

Existing Inventory

The Utilities Division of the Public Works Department currently serves an estimated 24,816 residential and non-residential wastewater customers. Average daily treatment in thousands of gallons for the calendar year 2011 was 4,546. Annual wastewater treatment for 2011 was over 1.6 billion gallons.

The Utilities Division operates and maintains:

- 5 Wastewater Treatment Plants (WWTPs)
- 28 Lift Stations
- 368 Miles of Wastewater line

Current Capacity and Condition of Assets and Infrastructure

Wastewater Treatment Plants:

The wastewater system inventory includes 5 treatment plants of varying age, condition, and treatment capacities. The largest plant is WWTP#2 capable of treating 5.5 million gallons per day while the smallest is WWTP#3 capable of treating 0.8 million gallons per day. Taken together the total capacity of all treatment plants is approximately 8.6 million gallons per day. The current actual average daily gallons treated are approximately 4.3 million gallons per day. The City discharges into the Rio Grande at two locations under an Office of State Engineer (OSE) water permit and two National Pollution Discharge Elimination System (NPDES) permits. WWTP#6 is currently being expanded to 1.2 million gallons per day and the ICIP contains plans to eventually retrofit all plants to Membrane Bio Reactor (MBR) facilities.

Reuse and Aquifer Recharge:

The WWTP#6 Phase 1 Expansion and the Aquifer Recharge Demonstration projects include construction of an effluent storage tank, pumping capacity, reuse lines, and water treatment and direct injection wells in support of the City's water reuse and aquifer recharge initiative. The series of subprojects began in 2006 and continues with construction of an advanced water treatment facility and related infrastructure near the Loma Colorado subdivision. The initiative will result in widespread

delivery of reuse water to strategic locations for irrigation, industrial uses, and aquifer replenishment.

Lift Stations and Sewer lines:

The City operates 28 lift stations responsible for moving wastewater to treatment plants within the force main sewer line system. The wastewater system also includes 368 miles of gravity sewer line. The ICIP contains various projects for lift station replacement, relocation, and/or capital repair.

Repair and Maintenance Programs/Activities

WWTP 2 is undergoing a significant rebuild to the aeration basins to ensure continued compliance with the New Mexico Environmental Department (NMED) and Environmental Protection Agency (EPA) regulations. Additionally, the splitter box and lift station 10 near the intersection of Southern Blvd. and NM 528 are being evaluated to determine the best solution for replacing the splitter box.

Indicators

Indicator	Calendar Year				
	2007	2008	2009	2010	2011
Average Daily Sewage Treated (1,000 of gallons)	4,667	5,028	4,889	4,489	4,546

Wastewater Utility Infrastructure and Capital Improvement Plan Development

The Utilities Division updates its capital improvement plan concurrent with the annual budget process by which current year capital appropriations are requested pursuant to established departmental priorities for maintaining, expanding, and/or improving wastewater infrastructure and assets. Various departmental plans guide development of the ICIP, including those detailed below. Additionally, asset replacement needs, such as equipment and renovations are also included in the Department's overall ICIP.

Wastewater Master Plan

The city is currently developing a wastewater master plan to understand the capacity needs for the build out of the city and to evaluate needed improvements to the existing system.

Asset Management Plan:

The purpose of the Asset Management Plan is to document the current state of system assets, and plans for their repair and/or replacement in order to minimize life cycle costs and provide for an acceptable level of service. The Utilities Division is currently finalizing a 3 year project detailing the status and asset management plans of water and wastewater system equipment. The asset management program will provide an evaluation and decision making mechanism for repair and replacement of assets that considers the risk of asset failure, the cost effectiveness of operations, and the condition and age of assets.

Developer Contributions

The City's Impact Fee Plan and Ordinance, adopted in 2005 establishes a standard level of service stated as average and peak day demand for a single family

equivalent (SFE) connector service unit. SFE is a standard measure of use attributable to an individual unit of development and is defined as having the average water use characteristics of a customer with a 5/8" water meter. Customers with a 5/8" water meter constitute approximately eighty eight percent (88%) of all accounts.

Standard Level of Service-Wastewater Utility

<u>Average Day Demand</u>	
Average Daily Flow	175 gallons per day (gpd)
<u>Peak Day Demand</u>	
Peak Hourly Flow	525 gpd

Developers are assessed impact fees or provide physical improvements in lieu of impact fees valued at \$2,298 for a 5/8" meter; \$3,447 for a 3/4" meter; \$5,745 for a 1" meter; \$11,490 for a 1 1/2" meter; and \$18,384 for a 2" meter. There are a significant number of wastewater impact fee credits outstanding and the city currently collects impact fee revenue on approximately fifteen percent (15%) of assessments generated by annual development activity.

Developer Improvements and Dedications since Fiscal Year 2010 include:

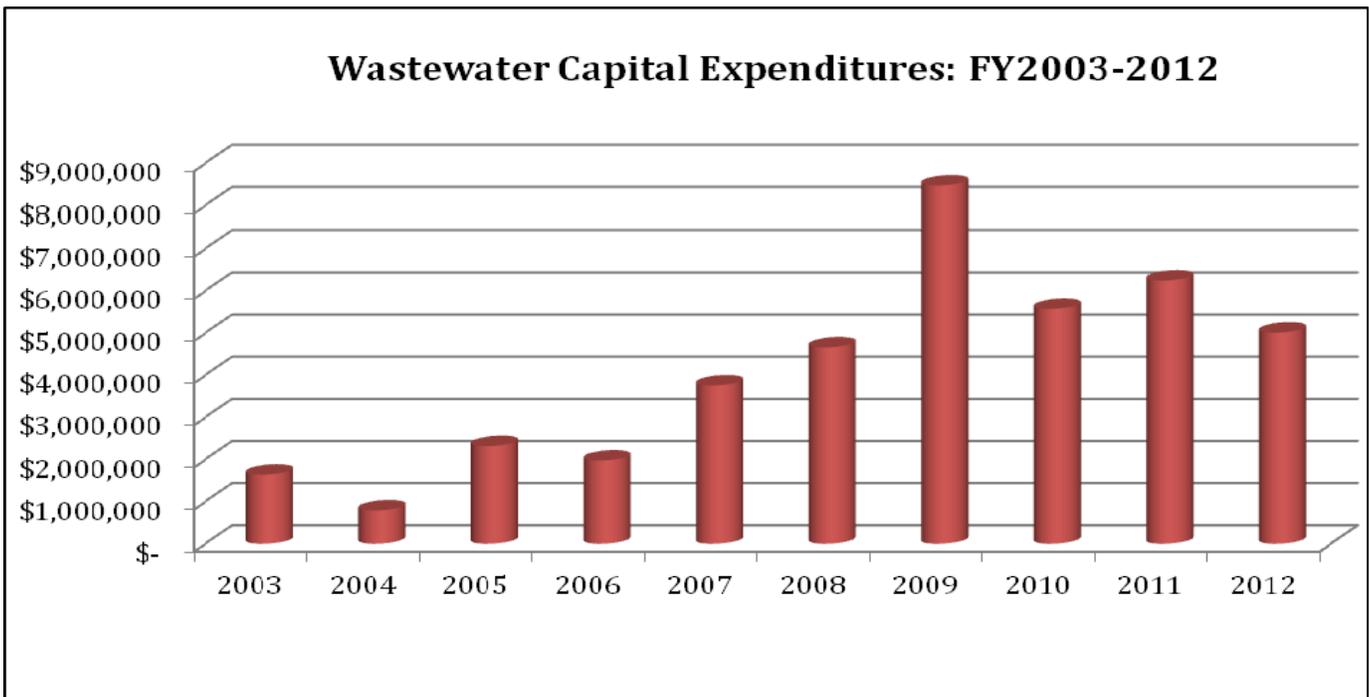
- Northern Meadows (Unit 19): 1.23 miles of sewer line
- High Range III: 1.15 miles of sewer line
- Paseo Vulcan Crossing: 0.15 miles of sewer line
- Diamond Ridge: 1.54 miles of sewer line
- Cabezon Tract 1A: 0.34 miles of sewer line
- Cabezon Commons Tract 11: 0.22 miles of sewer line

Funding Sources

Wastewater Utility capital projects are funded through various sources, including:

- Utility Bond and Loan Proceeds
- Wastewater Impact Fees
- Utility Net Revenues
- State and County Grants
- Environmental Gross Receipts Tax Revenue

Capital spending for wastewater utility infrastructure topped \$8.5 million in Fiscal Year 2009, however annual capital investment has declined to sixty percent (60%) of its 2009 peak in Fiscal Year 2012. The capital program has been and continues to be heavily supported by debt financing pledging the net revenues of the system. The recent decrease in spending is due in part to the City having not issued system bonds to support the capital program since 2009 due to revenue capacity constraints. The capital program has also been negatively affected by reduced Wastewater Impact Fee revenue which has comprised nearly a quarter of total capital spending since Fiscal Year 2003. While the City has not issued bonds since 2009, a \$25 million loan from the New Mexico Environment Department (NMED) in late 2009 for expansion of WWTP#6 in the Cabezon subdivision has propped up otherwise waning investment in capital assets.



