

DECADE PLAN

Fiscal Years 2024 - 2033



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Executive Director



Water Utility
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Introduction 4

- Development of the Decade Plan & Asset Management..... 5
- Capital Needs Identification and Planning 5
- Identify Capital Funding..... 6
- CIP Decade Plan..... 7
- Infrastructure Capital Improvement Plan (ICIP) 7
- Annual CIP Budget..... 7
- Implement Projects & Programs 7

How to read the Decade Plan..... 9

FY2024–2033 Decade Plan Summary of Projects 10

FY2024-2033 Decade Plan Project Workbook 11

Basic Rehabilitation Program Projects..... 14

- Category 100 – Sanitary Sewer Pipeline Renewal 15
 - 101 – Interceptor Renewal (Planned)..... 16
 - 102 -Interceptor Renewal (Emergency) 20
 - 103 - Small Diameter Sewer Line Renewal (Planned) 21
 - 104 – Small Diameter Sewer Line Renewal (Emergency)..... 24
 - 105 – Sewer Line CCTV Inspections..... 25
- Category 200 – Drinking Water Pipeline Renewal 26
 - 201 – Small Diameter Waterline Renewal (Planned)..... 27
 - 202 – Small Diameter Waterline Renewal (Emergency)..... 31
 - 203 – Large Diameter Waterline Renewal (Planned)..... 33
 - 204 – Large Diameter Waterline Renewal (Emergency)..... 35
 - 205 – Water Meters Boxes & Service Renewal..... 36
 - 206 – Large Water Valve Renewal..... 37
 - 207 – Pressure Reducing Valve (PRV) Renewal..... 39
- Category 300 – Southside Water Reclamation Plant Renewal..... 42
 - 301 – Preliminary Treatment Facility..... 43
 - 302 – Solids Dewatering Facility 46
 - 304 – Anaerobic Digester Renewal and Capacity Increase..... 49
 - 305 – Primary Clarifier Improvements..... 51
 - 306 - -Aeration Basin Renewal..... 52
 - 307 - -Secondary Sludge Thickening Improvements..... 53
 - 308 – Cogeneration Improvements..... 54
 - 309 – SWRP Renewal Contingency..... 56

311 – Electrical/SCADA/Telemetry/Arc Flash Improvements.....	57
312 – RAS and Sludge Withdrawal Pumps Improvements.....	60
313 – Plant-wide Non-Potable Water Improvements.....	61
316 – Plant Facility, Landscape, & Asset Renewal.....	62
335 – Final Clarifier Improvements.....	65
Category 400 – Soil Amendment Facility (SAF) Renewal.....	66
401 – Soil Amendment Facility Renewal.....	67
Category 500 – Lift Station and Vacuum Station Renewal.....	69
501 – Lift Station Renewal (Planned).....	70
502 – Lift Station 20 Renewal.....	72
503 – Lift Station 24 Renewal.....	74
504 – Vacuum Station Renewal (Planned).....	75
507 – Electrical/SCADA/Telemetry/Arc Flash Improvements.....	78
509 – Lift Station Renewal (Emergency).....	79
510 – Vacuum Station Renewal (Emergency).....	80
Category 600 – Odor Control Facilities Renewal.....	81
601 – Collection System Odor Control Renewal.....	82
Category 700 – Drinking Water Plant: Groundwater System Renewal.....	84
701 – Sodium Hypochlorite Generator System Renewal.....	85
702 – Booster Pump Station Renewal.....	87
703 – Wells Renewal.....	89
719- Reservoirs Renewal.....	93
732 – LV Valve Equipment Replacement.....	97
735 – Electrical/SCADA/Telemetry/Arc Flash Improvements.....	98
740 – Arsenic Treatment Renewal.....	99
801 – Surface Water Treatment Plant Renewal.....	102
802 – SJCWTP Unit Process Improvement.....	105
803 – SJCWTP Basin Improvements.....	107
805 – SJCWTP Diversion Facility Improvements.....	109
807 – SJCWTP Finish Water Reservoir Improvements.....	111
808 – SJCWTP Electrical/Telemetry/Arc Flash Improvements.....	113
811 – College Arsenic Facility Rehab.....	115
818 – SJCWTP Raw Water/Settle Water/Finish Water Pump Station Improvements.....	117
Category 900 – Reuse Line and Plant Renewal.....	119
901 – Reuse Line Rehab.....	120
902 Reuse Plant Rehab.....	121
Category 1000 - Compliance.....	123
1001 – Water Quality Lab Renewal.....	124

1002 – NPDES Program	129
1003 – Water Quality Program	132
Category 1100 – Shared Renewal.....	136
1101 – Shared Renewal.....	137
1107 - -Leak Detection Equipment	138
1109 – SCADA Master Plan Projects	139
Category 1200 – Franchise Agreement Compliance.....	146
1201 – Franchise Agreement Compliance	147
1202 – Franchise Agreement Compliance: MH & Valve Box Adjustments.....	148
Category 1300 – Fleet Vehicle & Equipment Replacement	149
1300 – Fleet Vehicle & Heavy Equipment Replacement.....	150
Water 2120 Projects.....	151
Category 8000 – Water 2120 Projects	152
8000 – Water 2120 Projects	153
Special Projects	157
Category 9400 – Special Projects	158
9401 – Steel Water Lines.....	159
9403 – AMI Meter	161
9404 – Renewable Energy Projects.....	162
9436 – Mission Site Renewal.....	163
Growth Projects	164
Category 2400 – Land and Easement Acquisition	165
2401 – Land and Easement Acquisition.....	166
CATEGORY 2700 – DEVELOPMENT AGREEMENT	167
2701 – Development Agreements & UEC Reimbursements.....	168
Category 2800 – Information Technologies (MIS/GIS)	169
2801 – Information Technologies (MIS/GIS).....	170
APPENDIX A – Grant Funding	179
APPENDIX B – State Infrastructure Capital Improvement Plan (ICIP)	182
APPENDIX C – Abbreviations	183

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

DECADE PLAN 2024 – 2033

Introduction

The Water Authority is responsible for ensuring adequate infrastructure is available to its customers throughout the service area. Through the Capital Improvement Program (CIP), the Water Authority makes sure that the infrastructure it owns operates safely, effectively, and at a level of service that the public expects.

The Decade Plan is a data-driven approach to planning for how the Water Authority's future capital improvements support the priorities that guide capital investments within the current customer rate structure.

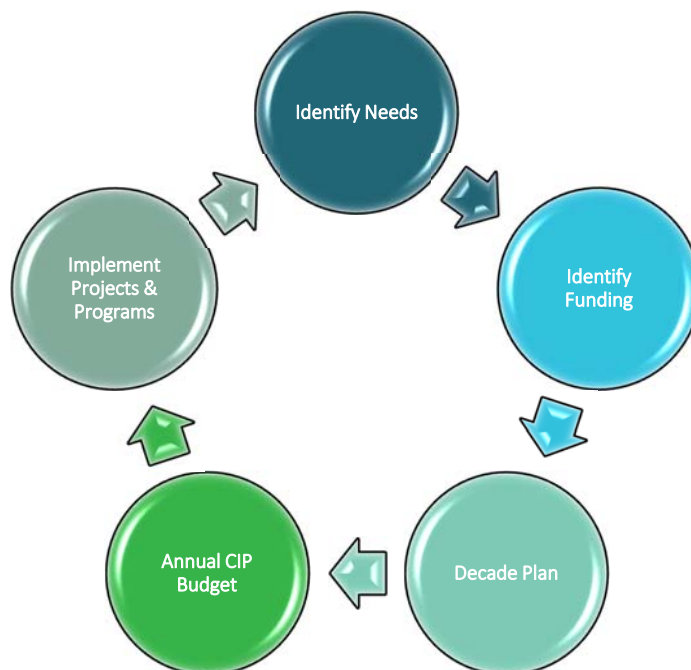
The Decade Plan is used as a tool to identify projects, propose spending, and is developed annually that describes the proposed Capital Improvement Program (CIP) spending for the current year and nine years thereafter. It also provides a direct link from the Water Authority's Finance Plan and includes detailed requirements for program development and project scope, budget, justification, and alternatives. A resolution is presented to the Water Authority board on an annual basis for current year CIP proposed spending.

The Decade Plan outlines projects in the Basic Rehabilitation Program, Special Projects, and Growth funding categories. Additionally, it outlines projects associated with *Water 2120*, the Water Authority's 100-year water resources plan.

Approval by the Water Authority Board is required, with at least one public hearing and due deliberation. The Decade Plan must be approved by the Water Authority's Board in conjunction with the FY24 CIP budget.

Development of the Decade Plan & Asset Management

The Decade Plan is part of a larger Capital Improvement Program planning cycle—a continuous process of planning, funding and implementation that generally includes five phases. The cycle is anchored by points in which a snapshot of the CIP is made available annually to the public and the Water Authority Board. The general cycle is illustrated below:



Capital Needs Identification and Planning

The Planning and Engineering Division leads the effort to identify future needs by considering priorities related to urgent needs, capital renewal, and service demands and asset management principles. Potential capital improvement projects are prioritized and filtered based upon those with the highest risk, including factors such as safety, security, interruption of service, and permit compliance. As the Water Authority’s Asset Management Program develops further and more detailed condition assessments are performed on individual infrastructure assets, project risk rankings and business case analyses will be defined and assigned to the respective asset or project.

Additional identification of capital needs begins with each internal department. Workshops are held with department managers who identify needs, potential projects, and their estimated cost. The information gathered from these workshops is then reviewed, prioritized, and presented to senior and executive management.

Identify Capital Funding

The Basic Rehabilitation Program provides renewal funding for water and wastewater plant and field assets throughout the service area. Under existing financial policy, fifty percent of the Basic Program funding is provided by water and sewer revenues with the balance obtained through revenue bonds, loan financing, and grant funding.

Special Projects are projects that are funded outside of the Basic Program and therefore do not affect the total renewal spending.

Growth related projects are funded through utility expansion charges (UECs), either by reimbursing capital investments made under the terms of a development agreement or by direct appropriations to a CIP project.

Water 2120 Projects continue the Water Authority's strategy for managing water resources towards providing a sustainable water supply for its customers.

The Water Authority regularly reviews and pursues grant opportunities from a variety of sources, primarily State and Federal agencies. The primary advantage of grants is that unlike loans, they do not have to be repaid. A grant provides a valuable funding source to help finance eligible projects for the Water Authority. It is important to remember that grants are very competitive. A considerable amount of time and preparation are required to finalize grant opportunities that fit within the granting agencies parameters, plan a project(s), and then develop a winning proposal. Throughout the year, planning and construction needs are matched with funding opportunities offered by the various granting agencies.

The Water Authority received several million dollars in Federal grant funding through Bernalillo County; Carnuel Water System Expansion \$1 million and To'Hajiilee Water Line Expansion \$1 million. The Water Authority was also recently awarded \$2.0 million for implementation of the Advanced Metering Infrastructure (AMI) Project Phase 7 and \$7.1 million for the Volcano Cliffs Arsenic Treatment Project in which \$6,390,000 is grant funded. Additional detail on these and other grants received by the Water Authority is detailed in the table found in [Appendix A](#).

CIP Decade Plan

The Decade Plan describes the Water Authority's projected major capital improvements over the next ten years based on planned revenues, appropriations, and spending. The Decade Plan includes a set of spreadsheet tables with the decade category and line listed. Each category in the Decade Plan has a corresponding summary sheet that describes the category with the proposed spending over the plan period. Additionally, every category will include project summary sheets which will identify the projects planned to begin in fiscal years 2024 and 2025. In general, the highest priority projects have been targeted for funding first.

Infrastructure Capital Improvement Plan (ICIP)

The State of New Mexico local government infrastructure capital improvement plan (ICIP) is a planning tool which establishes priorities for anticipated infrastructure projects for counties, municipalities, tribal governments, special districts, and senior citizen facilities. The local government ICIP is administered through the Department of Finance and Administration, Local Government Division. The ICIP planning tool encourages entities to develop and update their five-year plan annually which is submitted to the State. It provides an opportunity for communities to assist and assess any critical needs. Although the ICIP is not a funding source, it does include information in each project for state and federal funding opportunities.

Annual CIP Budget

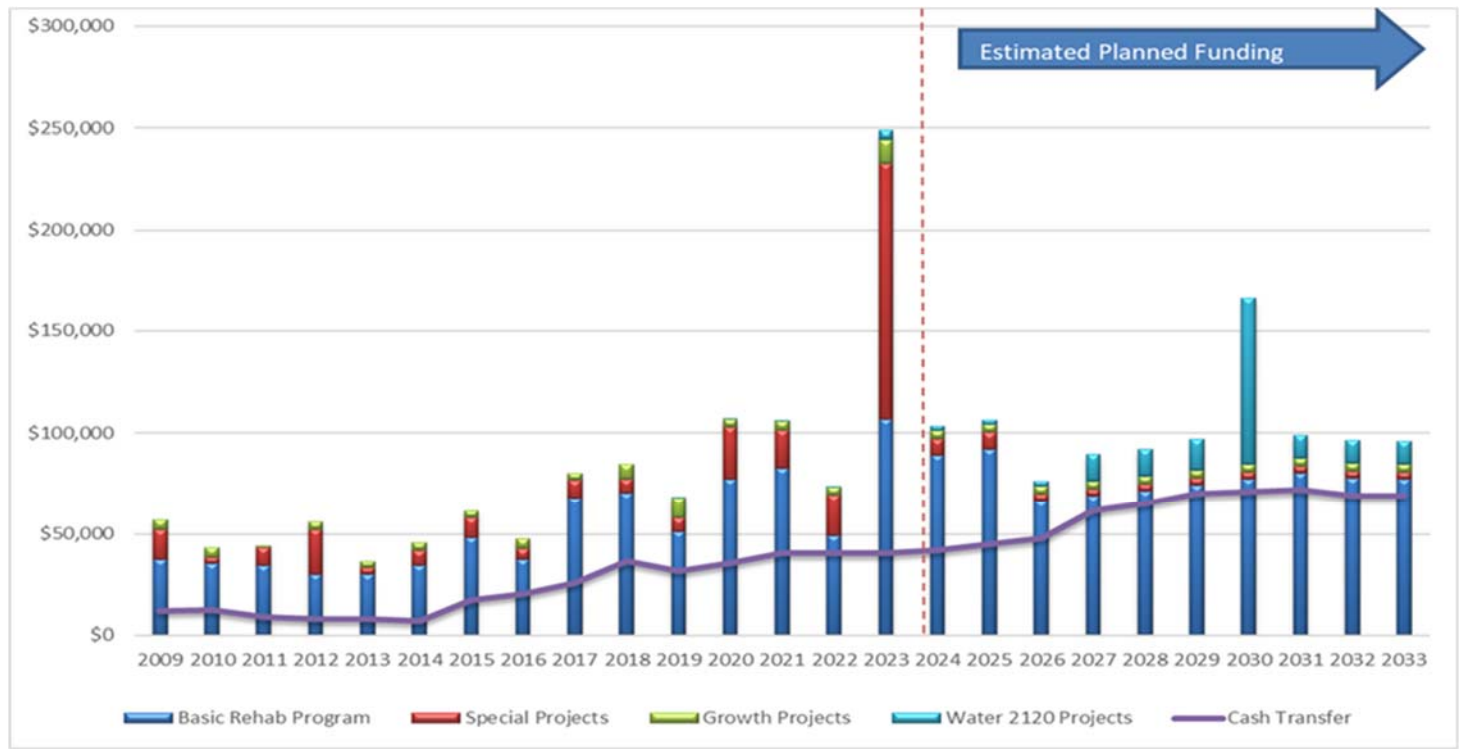
The CIP Budget is introduced in April with approval of the Water Authority Board in May as part of the overall fiscal year budget process. The CIP Budget funds major improvements to Water Authority facilities and infrastructure. The annual CIP Budget also provides the needed funding to continue existing capital projects or begin new projects each year.

Implement Projects & Programs

The Water Authority is continually planning, designing, and constructing capital improvement projects for the benefit of the utility's service area. Some projects may require years of planning and construction, with incremental CIP Budget appropriations to fund the project or program over many years. In other cases, projects may be completed in a shorter timeframe. The Planning and Engineering Division is the Water Authority's project delivery entity and is responsible for capital project development, management, and implementation through construction.

Capital Improvements include the purchase, construction, replacement, addition or major repair of Water Authority facilities, infrastructure, and equipment. The selection and evaluation of capital projects involves analysis of Water Authority requirements, speculation on growth, the ability to make estimates, and the consideration of historical perspectives. A "Capital Project" has a monetary value of at least \$5,000, has a useful life of more than two years, and results in the creation or revitalization

of a fixed asset. A capital project is usually relatively large compared to other “capital outlay” items in the annual operating budget.



How to read the Decade Plan

A summary of projects is provided that will have overall funding for each Decade Plan Category number for the next 10 years.

Decade Plan FY 2024 - 2033: Summary of Projects												
Category		Projected Fiscal Year Revenue by Category (\$1000's)										
No.	Category Descriptions	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Priority Renewal Projects												
800	Drinking Water Plant Treatment	19,125	17,150	6,850	8,175	3,800	3,550	4,300	4,375	5,375	4,825	77,325
900	Reuse Line and Plant	200	400	650	650	150	200	200	200	200	200	3,050
1000	Compliance	533	371	425	230	125	353	336	590	320	708	3,991
1100	Shared Renewal	5,040	5,040	5,040	5,190	5,140	5,190	5,040	290	40	540	36,550
1200	Franchise Agreement Compliance	4,000	3,750	3,750	3,750	3,750	3,750	4,000	4,250	4,250	4,250	39,000
1300	Vehicles and Heavy Equipment	2,500	2,500	2,500	2,000	2,500	3,000	4,000	4,000	3,000	3,000	28,999
Total Priority Renewal Projects		85,468	88,868	68,368	71,368	71,368	73,768	76,768	76,768	76,768	76,768	766,279
Priority Growth Projects												
Projects		1,837	1,837	1,837	11,837	11,837	11,837	79,837	11,837	11,837	11,837	156,370
Water 2120 Projects		1,837	1,837	1,837	11,837	11,837	11,837	79,837	11,837	11,837	11,837	156,370
Special Projects		8,350	8,350	3,250	3,250	3,250	3,350	3,350	3,350	3,350	3,350	43,200
Total Special Projects		8,350	8,350	3,250	3,250	3,250	3,350	3,350	3,350	3,350	3,350	43,200
Other Projects												
2200	Sewer and Wastewater Fac Grwth	2,000	-	-	-	-	-	-	-	-	-	2,000
2300	Wtr Pipe and Wtr Facility Grth	-	-	-	1,990	2,000	210	-	-	-	-	4,200
2400	Land and Easement Acquisition	10	10	10	10	10	10	10	10	10	10	100
2700	Development Agreements	500	500	1,000	1,250	1,250	1,250	1,250	1,250	1,250	1,250	10,750
2800	MIS/GIS	3,490	3,490	2,740	500	490	2,280	2,490	2,490	2,490	2,490	22,950
3100	Master Plans	-	-	-	-	-	-	-	-	-	-	-
3200	Miscellaneous	-	-	250	250	250	250	250	250	250	250	2,000
Total Priority Growth Projects		6,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	42,000

Decade Plan Category Number & Title

Overall capital cost for the specified Decade Plan Category Number

Description of the program under this Decade Plan Category Number

Each decade plan category number will have tables for each of the Capital Improvement Projects associated to that category. The projects outlined are set to begin in FY24 & FY25.

