE RANK:33</p>	<p>4.06 GRANDMEAN PERCENTILE RANK:75</p>
	Score (Respondents)	Score (Respondents) Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	4.29 (14) 89
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.57 (14) 88
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.46 (13) 95
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	4.29 (14) 88
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.50 (12) 54
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	4.08 (13) 44
Q06 Development There is someone at work who encourages my development.	3.83 (76)	4.21 (14) 89
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	3.93 (14) 79
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	4.43 (14) 92
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	4.07 (14) 49
Q10 Best Friend I have a best friend at work.	2.63 (73)	3.15 (13) 27
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	4.17 (12) 81
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	3.86 (14) 36



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL		WATER PRODUCTION
	Score (Respondents)	Score (Respondents)	Gallup Database Percentile Rank
	3.78 GRANDMEAN PERCENTILE RANK:33	3.57 GRANDMEAN PERCENTILE RANK:11	
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	3.83 (6)	38
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.00 (6)	5
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	3.83 (6)	26
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	3.83 (6)	30
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.00 (6)	9
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	3.00 (6)	1
Q06 Development There is someone at work who encourages my development.	3.83 (76)	3.33 (6)	7
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	3.17 (6)	4
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	4.00 (6)	49
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	4.33 (6)	85
Q10 Best Friend I have a best friend at work.	2.63 (73)	3.17 (6)	29
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	3.17 (6)	6
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	4.00 (6)	54



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL	WASTEWATER
	<p>3.78 GRANDMEAN PERCENTILE RANK: 33</p>	<p>4.03 GRANDMEAN PERCENTILE RANK: 72</p>
	Score (Respondents)	Score (Respondents)
	Gallup Database Percentile Rank	Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	4.43 (7)
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.86 (7)
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.57 (7)
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	4.57 (7)
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.57 (7)
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	4.14 (7)
Q06 Development There is someone at work who encourages my development.	3.83 (76)	4.00 (7)
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	3.86 (7)
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	4.29 (7)
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	3.71 (7)
Q10 Best Friend I have a best friend at work.	2.63 (73)	1.83 (6)
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	4.29 (7)
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	4.67 (6)



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL	GAS, WATER, & SEWER
	<p>3.78 GRANDMEAN PERCENTILE RANK:33</p>	<p>3.39 GRANDMEAN PERCENTILE RANK:3</p>
	Score (Respondents)	Score (Respondents)
	Gallup Database Percentile Rank	Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	3.52 (23)
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.35 (23)
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	3.74 (23)
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	3.87 (23)
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.09 (22)
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	3.65 (23)
Q06 Development There is someone at work who encourages my development.	3.83 (76)	3.36 (22)
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	2.91 (23)
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	3.52 (23)
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	3.43 (23)
Q10 Best Friend I have a best friend at work.	2.63 (73)	1.87 (23)
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	3.09 (22)
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	3.78 (23)



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

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	OVERALL	ADMINISTRATIVE/FINANCE
	<p>3.78 GRANDMEAN PERCENTILE RANK:33</p>	<p>3.69 GRANDMEAN PERCENTILE RANK:21</p>
	Score (Respondents)	Score (Respondents) Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	4.08 (13) 72
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.00 (13) 5
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.38 (13) 92
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	3.85 (13) 33
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.00 (13) 9
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	3.92 (13) 24
Q06 Development There is someone at work who encourages my development.	3.83 (76)	3.77 (13) 44
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	3.31 (13) 8
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	3.92 (13) 38
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	3.77 (13) 12
Q10 Best Friend I have a best friend at work.	2.63 (73)	2.75 (12) 2
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	4.00 (13) 70
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	3.62 (13) 13



Employee Engagement Survey 2016 | DIVISION

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

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	OVERALL	ENGINEERING
	<p>3.78 GRANDMEAN PERCENTILE RANK: 33</p>	<p>4.28 GRANDMEAN PERCENTILE RANK: 92</p>
	Score (Respondents)	Score (Respondents)
	Gallup Database Percentile Rank	Gallup Database Percentile Rank
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	4.33 (6)
Q01 Know What's Expected I know what is expected of me at work.	4.36 (77)	4.33 (6)
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.50 (6)
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	4.33 (6)
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	4.00 (5)
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	4.50 (6)
Q06 Development There is someone at work who encourages my development.	3.83 (76)	4.50 (6)
Q07 Opinions Count At work, my opinions seem to count.	3.48 (75)	4.40 (5)
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	4.50 (6)
Q09 Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	4.50 (6)
Q10 Best Friend I have a best friend at work.	2.63 (73)	3.60 (5)
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	3.83 (6)
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	4.33 (6)