FY2013-FY2018: ICIP Summary

Rank Priority	Project No.	Project Title	Project to Date	2013 Budget Request	2013 Additional Spending Anticipated	2013 Total	2014	2015	2016	2017	2018	Funding Requested: FY13-FY18	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding: FY13-FY18
													(A)	(B)	(C)	(D)	(A) + (B) + (C) + (D)
1	WW0673; WW0928	WWTP#6 Expansion, Effluent Tank and Pump Station and Reuse Line to WWTP#2-Phase I	\$ 5,245,198	\$ -	\$ 20,923,731	\$ 20,923,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,923,731	Impact Fees-Wastewater	Utility Funds Operating Revenues	Utility Loan Proceeds		
													\$ 16,373	\$ 771,451	\$20,135,907		\$ 20,923,731
2	WW1251	Significant Rebuild and Repair WWTP 2A and 3	\$ 201,575	\$ 400,000	\$ 183,425	\$ 583,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 583,425	Utility Funds Operating Revenues				
													\$ 583,425				\$ 583,425
3	WW1147	Splitter Box and Lift Station 10 Relocation and Land	\$ -	\$ -	\$ 308,644	\$ 308,644	\$ 656,186	\$ -	\$ -	\$ -	\$ -	\$ 964,830	Impact Fees-Wastewater	Utility Funds Operating Revenues	To Be Determined		
													\$ 475,589	\$ 82,347	\$ 406,894		\$ 964,830
4	WW1183	Montoya's Arroyo Sewer Upgrade-Phase 3	\$ 238,799	\$ -	\$ 1,768,988	\$ 1,768,988	\$ 1,642,788	\$ -	\$ -	\$ -	\$ -	\$ 3,411,776	Environmental GRT	Impact Fees-Wastewater	Utility Funds Operating Revenues	To Be Determined	
													\$ 686,384	\$ 872,588	\$ 405,425	\$ 1,447,379	\$ 3,411,776
5	WW1273; WW1349	SCADA Improvements	\$ 154	\$ 19,000	\$ 100,170	\$ 119,170	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 644,170	Utility Funds Operating Revenues	To Be Determined			
													\$ 119,170	\$ 525,000			\$ 644,170
6	WW0887	Septic Dump Station	\$ -	\$ -	\$ 252,754	\$ 252,754	\$ 3,174,780	\$ -	\$ -	\$ -	\$ -	\$ 3,427,534	Impact Fees-Wastewater	To Be Determined			
													\$ 230,000	\$ 3,197,534			\$ 3,427,534
7	WA0770	Aquifer Storage Demo/Direct Injection	\$ 5,335,077	\$ -	\$ 3,970,389	\$ 3,970,389	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,970,388	State Grants	Impact Fees-Wastewater	Utility Bond and Loan Proceeds		
													\$ 2,800,891	\$ 164,816	\$ 1,004,682		\$ 3,970,388
8	WW1039	Lift Station No. 4 Odor Control	\$ 28,615	\$ -	\$ 232,567	\$ 232,567	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ 322,567	Environmental GRT Revenues	Utility Funds Operating Revenues	To Be Determined		
													\$ 121,374	\$ 54,802	\$ 146,391		\$ 322,567
9	N/A	Replace Membrane Filters at WWTPs	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 200,000	\$ 800,000	To Be Determined				
													\$ 800,000				\$ 800,000
10	N/A	Lift Station No. 16 (Gateway South) New Well, Pumps with Flow Meter	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 150,000	Impact Fees-Wastewater				
													\$ 150,000				\$ 150,000



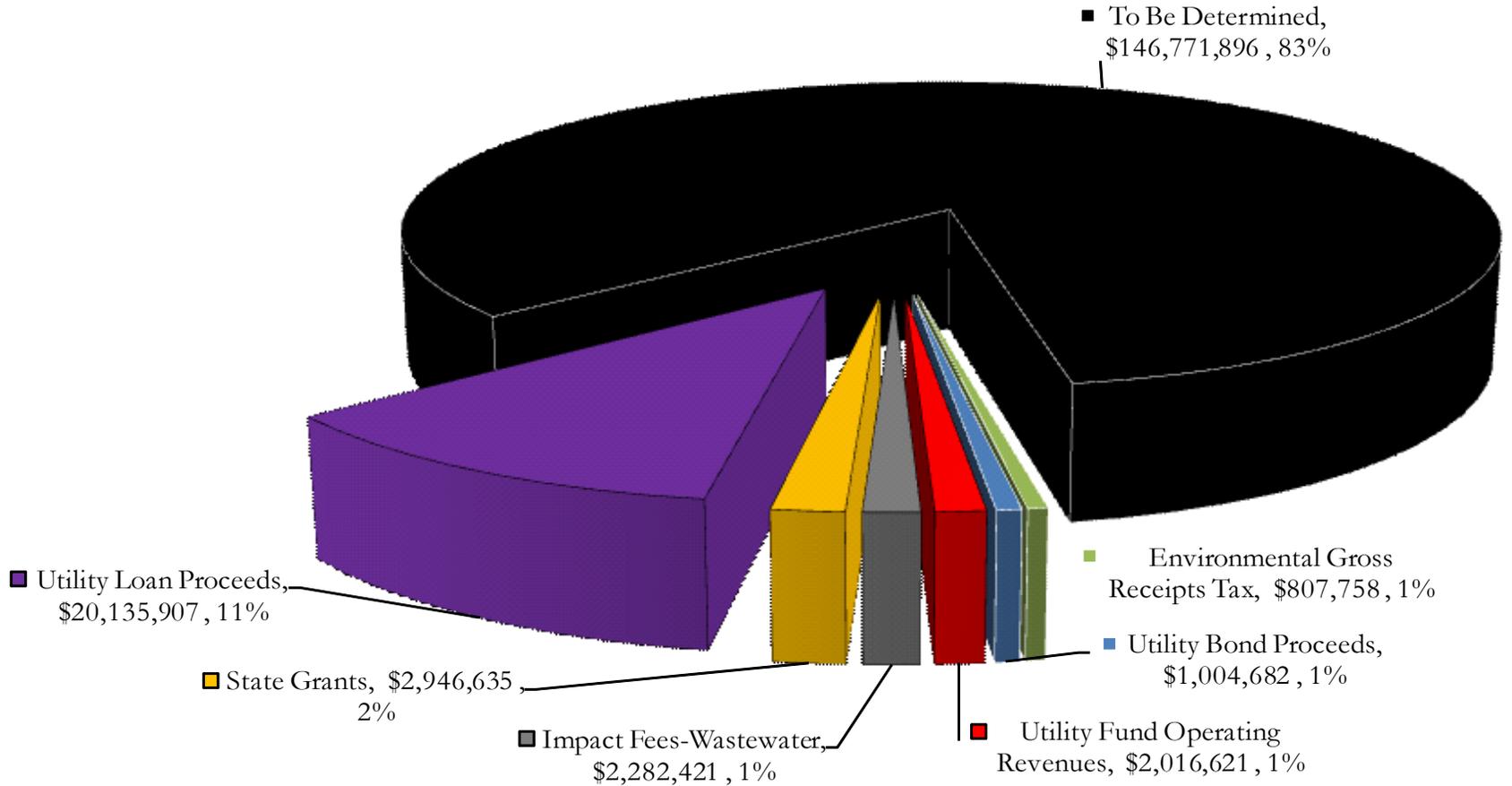
2013-2018 Infrastructure and Capital Improvement Plan
Utilities-Wastewater

FY2013-FY2018: ICIP Summary

Rank Priority	Project No.	Project Title	Project to Date	2013 Budget Request	2013 Additional Spending Anticipated	2013 Total	2014	2015	2016	2017	2018	Funding Requested: FY13-FY18	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding: FY13-FY18	
													(A)	(B)	(C)	(D)	(A) + (B) + (C) + (D)	
11	N/A	Retrofit WWTP#1 into 1.5MGD MBR Facility	\$ -	\$ -	\$ -	\$ -	\$ 1,324,000	\$ 10,234,122	\$ -	\$ -	\$ -	\$ 11,558,122	To Be Determined				\$ 11,558,122	
													\$ 11,558,122				\$ 11,558,122	
12	N/A	Vehicles and Heavy Machinery	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 970,261	To Be Determined				\$ 970,261	
													\$ 970,261				\$ 970,261	
13	N/A	Install/Replace Sanitary Sewer Lines	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 1,125,509	\$ 1,159,274	\$ 6,468,410	To Be Determined				\$ 6,468,410	
													\$ 6,468,410				\$ 6,468,410	
14	N/A	New Warehouse, Laboratory, and Office Complex at WWTP#2	\$ -	\$ -	\$ 337,734	\$ 337,734	\$ 4,242,195	\$ -	\$ -	\$ -	\$ -	\$ 4,579,929	To Be Determined				\$ 4,579,929	
													\$ 4,579,929				\$ 4,579,929	
15	N/A	Sludge De-Watering Building at WWTP #2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 376,929	\$ 4,734,465	\$ -	\$ 5,111,394	Impact Fees-Wastewater	To Be Determined			\$ 198,055	\$ 4,913,339
													\$ 198,055	\$ 4,913,339			\$ 5,111,394	
16	N/A	Unit 16 Sewer Feasibility Study	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	To Be Determined				\$ 100,000	
													\$ 100,000				\$ 100,000	
17	N/A	Barrancas Sewer Line-Phase II-Idalia to City Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 3,600,000	\$ 4,000,000	Impact Fees-Wastewater	To Be Determined			\$ 175,000	\$ 3,825,000
													\$ 175,000	\$ 3,825,000			\$ 4,000,000	
18	WW1150	Broadmoor / Chessmen Sewer Line Repair	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 414,359	\$ -	\$ -	\$ 414,359	To Be Determined				\$ 414,359	
													\$ 414,359				\$ 414,359	
19	N/A	Edinburgh Wastewater line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 480,000	\$ 480,000	To Be Determined				\$ 480,000	
													\$ 480,000				\$ 480,000	
20	N/A	WWTP#2 Expansion and Retrofit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000	\$ 34,677,361	\$ 38,677,361	Impact Fees-Wastewater	To Be Determined			\$ 175,000	\$ 38,502,361
													\$ 175,000	\$ 38,502,361			\$ 38,677,361	