PROJECT INFORMATION					
Project Title:	Future FY Interceptor Rehab Construction (1-3 projects/year)				
ICIP Project No.:	Priority:	3	Department:	Reclamation Collection	
PROJECT DESCRIPTION AND SCOPE					
Construction priority based on CCTV footage, condition/risk ratings, and input from Collections staff.					
OPERATIONAL IMPACT					
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.					
CAPITAL COSTS					
Fiscal Year (\$1,000)	FY24	FY25	FY26	FY27	FY28
	5,000	5,000	3,005	3,000	3,000
	FY29	FY30	FY31	FY32	FY33
	10,000	18,619	20,000	20,000	21,295
					TOTAL
					\$108,919

Associated project information including project title, priority, department and ICIP number, if applicable

Project description and scope and operational impact

Project specific cost for duration of project

FY2024–2033 Decade Plan Summary of Projects

Decade Plan FY 2024 - 2033: Summary of Projects

Category		Projected Fiscal Year Revenue by Category (\$1000's)										Total
No.	Category Descriptions	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Priority Renewal Projects:												
100	Sanitary Sewer Pipelines	33,250	33,650	18,605	18,500	18,350	22,500	30,119	32,350	31,350	32,645	271,319
200	Drinking Water Pipelines	6,020	7,250	7,850	5,850	5,600	7,025	7,125	7,225	7,625	7,625	69,195
300	Southside Water Reclamation Plant	8,750	11,500	11,075	10,525	8,850	10,325	8,325	6,950	7,150	7,200	90,650
400	Soil Amendment Facility (SAF)	150	125	450	50	100	100	100	100	100	100	1,375
500	Lift Station and Vacuum Station	1,600	2,850	4,450	7,335	8,050	2,100	1,350	6,350	6,710	4,600	45,395
600	Odor Control Facilities	450	600	400	50	50	100	100	100	100	100	2,050
700	Drinking Water Plant: Groundwater	7,150	6,582	6,323	6,713	14,903	16,075	12,523	10,738	11,048	11,675	103,730
800	Drinking Water Plant: Treatment	19,125	17,150	4,850	8,175	3,800	3,550	4,300	7,375	5,375	4,625	78,325
900	Reuse Line and Plant	200	400	650	650	150	200	200	200	200	200	3,050
1000	Compliance	533	371	425	230	125	353	336	590	320	708	3,991
1100	Shared Renewal	5,040	5,040	5,040	5,190	5,140	5,190	5,040	290	40	540	36,550
1200	Franchise Agreement Compliance	4,000	3,750	3,750	3,750	3,750	3,750	3,750	4,000	4,250	4,250	39,000
1300	Vehicles and Heavy Equipment	2,500	2,500	2,500	2,000	2,500	3,000	4,000	4,000	3,000	3,000	28,999
Total Priority Renewal Projects		88,768	91,768	66,368	69,018	71,368	74,268	77,268	80,268	77,268	77,268	773,629
Water 2120 Projects:												
8000	All Water 2120 Projects	2,402	2,402	2,402	13,402	13,402	15,402	81,402	11,402	11,402	11,402	165,020
Total Water 2120 Projects		2,402	2,402	2,402	13,402	13,402	15,402	81,402	11,402	11,402	11,402	165,020
Special Projects:												
9400	All Special Projects	8,350	8,350	3,250	3,250	3,250	3,350	3,350	3,350	3,350	3,350	43,200
Total Special Projects		8,350	8,350	3,250	3,250	3,250	3,350	3,350	3,350	3,350	3,350	43,200
Priority Growth Projects:												
2200	Sewer and Wastewater Fac Grwth	-	-	-	-	-	-	-	-	-	-	-
2300	Wtr Pipe and Wtr Facility Grth	-	-	-	1,990	2,000	210	-	-	-	-	4,200
2400	Land and Easement Acquisition	10	10	10	10	10	10	10	10	10	10	100
2700	Development Agreements	500	500	1,000	1,250	1,250	1,250	1,250	1,250	1,250	1,250	10,750
2800	MIS/GIS	3,490	3,490	2,740	500	490	2,280	2,490	2,490	2,490	2,490	22,950
3100	Master Plans	-	-	-	-	-	-	-	-	-	-	-
3200	Miscellaneous	-	-	250	250	250	250	250	250	250	250	2,000
Total Priority Growth Projects		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	40,000

FY2024-2033 Decade Plan Project Workbook

Decade Plan FY 2024 - 2033: Priority Renewal Projects													
Decade Plan Category No.	Facility and Project Descriptions (Linked to detailed projects)	Project Category	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)
BASIC PROGRAM (Level 1 Priority Projects):													
100	Sanitary Sewer Pipeline Renewal												
101	Interceptor Renewal (Planned)	Renewal	14,500	12,750	12,005	12,150	13,500	12,500	20,119	21,500	21,500	22,795	163,319
102	Interceptor Renewal (Emergency)	Deficiency/Renewal	14,000	17,000	2,500	2,500	2,500	2,500	2,500	3,000	3,000	3,000	52,500
103	Small Diameter Sewer Line Renewal (Planned)	Renewal	3,300	2,900	3,250	3,000	1,500	6,500	6,500	6,500	5,500	5,500	44,450
104	Small Diameter Sewer Line Renewal (Emergency)	Deficiency/Renewal	750	500	500	500	500	500	500	850	850	850	6,300
105	Sewer Line CCTV Inspections	Deficiency/Renewal	700	500	350	350	350	500	500	500	500	500	4,750
	Sanitary Sewer Pipeline Renewal Subtotal		33,250	33,650	18,605	18,500	18,350	22,500	30,119	32,350	31,350	32,645	271,319
200	Drinking Water Pipeline Renewal												
201	Small Diameter Water Line Renewal (Planned)	Renewal	2,550	1,800	2,050	2,050	1,800	2,050	2,050	2,050	2,050	2,050	20,500
202	Small Diameter Water Line Renewal (Emergency)	Deficiency/Renewal	600	150	150	150	150	150	250	250	300	300	2,450
203	Large Diameter Water Line Renewal (Planned)	Renewal	150	2,650	4,000	2,000	2,000	2,500	2,500	2,500	2,500	2,500	23,300
204	Large Diameter Water Line Renewal (Emergency)	Deficiency/Renewal	800	400	400	400	400	400	400	500	800	800	5,300
205	Water Meters, Boxes & Services Renewal	Renewal	1,000	1,200	800	800	800	1,000	1,000	1,000	1,000	1,000	9,600
206	Large Water Valve Renewal	Renewal	375	575	275	275	275	500	500	500	500	500	4,275
207	Pressure Reducing Valve (PRV) Renewal	Renewal	545	475	175	175	175	425	425	425	475	475	3,770
	Drinking Water Pipeline Renewal Subtotal		6,020	7,250	7,850	5,850	5,600	7,025	7,125	7,225	7,625	7,625	69,195
300	Southside Water Reclamation Plant Renewal												
301	Preliminary Treatment Facility Renewal	Renewal	1,050	1,050	50	50	50	50	50	50	50	50	2,500
302	Solids Dewatering Facility Renewal	Renewal	100	500	50	50	50	50	50	100	100	100	1,150
303	Aeration Basin Blower Renewal	Renewal	100	50	50	50	50	50	50	100	200	250	950
304	Anaerobic Digester Renewal and Capacity Increase	Renewal	1,900	1,750	250	2,250	2,250	3,250	3,250	3,250	3,250	3,250	24,650
305	Primary Clarifier Renewal	Renewal	100	50	50	50	50	75	75	100	200	200	950
306	Aeration Basin Renewal	Renewal	1,250	1,250	1,500	1,500	1,000	1,000	1,000	1,500	1,500	1,500	13,000
307	Secondary Sludge Thickening Renewal	Renewal	100	100	-	-	50	100	100	100	100	100	750
308	Cogeneration Facility Renewal	Renewal	1,800	1,500	1,200	300	300	400	400	400	400	400	7,100
309	SWRP Renewal Contingency	Deficiency/Renewal	500	800	350	350	350	800	800	800	800	800	6,350
311	Electrical / Telemetry / Arc Flash Improvements	Renewal	800	3,900	4,300	3,200	1,800	2,100	2,100	100	100	100	18,500
312	RAS and Sludge Withdrawal Pump Improvements	Renewal	100	100	-	-	50	100	100	100	100	100	750
313	Plant-Wide Non Potable Water Improvements	Renewal	-	-	-	-	-	-	-	-	-	-	-
316	Plant Facility, Landscaping, & Asset Renewal	Renewal	950	450	3,275	2,725	2,850	2,350	350	350	350	350	14,000
335	Final Clarifier Improvements	Renewal	-	-	-	-	-	-	-	-	-	-	-
	Southside Water Reclamation Plant Renewal Subtotal		8,750	11,500	11,075	10,525	8,850	10,325	8,325	6,950	7,150	7,200	90,650
400	Soil Amendment Facility (SAF) Renewal												
401	Soil Amendment Facility Renewal	Renewal	150	125	450	50	100	100	100	100	100	100	1,375
	SAF Renewal Subtotal		150	125	450	50	100	100	100	100	100	100	1,375
500	Lift Station and Vacuum Station Renewal												
501	Lift Station Renewal (Planned)	Renewal	550	300	300	225	300	750	500	500	500	750	4,675
509	Lift Station Renewal (Emergency)	Deficiency/Renewal	50	50	50	50	50	50	50	50	50	50	500
502	Lift Station 20 Renewal	Renewal	150	650	1,650	3,550	3,550	150	150	5,150	5,150	3,150	23,300
503	Lift Station 24 Renewal	Renewal	150	150	650	650	650	650	150	150	150	150	3,500
507	Electrical / Telemetry / Arc Flash Improvements	Renewal	50	50	50	410	50	50	50	410	50	50	1,220
504	Vacuum Station Renewal (Planned)	Renewal	600	1,600	1,700	2,400	3,400	400	400	400	400	400	11,700
510	Vacuum Station Renewal (Emergency)	Deficiency/Renewal	50	50	50	50	50	50	50	50	50	50	500
	Lift Station and Vacuum Station Renewal Subtotal		1,600	2,850	4,450	7,335	8,050	2,100	1,350	6,350	6,710	4,600	45,395
600	Odor Control Facilities Renewal												
601	Collection System Odor Control Renewal	Deficiency/Renewal	450	600	400	50	50	100	100	100	100	100	2,050
	Odor Control Facilities Renewal Subtotal		450	600	400	50	50	100	100	100	100	100	2,050

Decade Plan FY 2024 - 2033: Priority Renewal Projects													
Decade Plan Category No.	Facility and Project Descriptions (Linked to detailed projects)	Project Category	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)
700	Drinking Water Plant: Groundwater System Renewal												
701	Sodium Hypochlorite Generator System Renewal	Renewal	325	175	225	225	228	875	875	975	975	975	5,853
702	Booster Pumping Stations Renewal	Renewal	2,000	2,000	1,500	1,500	1,500	2,500	2,500	2,500	2,500	2,500	21,000
703	Wells Renewal	Renewal	1,875	1,025	1,498	975	1,575	2,775	2,775	3,125	3,125	3,125	21,873
719	Reservoirs Renewal	Renewal	2,350	2,282	2,000	1,663	2,000	2,325	6,273	4,038	4,348	4,975	32,254
732	LV Valve Equipment / Replacement	Deficiency/Renewal	100	100	100	100	100	100	100	100	100	100	1,000
735	Electrical / Telemetry / Arc Flash Improvements	Renewal	-	-	-	250	-	-	-	-	-	-	250
740	Arsenic Treatment Renewal	Renewal	500	1,000	1,000	2,000	9,500	7,500	-	-	-	-	21,500
	Drinking Water Plant: Groundwater System Renewal Subtotal		7,150	6,582	6,323	6,713	14,903	16,075	12,523	10,738	11,048	11,675	103,730
800	Drinking Water Plant: Treatment Systems Renewal												
801	Surface Water Treatment Plant Renewal	Renewal	1,025	1,225	775	525	775	1,225	1,275	1,275	1,275	1,525	10,900
802	Chemical Solids Systems Renewal	Renewal	500	300	1,450	5,600	1,150	1,150	1,150	2,000	2,000	2,000	17,300
803	Grit Removal Basin Renewal	Renewal	14,100	14,400	1,100	100	1,100	400	1,100	3,100	1,100	100	36,600
804	Ozone Renewal	Renewal	-	-	250	-	250	-	-	-	-	-	500
805	Diversion Bar Screen Renewal	Renewal	2,600	100	400	1,300	100	100	100	100	100	100	5,000
807	Settling Basin Edge Protection Renewal	Renewal	250	150	50	-	50	50	50	50	50	50	750
808	Electrical / Telemetry / Arc Flash Improvements	Renewal	150	150	150	100	50	50	50	200	200	200	1,300
811	Arsenic Treatment Renewal	Renewal	150	550	400	400	50	300	300	300	300	300	3,050
818	Raw Water Pumping Station Renewal	Renewal	350	275	275	150	275	275	350	350	350	350	2,925
	Drinking Water Plant: Treatment Systems Renewal Subtotal		19,125	17,150	4,850	8,175	3,800	3,550	4,300	7,375	5,375	4,625	78,325
900	Reuse Line and Plant Renewal												
901	Reuse Linear Renewal	Renewal	100	100	50	50	50	100	100	100	100	100	850
902	Reuse Vertical Renewal	Renewal	100	300	600	600	100	100	100	100	100	100	2,200
	Reuse Line and Plant Renewal Subtotal		200	400	650	650	150	200	200	200	200	200	3,050
1000	Compliance												
1001	Water Quality Laboratory	Renewal	278	149	186	170	90	303	298	345	281	359	2,459
1002	NPDES Program	Renewal	120	110	202	10	10	10	10	222	10	310	1,014
1003	Water Quality Program	Renewal	135	112	37	50	25	40	28	23	29	39	518
	Compliance Subtotal		533	371	425	230	125	353	336	590	320	708	3,991
1100	Shared Renewal												
1101	Ferrous/Ferric Transfer Station 70 Renewal	Deficiency/Renewal	25	25	25	25	125	25	25	25	25	25	350
1104	Utility Wide Asset Management Plan Update	Renewal	-	-	-	150	-	150	-	250	-	500	1,050
1107	Leak Detection Equipment	Renewal	15	15	15	15	15	15	15	15	15	15	150
1109	Scada Equipment Renewal	Renewal	5,000	5,000	5,000	5,000	5,000	5,000	5,000	-	-	-	35,000
	Shared Line & Plant Renewal Subtotal		5,040	5,040	5,040	5,190	5,140	5,190	5,040	290	40	540	36,550
1200	Franchise Agreement Compliance												
1201	Franchise Compliance Water & Sewer Renewal	Renewal	3,250	3,000	3,000	3,000	3,000	3,000	3,000	3,250	3,500	3,500	31,500
1202	DMD Street Rehab Manhole and Valve Box Adjustments	Renewal	750	750	750	750	750	750	750	750	750	750	7,500
	Franchise Agreement Compliance Subtotal		4,000	3,750	3,750	3,750	3,750	3,750	3,750	4,000	4,250	4,250	39,000
1300	Vehicles and Heavy Equipment												
1300	Fleet - Vehicle & Equipment Replacement	Renewal	2,500	2,500	2,500	2,000	2,500	3,000	4,000	4,000	3,000	3,000	28,999
	Vehicles and Heavy Equipment Subtotal		2,500	2,500	2,500	2,000	2,500	3,000	4,000	4,000	3,000	3,000	28,999
	Total Priority Renewal Projects		88,768	91,768	66,368	69,368	71,368	74,268	77,268	80,268	77,268	77,268	773,979

Decade Plan FY 2024 - 2033: Priority Renewal Projects													
Decade Plan Category No.	Facility and Project Descriptions (Linked to detailed projects)	Project Category	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)
Decade Plan FY 2022 - 2031: Water 2120 Projects													
Decade Plan Category No.	Facility and Project Descriptions (Linked to detailed projects)	Project Category	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)
8000	Water 2120 Projects:												
8000	Water 2120 Projects	Growth	2,402	2,402	2,402	13,402	13,402	15,402	81,402	11,402	11,402	11,402	142,216
	Water 2120 Projects Total		2,402	2,402	2,402	13,402	13,402	15,402	81,402	11,402	11,402	11,402	142,216
Decade Plan FY 2022 - 2031: Special Projects and Priority Growth Projects													
Reference No.	Facility and Project Descriptions	Project Category	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)	(x \$1000)
SPECIAL PROJECTS													
9400	Special Projects												
9401	Steel Waterline Renewal	Deficiency/Renewal	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000
9403	Automated Meter Infrastructure (AMI)	Deficiency/Renewal	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
9404	Renewable Energy Renewal	Deficiency/Renewal	350	350	250	250	250	350	350	350	350	350	3,200
94XX	Mission Site Renewal	Renewal	5,000	5,000	-	-	-	-	-	-	-	-	10,000
	Special Projects Subtotal		8,350	8,350	3,250	3,250	3,250	3,350	3,350	3,350	3,350	3,350	43,200
PRIORITY GROWTH PROJECTS													
2200	Wastewater Facilities Growth												
2204	Sewer Pipe and Wastewater Facilities	Growth	-	-	-	-	-	-	-	-	-	-	-
2300	Water Lines Growth												
2303	Water Pipe and Water Facilities	Growth	-	-	-	1,990	2,000	210	-	-	-	-	4,200
2400	Land and Easement Acquisition												
2401	Land and Easement Acquisition	Growth	10	10	10	10	10	10	10	10	10	10	100
2700	Development Agreements												
2701	Development Agreements (Reimbursements)	Growth	500	500	1,000	1,250	1,250	1,250	1,250	1,250	1,250	1,250	10,750
2800	MIS/GIS												
2801	Information Technologies (MIS / GIS)	Deficiency/Renewal	3,490	3,490	2,740	500	490	2,280	2,490	2,490	2,490	2,490	22,950
3100	Master Plans												
3101	Integrated Master Plan	Growth	-	-	-	-	-	-	-	-	-	-	-
3200	Miscellaneous												
3203	Low Income W/S Connections (MOU w/BernCo)	Growth	-	-	250	250	250	250	250	250	250	250	2,000
	Total Priority Growth Projects		4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	40,000



Basic Rehabilitation Program Projects

CATEGORY 100



Sanitary Sewer Pipeline Renewal



101 – Interceptor Renewal (Planned)

The Interceptor Renewal (Planned) program provides funding for evaluation, planning, design, construction, and related activity necessary for sanitary interceptor rehabilitation or complete removal and replacement of severely deteriorated sewer interceptor lines that are beyond feasible rehabilitation.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Westside Interceptor Rehab - I-40 to Western Trail - Design/Construction				
ICIP Project No.:		Priority:	1	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Rehab of 12,666 LF of 48" RCP SAS

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	8,000	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$8,000

PROJECT INFORMATION					
Project Title:	Griego's Interceptor from 24" Rio Grande to 12th St (4000 linear ft - appx 1 mi)				
ICIP Project No.:		Priority:	2	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Rehab design required based on CCTV footage showing hanging gaskets, crown corrosion, and/or soil visible.

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	1,500	1,500	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$3,000

PROJECT INFORMATION					
Project Title:	Future FY Interceptor Rehab Construction (1-3 projects/year)				
ICIP Project No.:		Priority:	3	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Construction priority based on CCTV footage, condition/risk ratings, and input from Collections staff.

OPERATIONAL IMPACT

Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$106,569
	5,000	5,000	3,005	650	3,000	
	FY29	FY30	FY31	FY32	FY33	
	10,000	18,619	20,000	20,000	21,295	

PROJECT INFORMATION					
Project Title:	FY22-1 Interceptor Rehab Package I - 12th St. from Bellrose to Menaul				
ICIP Project No.:		Priority:	4	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Rehab design required based on CCTV footage showing hanging gaskets, crown corrosion, and/or soil visible.