Employee Engagement Survey 2016 | JOB TYPE

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL		HOURLY POSITION
	<p>3.78 Score (Respondents) GRANDMEAN PERCENTILE RANK: 33</p>		<p>3.60 Score (Respondents) GRANDMEAN PERCENTILE RANK: 13</p>
Q00	Overall Satisfaction How satisfied are you with your organization as a place to work?	3.99 (77)	3.83 (54)
Q01	Know What's Expected I know what is expected of me at work.	4.36 (77)	4.33 (54)
Q02	Materials and Equipment I have the materials and equipment I need to do my work right.	4.20 (76)	4.02 (53)
Q03	Opportunity to do Best At work, I have the opportunity to do what I do best every day.	4.08 (77)	3.96 (54)
Q04	Recognition In the last seven days, I have received recognition or praise for doing good work.	3.34 (73)	3.27 (52)
Q05	Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.93 (76)	3.66 (53)
Q06	Development There is someone at work who encourages my development.	3.83 (76)	3.68 (53)
Q07	Opinions Count At work, my opinions seem to count.	3.48 (75)	3.15 (53)
Q08	Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	4.01 (77)	3.85 (54)
Q09	Committed to Quality My coworkers are committed to doing quality work.	3.84 (77)	3.67 (54)
Q10	Best Friend I have a best friend at work.	2.63 (73)	2.37 (52)
Q11	Progress In the last six months, someone at work has talked to me about my progress.	3.70 (74)	3.41 (51)
Q12	Learn and Grow This last year, I have had opportunities at work to learn and grow.	3.93 (75)	3.79 (53)



Employee Engagement Survey 2016 | JOB TYPE

Percentile range in Gallup Database ■ < 33 | ■ 33-66 | ■ > 66

*Item data not shown if sample size is less than 4. Workgroup data not shown to protect confidentiality.

	OVERALL	SALARIED POSITION
	<p>Score (Respondents) 3.99 (77)</p>	<p>Score (Respondents) 4.35 (23)</p>
Q00 Overall Satisfaction How satisfied are you with your organization as a place to work?	4.36 (77)	4.43 (23)
Q01 Know What's Expected I know what is expected of me at work.	4.20 (76)	4.61 (23)
Q02 Materials and Equipment I have the materials and equipment I need to do my work right.	4.08 (77)	4.35 (23)
Q03 Opportunity to do Best At work, I have the opportunity to do what I do best every day.	3.34 (73)	3.52 (21)
Q04 Recognition In the last seven days, I have received recognition or praise for doing good work.	3.93 (76)	4.57 (23)
Q05 Cares About Me My supervisor, or someone at work, seems to care about me as a person.	3.83 (76)	4.17 (23)
Q06 Development There is someone at work who encourages my development.	3.48 (75)	4.27 (22)
Q07 Opinions Count At work, my opinions seem to count.	4.01 (77)	4.39 (23)
Q08 Mission/Purpose The mission or purpose of my organization makes me feel my job is important.	3.84 (77)	4.26 (23)
Q09 Committed to Quality My coworkers are committed to doing quality work.	2.63 (73)	3.29 (21)
Q10 Best Friend I have a best friend at work.	3.70 (74)	4.35 (23)
Q11 Progress In the last six months, someone at work has talked to me about my progress.	3.93 (75)	4.27 (22)
Q12 Learn and Grow This last year, I have had opportunities at work to learn and grow.		



County of Los Alamos

Staff Report

October 19, 2016

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 8.I.1.
Index (Council Goals): BCC - N/A
Presenters: Jeff Johnson, Chair of the Board of Public Utilities
Legislative File: 8699-16

Title

Tickler File for the Next 3 Months

Attachments

A - Tickler File for the Next 3 Months



LOS ALAMOS

County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

Tickler

Criteria: Agenda Begin Date: 11/1/2016, Agenda End Date: 1/31/2017, Matter Bodies: Board of Public Utiliti

File Number	Title	
Agenda Date: 11/16/2016		
8645-16	Public Hearings	04Public Hearings
	FER Preliminary Implementation Plan - Public Hearing for Modification of Department of Public Utilities Rules & Regulations - Rule E-5 Interconnection - Connection with Cogeneration and Small Power Procedures and Appendix 1 Standard Interconnection Agreement for Qualifying Facilities 10 kW or Less	
	Department Name: DPU	Length of Presentation: Apx. 15 Min.
	Drop Dead Date:	Sponsors: Steve Cummins, Deputy Utilities Manager - Electric Production
AGR0435-16	General Services Agreement	05Consent
	Approval of Amendment No. 3 to Services Agreement No. AGR 12-3856 with Los Alamos National Bank for a Revised Total Contract Amount of \$150,300.00, plus Applicable Gross Receipts Tax, for the Purpose of Lock Box Services and Ratification of the Original Contract and Two Previous Amendments and Payments Allowed to Date Thereunder Totaling \$97,600.00, plus Applicable Gross Receipts Tax.	
	Department Name: DPU	Length of Presentation: NA
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
AGR0457-16	General Services Agreement	05Consent
	Approval of Services Agreement No. AGR__ - ____ with Landis + Gyr in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Continuing Services for Data Management System	
	Department Name: DPU	Length of Presentation: NA
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
8615-16	Briefing/Report (Dept, BCC) - No action requested	06Business
	Los Alamos County Long Range Water Forecast Update	
	Department Name: DPU	Length of Presentation: Apx. 20 Min.
	Drop Dead Date:	Sponsors: James Alarid, Deputy Utilities Manager - Engineering
8439-16	Briefing/Report (Dept, BCC) - No action requested	08G2General Board Business
	Proposal to Change Regular New Member Appointments to May Rather than June	
	Department Name: DPU	Length of Presentation: Apx. 20 Min.
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
8617-16	Briefing/Report (Dept,BCC) - Action Requested	08G3General Board Business