FY2013-FY2018: ICIP Summary

Rank Priority	Project No.	Project Title	Project to Date	2013 Budget Request	2013 Additional Spending Anticipated	2013 Total	2014	2015	2016	2017	2018	Funding Requested: FY13-FY18	Funding Source	Funding Source	Funding Source	Funding Source	Total Funding: FY13-FY18
													(A)	(B)	(C)	(D)	(A) + (B) + (C) + (D)
21	N/A	Southern and Unser Sanitary Sewer Line (SAS) Diversion	\$ -	\$ -	\$ -	\$ -	\$ 1,471,288	\$ -	\$ -	\$ -	\$ -	\$ 1,471,288	To Be Determined				\$ 1,471,288
22	N/A	N. Blvd. Phase B-Unser to 30th Street Sanitary Sewer Line	\$ -	\$ -	\$ -	\$ -	\$ 370,887	\$ -	\$ -	\$ -	\$ -	\$ 370,887	To Be Determined				\$ 370,887
23	N/A	NM528 Force Main Expansion and Lift Station No. 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 768,178	\$ -	\$ -	\$ -	\$ 768,178	To Be Determined				\$ 768,178
24	N/A	Loma Colorado Terminal Effluent Reuse Storage Tank	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000,000	\$ -	\$ -	\$ -	\$ 6,000,000	To Be Determined				\$ 6,000,000
25	N/A	Security Wall @ WWTP#2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 222,396	\$ -	\$ -	\$ -	\$ 222,396	To Be Determined				\$ 222,396
26	N/A	Industrial Park Loop Sewer Line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 359,553	\$ -	\$ -	\$ 359,553	To Be Determined				\$ 359,553
27	N/A	Retrofit WWTP#3 into 1.5MGD MBR Facility	\$ -	\$ -	\$ 1,324,000	\$ 1,324,000	\$ 10,234,122	\$ -	\$ -	\$ -	\$ -	\$ 11,558,122	To Be Determined				\$ 11,558,122
28	N/A	WWTP#6 Expansion-Phase 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000	\$ 39,670,538	\$ 43,670,538	To Be Determined				\$ 43,670,538
29	WW1042	NM 528 Force Main Expansion, Lift Station No. 22 Expansion	\$ -	\$ -	\$ 180,002	\$ 180,002	\$ 2,260,955	\$ -	\$ -	\$ -	\$ -	\$ 2,440,957	To Be Determined				\$ 2,440,957
30	WW1175	Paseo Gateway Wastewater line	\$ 64,667	\$ -	\$ 145,744	\$ 145,744	\$ 1,400,000	\$ -	\$ -	\$ -	\$ -	\$ 1,545,744	State Capital Outlay Appropriation	To Be Determined			\$ 1,545,744
TOTALS			\$ 11,114,806	\$ 419,000	\$ 30,978,148	\$ 31,397,148	\$ 28,426,701	\$ 18,744,731	\$ 2,607,477	\$ 14,728,800	\$ 80,061,064	\$ 175,965,920					\$ 175,965,920



	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Environmental Gross Receipts Tax	\$ 807,758	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 807,758
Utility Bond Proceeds	\$ 1,004,682		\$ -	\$ -	\$ -	\$ -	\$ 1,004,682
Utility Fund Operating Revenues	\$ 1,856,617	\$ 160,004	\$ -	\$ -	\$ -	\$ -	\$ 2,016,621
Impact Fees-Wastewater	\$ 1,474,669	\$ 334,697	\$ 100,000	\$ 170,000	\$ 203,055	\$ -	\$ 2,282,421
State Grants	\$ 2,946,635	\$ -	\$ -	\$ -	\$ -		\$ 2,946,635
Utility Loan Proceeds	\$ 20,135,907	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,135,907
To Be Determined	\$ 3,170,880	\$ 27,932,000	\$ 18,644,731	\$ 2,437,477	\$ 14,525,745	\$ 80,061,064	\$ 146,771,896
TOTAL	\$ 31,397,148	\$ 28,426,701	\$ 18,744,731	\$ 2,607,477	\$ 14,728,800	\$ 80,061,064	\$ 175,965,920

1. PROJECT INFORMATION

Project Title	WWTP #6 Equipment Expansion, Effluent Tank/Pump Station and Reuse Line to WWTP #2 - Phase 1	Requesting Department	Dept. of Public Works/Utilities Administration	Department Rank Priority No.	1
Project Category	Utilities-Wastewater	CIP Year	FY2006	Project No.:	WW0928; WW0673
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project consists of 1. Expansion of Wastewater Treatment Plant (WWTP) #6 from 0.6 Million Gallon per Day (MGD) to 1.2 MGD; 2. A new 4,000 gallon per minute (gpm) booster station and new 3.0 (MGD) effluent storage tank; and 3. Approximately 29,000 feet of 12" and 18" transmission mains extending generally north and east from WWTP#6 to WWTP#2.

3. PROJECT JUSTIFICATION

The WWTP#6 expansion will increase treatment capacity while the pump station and transmission lines will delivery reuse water from WWTP#6 (located in the Cabezon subdivision) to the WWTP#2 site. Reuse water treated at WWTP#6 will provide irrigation water for various City parks, the Rio Rancho Sports Complex, the Cabezon subdivision, and the Chamisa Hills Country Club, therefore reducing the City's potable water demand. At a future time, WWTP#6 will also be the prime source of water for the City's direct injection program which will replenish ground water supplies.

4. PROJECT HISTORY AND STATUS

The WWTP#6 expansion project received categorical exclusion for environmental clearance in July 2009, while the effluent line environmental assessment was completed in November 2009. The City closed on a Clean Water State Revolving Fund Loan in June 2009 with the NMED in the amount of \$25M to fully fund the project and design commenced in February 2010. Construction of the 27th Street reuse line from WWTP#6 to the intersection of 27th Street and Southern Blvd. was completed in September 2010 (\$407,237.75) and construction of the Phase I-Reuse line in the Montoyas Arroyo (\$689,190.07) was completed in December 2011. Construction of WWTP#6 plant expansion is expected to commence in Spring 2012 to be completed in Fall 2012 (estimated cost: \$5,344,049). Design of the Reuse Booster Pump Station and Storage Reservoir are currently under review by the New Mexico Department of Environment and a notice of award has been issued for design of the 9,200' reuse line from the Montoyas Arroyo to the Loma Colorado direct injection site just south of Eagle Ridge Middle School (WA0770).

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review		\$ 57,359							\$ 57,359
Land Acq./ROW	Actual	\$ 210,384	\$ -						\$ 210,384
Design and Specifications	Actual	\$ 1,516,771	\$ 128,117						\$ 1,644,888
Construction	Cost Consultant	\$ 3,438,127	\$ 20,795,614						\$ 24,233,740
Construction Management	Actual	\$ 22,558	\$ -						\$ 22,558
Equipment/ Vehicle									\$ -
Other	Cost Consultant								\$ -
TOTAL		\$ 5,245,198	\$ 20,923,731	\$ -	\$ 26,168,929				

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Impact Fees-Wastewater	555 Wastewater	\$ 439,686	\$ 16,373						\$ 456,059
Utility Funds Operating	552 Effluent Fund	\$ 13,278	\$ 771,451						\$ 784,729
Utility Loan Proceeds To Be Determined	576-NMED Loan WWTP6	\$ 4,792,234	\$ 20,135,907						\$ 24,928,141
									\$ -
									\$ -
TOTAL		\$ 5,245,198	\$ 20,923,731	\$ -	\$ 26,168,929				

1. PROJECT INFORMATION

Project Title	Significant Rebuild and Repair for WWTP #2A, 2B and 3	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	2
Project Category	Utilities-Wastewater	CIP Year	FY2012	Project No.:	WW1251
Estimated Useful Life	Greater than 25 Years	District Location	Council District 4	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

Baffle repair, influent line repair, mixer repairs, diffuser repairs, air manifold system modification and ultra-violet system repairs/upgrades.

3. PROJECT JUSTIFICATION

Due to the age and capacity of WWTP #2, a significant amount of repair is needed to handle not only the existing flows but also the expected increase in flows to the treatment plant in the future. A similar and successful rebuild was previously completed on a portion of the WWTP #2 treatment process and it is expected that this project will have equal success relative to increasing capacity and reducing operation and maintenance issues.