OPERATIONAL IMPACT

Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$7,000
	-	3,000	4,000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Future FY Interceptor MH Rehab Design (1-3 packages/year)				
ICIP Project No.:		Priority:	5	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Rehab design based on FY22 condition assessment, additional ProPipe MH CCTV/MACP scores, and input from Collections staff.

OPERATIONAL IMPACT

Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	500	-	-	500	
	FY29	FY30	FY31	FY32	FY33	
500	1,500	1,500	1,500	1,500		
					\$7,500	

PROJECT INFORMATION					
Project Title:	Grit Chamber at 12th St./I-40				
ICIP Project No.:		Priority:	6	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Installation of Grit Chambers to trap sediment before it reaches the Valley Interceptor segments south of I-40.

OPERATIONAL IMPACT

Installation will reduce downstream maintenance/odor complaint responses by O&M staff.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	750	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
-	-	-	-	-		
					\$750	

PROJECT INFORMATION					
Project Title:	Westside Interceptor Rehab - Old Coors to Arenal Redesign (Smith)				
ICIP Project No.:		Priority:	7	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Rehab of 2800 LF of high-risk 48" RCP SAS

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	2,000	2,000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$4,000

102 -Interceptor Renewal (Emergency)

The Interceptor Renewal (Emergency) program provides funding for emergency evaluation, planning, design, construction, and related activity necessary for sanitary interceptor rehabilitation or complete removal and replacement of severely deteriorated sewer interceptor lines that are beyond feasible rehabilitation.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Unplanned Interceptor & MH Repair/Rehab. Contingency funds for unplanned emergency rehab are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate public impact and maintain level of service to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	2,500	2,500	2,500	2,500	2,500	
	FY29	FY30	FY31	FY32	FY33	
	2,500	2,500	3,000	3,000	3,000	\$26,500

103 - Small Diameter Sewer Line Renewal (Planned)

The Small Diameter Sewer Line Renewal (Planned) program provides funding for planning, design, construction, and related activity necessary for rehabilitation and replacement of deteriorating small diameter sewer collection lines.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Menaul/Carlisle SD SAS Rehab - Design/Construction (Smith Engineering)				
ICIP Project No.:		Priority:	1	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Rehab of 1 mile of 8" concrete SAS lines with corrosion, voids, and/or soil visible.

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,500
	1,500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Elizabeth/Menaul SAS Reroute for Odor Improvements - Design Construction (In-House Design Team)				
ICIP Project No.:		Priority:	2	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Install of new SAS, rehab of existing at Elizabeth/Menaul to alleviate odors

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,500
	1,500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Future FY Small Diameter SAS Rehab - Design (1-2 packages per year)				
ICIP Project No.:		Priority:	3	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE
Rehab design based on CCTV footage, condition/risk ratings, and input from Collections staff.

OPERATIONAL IMPACT
Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$3,200
	300	400	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	500	500	500	500	500	

PROJECT INFORMATION					
Project Title:	Zuni/Jefferson SD SAS Rehab - Design/Construction (In-House Design Team)				
ICIP Project No.:		Priority:	4	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Rehab of 1 mile of 8"/12" concrete SAS lines with corrosion, voids, and/or soil visible.

OPERATIONAL IMPACT

Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,500
	-	1,500	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Summer Ave. SAS Renewal				
ICIP Project No.:		Priority:	5	Department:	Reclamation Collection

PROJECT DESCRIPTION AND SCOPE

Rehab of approx. 5,000 LF of SD SAS along Summer Ave, other locations.

OPERATIONAL IMPACT

Emergency repair/rehab is 2x to 3x more expensive than planned rehab. Proactive rehab will save CIP dollars, reduce maintenance requirements by Collections staff (reduced sediment, fewer odor complaints), and reduce SSO frequency.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,000
	-	1,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

104 – Small Diameter Sewer Line Renewal (Emergency)

The Small Diameter Sewer Line Renewal (Emergency) program provides funding for unplanned and/or emergency renewal of small diameter sewer lines. Oftentimes, sewers collapse before a planned renewal project can be implemented.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Collections

PROJECT DESCRIPTION AND SCOPE
Unplanned SD SAS & MH Repair/Rehab. Contingency funds for unplanned emergency rehab are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate public impact and maintain level of service to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$6,300
	750	500	500	500	500	
	FY29	FY30	FY31	FY32	FY33	
	500	500	850	850	850	

105 – Sewer Line CCTV Inspections

Sanitary sewers routinely become blocked with tree roots and other materials. Also, corrosion of concrete and breakage of other types of pipes occur, that result in backups. Closed caption television (CCTV) is used to assess the condition of these lines. Some of this work is done by Water Authority staff using purchased equipment. The remainder is performed by contractors.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION				
Project Title:	Annual Sewer Line CCTV Inspections			
ICIP Project No.:		Priority:	1	Department:
				Reclamation Collections

PROJECT DESCRIPTION AND SCOPE
CMOM requirement to CCTV 5% of small diameter SAS system annually, with Interceptor system CCTV'd every 5 years (2018, 2023, 2028, etc.).

OPERATIONAL IMPACT
CCTV scores are used to update SAS risk model and Maximo Risk scores, providing more accurate assessment of high-risk pipes for replacement. Replacement of the worst SAS pipes reduces maintenance requirements and SSOs, and decreases CIP rehab costs (fewer emergencies, more planned rehab).

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$4,750
	700	500	350	350	350	
	FY29	FY30	FY31	FY32	FY33	
	500	500	500	500	500	

CATEGORY 200



Drinking Water Pipeline Renewal

201 – Small Diameter Waterline Renewal (Planned)

The Small Diameter Waterline Renewal (Planned) program provides funding for evaluation, planning, design, construction, and related activity necessary for the rehabilitation of water lines that have deteriorated and are past their useful life.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	FY23 Steel WL Package 1 - Abq. Country Club (Smith)				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Replacement of 8,400 LF of 4", 6", and 10" Steel WL in Abq CC area

OPERATIONAL IMPACT
Replacement of high-risk pipe directly reduces repair requirements for Distribution. Overall ABCWUA budget benefit for planned rehab vs. emergency (significantly lower cost).

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,000
	1,000	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	In-House Small Diameter High-Risk WL Replacement - 10 projects/year at \$25K/project.				
ICIP Project No.:		Priority:	2	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Replacement of high-risk pipe using Water Authority crews. Costs for materials and pavement replacement only.

OPERATIONAL IMPACT
Replacement of high-risk pipe directly reduces repair requirements for Distribution. Overall ABCWUA budget benefit for planned rehab vs. emergency (significantly lower cost).

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,500
	250	250	250	250	250	
	FY29	FY30	FY31	FY32	FY33	
	250	250	250	250	250	

PROJECT INFORMATION					
Project Title:	The Lead and Copper Rule is a Federal and State imposed mandate.				
ICIP Project No.:		Priority:	3	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

In 2022 the Water Authority began building a database and developing software for collection of water service line material types using historic records. Desktop data entry and field data collection will begin in CY23. The inventory must be completed and submitted to the New Mexico Environment Department by October 16, 2024. Beginning in CY2025 a public outreach campaign, increased water quality sampling and lead service line replacements will begin according to the Water Authority's approved replacement program. The funding will provide support for targeted potholing for inventory determinations, public outreach, water quality sampling, pitcher filter/point-of-use devices, a customer-side replacement plan and other items required by the rule. This project will provide funding to meet the lead service line replacement schedule in the event that in-house Operations staff cannot meet the required timeframes and/or augment in-house staff resources. A new Decade Line Item is needed for annual expenditures. Initially plan for \$1M annually and adjust based on needs and EPA/NMED requirements.

OPERATIONAL IMPACT

EPA revised the Lead and Copper Rule in 2021. The revised rule requires an inventory of all water services line (Water Authority and customer owned). Subsequent to the inventory the revised rule requires mandatory replacement of lead services within prescribed timeframes based on an annual replacement goal, approved by the New Mexico Environment Department. The Lead and Copper Rule is a Federal and State imposed mandate.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	250	500	250	250	250	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,500

PROJECT INFORMATION						
Project Title:	Replace and/or install new water quality sample hydrants.					
ICIP Project No.:		Priority:	4	Department:	Distribution	
PROJECT DESCRIPTION AND SCOPE						
Installations will be completed by Field-Distribution at Compliance-Water Quality request.						
OPERATIONAL IMPACT						
Water Quality sampling is a Federal and State requirement based on the Water Authority's approved sampling plan. Providing safe and clean water supports the Water Authority Vision and Mission Statements.						
CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	\$500

PROJECT INFORMATION						
Project Title:	FY23 Steel WL Package 2 - Ridgcrest + Other Streets (Smith)					
ICIP Project No.:		Priority:	5	Department:	Distribution	
PROJECT DESCRIPTION AND SCOPE						
Replacement of 6,676 LF of 4", 6", 8", and 10" Steel WL in Ridgcrest neighborhood, plus other Streets						
OPERATIONAL IMPACT						
Replacement of high-risk pipe directly reduces repair requirements for Distribution. Overall ABCWUA budget benefit for planned rehab vs. emergency (significantly lower cost).						
CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	1,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,000

202 – Small Diameter Waterline Renewal (Emergency)

The Small Diameter Waterline Renewal (Emergency) program provides funding for evaluation, planning, design, construction, and related activity necessary for the rehabilitation or replacement of water lines that have deteriorated and are past their useful life.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Unplanned Small Diameter WL Repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate public impact and maintain level of service to ratepayers

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,950
	100	150	150	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	250	250	300	300	

PROJECT INFORMATION					
Project Title:	Storage Buildings (GW/Distribution) at Mission Facility				
ICIP Project No.:		Priority:	2	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Require storage areas for equipment, parts, piping for crew repairs and WL rehab/replacement.

OPERATIONAL IMPACT
Will facilitate storage and stock of critical large diameter parts for GW and Distribution, resulting in fast response to LD pipe repairs and the opportunity to repair these LD pipes/fittings in-house, resulting in lower overall repair costs to the Water Authority. No impact to ongoing O&M labor/costs.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$500

203 – Large Diameter Waterline Renewal (Planned)

The Large Diameter Waterline Renewal (Planned) program provides funding for the rehabilitation or replacement of large diameter (14-inch and larger) water transmission pipelines that begin to leak or show signs of failure.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	8E Transmission Line Design (Carollo)				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Need for cross-trunk transfer of potable water from Sandia Manor/Supper Rock reservoirs to Escondido Reservoir as second source of supply.

OPERATIONAL IMPACT
With 8E Transmission line installed and operational, repair/rehab of transmission lines in Four Hills area can occur without risk of water outages.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	150	150	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$300

PROJECT INFORMATION					
Project Title:	8E Transmission Line Construction (Carollo)				
ICIP Project No.:		Priority:	2	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Need for cross-trunk transfer of potable water from Sandia Manor/Supper Rock reservoirs to Escondido Reservoir as second source of supply.

OPERATIONAL IMPACT
With 8E Transmission line installed and operational, repair/rehab of transmission lines in Four Hills area can occur without risk of water outages.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	2,000	4,000	2,000	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$8,000

PROJECT INFORMATION					
Project Title:	Old Santa Barbara Pump Station Cut/Cap Isolation				
ICIP Project No.:		Priority:	3	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

Need to isolate Old Santa Barbara Pump Station in order to decommission Old Santa Barbara Pump Station and eliminate potential T-line leak locations.

OPERATIONAL IMPACT

Will simplify T-Line isolation/operation of Freeway Trunk T-line between Duranes and Santa Barbara Reservoirs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	-	500	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

204 – Large Diameter Waterline Renewal (Emergency)

The Large Diameter Waterline Renewal (Emergency) program provides funding for the rehabilitation or replacement of large diameter (14-inch and larger) water transmission pipelines that begin to leak or show signs of failure.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Unplanned Large Diameter Transmission Line Repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate negative public impact and maintain level of service to ratepayers

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$5,300
	800	400	400	400	400	
	FY29	FY30	FY31	FY32	FY33	
	400	400	500	800	800	

205 – Water Meters Boxes & Service Renewal

The Water Authority meters potable water usage for residences and businesses for calculating monthly bills. This funding will be used to replenish warehouse stock to include meters, meter boxes, and service line fittings between the street main and the meter that fail and require replacement.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Annual Water Meters/Boxes/Services Rehab				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
The Water Authority meters potable water usage for residences and businesses for calculating monthly bills. The Water Authority is replacing manually read meters with smart meters that use automated meter reading. Also, meters, meter boxes, and service lines between the street main and the meter that fail require replacement.

OPERATIONAL IMPACT
The AMI system will largely eliminate the need for Meter Readers. There will still be a need for technicians to address maintenance issues with the new automated meters; however, there should be a net reduction in O&M costs with AMI.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	1,000	1,200	800	800	800	
FY29	FY30	FY31	FY32	FY33		
	1,000	1,000	1,000	1,000	1,000	\$9,600

206 – Large Water Valve Renewal

Continuous replacement of large diameter valves (16" and larger) that have become inoperable or unreliable. Renewal of these assets are required to allow isolation of sections of water distribution system during emergencies such as pipe breaks and routine maintenance.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION				
Project Title:	LD Valve Replacement Projects - as identified by Ops			
ICIP Project No.:		Priority:	1	Department:
				Distribution

PROJECT DESCRIPTION AND SCOPE
Large Diameter Valves are critical for controlling transmission and distribution flows. Thus, repair/replacement of damaged valves is critical.

OPERATIONAL IMPACT
Broken valves cannot be operated/maintained. Replacing these valves will add O&M costs for periodic valve exercising, but costs are justified due to critical importance of isolating large system segments.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	300	500	200	200	200	
FY29	FY30	FY31	FY32	FY33		
	425	500	500	500	500	\$3,825

PROJECT INFORMATION					
Project Title:	Future FY SJC Valve Actuator Replacement (5 Actuators/yr.) - as identified by Ops				
ICIP Project No.:		Priority:	2	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

SJC pipeline system contains numerous large diameter valves that are operated constantly. Improper torque ratings have contributed to premature actuator failure, and annual replacement for the next 5 years will ensure functionality of critical SJC transmission line valves.

OPERATIONAL IMPACT

The SJC transmission line system is critical to meeting Eastside/Westside water supply requirements. Replacing actuators will maintain existing valve exercising activities and decrease overall system maintenance costs (well operating costs, etc.) by ensuring that SJCWTP water can be delivered to all the terminal reservoirs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$450
	75	75	75	75	75	
	FY29	FY30	FY31	FY32	FY33	
	75	-	-	-	-	

207 – Pressure Reducing Valve (PRV) Renewal

Periodic replacement of pressure reducing valves (PRV) and reconstruction of vaults (for safety and traffic control reasons) is required as the older installations deteriorate.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Camino de La Sierra/Indian School PRV Vault Improvements - Construction				
ICIP Project No.:		Priority:	1	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Relocation/reconstruction of the vault to allow access and provide safe workspace for Operators to perform preventative maintenance activities.

OPERATIONAL IMPACT
Proper PRV access, maintenance and operation will ensure correct operating pressures, minimal system pressure changes, and decreased water leakage/broken pipes, decreasing overall O&M costs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	250	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$250

PROJECT INFORMATION					
Project Title:	PRV Valve Replacements (Valves/Fittings) - as identified by Ops				
ICIP Project No.:		Priority:	2	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
PRV maintenance is critical for controlling distribution flows/pressures and reducing leaks/breaks/claims. Thus, repair/replacement of damaged PRVs are critical.

OPERATIONAL IMPACT
Non-functioning PRVs cannot be operated/maintained. Replacing these valves will decrease overall O&M costs. Consistent pressures will be produced for ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	\$500

PROJECT INFORMATION					
Project Title:	SJC Vault Rehab				
ICIP Project No.:		Priority:	3	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

There are approximately 190 vaults throughout the service area that contain San Juan Chama infrastructure. The piping and appurtenances within the vaults are showing signs of deteriorations. Corrosion to fasteners and failure of the protective epoxy coating system is evident.

OPERATIONAL IMPACT

Failure of the San Juan Chama infrastructure would trigger a costly reactive emergency response that would impact potable water supply strategy to wide areas of the distribution system. Traffic impacts and water resource implications will result from failure. The water system and our customers will benefit from this project by extending the useful life of this highly critical infrastructure.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	245	250	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	200	200	200	250	250	\$1,745

PROJECT INFORMATION					
Project Title:	Future FY PRV Vault Improvements Design(s)				
ICIP Project No.:		Priority:	4	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

Will perform 1-2 design projects per year based on risk scores in Maximo and input from Distribution regarding highest priority PRV vaults for repair/rehab.

OPERATIONAL IMPACT

Proper PRV access, maintenance and operation will ensure correct operating pressures, minimal system pressure changes, and decreased water leakage/broken pipes, decreasing overall O&M costs.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	75	25	25	25	
	FY29	FY30	FY31	FY32	FY33	
	75	75	75	75	75	\$525

PROJECT INFORMATION					
Project Title:	Future FY PRV Vault Improvements - Construction				
ICIP Project No.:		Priority:	5	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE
Will perform 1-2 construction projects based on designs from previous FY.

OPERATIONAL IMPACT
Proper PRV access, maintenance and operation will ensure correct operating pressures, minimal system pressure changes, and decreased water leakage/broken pipes, decreasing overall O&M costs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	100	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$750

CATEGORY 300



Southside Water Reclamation Plant
Renewal



301 – Preliminary Treatment Facility

This project will make improvements to the Preliminary Treatment Facility to improve its safety, performance, and reliability. This facility is designed for removing rags and other larger debris ahead of Lift Station 11A, which lifts sewage into the Southside Water Reclamation Plant (SWRP).

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Vortex Grit Chambers				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
The Vortex Grit Chambers were installed in 2015/2016 and are now approaching 7 years of operation. Inspection efforts in FY22 will be performed and may result in potential repairs.

OPERATIONAL IMPACT
Vortex Grit Chambers are critical for continued grit removal to protect SWRP pumps/equipment/piping. This inspection and possible repair work will not affect the overall O&M labor/cost associated with the PTF and the Vortex Grit Chambers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$50
	50	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Conveyors				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
 SWRP needs an effective 2nd Stage Grit conveyor system for grit coming off the grit washer/classifiers - current small bin dumpster system is maintenance intensive for staff and causes odors and WM schedule problems.

OPERATIONAL IMPACT
 Operational impact will be that Operations will be able to focus attention/resources on other priorities and will also reduce odors. No cost increase/decrease to O&M.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	1,000	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	50	-	50	\$1,100

PROJECT INFORMATION					
Project Title:	PTF Biofilter - Biotower Installation				
ICIP Project No.:		Priority:	3	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
 The SWRP Odor Control Master Plan identified the PTF biofilters as priority locations for additional hydrogen sulfide removal via installation of biotower systems. This pilot study will determine viability of this approach.

OPERATIONAL IMPACT
 Addition of biotower system will improve odor control at SWRP but will require additional costs and manhours for O&M on an annual basis.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	1,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,000

PROJECT INFORMATION					
Project Title:	Bar Screens				
ICIP Project No.:		Priority:	4	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Due to age and application equipment must be rehabbed or replaced on a recurring basis.

OPERATIONAL IMPACT

Provide continued efficient screening of all wastewater entering SWRP to protect downstream processes and equipment and maintain biosolids quality sold to customers.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	50	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$50

302 – Solids Dewatering Facility

The Solids Dewatering Facility is where water is separated from solids through different pumping or filtering systems. Rehabilitation is necessary for safety improvements and other minor improvements.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Safety/HVAC/Equipment Improvements/Replacement				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment and Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that SDF facility operates effectively for solids dewatering. Continuous repairs will decrease O&M labor at the SDF facility.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	100	-	50	50	50	
FY29	FY30	FY31	FY32	FY33		
	50	50	100	100	100	\$650

PROJECT INFORMATION

Project Title:	Monorail Crane				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

When maintenance is performed on the dewatering cake pumps, discharge piping including a 500lb+ long sweep elbow must be lifted and removed. The facility as designed did not provide an overhead crane or monorail to perform this specific task. Currently maintenance staff roll in an A-frame to lift and remove the discharge piping. Due to the very limited floor space around the discharge piping and pumps it is difficult to safely remove the discharge piping using the A-frame.