File Number	Title
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Approval of Strategic Initiatives Identified for Inclusion in the Appendix of the Board of Public Utilities Policies & Procedures Manual
Department Name: DPU **Length of Presentation:** Apx. 10 Min.
Drop Dead Date: **Sponsors:** Jeff Johnson, Chair of the Board of Public Utilities

8055-16 **Report** **08GGeneral Board Business**

Quarterly Conservation Program Update
Department Name: DPU **Length of Presentation:** Apx. 10 Min.
Drop Dead Date: **Sponsors:** James Alarid, Deputy Utilities Manager - Engineering

7990-16 **Briefing/Report (Dept, BCC) - No action requested** **08GGeneral Board Business**

Review of Department of Public Utilities Quarterly Report
Department Name: DPU **Length of Presentation:** Apx. 10 Min.
Drop Dead Date: **Sponsors:** Tim Glasco, Utilities Manager

8047-16 **Briefing/Report (Dept, BCC) - No action requested** **08GGeneral Board Business**

Begin 2016 Board of Public Utilities Annual Self-evaluation
Department Name: DPU **Length of Presentation:**
Drop Dead Date: **Sponsors:** Jeff Johnson, Chair of the Board of Public Utilities

Agenda Date: 12/21/2016

AGR0464-16 **General Services Agreement** **05Consent**

Approval of Services Agreement No. AGR__-____ with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of the Los Alamos New Switchgear Substation (LASS)
Department Name: DPU **Length of Presentation:** NA
Drop Dead Date: **Sponsors:** Rafael De LaTorre, Deputy Utilities Manager - Electric Distribution

8644-16 **Briefing/Report (Dept, BCC) - No action requested** **06Business**

FER Preliminary Implementation Plan - Presentation of Public Interest in a Solar Garden
Department Name: DPU **Length of Presentation:** Apx. 15 Min.
Drop Dead Date: **Sponsors:** Steve Cummins, Deputy Utilities Manager - Electric Production

8048-16 **Briefing/Report (Dept, BCC) - No action requested** **08GGeneral Board Business**

Complete 2016 Board of Public Utilities Annual Self-evaluation
Department Name: DPU **Length of Presentation:** Apx. 30 Min.
Drop Dead Date: **Sponsors:** Jeff Johnson, Chair of the Board of Public Utilities

Agenda Date: 01/18/2017

AGR0454-16 **General Services Agreement** **05Consent**

Approval of Services Agreement No. AGR__-____ with Diversified Data Processing & consulting Inc., dba DIVDAT in the amount of \$[amount], plus Applicable Gross Receipts

File Number	Title	
	Tax, for the Purpose of Utility Bill Printing and Mailing Services	
	Department Name: DPU	Length of Presentation: NA
	Drop Dead Date:	Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
8691-16	Briefing/Report (Dept,BCC) - Action Requested	08GGeneral Board Business
	Schedule and Selection of Members to Attend Boards & Commissions Luncheons for 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min.
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
8692-16	Calendar	08GGeneral Board Business
	Approval of Board of Public Utilities Meeting Calendar for 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min.
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
8695-16	Appointment	08GGeneral Board Business
	Appointment of Board Member to Audit Committee for 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min
	Drop Dead Date:	Sponsors: Jeff Johnson
8696-16	Briefing/Report (Dept,BCC) - Action Requested	08GGeneral Board Business
	Agreement to Comply with the Incorporated County of Los Alamos Open Meetings Resolution No. 17-01	
	Department Name: DPU	Length of Presentation: Apx. 5 Min
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
8697-16	Briefing/Report (Dept,BCC) - Action Requested	08GGeneral Board Business
	Approval of Meeting Agenda Outline for 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities
8698-16	Election	08GGeneral Board Business
	Election of Board of Public Utilities Chair and Vice-chair for 2017	
	Department Name: DPU	Length of Presentation: Apx. 5 Min
	Drop Dead Date:	Sponsors: Jeff Johnson, Chair of the Board of Public Utilities