4. PROJECT HISTORY AND STATUS

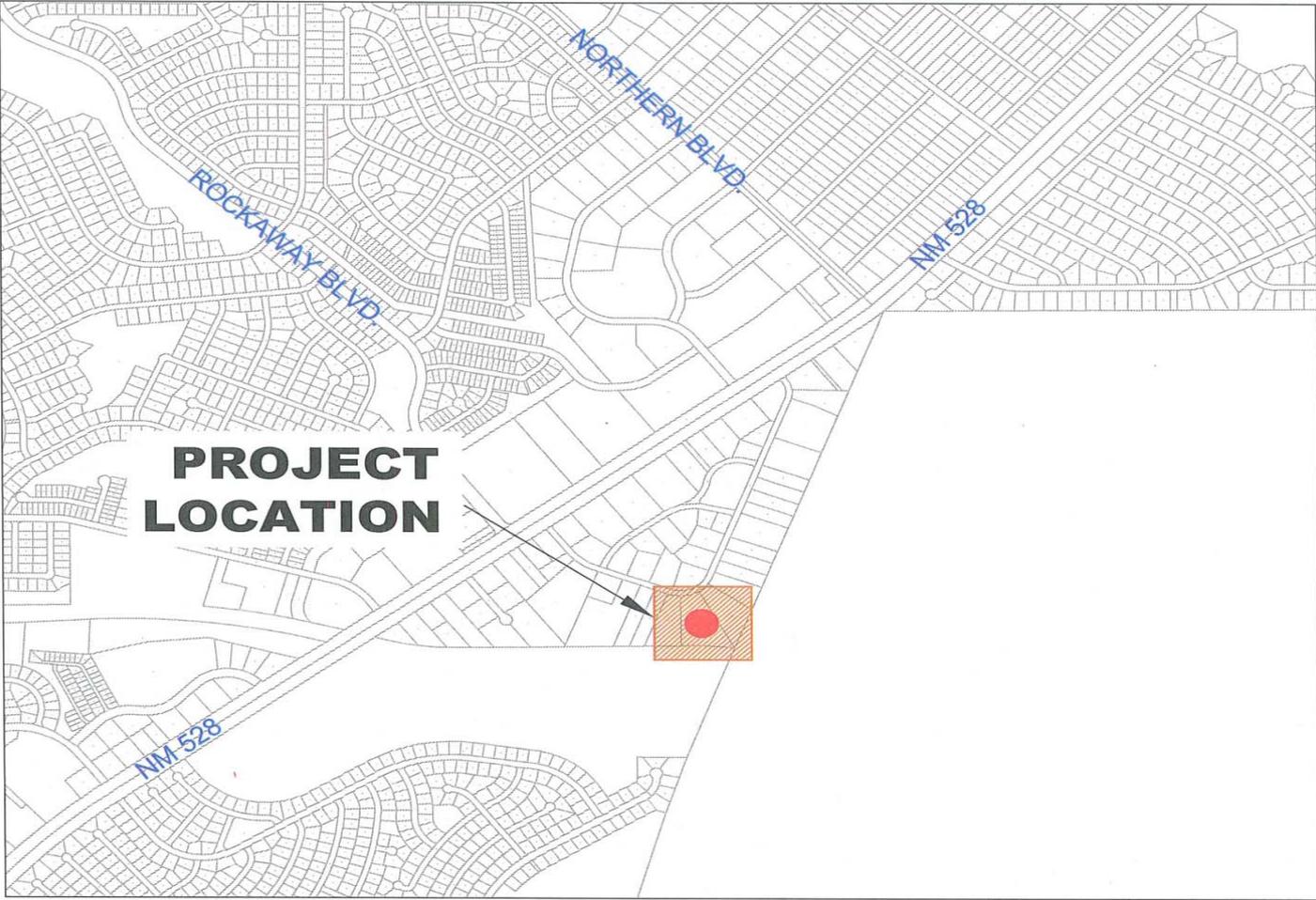
This is a revised project request. As such, the project has risen in priority rank within the Wastewater facility category from No. 4 to No. 2, and \$400,000 in planned expenditures added. Rebuild work at WWTP#2A and 2 B commenced in Fiscal Year 2012 and is currently in progress.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Recent City project	\$ 201,575	\$ 583,425						\$ 785,000
Construction Management									\$ -
Equipment/ Vehicle									\$ -
Other	Other								\$ -
TOTAL		\$ 201,575	\$ 583,425	\$ -	\$ 785,000				

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Utility Funds Operating	501 Utilities	\$ 201,575	\$ 583,425						\$ 785,000
									\$ -
									\$ -
									\$ -
									\$ -
TOTAL		\$ 201,575	\$ 583,425	\$ -	\$ 785,000				



1. PROJECT INFORMATION

Project Title	Splitter Box at Lift Station 10	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	3
Project Category	Utilities-Wastewater	CIP Year	FY2011	Project No.:	WW1147
Estimated Useful Life	Greater than 25 Years	District Location	Council District 5	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

A splitter box will be installed at Lift Station 10 to allow wastewater to be diverted from WWTP #2 to WWTP #1.

3. PROJECT JUSTIFICATION

The project will divert wastewater at Lift Station #10 located at the intersection of NM HWY 528 and Southern Boulevard. This diversion will reduce the flow to Wastewater Treatment Plant (WWTP) #2, thus providing hydraulic and solids loading relief at WWTP #2. The additional capacity will allow WWTP #2 to be more readily able to handle the increased flow that will be seen by the City Center development until WWTP #2 can be expanded. The diverted flow will then be routed for treatment to WWTP #1. This diversion will ultimately allow the effluent from WWTP #1 to be connected to the City's water reuse system supplied by WWTP #6.

4. PROJECT HISTORY AND STATUS

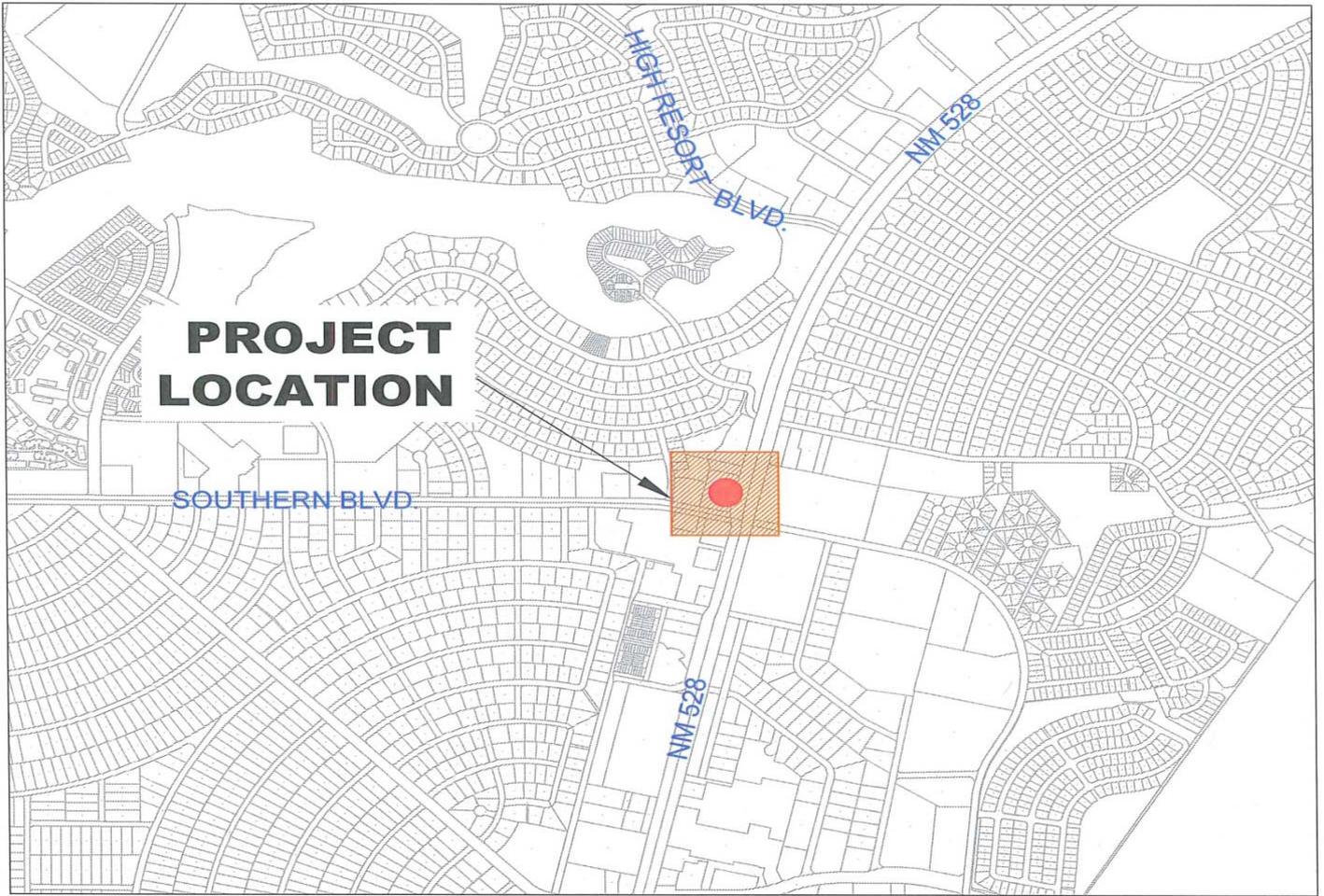
The project is a revised project request originally planned for design in Fiscal Year 2010 and construction in Fiscal Year 2011, however full funding remains unavailable. As revised, the project has risen in priority rank within the Wastewater facility category from No. 9 to No. 3 and is now planned for design in Fiscal Year 2013 and construction in Fiscal Years 2013 and 2014.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant		\$ 100,000						\$ 100,000
Construction	Cost Consultant		\$ 208,644	\$ 656,186					\$ 864,830
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ 308,644	\$ 656,186	\$ -	\$ -	\$ -	\$ -	\$ 964,830

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Impact Fees-Wastewater	555 Wastewater		\$ 275,589	\$ 200,000					\$ 475,589
Utility Funds Operating	550 CIF Wastewater		\$ 33,055	\$ 49,292					\$ 82,347
To Be Determined				\$ 406,894					\$ 406,894
									\$ -
									\$ -
TOTAL		\$ -	\$ 308,644	\$ 656,186	\$ -	\$ -	\$ -	\$ -	\$ 964,830



1. PROJECT INFORMATION

Project Title	Montoya's Arroyo Sewer Upgrade-Phase 3	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	4
Project Category	Utilities-Wastewater	CIP Year	FY2011	Project No.:	WW1183
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project consists of approximately 10,000' of new 22" sanitary sewer pipe will be installed in the sandy bottom of Montoya's Arroyo from Northern Blvd. to the Sports Complex Dam. The existing 15" SAS pipe will be capped and abandoned in place.