OPERATIONAL IMPACT

Installation of a manual overhead monorail will replace the need to use an A-frame to lift and remove discharge piping. This will improve employee safety while performing this task and minimize the amount of time required to disassemble discharge piping resulting in a quicker return to server for a cake pumping requiring maintenance.

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28
(x \$1,000)	-	500	-	-	-
	FY29	FY30	FY31	FY32	FY33
	-	-	-	-	-

TOTAL
\$500

303 - -Aeration Basin Blower Improvements

The Aeration Basin Blowers run routinely and suffer wear and tear that require renewal. These blowers have been in service for several decades and are of an outdated design of the centrifugal blowers.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Aeration Blower Improvements - Blowers and Building				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment and Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that blowers operate effectively for aeration. Continuous repairs will decrease long term O&M labor at the blower buildings.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$950
	100	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	100	200	250	

304 – Anaerobic Digester Renewal and Capacity Increase

The digesters remove volatile solids in the sludge produced by the SWRP's liquid treatment operations prior to sludge dewatering and land disposal. This digestion process converts volatile solids into a methane gas by-product that is burned by the SWRP's co-generation system to produce electric power for plant operations and produce hot water for digester heating and space heating of SWRP buildings.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	SWRP Digester 6 Rehab - Design (AECOM)				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Cover replacement, coatings, and mixer improvements required for Digester 6.

OPERATIONAL IMPACT
Existing wooden cover is rotting - replacement will improve digester performance, minimize O&M, and ensure proper Odor Control.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	150	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$150

PROJECT INFORMATION					
Project Title:	SWRP Digester 6 Rehab - Construction				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Cover replacement, coatings, and mixer improvements required for Digester 6.

OPERATIONAL IMPACT
Existing wooden cover is rotting - replacement will improve digester performance, minimize O&M, and ensure proper Odor Control.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	1,500	1,500	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$3,000

PROJECT INFORMATION					
Project Title:	Digesters 11, 12, 14 Rehab - Design				
ICIP Project No.:		Priority:	3	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Cover replacement, coatings, and mixer improvements required for Digesters 11, 12, and 14.

OPERATIONAL IMPACT

Existing Digester Covers are cracked beyond repair, require replacement, new LMM, coatings, etc. to minimize O&M and ensure proper Odor Control.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,000
	250	250	250	250	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

305 – Primary Clarifier Improvements

The Primary Clarifiers are used to remove suspended solids ahead of the Aeration Basins. Maintaining these units is important for the downstream processes to work properly and to meet NPDES permit requirements. The primary clarifiers handle sewage is corrosive resulting in deterioration of structural, mechanical, and electrical components.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing Equipment Improvements/Replacement (Pumps/Electrical)				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment and Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that Primary Clarifiers are operating effectively for solids/BOD removal.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$950
	100	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	75	75	100	200	200	

306 - -Aeration Basin Renewal

The Aeration Basin (a.k.a. Process Basins) are used to treat the sanitary sewage to remove biochemical oxygen demand (BOD) and nutrients (e.g., ammonia and nitrate). These treatment in these basins is critical for meeting the discharge permit requirements for the SWRP. During Phase 1 of the program, the aeration diffusers were replaced with new, higher efficiency units.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	South Aeration Basins 1&2 Rehab - Construction				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Diffuser/piping repairs/replacement plus relocation of valves above the mixed liquor level are necessary to maintain and operate these aeration basins effectively.

OPERATIONAL IMPACT
Rehab of the aeration basins ensures effective DO transfer in the basins, allowing SWRP Ops to make proper process changes to achieve WQ discharge criteria. Effective aeration and accessible equipment will decrease effort required for O&M activities.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,500
	1,250	1,250	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

307 - -Secondary Sludge Thickening Improvements

This existing Dissolved Air Flootation (DAF) Facility is used to concentrate activated sludge that is periodically wasted from the secondary treatment process. Sludge concentration using DAF also conserves volume needed in the anaerobic digesters to stabilize the sludge and allows for a more efficient sludge digestion process. As the DAF equipment in the facility fails, it becomes difficult to keep up with sludge wasting requirements for the activated sludge process.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing RDT Equipment Improvements/Replacements				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment and Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that RDT facility is operating effectively for solids thickening/sludge digestion.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	-	-	50	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$750

308 – Cogeneration Improvements

The two Cogeneration (Cogen) facilities use large internal combustion engines to burn biogas produced by the Anaerobic Digestors at the SWRP. The engines turn generator sets that produce electricity that is used to power the SWRP. The Cogen facilities also provide hot water for heating the digesters and other buildings at the plant.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Cogen Stability Improvements - Design (Carollo)				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Cogen piping, flare, and building improvements - addresses old, buried piping for replacement.

OPERATIONAL IMPACT
Cogen improvements will ensure SWRP Operations can maintain WW treatment throughout an extended PNM power outage or Cogen system outage.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$300
	300	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Ongoing Cogen Equipment Improvements/Replacements, incl. heating/cooling system upgrades. South Cogen in FY22/FY23, North Cogen in FY23/FY24.				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment/Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that Cogen Facilities are operating effectively for continuous SWRP Power production. More consistent Cogen operation means less PNM electrical consumption, and lower operating costs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	1,500	500	200	300	300	
	FY29	FY30	FY31	FY32	FY33	
	400	400	400	400	400	

PROJECT INFORMATION					
Project Title:	Cogen Stability Improvements - Construction				
ICIP Project No.:		Priority:	3	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Cogen piping, flare, and building improvements - addresses old, buried piping for replacement.

OPERATIONAL IMPACT
Cogen improvements will ensure SWRP Operations can maintain WW treatment throughout an extended PNM power outage or Cogen system outage.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	1,000	1000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

309 – SWRP Renewal Contingency

Much of the SWRP is over 30 years old and some elements are 50 years old. This is a complex treatment plant with many individual pieces of equipment operating in corrosive environments. Miscellaneous small renewal projects are required to address failing assets and to keep the plant in service and treating the sewage to meet the NPDES permit requirements.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Unplanned SWRP Repair/replacement projects. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are a reality for maintenance of SWRP treatment processes and level of service to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$6,050
	500	800	350	50	350	
	FY29	FY30	FY31	FY32	FY33	
	800	800	800	800	800	

311 – Electrical/SCADA/Telemetry/Arc Flash Improvements

Wastewater electrical systems have reached or exceeded their 20-year life and need to be replaced. The electrical gear is essential for successful operation of SWRP.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing SWRP Electrical Equipment Improvements/Replacements				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment/Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that SWRP unit processes are operating effectively. More consistent electrical equipment operation means less labor/maintenance, lower electrical consumption, and lower operating costs.

CAPITAL COSTS							
Fiscal Year	FY24	FY25	FY26	FY27	FY28		
(x \$1,000)	100	100	-	-	-		
	FY29	FY30	FY31	FY32	FY33		
	100	100	100	100	100		
						TOTAL	\$700

PROJECT INFORMATION					
Project Title:	South Cogen Electrical/Mechanical Improvements				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Replacement of the PLC, HVAC, jacket water pumps, and install some safety shutoff valves, to support existing MCC improvements being done with the MCC/Switchgear project.

OPERATIONAL IMPACT

Increased resiliency, safety, and efficiency of SWRP electrical systems and Cogen systems will increase longevity and decrease overall cost to the Water Authority. This project will have no effect on current O&M costs or labor.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Power Loop A & B - Phase 2 - Source Bus Design (Carollo)				
ICIP Project No.:		Priority:	3	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

The current medium voltage SWRP power system has no redundancy and cannot be taken out of service without impacting critical unit process operations. The Power Loop A&B project will provide a second separate power loop for powering unit processes, so that one loop can be taken out of service while other loop continues to maintain SWRP power supply.

OPERATIONAL IMPACT

Power Loop A&B Upgrades will ultimately produce a resilient, redundant electrical system that can be switched from one loop to another while maintenance is performed, ensuring consistent SWRP operation and treatment below discharge permit limits.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$300
	300	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Power Loop A&B - Phase 2 - Construction				
ICIP Project No.:		Priority:	4	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

The current medium voltage SWRP power system has no redundancy and cannot be taken out of service without impacting critical unit process operations. The Power Loop A&B project will provide a second separate power loop for powering unit processes, so that one loop can be taken out of service while other loop continues to maintain SWRP power supply.

OPERATIONAL IMPACT

Power Loop A&B Upgrades will ultimately produce a resilient, redundant electrical system that can be switched from one loop to another while maintenance is performed, ensuring consistent SWRP operation and treatment below discharge permit limits.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$6,000
	-	3,500	2,500	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Digester Electrical/I&C, and Mechanical Improvements				
ICIP Project No.:		Priority:	5	Department:	Distribution

PROJECT DESCRIPTION AND SCOPE

Replacement of MCCs and minor instrumentation and mechanical improvements to replace end-of-life electrical and mechanical equipment.

OPERATIONAL IMPACT

Increased resiliency, safety, and efficiency of SWRP digester electrical systems will increase longevity and decrease overall cost to the Water Authority. This project will have no effect on current O&M requirements by SWRP staff.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$3,300
	-	300	1,500	1,500	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

312 – RAS and Sludge Withdrawal Pumps Improvements

These pumps convey Return Activated Sludge (RAS) from the Final Clarifiers to the Aeration Basins.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing SWRP RAS/WAS Sludge Pump Equipment Improvements/Replacements				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Operating Equipment/Electrical requires annual replacement and/or repairs

OPERATIONAL IMPACT
Proactive repair/replacement will ensure that SWRP RAS/WAS systems are operating effectively. More consistent equipment operation means less labor/maintenance, lower electrical consumption, and lower operating costs.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	-	-	50	
FY29	FY30	FY31	FY32	FY33	\$750	
	100	100	100	100	100	

313 – Plant-wide Non-Potable Water Improvements

The wash water system provides filtered, disinfected effluent for many essential purposes at the SWRP including cooling water for Cogeneration and Gas Compression Bldgs., polymer solution make-up water for the DAF and Sludge Dewatering facilities, pump seal lubrication water throughout the plant, wash water for activated sludge basin / clarifier foam and scum control and for general housekeeping, landscape irrigation, and similar uses that do not require non-potable water.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing plant-wide Non-Potable/BHW/DHW Piping System Improvements/Replacements				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
The Non-potable, Building Hot Water, and Digester Hot Water systems circulate vital effluent re-use water for heating/cooling/lubrication/mixing/wash throughout SWRP, and requires annual maintenance to function effectively.

OPERATIONAL IMPACT
Proactive repair/replacement of these non-potable water circulation systems ensures that all critical SWRP unit processes can remain operational. This Non-potable water system is vital for ongoing maintenance of all SWRP facilities; a well-maintained system drastically reduces O&M labor for SWRP Ops personnel.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,600
	200	200	-	-	200	
	FY29	FY30	FY31	FY32	FY33	
	200	200	200	200	200	

316 – Plant Facility, Landscape, & Asset Renewal

Wastewater Plant Facility Building upgrades, Site Landscaping, maintaining as-built SWRP master drawings, and RAMP updates are critical for ensuring a clean, safe, visually appealing, and viable SWRP Facility.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION				
Project Title:	As-Built Drawings			
ICIP Project No.:		Priority:	1	Department:
				Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Due to complexity of the SWRP facility and the number of rehab projects ongoing, continual updates to a master facility drawing set is critical. This task requires both internal (Emerson Silva) and external consultant resources.

OPERATIONAL IMPACT
Knowing location of underground utilities is critical for efficient plant Operations. This work has the potential to decrease ongoing O&M cost/labor.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	50	50	-	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	\$450

PROJECT INFORMATION					
Project Title:	O&M Building/Training Bldg. Renovation - Design/ESDC				
ICIP Project No.:		Priority:	2	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Long-term improvements to the SWRP O&M building will be needed. HVAC and building hot water piping problems have been identified, and an overall building rehab will eventually be needed.

OPERATIONAL IMPACT

Safety, access, structural, and HVAC improvements will improve plant offices and working spaces, potentially improving morale and an overall sense of facility pride. Rehab will potentially decrease ongoing O&M cost/labor, especially related to HVAC/heating issues.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$500

PROJECT INFORMATION					
Project Title:	Security Improvements and fencing				
ICIP Project No.:		Priority:	3	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

In accordance with the "Public Health Security and Bioterrorism Preparedness and Response Act of 2002 - Title I: National Preparedness for Bioterrorism and Other Public Health Emergencies - Subtitle A: National Preparedness and Response Planning, Coordinating, and Reporting" the Water Authority is required to adhere to the requirements under title IV Drinking Water Security and Safety Act. This section requires the Water Authority to conduct a vulnerability assessment. Therefore, the VA conducted in 2018 outlined various security requirements such as fencing and perimeter gate hardening.

OPERATIONAL IMPACT

Significant safety improvements would address the Water Authority's vulnerability.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	200	200	100	100	100	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$1,200

PROJECT INFORMATION					
Project Title:	HVAC Renewal - Facility wide				
ICIP Project No.:		Priority:	4	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Due to the age and corrosive nature of the facility HVAC systems need to be replaced on a more frequent basis than other facilities.

OPERATIONAL IMPACT

Longer life of MCCs and other electrical gear.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,850
	200	200	125	125	200	
	FY29	FY30	FY31	FY32	FY33	
	200	200	200	200	200	

335 – Final Clarifier Improvements

The final clarifiers (a.k.a., secondary clarifiers) are used to remove biosolids from the treated sewage before it undergoes ultraviolet disinfection. A major rehab of the 12 Final Clarifiers was completed in 2012; however, the clarifier mechanical, electrical, and instrumentation systems need to undergo future renewal.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Spalling concrete sections and internal corrosion of the launder troughs is prompting these repair efforts in order to maintain structurally competent, effective final clarification of treated wastewater.

OPERATIONAL IMPACT
Continued operation of structurally sound, sealed final clarifiers will result from these repair improvements. There is no significant change to existing ongoing SWRP O&M cost/labor.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	250	250	250	75	250	
	FY29	FY30	FY31	FY32	FY33	
	250	250	250	250	250	\$2,325

CATEGORY 400



Soil Amendment Facility (SAF)
Renewal



401 – Soil Amendment Facility Renewal

The soil amendment facility (SAF) is an important element in the Water Authority's wastewater treatment systems. The Southside Water Reclamation Plant (SWRP) generates approximately 60 tons of solids per day. These solids are land applied and composted at the SAF. The composted solids are sold and generate income for the utility. Without the SAF, the utility would have to pay to dispose of the solids in a landfill.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing SAF Facility and Equipment Renewal/Rehabilitation				
ICIP Project No.:		Priority:	1	Department:	Soil Amendment Facility

PROJECT DESCRIPTION AND SCOPE
Operating SAF Equipment and Facilities requires rehab to ensure continued land application and solids composting at SAF.

OPERATIONAL IMPACT
Periodic repair/rehab ensures that SWRP solids can be disposed of according to permit requirements; public benefit for compost material; if SAF wasn't operational, SWRP solids disposal costs would increase (landfill disposal).

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$525
	100	75	50	-	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

PROJECT INFORMATION					
Project Title:	Security Improvements and Fencing				
ICIP Project No.:		Priority:	2	Department:	Soil Amendment Facility

PROJECT DESCRIPTION AND SCOPE

In accordance with the "Public Health Security and Bioterrorism Preparedness and Response Act of 2002 - Title I: National Preparedness for Bioterrorism and Other Public Health Emergencies - Subtitle A: National Preparedness and Response Planning, Coordinating, and Reporting" the Water Authority is required to adhere to the requirements under title IV Drinking Water Security and Safety Act. This section requires the Water Authority to conduct a vulnerability assessment. Therefore, the VA conducted in 2018 outlined various security requirements such as fencing and perimeter gate hardening.

OPERATIONAL IMPACT

Significant safety improvements would address the Water Authority's vulnerability.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

CATEGORY 500



Lift Station and Vacuum Station Renewal



501 – Lift Station Renewal (Planned)

This project provides funding for the planning, design, engineering services, contract and/ or in-house services related to general lift stations. This work is important in maintaining the WUA’s stated Level of Service. There are 28 sanitary lift stations (does not include NWSA) that all operate continuously. Sewage is a corrosive and abrasive material to handle which causes advanced deterioration of the stations.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing Lift Station Facility and Equipment Renewal/Rehabilitation				
ICIP Project No.:		Priority:	1	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE
The 37 operating lift stations require regular repair/replacement of structural/piping/mechanical/electrical components, including pumps, VFDs, valves, etc.

OPERATIONAL IMPACT
Periodic repair/rehab ensures continued sewage collection/pumping and avoids catastrophic failure and SSOs. Renewal reduces O&M costs via less frequent responses to equipment failures.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$3,200
	300	50	50	-	50	
	FY29	FY30	FY31	FY32	FY33	
	500	500	500	500	750	

PROJECT INFORMATION					
Project Title:	LS Site Conversion from combined electrical control panels to separated I&C panels/disconnect external to the overall LS panel, along with new PLCs.				
ICIP Project No.:		Priority:	2	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE

This is a safety need to allow operators to continue to operate & maintain lift stations while becoming compliant with State CID electrical safety requirements. Upgrades required at the following LS sites: LS-15, LS-16, LS-19, LS-22, LS-25, LS-29, LS-52, LS-53, LS-54, LS-55, LS-56, LS-86. Minor upgrades also required at LS-2, LS-5, LS-17, LS-85, SS-38.

OPERATIONAL IMPACT

This work is needed to become compliant with State CID electrical safety requirements. If not done, Water Authority will risk CID fines and/or requirements for external Electrical Contractors to accompany field techs on all field work for Lift Stations.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,475
	250	250	250	225	250	
	FY29	FY30	FY31	FY32	FY33	
	250	-	-	-	-	

502 – Lift Station 20 Renewal

Lift Station 20 is the largest lift station in the Water Authority system. It pumps raw sewage from the west side of the river to the SWRP on the east side.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing LS20 Facility and Equipment Renewal/Rehabilitation				
ICIP Project No.:		Priority:	1	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE
LS20 is largest lift station in WUA system, pumping raw sewage from West side to SWRP (East side). Maintaining LS20 operation is critical.

OPERATIONAL IMPACT
Periodic LS20 repair/rehab ensures continued sewage collection/pumping and avoids catastrophic failure and SSOs. Renewal reduces O&M costs via less frequent responses to equipment failures.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,500
	150	150	150	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	150	150	150	150	

PROJECT INFORMATION					
Project Title:	LS20 Force Main Condition Assessment & Force Main Rehab (possible parallel line)				
ICIP Project No.:		Priority:	2	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE

LS20 FM underneath Rio Grande River is over 35 years old, and condition assessment is needed to anticipate potential rehab needs.

OPERATIONAL IMPACT

Proactive evaluation of LS20 FM will help avoid catastrophic failure/EPA violations. Evaluation will also identify required improvements to ARVs/vaults, which will allow active O&M to occur on these ARVs/vaults.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	500	1,500	3,400	3,400	
	FY29	FY30	FY31	FY32	FY33	
	-	-	5,000	5,000	3,000	\$21,800

503 – Lift Station 24 Renewal

Lift Station 24 is the second largest lift station in the Water Authority system. Funding allows pro-active renewal of the different facility components including pumps, piping, valves, instrumentation, and other components.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing LS24 Facility and Equipment Renewal/Rehabilitation				
ICIP Project No.:		Priority:	1	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE
LS24 is second largest lift station in WUA system, collecting sewage from the northwest collection basin and pumping into the upper end of the Westside Interceptor. Maintaining LS24 operation is critical.