3. PROJECT JUSTIFICATION

The existing 15" pipe has an insufficient capacity for the current hydraulic flow conditions, therefore it is necessary to replace the existing pipe with a larger, 22" diameter SAS pipe. Substantial wet weather events in the arroyo are problematic due to the location of the existing line as well as the capacity of the existing line to adequately convey storm sewer flows.

4. PROJECT HISTORY AND STATUS

This is a revised project request. As such, the project has fallen in priority rank within the Wastewater facility category from No. 3 to No. 4. Design was complete in December 2011 and approval of the city's 404 permit application to the Army Corp. of Engineers is anticipated in Summer 2012. A related project involves expansion of the Montoyas Arroyo sewer interceptor to serve development northwest of Northern Blvd. and Broadmoor.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review	Actual	\$ 53,813	\$ -						\$ 53,813
Land Acq./ROW									\$ -
Design and Specifications	Actual	\$ 184,987							\$ 184,987
Construction	Cost Consultant		\$ 1,642,788	\$ 1,642,788					\$ 3,285,575
Construction Management	Cost Consultant		\$ 126,201						\$ 126,201
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ 238,799	\$ 1,768,988	\$ 1,642,788	\$ -	\$ -	\$ -	\$ -	\$ 3,650,575

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Environmental GRT Revenues	260-EGRT Fund	\$ 238,799	\$ 686,384						\$ 925,183
Impact Fees-Wastewater	555 Wastewater Impact Fees Fund		\$ 787,891	\$ 84,697	\$ -	\$ -	\$ -	\$ -	\$ 872,588
Utility Funds	550 CIF								
Operating Revenues	Wastewater Fund		\$ 294,714	\$ 110,712					\$ 405,425
To Be Determined			\$ -	\$ 1,447,379					\$ 1,447,379
TOTAL		\$ 238,799	\$ 1,768,988	\$ 1,642,788	\$ -	\$ -	\$ -	\$ -	\$ 3,650,575



1. PROJECT INFORMATION

Project Title	SCADA Improvements	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	5
Project Category	Utilities-Wastewater	CIP Year	Recurring Capital Need	Project No.:	WW1273; WW1349
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	New Project Request

2. PROJECT DESCRIPTION AND SCOPE

SCADA improvements will be constructed to improve automation.

3. PROJECT JUSTIFICATION

The improvements made to the SCADA are an important step in controlling the operations.

4. PROJECT HISTORY AND STATUS

This project is a revised project request.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Cost Consultant	\$ 154	\$ 119,170	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 644,324
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ 154	\$ 119,170	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 644,324

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Utility Funds Operating Revenues	501 Utilities	\$ 154	\$ 100,170						\$ 100,324
Utility Funds Operating To Be Determined	550 CIF Wastewater		\$ 19,000						\$ 19,000
			\$ -	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 525,000
									\$ -
									\$ -
TOTAL		\$ 154	\$ 119,170	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 644,324

1. PROJECT INFORMATION

Project Title	Septic Dump Station	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	6
Project Category	Utilities-Wastewater	CIP Year	FY2012	Project No.:	WW0887
Estimated Useful Life	Greater than 25 Years	District Location	Council District 4	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

A septic dump station will be designed and constructed at Wastewater Treatment Plant (WWTP) #2.

3. PROJECT JUSTIFICATION

The septic dump station will serve as a dumping point for septic haulers. This will allow biological pretreatment of the septic system waste before it is introduced to the WWTP processes, serving a buffer to the WWTP.

4. PROJECT HISTORY AND STATUS

This project is a revised project request originally planned for design in Fiscal Year 2011 and construction in Fiscal Year 2012, however full funding remains unavailable. As such, the project has risen in priority rank within the Wastewater facility category from No. 8 to No. 6 and is planned for design in Fiscal Year 2012 an 2013 and construction in Fiscal Year 2014, contingent upon identification of \$3.2M in funding.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant	\$ -	\$ 126,136						\$ 126,136
Construction	Cost Consultant			\$ 3,023,128					\$ 3,023,128
Construction Management	Cost Consultant	\$ -	\$ 74,057	\$ 151,652					\$ 225,709
Equipment/Vehicle									\$ -
Other			\$ 52,561						\$ 52,561
TOTAL		\$ -	\$ 252,754	\$ 3,174,780	\$ -	\$ -	\$ -	\$ -	\$ 3,427,534

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Impact Fees-Wastewater	555 Wastewater	\$ -	\$ 230,000						\$ 230,000
To Be Determined			\$ 22,754	\$ 3,174,780					\$ 3,197,534
									\$ -
									\$ -
TOTAL		\$ -	\$ 252,754	\$ 3,174,780	\$ -	\$ -	\$ -	\$ -	\$ 3,427,534

1. PROJECT INFORMATION

Project Title	Aquifer Storage/Direct Injection	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	7
Project Category	Utilities-Wastewater	CIP Year	FY2012	Project No.:	WA0770
Estimated Useful Life	Greater than 25 Years	District Location	Council District 4	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project involves the construction of a subsurface injection system which will recharge aquifers that supply water to the City. This system includes the construction of the Mariposa recharge system, the direct injection site, injection well, monitoring system, surface infrastructure for the direct injection system, two miles of pipeline from the Sports Complex to Loma Colorado and a partially buried reuse storage tank.

3. PROJECT JUSTIFICATION

The population growth in the City has increased the demand for potable and nonpotable water. The City has acquired and continues to purchase water rights to help meet this demand, though it is slow and expensive. In order to protect this valuable resource, a water reuse program will be implemented to augment the water supply. Water will be put in aquifers by means of direct injection.

4. PROJECT HISTORY AND STATUS

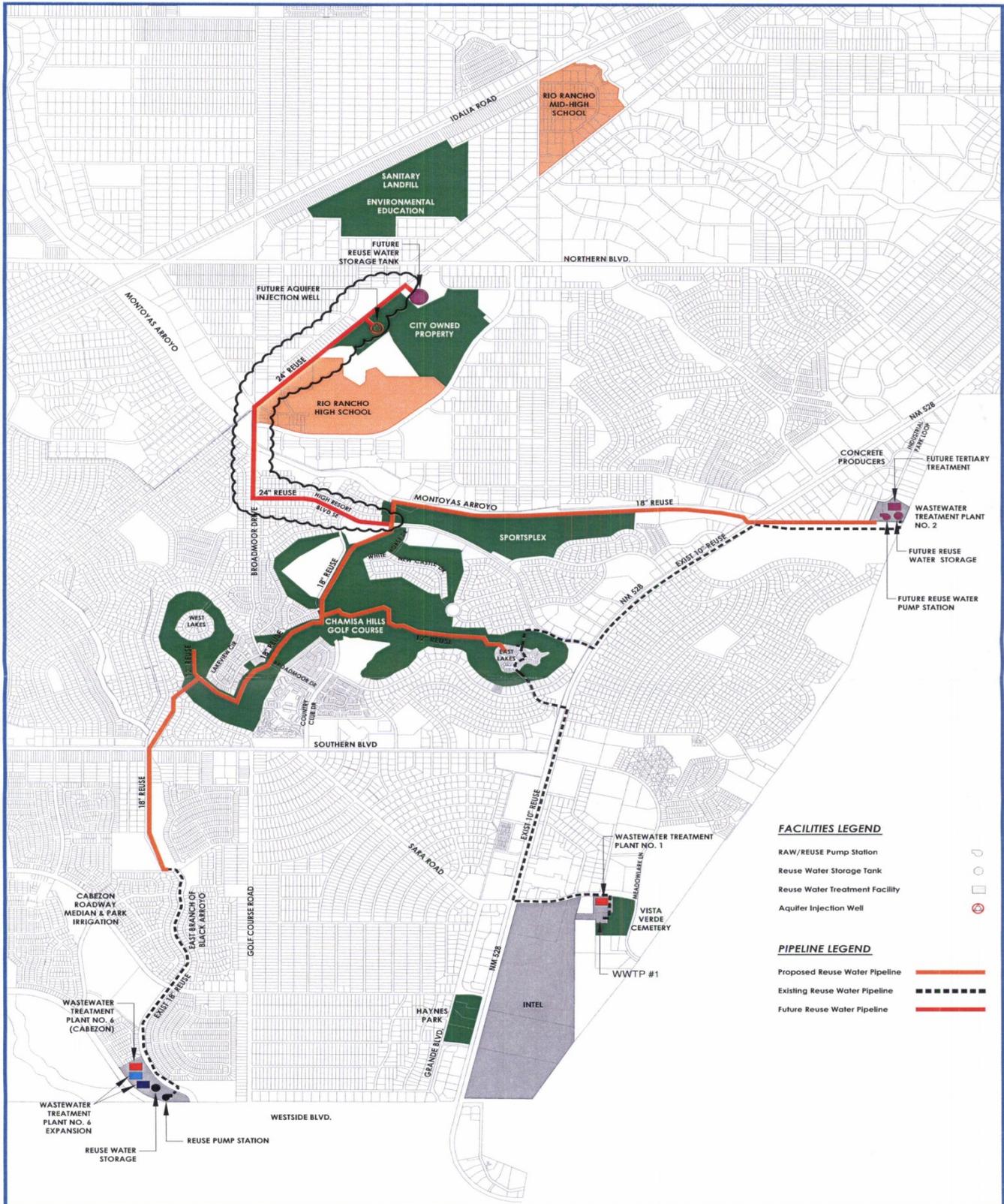
Construction of the Mariposa recharge system was completed in December 2008. The direct injection site, injection well, and monitoring system are also in place, all completed in 2010. Potable pilot testing at the Loma Colorado direct injection site is currently in progress to be completed in Summer 2012. Permitting and construction of surface infrastructure for the direct injection system will commence thereafter.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant	\$ 1,906,242	\$ 289,527						\$ 2,195,769
Construction	Cost Consultant	\$ 2,705,459	\$ 3,680,862						\$ 6,386,321
Construction Management	Cost Consultant								\$ -
Equipment/Vehicle	Actual	\$ 693,146							\$ 693,146
Other	Cost Consultant	\$ 30,230							\$ 30,230
TOTAL		\$ 5,335,077	\$ 3,970,389	\$ -	\$ 9,305,466				