OPERATIONAL IMPACT
Periodic LS24 repair/rehab ensures continued sewage collection/pumping and avoids catastrophic failure and SSOs. Renewal reduces O&M costs via less frequent responses to equipment failures.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	150	150	150	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	150	150	150	150	\$1,500

504 – Vacuum Station Renewal (Planned)

The pumps, piping, valves, and other components at these facilities are exposed to wastewater that contains high levels of abrasive grit (e.g., sand) and corrosive hydrogen sulfide/sulfuric acid. This results in periodic failures of the different components.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Ongoing Vacuum Station Facility and Equipment Renewal/Rehabilitation				
ICIP Project No.:		Priority:	1	Department:	Vacuum Stations

PROJECT DESCRIPTION AND SCOPE
The 10 operating vacuum stations require regular repair/replacement of structural/piping/mechanical/electrical components, including pumps, VFDs, valves, etc.

OPERATIONAL IMPACT
Periodic repair/rehab ensures continued sewage collection/pumping, and avoids catastrophic failure, sewer backups, and damage claim costs. Renewal reduces O&M costs via less frequent responses to equipment failures.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	250	250	250	250	250	
	FY29	FY30	FY31	FY32	FY33	
	250	250	250	250	250	\$2,500

PROJECT INFORMATION					
Project Title:	VS 62 MCC/PLC Replacement Design & Construction				
ICIP Project No.:		Priority:	2	Department:	Vacuum Stations

PROJECT DESCRIPTION AND SCOPE

Relocation of electrical panels from the mechanical area to a separate electrical area, and panel separation of high- and low-voltage components is required to allow technicians to safely operate and troubleshoot VS equipment.

OPERATIONAL IMPACT

Completion of this work will allow Collections personnel to comply with State CID electrical safety requirements. Beyond this, no other operational impact will occur from this rehab effort.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	200	1,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,200

PROJECT INFORMATION					
Project Title:	Air Vac Pit Valves				
ICIP Project No.:		Priority:	3	Department:	Vacuum Stations

PROJECT DESCRIPTION AND SCOPE

Replacement of 1000 x \$1800, 150 per year over 7 years. Not functioning properly.

OPERATIONAL IMPACT

Significant safety improvements would address the Water Authority's vulnerability.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	150	150	150	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	150	150	150	150	\$1,500

PROJECT INFORMATION					
Project Title:	VS 65 MCC/PLC Replacement Design & Construction				
ICIP Project No.:		Priority:	4	Department:	Vacuum Stations

PROJECT DESCRIPTION AND SCOPE
Relocation of electrical panels from the mechanical area to a separate electrical area, and panel separation of high- and low-voltage components is required to allow technicians to safely operate and troubleshoot VS equipment.

OPERATIONAL IMPACT
Completion of this work will allow Collections personnel to comply with State CID electrical safety requirements. Beyond this, no other operational impact will occur from this rehab effort.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,200
	-	200	1,000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

507 – Electrical/SCADA/Telemetry/Arc Flash Improvements

Every five (5) years NFPA 70E requires that all industrial electrical equipment be re-evaluated for Arc Flash Hazards and new compliant Arc Flash Labels be affixed to each cabinet and motor.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Lift/Vacuum Stations

PROJECT DESCRIPTION AND SCOPE
Unplanned Electrical repair/replacement/upgrades, including transformers, MCCs, motor starters, conduit, switches, etc. Contingency funds for unplanned emergency repairs/upgrades are a necessity since most electrical equipment will be run-to-failure.

OPERATIONAL IMPACT
Emergency or Unplanned electrical repair/replacement/upgrades are necessary to maintain low-arsenic groundwater supply for the Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	50	50	410	50	
FY29	FY30	FY31	FY32	FY33		
	50	50	50	410	50	\$1,220

509 – Lift Station Renewal (Emergency)

This project provides funding for the planning, design, engineering services, contract and/ or in-house services related to general lift stations. This work is important in maintaining the WUA’s stated Level of Service. There are 28 sanitary lift stations (does not include NWSA) that all operate continuously. Sewage is a corrosive and abrasive material to handle which causes advanced deterioration of the stations.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE
Unplanned Lift Station repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are a reality for maintenance of Lift Station facilities to maintain level of service to ratepayers.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
(x \$1,000)	50	50	50	50	50	
FY29	FY30	FY31	FY32	FY33		
	50	50	50	50	50	

510 – Vacuum Station Renewal (Emergency)

The pumps, piping, valves, and other components at these facilities are exposed to wastewater that contains high levels of abrasive grit (e.g., sand) and corrosive hydrogen sulfide/sulfuric acid. This results in periodic failures of the different components.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Vacuum Stations

PROJECT DESCRIPTION AND SCOPE
Unplanned Vacuum Station repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are a reality for maintenance of Vacuum Station sewage pumping to maintain level of service to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

CATEGORY 600



Odor Control Facilities Renewal



601 – Collection System Odor Control Renewal

This program provides funding for evaluation, planning, design, construction, and related activity necessary for odor control in the collection system. This work is important in maintaining the WA’s stated Level of Service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Odor Control

PROJECT DESCRIPTION AND SCOPE
Unplanned Collection System Odor Control repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of Odor Control are necessary to reduce odors/corrosion in Collection System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	-	-	50	50	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$650

PROJECT INFORMATION					
Project Title:	Westside/CRL W2 Chemical Feed System (Ferric Chloride & Mag Hydroxide)				
ICIP Project No.:		Priority:	2	Department:	Odor Control

PROJECT DESCRIPTION AND SCOPE

Collection System Odor Control Master Plan identified high priority need for chemical feed systems on Westside Interceptor to reduce odors and control corrosion.

OPERATIONAL IMPACT

Additional Odor Control stations will increase O&M costs/labor but extend life of interceptor piping and reduce odors. Will eliminate need for SIPI bioxide station.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	200	300	200	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$700

PROJECT INFORMATION					
Project Title:	Tijeras Interceptor Chemical Feed Systems (1 Ferric Chloride facility, 1 Mag Hydroxide facility)				
ICIP Project No.:		Priority:	3	Department:	Lift Stations

PROJECT DESCRIPTION AND SCOPE

Collection System Corrosion Control Master Plan identified high priority need for chemical feed systems on Tijeras Interceptor to reduce odors and control corrosion.

OPERATIONAL IMPACT

Additional Odor Control stations will increase O&M costs/labor but extend life of interceptor piping and reduce odors.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	200	300	200	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$700

CATEGORY 700



Drinking Water Plant: Groundwater
System Renewal



701 – Sodium Hypochlorite Generator System Renewal

The Groundwater system uses on-site sodium hypochlorite generation systems for disinfection of the well water. It is important that these units be rehabbed or replaced when they become unreliable.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Unplanned Sodium Hypochlorite Generation repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of hypochlorite generation systems are necessary to maintain disinfection chlorine residuals in Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	150	-	-	-	3	
FY29	FY30	FY31	FY32	FY33		
	50	50	150	150	150	\$703

PROJECT INFORMATION					
Project Title:	Annual Hypo Generator Replacement - 1 systems/year				
ICIP Project No.:		Priority:	2	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Replacement needed based on system age, manufacturer (old Chlor-Tec). Standardizing on PSI systems due to efficiency, support, readily available parts, etc.

OPERATIONAL IMPACT

Replacement of older systems significantly reduces O&M labor/costs through reduced frequency of site visits, reduced repair time, etc.

CAPITAL COSTS							
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL	
	125	125	125	125	125		
	FY29	FY30	FY31	FY32	FY33		
	125	125	125	125	125		
							\$1,250

PROJECT INFORMATION					
Project Title:	Annual Chlorine Analyzer Replacement - 5 systems/year				
ICIP Project No.:		Priority:	3	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Replace old Rosemount chlorine analyzers with closed loop E&H units (approximately 35 sites): estimated cost \$10,000/site including analyzer, booster pump and plumbing--in house installation

OPERATIONAL IMPACT

Replacement of older systems significantly reduces O&M labor/costs through reduced frequency of site visits, reduced repair time, etc. Revenue loss.

CAPITAL COSTS							
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL	
	50	50	50	50	50		
	FY29	FY30	FY31	FY32	FY33		
	50	50	50	50	50		
							\$500

702 – Booster Pump Station Renewal

There are 39 potable water booster stations that pump water to the upper zones of the water service area. If the booster pumps and auxiliary equipment are not maintained and repaired as needed, there is a significant risk of failure to get water to customers and/or maintain the expected levels of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Sandia Manor PS Electrical Rehab				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Rehab of Electrical Systems/MCC at Sandia Manor PS required.

OPERATIONAL IMPACT
Little to no service disruption and reduce operations and maintenance costs/labor

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	2	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Unplanned Pump Station repair/replacement of pumps/motors/valves/piping and other facility improvements (buildings/roofs/grounds). Contingency funds for unplanned emergency repairs are a necessity. AMP shows valve replacement program at \$129K.

OPERATIONAL IMPACT

Emergency PS repairs are necessary to maintain water service to entire Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$20,500
	1,500	2,000	1,500	1,500	1,500	
	FY29	FY30	FY31	FY32	FY33	
	2,500	2,500	2,500	2,500	2,500	

703 – Wells Renewal

The Water Authority must maintain a full capacity groundwater supply system even with the San Juan-Chama Drinking Water facility. At times, river water may not be available for diversion, so the Water Authority will have to rely fully on its wells. Also, the wells are needed to provide peak capacity during the high demand periods. Funding will be used for rehabilitation and replacement.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Unplanned Well Pump repair/replacement, including pumps, motors, discharge piping, valves, etc. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency Well site repairs are necessary to maintain low-arsenic groundwater supply for the Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	200	500	173	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	150	500	500	500	\$2,973

PROJECT INFORMATION					
Project Title:	Annual Proactive Well Pump Rehab - 1-3 wells/year				
ICIP Project No.:		Priority:	2	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Pull well pumps at 3-5 well sites per year, based on usage hours and flowrate. Goal is to ensure that "backbone" wells in system are rehabbed and fully operational for High-Demand season.

OPERATIONAL IMPACT

Low arsenic GW supply is necessary for meeting summer demands in the Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits and ensures continuous operation during Summer Demands.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	400	400	200	200	200	
	FY29	FY30	FY31	FY32	FY33	
	400	400	400	400	400	
						\$3,400

PROJECT INFORMATION					
Project Title:	Annual EMICC MCC Motor Starter Replacement				
ICIP Project No.:		Priority:	3	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Replace obsolete EMICC MCC Motor Starters (10 MCCs per year for 8 years at \$7K each).

OPERATIONAL IMPACT

Low arsenic GW supply is necessary for meeting summer demands in the Distribution System. Replacement of obsolete MCC motor starters reduces O&M labor/costs through reduced frequency of site visits and ensures continuous operation during Summer Demands.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	75	75	75	75	75	
	FY29	FY30	FY31	FY32	FY33	
	75	75	75	75	75	
						\$750

PROJECT INFORMATION					
Project Title:	Annual Roof Repair/Replacement				
ICIP Project No.:		Priority:	4	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Repair or replace roofs at Well sites and/or Pump Station sites (Fund \$100K from CIP budget, \$40K from GW Ops budget)

OPERATIONAL IMPACT

Repaired/replaced roofs will protect mechanical and electrical components, reduce O&M labor/costs through reduced frequency of site visits, and ensure continuous operation during Summer Demands.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	
						\$500

PROJECT INFORMATION					
Project Title:	Ponderosa Well 2 Electrical Rehab				
ICIP Project No.:		Priority:	5	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Rehab of Electrical Systems/MCC at Ponderosa PS required.

OPERATIONAL IMPACT

Reduced Operations labor/cost for spillage/cleanup due to covered storage area. Significant safety improvement.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	
						\$500

PROJECT INFORMATION					
Project Title:	Love Well 8 Brine Room Rehab Construction				
ICIP Project No.:		Priority:	6	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Brine room rehab is required to repair wall damage from the salt/brine system of the on-site chlorine generation system; rehab will repair walls, install coatings, and ensure structural integrity of the building walls.

OPERATIONAL IMPACT

Rebuilt walls and coatings will allow upgraded hypochlorite generation system to operate without damage to building structure. This rehab will not change existing facility O&M labor/costs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$650
	650	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

719- Reservoirs Renewal

This program provides funding for the rehabilitation and replacement of each steel and concrete reservoir 20 years and 30 years, respectively. Failure to program funds on a continuing basis for this activity will shorten the life of these assets.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Charles Wells Reservoir				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Leaking heavily through structural cracks at Reservoir. Needs sealed. Approximately 25-60 gpm through interior concrete joints.

OPERATIONAL IMPACT
Reducing non-revenue loss, stabilizing the reservoir foundation, and making a viable long term recreational facility (tennis courts)

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,000
	2,000	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Safety Improvements for exterior fixed ladders – Multiple Reservoir sites.				
ICIP Project No.:		Priority:	2	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Ladder improvements required for OSHA compliance and worker safety. Corrales, Glennwood, and Santa Barbara site.

OPERATIONAL IMPACT

Ladder improvements required for OSHA compliance and worker safety.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,750
	150	200	100	100	200	
	FY29	FY30	FY31	FY32	FY33	
200	200	200	200	200		

PROJECT INFORMATION					
Project Title:	Sanitary Survey Hatch Improvements				
ICIP Project No.:		Priority:	3	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Reservoir hatch improvements and overflow improvements are required to comply with NMED/EPA sanitary survey requirements.

OPERATIONAL IMPACT

Reservoir hatch improvements and overflow improvements are required to comply with NMED/EPA sanitary survey requirements.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$1,750
	150	200	100	100	200	
	FY29	FY30	FY31	FY32	FY33	
200	200	200	200	200		

PROJECT INFORMATION					
Project Title:	Vent improvements/replacements				
ICIP Project No.:		Priority:	4	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Replacement of 5 vents per year @ \$15K per vent.

OPERATIONAL IMPACT

Replacement of vents will improve process function.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	50	75	50	50	75	
	FY29	FY30	FY31	FY32	FY33	
	75	75	75	75	75	\$675

PROJECT INFORMATION					
Project Title:	Lomas Reservoir 2 East – Phase 1 Joint Membrane Removal/Replacement & Stairway				
ICIP Project No.:		Priority:	5	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

The Reservoir sporadically exhibits low-level polychlorinated biphenyls (PCBs) detections. Investigations have identified the exterior roof joint membrane as containing PCBs. Reservoir leakage at the roof joint has also compromised the exterior structural ring beam. To mitigate, three separate phased projects will rehab Lomas Reservoir 2. Structural analysis by AECOM confirms that this Pritzker-style tank is not susceptible to structural failure due to the exterior structural ring beam.

OPERATIONAL IMPACT

Rehab is required to remedy intermittent Water Quality issue and allow Lomas Reservoir 1 to be repaired. Reservoir rehab will result in reducing non-revenue loss and potential failure to provide water based on risk assessment.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	1,200	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,200

PROJECT INFORMATION					
Project Title:	Lomas Reservoir 2 East – Phase 2 Interior Lining				
ICIP Project No.:		Priority:	6	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

The Reservoir sporadically exhibits low-level polychlorinated biphenyls (PCBs) detections. Investigations have identified the exterior roof joint membrane as containing PCBs. Reservoir leakage at the roof joint has also compromised the exterior structural ring beam. To mitigate, three separate phased projects will rehab Lomas Reservoir 2. Structural analysis by AECOM confirms that this Pritzker-style tank is not susceptible to structural failure due to the exterior structural ring beam.

OPERATIONAL IMPACT

Rehab is required to remedy intermittent Water Quality issue and allow Lomas Reservoir 1 to be repaired. Reservoir rehab will result in reducing non-revenue loss and potential failure to provide water based on risk assessment.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$3,200
	-	200	3,000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Soil Amendment Facility Reuse Reservoir				
ICIP Project No.:		Priority:	7	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

The inlet riser pipe above the water line is severely corroded. The walls and ceiling above the water line are satisfactory with some rust staining at the weld seams. The interior coating needs replaced, and the floor should be repaired in pitted and leaking locations.

OPERATIONAL IMPACT

Reduce non-revenue loss and stabilize the reservoir foundation.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$307
	-	307	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

732 – LV Valve Equipment Replacement

At each of the Water Authority's drinking water reservoirs, wells, booster pumping stations, and treatment plants, there are numerous large diameter valves. It is important that these valves be in good working condition to allow for system isolation. Funding this program will renew broken valves.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Annual Large-Diameter Valve Replacement - As needed.				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Reservoir sites contain multiple large-diameter valves that must be operable to serve the transmission/distribution system. Replacement of broken valves is a necessity.

OPERATIONAL IMPACT
Broken valves cannot be operated/maintained. Replacing these valves will add O&M costs for periodic valve exercising, but costs are justified due to critical importance of isolating reservoirs and large system segments.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	100	100	100	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$1,000

735 – Electrical/SCADA/Telemetry/Arc Flash Improvements

This program is for funding Groundwater facility Electrical systems, Supervisory Control and Data Acquisition (SCADA) system hardware replacement and software upgrades, Telemetry upgrades, and Arc.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Unplanned Electrical repair/replacement/upgrades, including transformers, MCCs, motor starters, conduit, switches, etc. Contingency funds for unplanned emergency repairs/upgrades are a necessity, since most electrical equipment will be run-to-failure.

OPERATIONAL IMPACT
Emergency or Unplanned electrical repair/replacement/upgrades are necessary to maintain low-arsenic groundwater supply for the Distribution System. Proactive repairs reduce O&M labor/costs through reduced frequency of site visits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	750	500	500	250	500	
	FY29	FY30	FY31	FY32	FY33	
	750	750	750	750	750	\$6,250

740 – Arsenic Treatment Renewal

The Water Authority has three arsenic removal treatment systems. Renewal and replacement of the granular ferric hydroxide media from the different pressure vessels are necessary to restore the ability of these systems to remove arsenic from the well water prior to distributing the water to the public.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Utility wide arsenic treatment Strategy - Evaluation Study (Stranded Assets Study)				
ICIP Project No.:		Priority:	1	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE
Develop a long-term strategy for utilizing existing that are currently out of service with the water system to allow arsenic wells (Walker/Coronado) to be treated for potable distribution.

OPERATIONAL IMPACT
No O&M impact right now, but as specific CIP projects are identified and then designed/constructed, additional Operational labor may be required, but again, can be potentially offset by SJCWTP personnel during the operating period.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$16,250
	250	-	-	1,000	7,500	
	FY29	FY30	FY31	FY32	FY33	
	7,500	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Thomas/Santa Barbara/Miles Arsenic Treatment Facility Study, Design, & Construction				
ICIP Project No.:		Priority:	2	Department:	Groundwater

PROJECT DESCRIPTION AND SCOPE

Facility will provide 15-20 MGD of treated GW from Thomas, Santa Barbara, and Yale wells via three separate ATFs at Thomas, Santa Barbara, and Miles Reservoir sites.