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
State Grants	552 Effluent Fund	\$ 2,535,565	\$ 2,800,891						\$ 5,336,456
County Grants	552 Effluent Fund	\$ 1,500,000	\$ -						\$ 1,500,000
Utility Funds Operating Revenues	552 Effluent Fund	\$ 70,200	\$ -						\$ 70,200
Impact Fees-Wastewater	555 Wastewater Impact Fees	\$ -	\$ 164,816						\$ 164,816
Utility Bond Proceeds	574-2009 UT Refunding Fund	\$ 769,312	\$ 1,004,682						\$ 1,773,994
Utility Loan Proceeds	552 Effluent Fund	\$ 460,000	\$ -						\$ 460,000
To Be Determined			\$ -						\$ -
TOTAL		\$ 5,335,077	\$ 3,970,389	\$ -	\$ 9,305,466				



FACILITIES LEGEND

- RAW/REUSE Pump Station
- Reuse Water Storage Tank
- Reuse Water Treatment Facility
- Aquifer Injection Well

PIPELINE LEGEND

- Proposed Reuse Water Pipeline
- Existing Reuse Water Pipeline
- Future Reuse Water Pipeline



REUSE WATER DISTRIBUTION SYSTEM AND PHASING
DATE: 9-30-2010

PREPARED BY:
WILSON & COMPANY
2600 The American Rd. SE, Ste. 100
Rio Rancho, New Mexico 87124
505-998-8021



1. PROJECT INFORMATION

Project Title	Lift Station 4 Odor Control	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	8
Project Category	Utilities-Wastewater	CIP Year	FY2010	Project No.:	WW1039
Estimated Useful Life	Greater than 25 Years	District Location	Council District 1	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project involves study of odor issues related with the lift station and recommendations for resolving odor complaints received by the City. Biological odor control systems and other alternatives will be evaluated and construction of improvements will be undertaken to correct the problem.

3. PROJECT JUSTIFICATION

Project is necessary to address complaints registered with the City concerning the foul odor emitting from the lift station.

4. PROJECT HISTORY AND STATUS

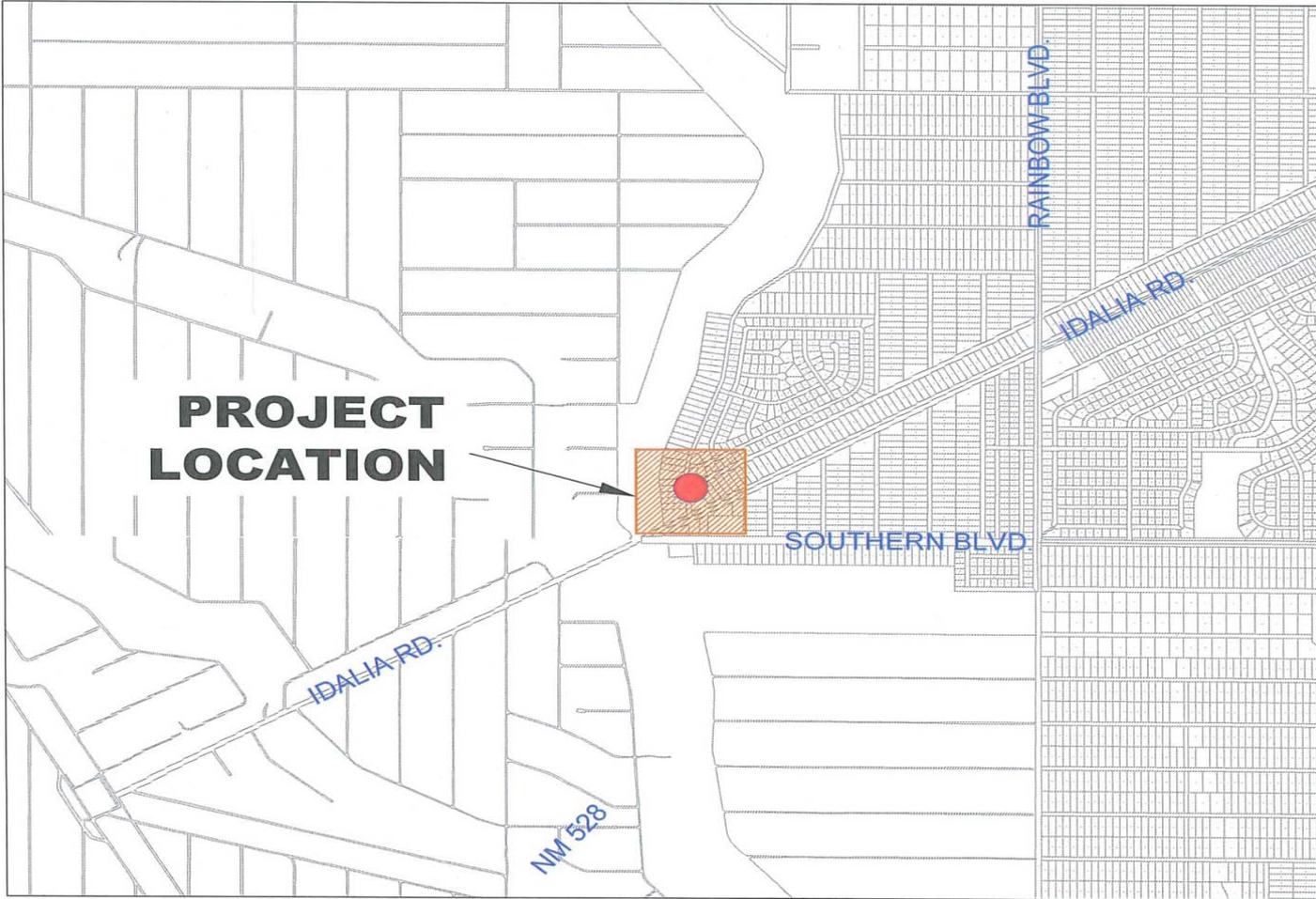
Lift Station No. 4 is located at Inca and Hondo Rd in western Rio Rancho. Several complaints have been registered with the City concerning the foul odor emitting from the station. The project is a revised project request. As revised, the project has fallen in priority rank within the Wastewater facility category from No. 7 to No. 8. Sewer capacity analysis was completed in in December 2010 and an optimization study was completed in Spring 2012. Final design and commencement of construction is planned for Fiscal Year 2013 contingent upon identification of an additional \$146,391 in funding.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review	Actual	\$ 28,615	\$ -						\$ 28,615
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant		\$ 17,567						\$ 17,567
Construction	Cost Consultant		\$ 205,000	\$ 90,000					\$ 295,000
Construction Management	Cost Consultant		\$ 10,000						\$ 10,000
Equipment/ Vehicle									\$ -
Other									\$ -
TOTAL		\$ 28,615	\$ 232,567	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ 351,182

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Environmental GRT Revenues	260-EGRT Fund	\$ 28,615	\$ 121,374						\$ 149,989
Utility Funds Operating	550 CIF Wastewater	\$ -	\$ 54,802						\$ 54,802
To Be Determined			\$ 56,391	\$ 90,000					\$ 146,391
									\$ -
									\$ -
TOTAL		\$ 28,615	\$ 232,567	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ 351,182



1. PROJECT INFORMATION

Project Title	Replace Membrane Filtesrs at WWTPs	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	9
Project Category	Utilities-Wastewater	CIP Year	Recurring Capital Need	Project No.:	NA
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

Replace Wastewater Membrane Filters at the Cabezon Water Reclamation Facility and Mariposa Water Reclamation Facility.

3. PROJECT JUSTIFICATION

The project is necessary to ensure continued compliance with the City of Rio Ranchos National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA). The Zenon Membrane Filters which produce a very high quality of effluent degrade over time and need to be replaced prior to any potential violations or major failures.

4. PROJECT HISTORY AND STATUS

The Cabezon and Mariposa Water Reclamation Facilities were completed in March 2006 and Membrane lifetime are estimated to be 10 years. This is a revised project. As such, it has risen in priority rank within the Wastewater facility category from No. 25 to No. 9.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction									\$ -
Construction Management									\$ -
Equipment/ Vehicle									\$ -
Other	Other		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 200,000	\$ 800,000
TOTAL		\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 200,000	\$ 800,000

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITUR E FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
To Be Determined			\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 200,000	\$ 800,000
									\$ -
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 200,000	\$ 200,000	\$ 800,000

1. PROJECT INFORMATION

Project Title	Lift Station 16 (Gateway South) New wet well, pumps with flow meter	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	10
Project Category	Utilities-Wastewater	CIP Year	FY2013	Project No.:	NA
Estimated Useful Life	Greater than 25 Years	District Location	Council District 1	Project Request Status	New Project Request

2. PROJECT DESCRIPTION AND SCOPE

New Lift Station to be constructed adjacent to existing Lift Station 16.