OPERATIONAL IMPACT

Will require additional O&M labor, but operation would likely only be required when SJCWTP is off-line, so labor can potentially be offset by SJCWTP personnel during the operating period. Overall benefit in terms of improved process flexibility/capacity/arsenic removal efficiency, and significant additional low-arsenic potable GW capacity for use during high-demand period.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL \$5,250
(x \$1,000)	250	1,000	1,000	1,000	2,000	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

CATEGORY 800



Drinking Water Plant: Treatment
System Renewal



801 – Surface Water Treatment Plant Renewal

This item is to provide funding for emergency capital improvements to address unanticipated equipment or other asset failures at the facilities associated with the San Juan-Chama Drinking Water Plant and related facilities. This is a critical facility in the Water Authority's drinking water system and any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Unplanned SJCWTP equipment/mechanical/structural repair or replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of the multiple SJCWTP treatment unit processes are necessary to treat surface water for potable use in the water Distribution System. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	750	950	500	250	500	
	FY29	FY30	FY31	FY32	FY33	
	950	1,000	1,000	1,000	1,250	\$8,150

PROJECT INFORMATION

Project Title:	Rotork Actuator Rehab/Replacement				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Replacement of existing Rotork Actuators, due to unavailability of unsupported parts needed for rehab. Salvaged parts will be used to repair Actuators that have not been replaced.

OPERATIONAL IMPACT

The overall benefit will be that the new actuators will be supported by the manufacturer with replacement parts availability.

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	100	100	100	100	100		\$1,000
	FY29	FY30	FY31	FY32	FY33		
	100	100	100	100	100		

PROJECT INFORMATION

Project Title:	HVAC Contingency				
ICIP Project No.:		Priority:	3	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

HVAC/roofing improvements to ensure that MCC rooms are not impacted by swamp cooler runoff.

OPERATIONAL IMPACT

No operational impact, but significant safety improvement.

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	75	75	75	75	75		\$750
	FY29	FY30	FY31	FY32	FY33		
	75	75	75	75	75		

PROJECT INFORMATION					
Project Title:	Roofing contingency for all sites				
ICIP Project No.:		Priority:	4	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

HVAC/roofing improvements to ensure that MCC rooms are not impacted by swamp cooler runoff.

OPERATIONAL IMPACT

No operational impact, but significant safety improvement.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

PROJECT INFORMATION					
Project Title:	Security Improvements and Fencing				
ICIP Project No.:		Priority:	5	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

In accordance with the "Public Health Security and Bioterrorism Preparedness and Response Act of 2002 - Title I: National Preparedness for Bioterrorism and Other Public Health Emergencies - Subtitle A: National Preparedness and Response Planning, Coordinating, and Reporting" the Water Authority is required to adhere to the requirements under title IV Drinking Water Security and Safety Act. This section requires the Water Authority to conduct a vulnerability assessment. Therefore, the VA conducted in 2018 outlined various security requirements.

OPERATIONAL IMPACT

Significant safety improvements would address the Water Authority's vulnerability.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	50	50	50	50	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

802 – SJCWTP Unit Process Improvement

This item is to provide funding for emergency capital improvements to address unanticipated equipment or other asset failures at the key unit process facilities associated with the San Juan-Chama Drinking Water Plant. This is a critical facility in the Water Authority's drinking water system and any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Sulfuric Acid Storage Tank Replacement				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Replacement of Sulfuric Acid Storage Tank will be determined post inspection. Should the findings of the inspection identify significant damage to tank, replacement will be necessary.

OPERATIONAL IMPACT
The Operational Impact will be to address safety.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$500
	500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Ferric Chloride Storage Tanks				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Replacement of the ferric chloride storage tanks is necessary to ensure reliable and safe continued service. Given the configuration of the existing tanks we cannot safely assess their interior condition. Consequently, we cannot predict if/when the tanks need to be re-lined/rehabilitated or replaced. Tanks with side access hatches will be cleaned and inspected as recommended by the industry and manufacturer. With proper upkeep we will also maximize the potential service life of the tanks. Keeping the existing tanks in-service without proper inspection and upkeep increases the potential for tank leaks and possible failure. The ferric chloride room is designed to contain fluid released from a failed tank. However, flooding the room with ferric chloride would potentially result in catastrophic damage for equipment/cabling, forcing the facility offline for weeks or months while repairs are performed.

OPERATIONAL IMPACT

Once replaced we will be able to perform recommended industry / manufacturer cleaning, inspection, and rehabilitation of the tanks. The project will result in additional O&M hours, given we will be able to periodically clean and inspect the tanks. The new tanks will store the same volume of chemical as those they are replacing.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$900
	-	300	-	150	150	
	FY29	FY30	FY31	FY32	FY33	
	150	150	-	-	-	

803 – SJCWTP Basin Improvements

This item is to provide funding for emergency capital improvements to address unanticipated equipment or other asset failures at the facilities associated with the San Juan-Chama Drinking Water Plant and related facilities. This is a critical facility in the Water Authority's drinking water system and any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Basin Dredging Operations - (study scope to include stratification/WQ/sediment/pond access evaluation, and recommendations on dredging techniques/costs)				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Sediment, filter backwash, and organic matter buildup in the basins impacts available raw water storage volume and has negative WQ impacts to SJCWTP treatment processes. A dredging/mixing study followed by dredging operations needs to be implemented.

OPERATIONAL IMPACT
Improved SJCWTP plant performance and water quality. Contracted dredging operation should not increase O&M labor/costs at SJCWTP.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$35,000
	14,000	14,000	1,000	-	1,000	
	FY29	FY30	FY31	FY32	FY33	
	-	1,000	3,000	1,000	-	

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Emergency repairs of the multiple SJCWTP basins are necessary to store raw water for subsequent treatment. Proactive liner repairs, etc. reduce O&M labor/costs and ensure potable water availability to ratepayers.

OPERATIONAL IMPACT

Improved SJCWTP plant performance and water quality. Emergency repairs should not increase O&M labor/costs at SJCWTP.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	100	100	100	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$1,000

PROJECT INFORMATION					
Project Title:	Concrete Repairs in the drying beds				
ICIP Project No.:		Priority:	3	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Spalling and exposed rebar has been observed in Sludge Drying Bed #1. Repair is necessary to prevent continued deterioration.

OPERATIONAL IMPACT

Improved SJCWTP plant performance and water quality. Emergency repairs should not increase O&M labor/costs at SJCWTP.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	300	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	300	-	-	-	-	\$600

805 – SJCWTP Diversion Facility Improvements

This item is to provide funding for capital improvements to address diversion equipment or other asset failures at the San Juan-Chama Drinking Water Plant diversion structure near Alameda Open Space. The diversion facility is critical to diversion of river water to the Raw Water Pumping Station (and on to SJCWTP), and any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Automated Bar Screen - Construction & ESDC				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
The existing manual bar screen system endangers safety of WUA personnel during cleaning operations. The Automated Bar Screen will improve/eliminate these safety concerns and provide improved debris removal at the diversion facility.

OPERATIONAL IMPACT
Significant positive impact to O&M via decreased safety risks. Likely no net change to O&M - the decreased manual personnel time/labor will likely be offset by increased electrical costs and maintenance for the mechanical bar screen system.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,500
	2,500	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION

Project Title:	Contingency				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Unplanned SJCWTP diversion equipment/mechanical/structural repair or replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT

Emergency repairs of the multiple SJCWTP diversion processes are necessary to divert surface water for pumping and treatment. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	100	-	100	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	
						\$900

807 – SJCWTP Finish Water Reservoir Improvements

This item is to provide funding for capital improvements and rehab of the two 10MG finish water reservoirs at the San Juan-Chama Drinking Water Plant. These reservoirs are aging and will require upgrades/repairs/rehab periodically to maintain potable WQ standards, compliance with NMED sanitary survey inspections, and treated water storage for delivery to the Distribution system; any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Unplanned SJCWTP equipment repair or replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are necessary to treat the San Juan-Chama Drinking Water Plant. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$450
	50	50	50	-	50	
	FY29	FY30	FY31	FY32	FY33	
	50	50	50	50	50	

PROJECT INFORMATION

Project Title:	Finish water drop box repair				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

The Finished Water Drop Box has a damaged weir that is need of repair. Modification of the box is necessary to gain access to the damaged weir. All three existing weirs will be reinforced to prevent future damage from occurring.

OPERATIONAL IMPACT

Repair of Drop Box is necessary to return to full operational status. It is also necessary to prevent continued deterioration

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28
(x \$1,000)	-	200	100	-	-
	FY29	FY30	FY31	FY32	FY33
	-	-	-	-	-

TOTAL
\$300

808 – SJCWTP Electrical/Telemetry/Arc Flash Improvements

This program is for funding SJCWTP facility Electrical systems, existing Supervisory Control and Data Acquisition (SCADA) system hardware replacement and software upgrades, Telemetry upgrades, and Arc Flash improvements.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Unplanned SJCWTP equipment repair or replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of SJCWTP electrical systems are necessary to treat surface water for potable use in the water Distribution System. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS								
Fiscal Year <small>(x \$1,000)</small>	FY24	FY25	FY26	FY27	FY28	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr style="background-color: #D3D3D3;"><td style="padding: 5px;">TOTAL</td></tr> <tr style="background-color: #D3D3D3;"><td style="padding: 5px;">\$900</td></tr> </table>	TOTAL	\$900
TOTAL								
\$900								
	50	50	50	-	50			
	FY29	FY30	FY31	FY32	FY33			
	50	50	200	200	200			

PROJECT INFORMATION					
Project Title:	Electrical Master Plan Improvements				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Improvements and replacement of electrical equipment (DeviceNet, ControlNet, etc.) and other electrical equipment (motor protection relays, etc.).

OPERATIONAL IMPACT
Proactive replacement will reduce O&M labor/costs.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$300
	100	100	100	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

811 – College Arsenic Facility Rehab

This item is to provide funding for capital improvements to address unanticipated equipment or other asset failures at the facilities associated with the College Arsenic Facility. This is a critical facility in the Water Authority's drinking water system and any asset failures need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Unplanned College Arsenic equipment/mechanical/structural repair or replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of arsenic treatment unit processes are necessary to treat groundwater for potable use in the water Distribution System. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	150	150	-	-	50	
FY29	FY30	FY31	FY32	FY33		
	300	300	300	300	300	\$1,850

PROJECT INFORMATION					
Project Title:	Rack Module Expansion/Rehab				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

From KJ Oct 2020 Memo - Short Term (1-5 Years), then repeat every 10 years (see Long Term 10+ Years). This is for valve replacement and rack module replacement.

OPERATIONAL IMPACT

Replacement rack modules and expanded modules (to fully build out rack), plus replacement of all actuated valves and all shared/off-skid valves) will decrease O&M labor/cost requirements for SJCWTP Ops personnel and ensure continued potable water availability to meet minimum service levels.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	400	400	400	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,200

818 – SJCWTP Raw Water/Settle Water/Finish Water Pump Station Improvements

This item is to provide funding for capital improvements to address equipment or other asset failures associated with the Raw Water Pump Station, Settled Water Pump Station, and the Finish Water Pump Station for the San Juan-Chama Drinking Water Plant. Both Pump Station facilities are critical to delivery of raw water to SJCWTP, and distribution of SJCWTP treated water to the potable Distribution system, and any asset failures or required improvements need to be addressed quickly to maintain the expected level of service.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Annual Raw Water Pump Station Pump Renewal (2 pumps/year)				
ICIP Project No.:		Priority:	1	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE
Raw Water pump assemblies are subjected to extreme pumping conditions (abrasive sediment), requiring proactive pump removal/teardown/inspection and repair/replacement.

OPERATIONAL IMPACT
Proactive repairs reduce O&M labor/costs through reduced frequency of site visits and ensure that all 12 Raw Water Pumps are operational during High-Demand season.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	250	250	250	250	250	
FY29	FY30	FY31	FY32	FY33	\$2,500	
	250	250	250	250	250	

PROJECT INFORMATION					
Project Title:	Contingency				
ICIP Project No.:		Priority:	2	Department:	Surface Water

PROJECT DESCRIPTION AND SCOPE

Unplanned SJCWTP for Raw Water Pump Station repair or replacements. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT

Emergency repairs of SJCWTP Raw Water Pump Station. Proactive repairs reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	25	25	-	25	
	FY29	FY30	FY31	FY32	FY33	
	25	25	100	100	100	\$525

CATEGORY 900



Reuse Line and Plant Renewal



901 – Reuse Line Rehab

This item is to provide funding for general renewal of reclaimed (recycled) water field assets, including pipelines and buried valves, including both the Northside and Southside Reclaimed water systems.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Unplanned Reuse WL Repair/replacement. Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate public impact and maintain level of service to ratepayers, including many parks, schools, and commercial properties that depend on reclaimed water for turf/landscape irrigation.

CAPITAL COSTS								
Fiscal Year	FY24	FY25	FY26	FY27	FY28	<table border="1"> <tr> <td>TOTAL</td> </tr> <tr> <td>\$850</td> </tr> </table>	TOTAL	\$850
TOTAL								
\$850								
(x \$1,000)	100	100	50	50	50			
FY29	FY30	FY31	FY32	FY33				
	100	100	100	100	100			

902 Reuse Plant Rehab

This item is to provide funding for general renewal of reclaimed (recycled) water plant assets, including treatment facilities, pumping stations, and storage reservoirs for both the Northside and Southside Reclaimed water systems.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Reclamation Plant

PROJECT DESCRIPTION AND SCOPE
Unplanned Reuse Plant Repair/replacement (reservoirs, pump stations, etc.). Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs are required to eliminate public impact and maintain level of service to ratepayers, including many parks, schools, and commercial properties that depend on reclaimed water for turf/landscape irrigation.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	100	100	100	100	
	FY29	FY30	FY31	FY32	FY33	
	100	100	100	100	100	\$1,000

PROJECT INFORMATION				
Project Title:	North Non-Potable Reuse Supply Redundancy Options			
ICIP Project No.:		Priority:	2	Department:
				Reclamation Plant

PROJECT DESCRIPTION AND SCOPE

Evaluation of options to connect and utilize additional high-arsenic wells to augment Coronado Wells 1 & 2 to provide sufficient redundant water source capacity for the North Non-Potable Reuse system, so that existing Coronado Wells 1 & 2 are not the only redundant water supply wells.

OPERATIONAL IMPACT

Initial evaluation will not have an O&M impact, but future construction of identified facilities could require increased O&M requirements for GW Operations staff.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	200	500	500	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,200

CATEGORY 1000



Compliance

1001 – Water Quality Lab Renewal

This item is to provide funding for renewal of laboratory equipment at the Water Authority's Water Quality Laboratory (SWRP) and the SJCWTP Laboratory. It is critical to the operation of the labs that analytical equipment and supplies be rehabilitated or replaced routinely. This is important to allow the labs to comply with the regulatory agency requirements for turnaround times and analysis accuracy.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE
Unplanned Reuse Plant Repair/replacement (reservoirs, pump stations, etc.). Contingency funds for unplanned emergency repairs are a necessity.

OPERATIONAL IMPACT
Emergency repairs of the lab equipment and lab facilities are necessary to support operation of the SWRP and SJCWTP. Proactive repairs reduce O&M labor/costs, provide valuable data for making operational decisions, and facilitates achievement of discharge WQ criteria and potable treatment limits.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	350	350	350	350	350	
	FY29	FY30	FY31	FY32	FY33	
	350	350	350	350	350	\$3,500

PROJECT INFORMATION

Project Title:	Autoclave				
ICIP Project No.:		Priority:	2	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE

The unit is aging and needs the boiler to be replace for \$12K or replace the entire unit for \$60K

OPERATIONAL IMPACT

Microbiological Analyst requires sterilized items for analyses

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	60	-	-	-	-		\$60
	FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-		

PROJECT INFORMATION

Project Title:	Muffle Furnace				
ICIP Project No.:		Priority:	3	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE

Units are used daily at high temperatures and are critical equipment to lab performances.

OPERATIONAL IMPACT

The muffle furnace is used In the of daily plant operations for the volatile fraction of total and total suspended solids.

CAPITAL COSTS

Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	6	-	-	-	-		\$6
	FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-		

PROJECT INFORMATION					
Project Title:	Micro Incubator				
ICIP Project No.:		Priority:	4	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE
Old incubator for Fecal determination on solids.

OPERATIONAL IMPACT
The micro incubator is used In support of SAF compliance and process compost samples.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	6	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$6

PROJECT INFORMATION					
Project Title:	Fume Hood H1, H2, H3 & H4				
ICIP Project No.:		Priority:	5	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE
Units can no longer be repaired - will need to be replaced if fail. Installed 1988. \$40k ea.

OPERATIONAL IMPACT
Fume hoods remove chemical vapor, gases, and heat from laboratory work.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	160	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$160

PROJECT INFORMATION					
Project Title:	Hach DR5000				
ICIP Project No.:		Priority:	6	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE

No longer covered under annual preventative maintenance contract. The DR5000 is being phased out and should be replaced with DR6000.

OPERATIONAL IMPACT

Used daily for compliance and monitoring samples.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	12	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$12

PROJECT INFORMATION					
Project Title:	Solids Oven				
ICIP Project No.:		Priority:	7	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE

Units are used daily at high temperatures.

OPERATIONAL IMPACT

The solids oven is used in support of daily plant operations for the total and total suspended solids fraction

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	5	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$5

PROJECT INFORMATION					
Project Title:	Sample Storage Refrigerator SSR # 12 & SSR #15 Standard				
ICIP Project No.:		Priority:	8	Department:	Water Quality Lab

PROJECT DESCRIPTION AND SCOPE
Samples and Standards are required to be kept at < 6 degrees C. \$12k for each unit.

OPERATIONAL IMPACT
Decreased sample storage capacity would impact sample analyses.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$24
	-	24	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

1002 – NPDES Program

This item is to provide funding for rehabilitation of equipment, facilities, and computer software used by the staff for compliance with National Pollutant Discharge Elimination System (NPDES) Program. This NPDES program is required by the United States Environmental Protection Agency (EPA).

Some of the project highlights include but are not limited to:

PROJECT INFORMATION				
Project Title:	Contingency Funds			
ICIP Project No.:		Priority:	1	Department:
				NPDES Program

PROJECT DESCRIPTION AND SCOPE
Rehab or replacement of auto samplers, LINKO software upgrades, and field tablets/software.

OPERATIONAL IMPACT
No O&M impact. Rehab/replacement allows Compliance personnel to perform their daily tasks in support of Distribution, GW, SWRP and SJCWTP Operations.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	10	10	10	10	10	
FY29	FY30	FY31	FY32	FY33	\$100	
	10	10	10	10	10	

PROJECT INFORMATION					
Project Title:	ISCO 4700 Permanent Auto Sampler - 5 units				
ICIP Project No.:		Priority:	2	Department:	NPDES Program

PROJECT DESCRIPTION AND SCOPE

ISCO 4700 units are all over 6 years old in 2022 and should be replaced by ISCO 5800 in 2024.

OPERATIONAL IMPACT

Compliance samplers work to fulfill monitoring requirements of the NPDES permit and must be available or we will violate our permit.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	40	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$40

PROJECT INFORMATION					
Project Title:	Hach AS950 Permanent Auto Sampler - 5 units				
ICIP Project No.:		Priority:	3	Department:	NPDES Program

PROJECT DESCRIPTION AND SCOPE

This unit is used for compliance sampling every day and must be replaced with an ISCO in 5 years. HACH is no longer used by NPDES.

OPERATIONAL IMPACT

Compliance samplers work to fulfill monitoring requirements of the NPDES permit and must be available or we will violate our permit.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	35	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$35

PROJECT INFORMATION					
Project Title:	Hire an on-call engineering firm to perform a feasibility study to have permanent pH monitoring station around the plant (early warning system).				
ICIP Project No.:		Priority:	4	Department:	NPDES Program

PROJECT DESCRIPTION AND SCOPE

This project will allow PT to discern which interceptor is carrying abnormal pH flows.

OPERATIONAL IMPACT

The plant continues to see abnormal pH flows and could risk a plant upset.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	35	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$35

PROJECT INFORMATION					
Project Title:	Phase 2: Design minimum 4 pH and Flow monitoring stations.				
ICIP Project No.:		Priority:	5	Department:	NPDES Program

PROJECT DESCRIPTION AND SCOPE

To design 4 monitoring stations around the plant to better protect the plant from illicit discharges.