3. PROJECT JUSTIFICATION

The original lift station constructed prior to the City's acquisition of the utilities was improperly designed for the commercial area served along NM528 from Sara Rd. to Westside Boulevard. The new lift station will be constructed an additional 5 feet to 10 feet of additional depth to prevent surcharging in the existing sanitary sewer lines.

4. PROJECT HISTORY AND STATUS

This is a new project in the Fiscal Year 2013-2018 ICIP.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant			\$ 50,000					\$ 50,000
Construction	Cost Consultant				\$ 100,000				\$ 100,000
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ -	\$ 50,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 150,000

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Impact Fees-Wastewater			\$ -	\$ 50,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 150,000
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ -	\$ 50,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 150,000

1. PROJECT INFORMATION

Project Title	Retrofit WWTP #1 into 1.5 MGD MBR Facility	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	11
Project Category	Utilities-Wastewater	CIP Year	FY2014	Project No.:	N/A
Estimated Useful Life	Greater than 25 Years	District Location	Council District 5	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project involves retrofitting WWTP #1 located on Riverside Drive in Council District 5 to a Membrane Bioreactor (MBR) plant. The existing process basins will be converted into aeration tanks and MBR tanks, headworks facility, and blower building will be added.

3. PROJECT JUSTIFICATION

Upgrading the WWTP #1 to an MBR facility will increase the effluent water quality, increase treatment capacity, improve operation stability and decrease odor emitted from the plant.

4. PROJECT HISTORY AND STATUS

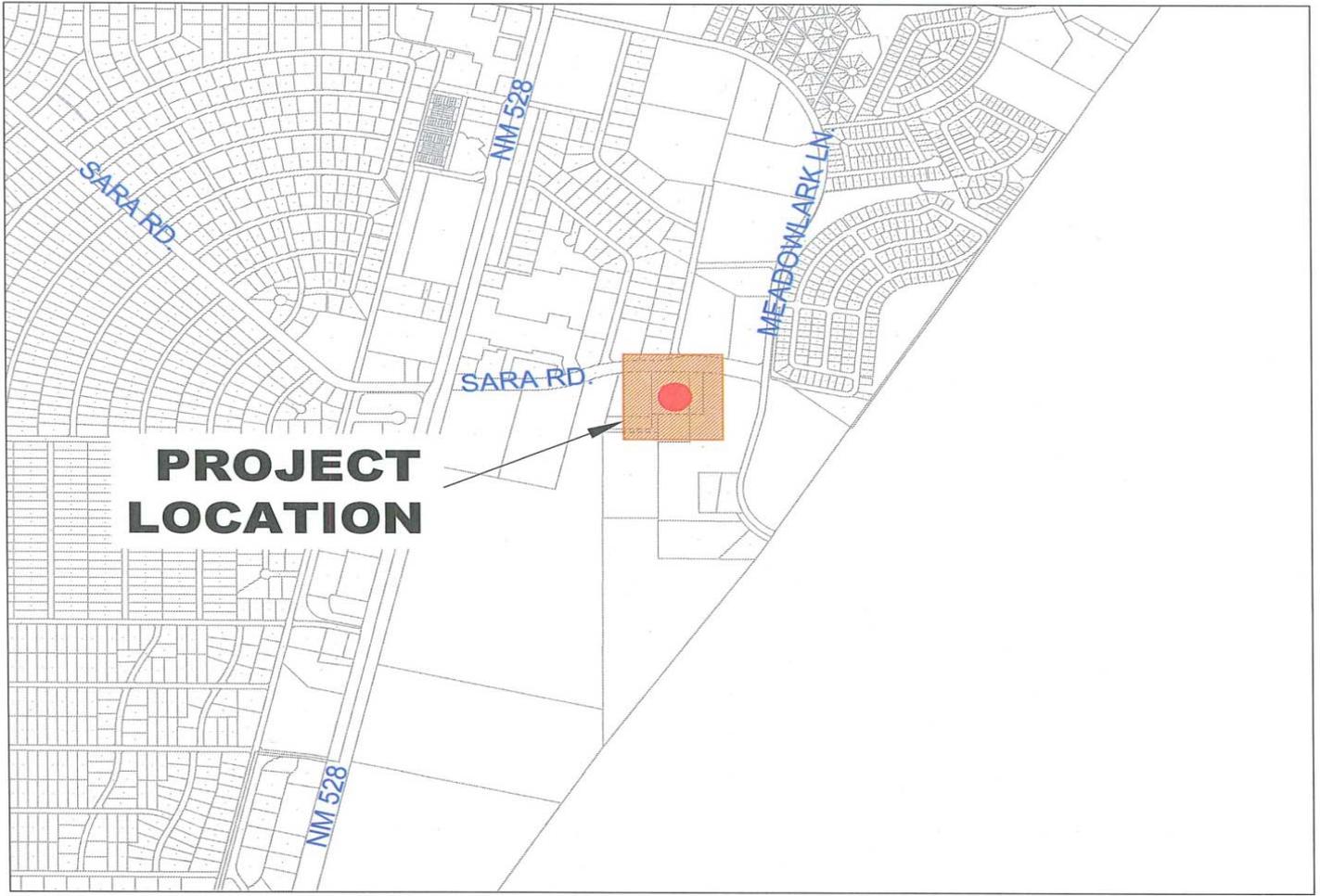
This project is a revised project request originally planned for design in Fiscal Year 2013 and construction in Fiscal Year 2014. As revised, the project has risen in priority rank within the Wastewater facility category from No. 13 to No. 11. Funding remains unavailable at this time.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant			\$ 1,324,000					\$ 1,324,000
Construction	Cost Consultant				\$ 10,234,122				\$ 10,234,122
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ -	\$ 1,324,000	\$ 10,234,122	\$ -	\$ -	\$ -	\$ 11,558,122

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
To Be Determined				\$ 1,324,000	\$ 10,234,122				\$ 11,558,122
									\$ -
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ -	\$ 1,324,000	\$ 10,234,122	\$ -	\$ -	\$ -	\$ 11,558,122



**PROJECT
LOCATION**

1. PROJECT INFORMATION

Project Title	Vehicles and Heavy Equipment	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	12
Project Category	Utilities-Wastewater	CIP Year	Recurring Capital Need	Project No.:	N/A
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

Vehicles and heavy equipment will be purchased for use in wastewater utility operations.

3. PROJECT JUSTIFICATION

Vehicles and heavy equipment must be purchased on an annual basis to replace existing aging equipment. New vehicles and heavy equipment purchases are necessary when the repair costs exceed the cost of purchasing new equipment.

4. PROJECT HISTORY AND STATUS

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction									\$ -
Construction Management									\$ -
Equipment/ Vehicle	Other		\$ 150,000	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 970,261
Other									\$ -
TOTAL		\$ -	\$ 150,000	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 970,261

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
To Be Determined			\$ 150,000	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 970,261
									\$ -
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ 150,000	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 970,261

1. PROJECT INFORMATION

Project Title	Install and Replace Sanitary Sewer Lines	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	13
Project Category	Utilities-Wastewater	CIP Year	Recurring Capital Need	Project No.:	N/A
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

Old sanitary sewer lines will be removed and replaced depending on condition and funding. Numerous repairs are made on an annual basis to the existing sewer system.

3. PROJECT JUSTIFICATION

The physical integrity of sanitary sewer lines degrades over time and leaks can develop. Replacing these lines is necessary to maintain proper flow characteristics. Also, community development results in greater water demand and can require installation of new pipes with larger diameters.

4. PROJECT HISTORY AND STATUS

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications									\$ -
Construction	Cost Consultant		\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 1,125,509	\$ 1,159,274	\$ 6,468,410
Construction Management									\$ -
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 1,125,509	\$ 1,159,274	\$ 6,468,410

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
To Be Determined			\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 1,125,509	\$ 1,159,274	\$ 6,468,410
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ 1,000,000	\$ 1,030,000	\$ 1,060,900	\$ 1,092,727	\$ 1,125,509	\$ 1,159,274	\$ 6,468,410

1. PROJECT INFORMATION

Project Title	New Warehouse, Laboratory, and Office Complex at WWTP#2	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	14
Project Category	Utilities-Wastewater	CIP Year	FY2013	Project No.:	N/A
Estimated Useful Life	Greater than 25 Years	District Location	Council District 5	Project Request Status	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

The project consists of design and construction of a new warehouse with additional equipment storage space, a new laboratory, and office space at WWTP#2. Project includes land acquisition for site expansion.

3. PROJECT JUSTIFICATION

Elevated treatment levels and population growth have put a strain on plant capacity at WWTP#2 as well as wastewater utility operating resources working from the site. The project is physically located in District 5, however will benefit multiple districts whose wastewater flows are conveyed to WWTP#2.

4. PROJECT HISTORY AND STATUS

The project is a revised project request originally planned for design in Fiscal Year 2011 and construction in Fiscal Year 2012, however funding was unavailable. As revised, the project has fallen in priority rank within the Wastewater facility category from No. 11 to No. 14 and is now planned for design in Fiscal Year 2013 and construction in Fiscal Year 2014.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant		\$ 337,734						\$ 337,734
Construction	Cost Consultant			\$ 4,039,554					\$ 4,039,554
Construction Management	Cost Consultant			\$ 202,641					\$ 202,641
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ 337,734	\$ 4,242,195	\$ -	\$ -	\$ -	\$ -	\$ 4,579,929

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
To Be Determined			\$ 337,734	\$ 4,242,195					\$ 4,579,929
									\$ -
									\$ -
									\$ -
									\$ -
TOTAL		\$ -	\$ 337,734	\$ 4,242,195	\$ -	\$ -	\$ -	\$ -	\$ 4,579,929

1. PROJECT INFORMATION

Project Title	Sludge De-Watering Building at WWTP #2	Requesting Department	Dept. of Public Works/Utilities	Department Rank Priority	15
Project Category	Utilities-Wastewater	CIP Year	FY2013	Project No.:	N/A
Estimated Useful Life	Greater than 25 Years	District Location	Multiple Districts	Project Request	Revised Project Request

2. PROJECT DESCRIPTION AND SCOPE

A new Sludge Dewatering Building at Wastewater Treatment Plant (WWTP) #2.

3. PROJECT JUSTIFICATION

As the City continues to grow, wastewater flows and solids continue to increase at wastewater treatment facilities. In order to maintain compliance with the discharge permit issued by the New Mexico Environment Department, effluent and solids must be disposed in a certain manner. The project will provide additional solids handling capacity in order to meet the increased sludge production requirements as the City continues to grow, while ensuring compliance with the New Mexico Environment Department. The project will be physically located in Council District 5 @ WWTP#2, however the new facility will benefit the entire City given wastewater flows from multiple districts are conveyed to WWTP#2.

4. PROJECT HISTORY AND STATUS

The project is a revised project request originally planned for design and construction in Fiscal Year 2011. As revised, the project has fallen in priority rank within the Wastewater facility category from No. 5 to No. 15 and will now be designed in Fiscal Year 2013 and constructed in Fiscal Year 2014, contingent upon identification of funding.

5. CAPITAL COSTS

PHASE	SOURCE(S) OF COST INFO	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Planning and Feasibility									\$ -
Pre Design and Env. Review									\$ -
Land Acq./ROW									\$ -
Design and Specifications	Cost Consultant					\$ 376,929			\$ 376,929
Construction	Cost Consultant						\$ 4,508,310		\$ 4,508,310
Construction Management	Cost Consultant						\$ 226,155		\$ 226,155
Equipment/Vehicle									\$ -
Other									\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ 376,929	\$ 4,734,465	\$ -	\$ 5,111,394

6. PROPOSED SOURCES OF FUNDING

REVENUE SOURCE	EXPENDITURE FUND	PRIOR YEARS	FY13	FY14	FY15	FY16	FY17	FY18	TOTAL
Impact Fees-Wastewater			\$ -	\$ -	\$ -	\$ 170,000	\$ 28,055	\$ -	\$ 198,055
To Be Determined			\$ -	\$ -	\$ -	\$ 206,929	\$ 4,706,410	\$ -	\$ 4,913,339
									\$ -
									\$ -
TOTAL		\$ -	\$ -	\$ -	\$ -	\$ 376,929	\$ 4,734,465	\$ -	\$ 5,111,394

Wastewater Treatment Projects

Aquifer Storage Demonstration (WA0770)

Feasibility analysis, planning, and engineering activities began in January 2007 in support of advanced water treatment systems for aquifer recharge with high quality reclaimed water sources. In December 2008, city contractor's completed work on a 3 vadose zone well clusters and 3 monitoring wells around the reclaimed water infiltration gallery located at the Mariposa Wastewater Reclamation Facility (WRF).



Between October 2009 and March 2010, the City conducted pilot scale testing of advanced water treatment systems post treatment at WWTP#6 at Cabezon, and in December 2009 the City issued a notice to proceed with construction of a ground water monitoring system around a planned injection well located approximately ½ mile southeast of the intersection of Broadmoor Dr. and Northern Blvd. Installation and equipping of 5 monitoring wells drilled within 200' of the planned injection well site was completed in spring 2010. Construction of the injection well was accomplished under a separate contract and was completed in June 2011. Additional potable water testing is in progress at the Loma Colorado injection well site to be completed in fall 2012. Permitting and final design of the full scale treatment site will

follow successful water testing. In the intermim, construction of a 6,000 sq. ft. building that will house future treatment equipment, and steel storage tanks and yard piping is in progress at Loma Colorado.

Project expenditures to date total \$5.3 million while outstanding contracts for work in progress total an additional \$2.2 million. Sources of financing secured to date include: grant funding from Sandoval County (\$1.5 million); a special one-time State Capital Outlay Appropriation (\$3 million); a combination loan/grant from the Water Trust Board (\$350,000); a combination loan/grant from the Water Innovation Board (\$1.95 million); a grant from the Water Innovation Fund (\$496,458); Utility Operating Fund transfers; Utility Bond Proceeds; and, Water Impact Fees (\$2,009,010). The remaining phases of the advanced water treatment facility is estimated to cost an additional \$1.5 million.

Wastewater Treatment Plant (WWTP) #6 Expansion and Reuse Line to WWTP#2 (WW0673 & WW0928)

In September 2009, the City entered into a loan agreement with the New Mexico Environment Department (NMED) in the principal amount of \$25 million for the expansion of and construction of reuse facilities at WWTP#6. The project consists of a new 4,000 gallon per minute (gpm) booster station, a new 3 Million Gallon Per Day (MGD) effluent storage tank, and approximately 29,000 linear feet of 12” and 18” transmission line extending generally north and east from WWTP#6 to WWTP#2. The expansion will increase treatment capacity at WWTP#6 while the pump station and transmission line will delivery reuse water from WWTP#6 to the WWTP#2 site, providing irrigation water for various City parks, the Rio Rancho Sports Complex, the Cabezon subdivision, and the Camisa Hills Country Club. Treated effluent water will also be used for direct injection activities related to the aquifer recharge project described above. Environmental reviews for the plant expansion and the reuse line have been completed and design of the overall project is in progress at 95 percent (95%) completion. Construction of various segments of the reuse pipeline from WWTP#6 to WWTP#2 have been completed including:

- WWTP#6 to the intersection of 27th Street and Southern Blvd.: Septemer 2010
- Phase I reuse line with the Montoyas Arroyo from Sports Complex Damn to WWTP#2: December 2011
- Chamisa Greens resuse line with the Chamisa Hills Golf Course area: June 2012

A contract has been executed for a membrane filtration system at WWTP#6 and construction of expaned facilities and installation of the membrane filtration system is currently in progress to be completed by January 2013. In addition to the \$25 million NMED loan, the project is funded through Wastewater Impact Fees (\$398,699), and Utility Operating Fund revenue (\$784,729).

Septic Dump Station @ WWTP #2 (WW0887)

Design of a septic dump station for use by septic haulers is in progress to be complete in fall 2012. Funding for design is from Wastewater Impact Fees while construction funding remains to be determined at this time. The septic dump station will allow biological pretreatment of septic waste before it is introduced to the wastewater treatment plant process.

Lift Station #4 Odor Control (WW1039)

Sewer main capacity analysis and an optimization study aimed at reducing odor at Lift Station #4 near Apache Rd. and Hondo Rd. was completed in December 2010. Construction of improvements is planned for Fiscal Year 2013 contingent upon identification of an estimated \$147,352 in funding. Project funding includes Environmental Gross Receipts Tax revenue (\$149,990) and Utility Operating Fund transfers (\$54,802).

WWTP#2A, 2B and 3 Rebuild (WW1251)

Significant rebuild activities, including baffle repair, influent line repair, mixer repairs, diffuser repairs, air manifold system modification and ultra-violet system repairs/upgrades are in progress. Due to the age and capacity of WWTP #2, a significant amount of capital repair and replacement is necessary to handle existing flows and also the expected increase in flows to the treatment plant in the future. The project budget consists of Utility Operating funds in the amount of \$785,000.

Sewer Lines

Paseo Gateway Wastewater line (WW1175)

Design of in the 9,000 linear foot sanitary sewer line was completed in January 2012 and the City awaits a summary plat for an expanded public utility easement. The project will serve the development of Well 23, the City Center area, the industrial are of Paseo del Volcan and Loma Colorado Blvd., and the Paseo Gateway basin. Total engineering cost to date is \$77,317, funded by a special one time State Capital Outlay Appropriation. Construction is estimate to be \$1.4 million and funding is to be determined at this time.

Los Montoyas Arroyo Sewer line Phase 3 (WW1183)

The project consists of approximately 10,000' of new 22" sanitary sewer (SAS) pipe to be installed in the sandy bottom of Montoya's Arroyo from Northern Blvd. to the Sports Complex Dam. Substantial wet weather events in the arroyo are problematic due to the location of the existing line as well as the capacity of the existing line to adequately convey storm sewer flows. The existing 15" SAS pipe will be capped and abandoned in place. The new sewer line will also serve anticipated development in the Lomas Negra Specific Area. Design was complete in December 2011 at a cost of \$238,799 and approval of the city's 404 permit application to the Army Corp. of Engineers is anticipated in Summer 2012. Project funding secured to date includes Environmental Gross Receipts Tax revenue (\$925,183), Utility Operating Fund transfers (\$405,425), and Wastewater Impact Fees (\$787,891). An amount of \$1.4 million is lacking for construction activities.

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