OPERATIONAL IMPACT

Currently when we get overwhelmed with a pH exceedance at the head of the wastewater plant, we do not know which interceptor it is coming from and investigation takes a long time. Monitoring stations will allow faster determination of where the problem is coming from.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	100	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$100

1003 – Water Quality Program

This item is to provide funding for renewal of equipment used by staff in the Drinking Water Quality Program.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE
Rehab or replacement of YSI multimeters, radiometers, glassware washers, turbidimeters, and field tablets/laptops.

OPERATIONAL IMPACT
Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations. No O&M Impact.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	5	5	5	5	5	
FY29	FY30	FY31	FY32	FY33	\$50	
	5	5	5	5	5	

PROJECT INFORMATION					
Project Title:	Replace and/or install new water quality sample hydrants. Installations will be completed by Field-Distribution at Compliance-Water Quality request.				
ICIP Project No.:		Priority:	2	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE

Water Quality sampling is a Federal and State requirement based on the Water Authority's approved sampling plan. Providing safe and clean water supports the Water Authority Vision and Mission Statements.

OPERATIONAL IMPACT

Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations. No O&M Impact.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	80	80	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$160

PROJECT INFORMATION					
Project Title:	YSI Sonde (YSI XL-600)				
ICIP Project No.:		Priority:	3	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE

1999 and 2010 Sondes needs to be replaced ASAP.

OPERATIONAL IMPACT

Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	26	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$26

PROJECT INFORMATION					
Project Title:	Malvern Analytical (Zeta)				
ICIP Project No.:		Priority:	4	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE
2009 currently working fine, but needs to be replaced due to age.

OPERATIONAL IMPACT
Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations.

CAPITAL COSTS							
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	24	-	-	-	-		\$24
	FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-		

PROJECT INFORMATION					
Project Title:	YSI Sonde (EXO 2)				
ICIP Project No.:		Priority:	5	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE
2015 will need to be replaced in year 2025.

OPERATIONAL IMPACT
Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations.

CAPITAL COSTS							
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL	
(x \$1,000)	-	13	-	-	-		\$13
	FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-		

PROJECT INFORMATION					
Project Title:	Hach (DR5000 Manganese)				
ICIP Project No.:		Priority:	6	Department:	Water Quality

PROJECT DESCRIPTION AND SCOPE

The 2006-2007 device needs to be replaced ASAP. The data is no longer reliable due to EOL.

OPERATIONAL IMPACT

Rehab/replacement allows Compliance personnel to monitor the drinking water system for compliance with state and federal drinking water quality regulations.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$14
	-	14	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

CATEGORY 1100



Shared Renewal



1101 – Shared Renewal

The El Pueblo Ferrous/Ferric Transfer Station (Station 70) is shared by the Field and Plant Divisions. Train rail cars of ferric chloride are unloaded at this facility. From here the chemical is transferred to the San Juan Chama Water Treatment Plant, College Arsenic Removal Treatment Plant, and used for odor control. Numerous deficiencies at this facility have posed safety risks to Water Authority employees and potentially the public.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Shared Renewal

PROJECT DESCRIPTION AND SCOPE
Continuing improvements at Station 70 are needed to maintain safety and operation of chemical storage/piping systems.

OPERATIONAL IMPACT
Proactive repairs reduce O&M labor/costs and ensure effective SJCWTP water treatment as well as Odor Control in the Collections system.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$250
	25	25	25	25	25	
	FY29	FY30	FY31	FY32	FY33	
	25	25	25	25	25	

1107 - -Leak Detection Equipment

This item is to provide funding for renewal of equipment used by Leak Detection staff to identify the location of leaks in the water distribution system. Leak Detection supports the Water Conservation Program (reduces Non-Revenue Water Loss) as well as Water Distribution crews to pinpoint leaks for necessary repairs.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Shared Renewal - Leak Detection

PROJECT DESCRIPTION AND SCOPE
Rehab or replacement of leak detection equipment (hand-held acoustic sensors, ground microphones, and correlator units) for leak locating.

OPERATIONAL IMPACT
No O&M impact. Rehab/replacement allows Leak Detection personnel to detect leaks, thereby reducing Non-Revenue Water Loss, and assisting with faster repair of leaking distribution pipes.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$150
	15	15	15	15	15	
	FY29	FY30	FY31	FY32	FY33	
	15	15	15	15	15	

1109 – SCADA Master Plan Projects

The Scada Master Plan Project is to provide upgrade and renewal to the SCADA systems that are used to facilitate the operations of the Water and Wastewater systems.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	LT1/1A - SWRP Collections/Stormwater PLC Replacement -				
ICIP Project No.:		Priority:	1	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE
<p>Upgrades to the Lift Station/Storm Station remote site PLCs and control architecture are required to maintain operation, since existing PLCs are no longer supported by Mfg. System may experience extended down time because hardware spares cannot be procured (EOL), Telemetry polling times are below industry standard (risk of missing physical intrusion alarms and sewage overflow alarms). Includes SCADA MP projects ST7 (Stormwater and Collections Telemetry Study), LT1 (Collections & Stormwater PLC Upgrades), and LT12 (PLC/RTU Standards Development). This includes the SWRP Telecommunications Tower. This project is part one of three parts of the same SCADA system.</p>

OPERATIONAL IMPACT
<p>Replacing EOL PLCs will provide for a more robust, reliable system with less service interruptions. Renewed telemetry systems at remote Lift Stations and Storm stations are necessary for continued pumping operations. Will result in less required O&M labor/costs due to reduced site visits.</p> <p>SCADA Provides for: 1) Logging of all EPA and State Compliance data (feeds Web Portal report, Hach Reports, Maximo Conditional PMs, Alarm Texting, Engineering Reports, etc.) 2) Disinfection of Potable Water (No boil water notices!), 3) Arsenic Control of Potable Water, 4) Reservoir Level Control, Minimum Fire levels, 5) Waste Odor Control, 6) SWTP and SWRP Treatment Control and Monitoring, 7) Physical Security (Cameras, and Intrusion Alarms) 8) Cybersecurity (Firewall, Virus protection, Monitoring).</p>

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	4,844	1,410	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	
						\$6,254

PROJECT INFORMATION					
Project Title:	LT3 - SWRP DCS HMI Replacement				
ICIP Project No.:		Priority:	2	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

Replacement of antiquated DCS HMI (Human Machine Interface) system at SWRP with Schneider Electric/OASyS SCADA platform (One SCADA across WA). This new SCADA system needs to be in place to communicate with completed Collections upgrade. This project is part two of three parts of the same SCADA system.

OPERATIONAL IMPACT

Additional Costs will be incurred and possible loss of Control and Monitoring: If this system is not available when the Collections upgrade is completed, The Collections system will not be able to communicate with the existing ABB SCADA system. Additional cost will have to be incurred to tie it into the existing system (Spending money on a system that will be demolished).

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	1,977	450	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$2,427

PROJECT INFORMATION					
Project Title:	LT2 - Reclamation DCS - Hardware Upgrade Project is in design phase, construction anticipated to begin in FY2025.				
ICIP Project No.:		Priority:	3	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

Replacement of SWRP antiquated PCU panels with Industry Standard PLCs. This new SCADA system needs to be in place to communicate with completed Collections upgrade. This project is part three of three parts of the same SCADA system.

OPERATIONAL IMPACT

Additional Costs will be incurred and possible loss of Control and Monitoring: If we delay this conversion the PCUs can communicated to the new OASYS SCADA system, but the interface is dependent on ABB custom interface cards (CIUs), the risk is possible system downtime due to hardware failures of this ABB hardware. Additional cost will have to be incurred on the existing ABB system (Spending money on a system that will be decommissioned shortly).

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	931	4,320	6,480	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$11,731

PROJECT INFORMATION					
Project Title:	Program Management				
ICIP Project No.:		Priority:	4	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

EMA program management for the three critical projects at wastewater, in addition to multiple downstream projects.

OPERATIONAL IMPACT

Program Management services benefit the Water Authority by providing construction support, contracts support, budget management, change order management, schedule management, startup coordination, etc.,

CAPITAL COSTS								
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>TOTAL</td> </tr> <tr> <td>\$1,051</td> </tr> </table>	TOTAL	\$1,051
TOTAL								
\$1,051								
	304	270	191	151	135			
	FY29	FY30	FY31	FY32	FY33			
	-	-	-	-	-			

PROJECT INFORMATION					
Project Title:	LT7 - Groundwater/Distribution Telemetry and PLC Upgrade - With External Support				
ICIP Project No.:		Priority:	5	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

Implementation of utility-wide SCADA management system per SCADA Master Plan document (EMA). Includes completion of Short Term and Long Term identified projects.

OPERATIONAL IMPACT

Will facilitate Utility-wide SCADA management and operations from both SWRP and SJCWTP Central Control. Will not impact O&M labor costs within next 5 years, but will ultimately allow for overlap with SJCWTP and SWRP plant personnel, lower overall future operating costs.

CAPITAL COSTS								
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>TOTAL</td> </tr> <tr> <td>\$4,850</td> </tr> </table>	TOTAL	\$4,850
TOTAL								
\$4,850								
	970	970	970	970	970			
	FY29	FY30	FY31	FY32	FY33			
	-	-	-	-	-			

PROJECT INFORMATION					
Project Title:	ST20 - Selection and Implementation of an Electronic Operating Log System				
ICIP Project No.:		Priority:	6	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

Currently operators use written logs in bound logbooks for shift turnover. The logbooks have limited visibility, and the logs are difficult to track and analyze. This project will identify the requirements of the Electronic Operating Log System and then evaluate, select, and implement a suitable system.

OPERATIONAL IMPACT

Utilization of an electronic shift operator log will allow for important information to be stored and shared in a centralized location available to all operators. This will make the records searchable by various methods beyond date and time, such as equipment, operator, priority, or type. This can be especially useful for when an operator has been absent or during a shift change. It is also useful for analysis of issues and to search for previous occurrence of an event.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	111	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$111

PROJECT INFORMATION					
Project Title:	ST23 - SWTP Train Control Project				
ICIP Project No.:		Priority:	7	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

Problems encountered while operating SWTP include interpreting the screens for a train startup. Operators reported a lag of control actions for train control.

OPERATIONAL IMPACT

This project will conduct a review of train controls to ensure that information is clearly conveyed to operators and that the system is more responsive to control actions. There is difficulty with the process train controls at SWTP which controls start-up and shutdown of the process trains.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	53	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$53

PROJECT INFORMATION					
Project Title:	ST14 - SWTP Process Review				
ICIP Project No.:		Priority:	8	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

One of the largest values of the SCADA system is in providing automatic control throughout the SWTP, groundwater, and distribution systems. This project will review the automatic controls in place at the SWTP and determine where improvements are possible.

OPERATIONAL IMPACT

Updated Process Control Narratives (PCNs) will be developed to document automation improvements. It is important to review each process to ensure that the proper control is in place. In addition, it is also important to incorporate setpoint input checks into the control narratives. These setpoint input checks will ensure that setpoints are limited to values that will result in proper operation of the processes. This project will not implement the setpoint inputs but will capture the appropriate ranges for future implementation. Additionally, it is important to provide the flexibility for operator process adjustments within a range that allows for changing process conditions. Without the ability to adjust setpoints, operators may set a process to manual to attain the flexibility.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	71	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$71

PROJECT INFORMATION				
Project Title:	LT5 - Alarm Management Program			
ICIP Project No.:		Priority:	9	Department:
				SCADA

PROJECT DESCRIPTION AND SCOPE

The Water SCADA system and Water Reclamation DCS system appear to have a significant number of nuisance alarms. In the limited time spent observing the control room operators, many alarms were present on both systems.

OPERATIONAL IMPACT

Improving control system alarm management reduces operator overload and helps them achieve operating goals. This project will develop alarm philosophy and develop standards for creating and managing the alarm process so that important notifications requiring operator actions are given in an intelligent manner and logging and notification processes provides information to others in the organization and can be used to allow analysis of operations.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	91	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$91

PROJECT INFORMATION				
Project Title:	LT13 - Backup Monitoring Location			
ICIP Project No.:		Priority:	10	Department:
				SCADA

PROJECT DESCRIPTION AND SCOPE

Groundwater and Water Distribution are currently controlled from the SCADA system in the SWTP Control Room. If a catastrophic event took place which disabled the control room workstations, the ability to control the systems from SCADA would be lost.

OPERATIONAL IMPACT

Implementing a backup monitoring / control location for Groundwater / Distribution sites will enable control from SCADA in the event of a catastrophic event at the SWTP control room.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	102	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$102

PROJECT INFORMATION					
Project Title:	ST15 - SCADA Disaster Recovery Plan				
ICIP Project No.:		Priority:	11	Department:	SCADA

PROJECT DESCRIPTION AND SCOPE

This project will develop a SCADA disaster recovery plan and explore options to restore systems including the HMIs, PLCs, communications, and other SCADA system components. There is a present risk that in the event of a disaster that causes the loss of the SCADA systems, it could take significant time to restore full functionality. This could require manual operation of the plants and systems. The Reclamation DCS has no automatic backup capabilities. Many of the collection system’s PLCs will completely lose their program in the event of a power loss. Some PLCs currently in the system do have limited ability to retain their program after a power loss that rely on small batteries which require frequent replacement.

OPERATIONAL IMPACT

Automatic backup procedures will provide the ability for the SCADA System and PLCs to be restored quickly. It is important to ensure that any loss of information can be restored quickly to maintain continued operation of the system and meet the Water Authority’s objectives.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$58
	-	58	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

CATEGORY 1200



Franchise Agreement Compliance



1201 – Franchise Agreement Compliance

This item is to provide funding for compliance with the ABCWUA Franchise Ordinance between the City of Albuquerque/Bernalillo County and the Water Authority within the municipal limits of the service area. This decade plan item is for relocating water and sanitary sewer pipelines.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Centralized Engineering

PROJECT DESCRIPTION AND SCOPE
Relocation of water and sewer infrastructure (WLs, SAS lines, MHs, Valves, etc.) as needed in City/County rights-of-way for completion of City/County projects, per WUA Franchise Agreements with the City/County.

OPERATIONAL IMPACT
No O&M cost impact. Depending on project, some operational benefit can occur as a result of rehab/replacement of water/sewer infrastructure to facilitate City/County projects.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	3,250	3,000	3,000	3,000	3,000	
	FY29	FY30	FY31	FY32	FY33	
	3,000	3,000	3,250	3,500	3,500	\$31,500

1202 – Franchise Agreement Compliance: MH & Valve Box Adjustments

This item is to provide funding for compliance with the ABCWUA Franchise Ordinance between the City of Albuquerque and the Water Authority within the municipal limits of the service area. This Decade Plan line item provides reimbursement funding associated with adjusting the height of manholes and valve boxes as part of City Street resurfacing projects.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Centralized Engineering

PROJECT DESCRIPTION AND SCOPE
Adjustment to MHs/collars and Valve Boxes/collars following City/County/NMDOT street resurfacing projects.

OPERATIONAL IMPACT
No O&M cost impact.

CAPITAL COSTS							
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28		
	750	750	750	750	750		
	FY29	FY30	FY31	FY32	FY33		
	750	750	750	750	750		
						TOTAL	
						\$7,500	

CATEGORY 1300



Fleet Vehicle & Equipment
Replacement



1300 – Fleet Vehicle & Heavy Equipment Replacement

This item is to provide funding for fleet vehicles and heavy equipment replacements. The Water Authority is dependent upon reliable transportation and heavy equipment to execute its mission and operational level of service to its ratepayers and the community.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Fleet Vehicle & Equipment Replacement				
ICIP Project No.:		Priority:	1	Department:	Fleet

PROJECT DESCRIPTION AND SCOPE
Replacement of vehicles and heavy equipment due to aging and condition of asset.

OPERATIONAL IMPACT
Minimize maintenance cost and increase dependability.

CAPITAL COSTS							
Fiscal Year <small>(x \$1,000)</small>	FY24	FY25	FY26	FY27	FY28		
	2,500	2,500	2,500	2,000	2,500		
	FY29	FY30	FY31	FY32	FY33		
	3,000	4,000	4,000	4,000	4,000		
						TOTAL	
						\$31,000	



Water 2120 Projects

CATEGORY 8000



Water 2120 Projects



8000 – Water 2120 Projects

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Abiquiu Living, Inc.				
ICIP Project No.:		Priority:	1	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE
Real Estate Broker Services

OPERATIONAL IMPACT
Negotiate mutually accepted terms for the grant of easements from property owners in the Abiquiu area.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	35	35	35	-	-	
FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-	\$105

PROJECT INFORMATION					
Project Title:	Abiquiu Easement purchase for increased storage capacity				
ICIP Project No.:		Priority:	2	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE
Purchase of easements to raise water level by 10 feet and increase storage capacity.

OPERATIONAL IMPACT
No operational impact.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	250	-	-	-	-	
FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-	\$250

PROJECT INFORMATION					
Project Title:	Additional Aquifer Storage and Recovery Well (ASR)				
ICIP Project No.:		Priority:	3	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE

Includes shared infrastructure for IDPR, capacity is new supply, an additional 3,000 is developed to replace NI-25 capacity.

OPERATIONAL IMPACT

Installation of new ASR well will require additional time/labor/manpower for maintenance and operation of ASR well (FTEs TBD).

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	701	701	701	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$2,103

PROJECT INFORMATION					
Project Title:	South to North Reuse Pipeline				
ICIP Project No.:		Priority:	4	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE

Connect the Northside I-25 Reuse to the Southside Reuse including additional eastside reuse sites (2035).

OPERATIONAL IMPACT

Installation of new S-N Reuse Pipeline will require additional time/labor/manpower for O&M.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	701	701	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,402

PROJECT INFORMATION					
Project Title:	Bosque Non-potable Water Reclamation Plant and Reuse System				
ICIP Project No.:		Priority:	5	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE

The Water Authority has secured the land for the construction and operation of the new wastewater treatment plant and has also completed the feasibility study required by the Bureau of Reclamation under the Title XVI requirements. The feasibility study was approved by the Bureau of Reclamation and is eligible to move forward towards NEPA with this authorization.

OPERATIONAL IMPACT

The Bosque project would provide non-potable water for industrial purposes and irrigation needs to parks, schools, and golf courses. Also, the project will provide 3 to 5 million gallons per day (3,000 – 7,000 acre-feet per year) of non-potable reuse water for the westside of Albuquerque including parks, golf courses and potentially for industrial uses.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$150,646
	565	565	1,566	11,950	12,000	
	FY29	FY30	FY31	FY32	FY33	
	14,000	80,000	10,000	10,000	10,000	

PROJECT INFORMATION					
Project Title:	Contingency				
ICIP Project No.:		Priority:	6	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE

Contingency funds for unplanned emergencies that are a necessity.

OPERATIONAL IMPACT

Proactive measures reduce O&M labor/costs, maintain WQ criteria and potable treatment limits, and ensure potable water availability to ratepayers.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$450
	150	300	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Non-Functional Turf				
ICIP Project No.:		Priority:	7	Department:	Water 2120

PROJECT DESCRIPTION AND SCOPE

Over the past two decades, the Colorado River basin has experienced the worst drought in the last 1,200 years, which has reduced flows in the Colorado River basin and reservoirs to unprecedented and critical levels. The Water Authority has entered into a Memorandum of Understanding with other Colorado River Basin Municipal and Public Water providers committing to further reduce demands. One of the actions includes the initiation of a program to reduce the quantity of non-functional turf grass by 30% through replacement with drought- and climate-resilient landscaping while maintaining vital urban landscapes and tree canopies that benefit our communities, wildlife, and the environment. A strategic plan is needed to define a method, identify mechanisms and create a guiding direction for implementing the non-functional turf project.

OPERATIONAL IMPACT

A key element of WATER 2120 is the new water conservation goal of 110 gallons per capita per day (GPCD) by 2037. To achieve this new conservation goal, the Water Authority is focusing on outdoor (consumptive use) savings over indoor (non-consumptive use) savings, because as the climate changes, the demand for outdoor water use will likely increase and because outdoor water use is consumptive there is not an opportunity for reuse or return flow credit. Removing 30% of nonfunctional turf in our service area will help us advance our conservation goal. High-water use turf to xeriscape conversions can reduce landscape demand by 35% or 65 gallons per sq. ft. The non-functional turf strategic plan will create a committee to define functional and non-functional turf. The strategic plan will include recommendations on exceptions for customers, policies, and targeted promotion ideas. The plan will also include goals and objectives for accomplishing a 30% reduction, a cost-savings analysis, and a framework to work with various customer classes in seeking reductions.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	-	100	100	50	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$250



Special Projects

CATEGORY 9400



Special Projects



9401 – Steel Water Lines

This program provides funding for evaluation, planning, design, construction, and related activity necessary for the rehabilitation or replacement of steel water lines which tend to be the oldest water lines in the system and typically past their useful life.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Annual Steel Water Line Replacement				
ICIP Project No.:		Priority:	1	Department:	Special Projects

PROJECT DESCRIPTION AND SCOPE
Steel line leakage is highly problematic, with water waste and repeated repairs causing disruption of service and traffic. Undetected leakage can be catastrophic: a sinkhole can destroy an entire roadway segment. Or a leak can surface as a geyser, with resulting projectiles causing extensive damage and/or threat to life. Finding the lines that have the highest leak potential and replacing them prior to catastrophic failure is essential to reducing the Authority's exposure to life- and property-threatening risk.

OPERATIONAL IMPACT
The current rate ordinance requires \$1M annually for the replacement of aging steel pipe. The rehabilitation or replacement of steel water lines will reduce water revenue loss and customer service levels.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$18,000
	-	2,000	2,000	2,000	2,000	
	FY29	FY30	FY31	FY32	FY33	
	2,000	2,000	2,000	2,000	2,000	

PROJECT INFORMATION					
Project Title:	FY23 Steel WL Package 1 - Abq. Country Club (Smith)				
ICIP Project No.:		Priority:	2	Department:	Special Projects
PROJECT DESCRIPTION AND SCOPE					
Replacement of 8,400 LF of 4", 6", and 10" Steel WL in Abq CC area.					
OPERATIONAL IMPACT					
Replacement of high-risk pipe directly reduces repair requirements for Distribution. Overall ABCWUA budget benefit for planned rehab vs. emergency (significantly lower cost).					

CAPITAL COSTS								
Fiscal Year	FY24	FY25	FY26	FY27	FY28	<table border="1"> <tr> <td>TOTAL</td> </tr> <tr> <td>\$2,000</td> </tr> </table>	TOTAL	\$2,000
TOTAL								
\$2,000								
(x \$1,000)	2,000	-	-	-	-			
	FY29	FY30	FY31	FY32	FY33			
	-	-	-	-	-			

9403 – AMI Meter

This project provides funding for the planning, design, engineering services, construction, contract services, equipment, and related activities necessary to provide Advanced Metering Infrastructure (AMI) throughout the water service area, including meter replacements, as appropriate.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	AMI Meter Infrastructure				
ICIP Project No.:		Priority:	1	Department:	Special Projects

PROJECT DESCRIPTION AND SCOPE
Rate Ordinance requires funding of \$1M annually.

OPERATIONAL IMPACT
Reduced injury, increased meter and billing accuracy, water conservation, customer-side leak detection, modelling improvements.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	1,000	1,000	1,000	1,000	1,000	
FY29	FY30	FY31	FY32	FY33		
	1,000	1,000	1,000	1,000	1,000	\$10,000

9404 – Renewable Energy Projects

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Renewable Energy				
ICIP Project No.:		Priority:	1	Department:	Special Projects

PROJECT DESCRIPTION AND SCOPE
The Water Authority needs to become less reliant upon non-renewable energy supplies such as fossil fuel generated electricity and natural gas. The Water Authority has installed solar arrays at the Southside Water Reclamation Plant (SWRP) and more recently at the San Juan Chama Water Treatment Plant to generate electricity.

OPERATIONAL IMPACT
Optimization including expanding the existing biogas production at the SWRP and replacing high wattage lighting with energy efficient light emitting diodes (LED) at Authority. O & M energy expense will reduce overtime.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	350	350	250	250	250	
FY29	FY30	FY31	FY32	FY33		
	350	350	350	350	350	\$3,200

9436 – Mission Site Renewal

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Mission Site Improvements - Design & Construction Phasing				
ICIP Project No.:		Priority:	1	Department:	Special Projects

PROJECT DESCRIPTION AND SCOPE
<p>Vulcan's lease on the 50-acre parcel at the southwest corner of Chappell and Singer NE has ended. The Water Authority has developed a plan for the site with near-term and long-term improvements.</p> <p>Prior to constructing improvements, the site will need to be graded to establish developable property. Near-term improvements consist of a relocated dirt processing facility ("stockpile"), compost sales, landscape material storage for restoration of customer property, scale/weigh house, and several storage buildings for salt, chemicals, infrastructure repair materials and weather sensitive vehicles. Long term improvements consist of an advanced treatment plan to treat reuse water from the north-south reuse line. This project will plan, design and construct the site and facilities in multiple phases. This advanced treatment component of this project aligns with Water 2120 goals.</p> <p>The stockpile component will locate the dirt processing operations in a more industrial setting resulting in less concerns for adjacent neighbors. The vehicle storage will protect weather sensitive equipment (e.g., NO-DES, water truck, street sweeper) from freezing thereby extending the life of the equipment, the need to winterize and the associated maintenance costs. The various buildings will provide a secure and centralized location for storing materials for the operation of the water system. The compost sales will provide a more convenient location for the public to purchase compost. The scale/weigh house facilitates compost sales and also ensures that dump trucks are loaded to DOT specifications prior to entering public roadways.</p>

OPERATIONAL IMPACT
<p>This advanced treatment component of this project aligns with Water 2120 goals. The stockpile component will locate the dirt processing operations in a more industrial setting resulting in less concerns for adjacent neighbors. The vehicle storage will protect weather sensitive equipment (e.g., NO-DES, water truck, street sweeper) from freezing thereby extending the life of the equipment, the need to winterize and the associated maintenance costs. The various buildings will provide a secure and centralized location for storing materials for the operation of the water system. The compost sales will provide a more convenient location for the public to purchase compost. The scale/weigh house facilitates compost sales and also ensures that dump trucks are loaded to DOT specifications prior to entering public roadways.</p>

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	5,000	5,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$10,000



Growth Projects



Land and Easement Acquisition



2401 – Land and Easement Acquisition

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Land acquisition and/or easement				
ICIP Project No.:		Priority:	1	Department:	Growth Projects

PROJECT DESCRIPTION AND SCOPE
Land acquisitions are necessary for future Water and Wastewater facilities. New reservoirs and satellite treatment facilities such as Bosque Reuse and Mesa Del Sol treatment plants may require land purchases to site the facility. Additional buffer property around the Southside Reclamation Plant has also been considered to further reduce odor complaints by the Mountain View neighborhood.

OPERATIONAL IMPACT
Improve land and/or easement access to future Water Authority sites.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$100
	10	10	10	10	10	
	FY29	FY30	FY31	FY32	FY33	
	10	10	10	10	10	



Development Agreement UEC
Reimbursements

2701 – Development Agreements & UEC Reimbursements

Provides reimbursement of developer expenses to construct major facilities as the capacity of those facilities is utilized by development.

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Developer Agreement Reimbursements				
ICIP Project No.:		Priority:	1	Department:	Growth Projects

PROJECT DESCRIPTION AND SCOPE
In accordance with sound utility practice, the Authority requires developers of new service into undeveloped areas to construct the necessary major facilities. We then agree to reimburse the developer using funds from utility expansion charges as connections are made to those facilities.

OPERATIONAL IMPACT
Developers (not the rate payers) assume the market risk for constructing major new facilities.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$10,750
	500	500	1,000	1,250	1,250	
	FY29	FY30	FY31	FY32	FY33	
	1,250	1,250	1,250	1,250	1,250	



Information Technologies (MIS/GIS)

CATEGORY 2800



2801 – Information Technologies (MIS/GIS)

Some of the project highlights include but are not limited to:

PROJECT INFORMATION					
Project Title:	Contingency Funds				
ICIP Project No.:		Priority:	1	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Unanticipated IT equipment/software upgrades, licenses, or replacements.

OPERATIONAL IMPACT
Requirements to maintain existing IT functionality, operability, and security.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	200	200	200	250	250	
FY29	FY30	FY31	FY32	FY33		
	250	250	250	250	250	\$2,350

PROJECT INFORMATION					
Project Title:	P/S City Hall Core Upgrade/repurpose to SJTP				
ICIP Project No.:		Priority:	2	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
City Hall core is currently 10 years old and coming to end of life.

OPERATIONAL IMPACT
Core Upgrade will allow ABCWUA to move to 40G uplinks and refresh EOL equipment.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	50	-	-	-	-	
FY29	FY30	FY31	FY32	FY33		
	-	-	-	-	-	\$50

PROJECT INFORMATION					
Project Title:	Cisco Tetration				
ICIP Project No.:		Priority:	3	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Add micro segmentation software to the remainder of our servers and infrastructure including cloud/SAAS.

OPERATIONAL IMPACT

Add Tetration/micro segmentation to all servers- improves our security profile.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	418	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$418

PROJECT INFORMATION					
Project Title:	SJTP DR Core Upgrade				
ICIP Project No.:		Priority:	4	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

SJTP DR core is currently 10 years old and coming to end of life.

OPERATIONAL IMPACT

SJTP DR Core Upgrade will allow ABCWUA to move to 40G uplinks and refresh EOL equipment.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	200	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	200	-	-	-	\$400

PROJECT INFORMATION					
Project Title:	ABCWUA Phone/Conference Room Upgrades				
ICIP Project No.:		Priority:	5	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Existing VoIP phones are end of life and need to be replaced.

OPERATIONAL IMPACT

VoIP Phones will be upgraded to support any future software upgrades.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	50	50	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	50	-	-	-	\$150

PROJECT INFORMATION					
Project Title:	Server replacement				
ICIP Project No.:		Priority:	6	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Infrastructure/Hardware replacement as servers become older and end of life.

OPERATIONAL IMPACT

Operational impact is that critical services and applications would be unavailable to users.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	200	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	500	-	-	-	\$700

PROJECT INFORMATION					
Project Title:	Lead/Copper EPA mandate				
ICIP Project No.:		Priority:	7	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Mandate is required by the EPA.

OPERATIONAL IMPACT
Mandate is required by the EPA.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$200
	100	100	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

PROJECT INFORMATION					
Project Title:	Upgrade CC&B				
ICIP Project No.:		Priority:	8	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Upgrade from v 2.6 to 2.9 for EOL purposes.

OPERATIONAL IMPACT
New Features, improved functionality and will alleviate security vulnerabilities.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$6,240
	1,250	1,250	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	2,500	-	-	-	1,240	

PROJECT INFORMATION					
Project Title:	Move applications to the Cloud				
ICIP Project No.:		Priority:	9	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Finance Enterprise and Customer Care and Billing applications.

OPERATIONAL IMPACT
Provides business continuity leveraging cloud/hybrid SAAS based services/applications.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	500	250	1,000	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,750

PROJECT INFORMATION					
Project Title:	Convert Geometric Network to Utility Network** (due by ~2025, Geometric Network being deprecated)				
ICIP Project No.:		Priority:	10	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Used for modelling by Utility Development Group, Water Quality and Reclamation to understand hydraulics of systems and other features.

OPERATIONAL IMPACT
Utility Network greatly expands how assets can be modeled and includes many new improved features.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	400	250	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$650

PROJECT INFORMATION					
Project Title:	Image Repository Replacement				
ICIP Project No.:		Priority:	11	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

We are currently using a custom coded system that is versioned locked. The original programmer is no longer employed at the authority. Even though we have done a great job supporting this and it seems to be a very stable system, eventually it will no longer run as .NET is upgraded.

OPERATIONAL IMPACT

Commercially supported system that will grow and change with the times and as computers and OS change over time.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	100	1,000	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$1,100

PROJECT INFORMATION					
Project Title:	ActiveG Support/Enhancements				
ICIP Project No.:		Priority:	12	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Mobile inspection report, MapEngine upgrade.

OPERATIONAL IMPACT

Provides support and buildout for Mobile workforce solutions.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	50	-	50	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$100

PROJECT INFORMATION					
Project Title:	EZMax Mobile 6.x Upgrade				
ICIP Project No.:		Priority:	13	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Upgrade to stay on current software releases.

OPERATIONAL IMPACT
Mobility standardization for waterlines, large meters, and meter changeout program.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	100	-	100	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$200

PROJECT INFORMATION					
Project Title:	Interpro - General bucket for EZMaxMobile Development				
ICIP Project No.:		Priority:	14	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE
Professional services for EzMax enhancements.

OPERATIONAL IMPACT
Operational impact is staff cannot process work orders and capture critical data in the field.

CAPITAL COSTS						
Fiscal Year	FY24	FY25	FY26	FY27	FY28	TOTAL
(x \$1,000)	200	-	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$200

PROJECT INFORMATION					
Project Title:	Maximo User Licenses for EMAX mobile users				
ICIP Project No.:		Priority:	15	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Standardization with mobile workforce to EzMax and Compliance work.

OPERATIONAL IMPACT

Standardization of MWFM, compliance work order tracking enhancements.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	50	-	-	100	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	\$150

PROJECT INFORMATION					
Project Title:	Managed Services - Security Vulnerabilities				
ICIP Project No.:		Priority:	16	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Security vulnerabilities can expose the organizations data, subjecting them to malware and ransomware attacks.

OPERATIONAL IMPACT

Alleviate organizations risk to malware and ransomware attacks.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL
	-	100	100	150	150	
	FY29	FY30	FY31	FY32	FY33	
	200	200	200	200	200	\$1,500

PROJECT INFORMATION					
Project Title:	Storage Replacement				
ICIP Project No.:		Priority:	17	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Netapp is currently used as the back-end storage for file and database. Netapp is approaching EOL so a replacement storage solution or cloud-based solution is necessary.

OPERATIONAL IMPACT

Operational impact is that critical services and applications would be unavailable to users.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,500
	-	500	-	-	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	2,000	-	-	

PROJECT INFORMATION					
Project Title:	EMA -Maximo 8.x Upgrade				
ICIP Project No.:		Priority:	18	Department:	Information Technology

PROJECT DESCRIPTION AND SCOPE

Upgrade to stay on current software releases.

OPERATIONAL IMPACT

New Features, improved functionality and will alleviate security vulnerabilities.

CAPITAL COSTS						
Fiscal Year (x \$1,000)	FY24	FY25	FY26	FY27	FY28	TOTAL \$2,450
	-	200	2,000	250	-	
	FY29	FY30	FY31	FY32	FY33	
	-	-	-	-	-	

APPENDIX A – Grant Funding

Granting Agency	Grant Name	Purpose of Grant	FY22 Budget (000's)	FY23 Budget (000's)	FY24* Budget (000's)
Bernalillo County	American Rescue Plan Act (ARPA) Subaward –Bosque Non-potable Water Reclamation Plant and Reuse System	The planning and design of a new satellite Bosque Water Resource Recovery Facility (WRRF) to treat wastewater for non-potable reuse/irrigation, improve the capacity of the existing downstream Westside Interceptor, and discharge treated water to the Rio Grande to help maintain river flows through the Oxbow section.	\$2,875	\$ -	\$ -
Bernalillo County	ARPA Subaward – Carnuel Sewage Collection System	The acquisition of easement/right-of-way, and construction and engineering services during construction of the Village of Carnuel Wastewater System Expansion Phase I project.	3,845	-	-
Bernalillo County	ARPA Subaward – Kirtland Air Force Base (KAFB) Tijeras Interceptor Rehabilitation	To rehabilitate aging interceptor sewer pipe within the KAFB Property. Funding will be used to for construction and engineering services during construction.	15,000	-	-
Bernalillo County	ARPA Subaward – Metro Detention Center (MDC) Water and Sewer Improvements	The design, easement/right-of-way acquisition, construction, and engineering during construction of a new lift station and force main that will pump sewage from MDC facility on the West Mesa to the existing gravity sewer system located at Atrisco Vista Blvd and I-40/US66.	4,200	-	-
Bernalillo County	ARPA Subaward – Mesa Del Sol Non-potable Reuse Booster Pump Station and Reservoir	The acquisition of land/easement, construction, and engineering services during construction of a new non-potable reuse Pump Station, Reservoir, and Disinfection facility near Mesa Del Sol.	4,896	-	-
Bernalillo County	ARPA Subaward – South Valley Drinking Water Project, Phase 8 and 9	The planning, design, easement/right-of-way acquisition, construction, and engineering services during construction of a portion of the Phase 8 and Phase 9 South Valley Drinking Water Project, which has expanded potable drinking water availability throughout the South Valley of Bernalillo County.	8,000	-	-
Bernalillo County	ARPA Subaward – Volcano Cliffs and Corrales Trunk Reservoir and Transmission Line	The design, easement/right-of-way acquisition, construction, and engineering services during construction of the Volcano Cliffs Arsenic Treatment Facility and associated Pump Station upgrades and a new transmission line that will facilitate increase pumping capacity and potable delivery within and between the Volcano and Corrales transmission line trunks.	15,000	-	-

Granting Agency	Grant Name	Purpose of Grant	FY22 Budget (000's)	FY23 Budget (000's)	FY24* Budget (000's)
Bernalillo County	ARPA Subaward – Carnuel Water System	The design and construction of additional waterline extension to maximize opportunities for additional potable water service connections for the Village of Carnuel	-	1,000	-
Bernalillo County	ARPA Subaward – To'Hajiilee Water Line Extension	The construction of a 7.8-mile, 10-inch gravity transmission line from the 7W Reservoir located on the westside of Bernalillo County to the Well 5 site is required to provide potable water to To'Hajiilee.	-	1,000	-
State of NM Department of Environment (NMED)	Water Authority - Bosque Wastewater Treatment and Discharge System Design	To plan, design, and construct a wastewater treatment and discharge system, including a treatment plant, irrigation and aquifer storage and recovery systems, on the westside of the Rio Grande in Bernalillo County.	410	285	300
NMED	Water Authority – Monitor Well Construction	To plan, design, and construct a ground water monitoring well to monitor ethylene dibromide contamination in the area of KAFB.	770	25	526
NMED	Water Authority – Water and Wastewater System Upgrade	To plan, design, construct, and upgrade water and wastewater systems, including connecting homes to a public sanitary sewer system, in the Carnuel community and Tijeras watershed in Bernalillo County.	155	-	300
NMED	Water Authority – Wastewater Plant Outfall Construction	To plan, design, construct the realignment of the Southside Water Reclamation Plant (SWRP) effluent outfall to the Rio Grande.	323	709	319
New Mexico Finance Authority (NMFA) Water Trust Board (WTB)	Advanced Metering Infrastructure (AMI) Phase 6 (60% Grant/40% Loan, with \$1.2 million match)	The project consists of replacing approximately 18,000 existing water meters with AMI meters and devices and shall include such other related work and revisions necessary to complete the project.	2,000	-	-
NMFA WTB	To'Hajiilee Water Project (90% Grant/10% Loan, with \$3.5 million match)	The project consists of the construction of an approximately 7.7-mile pipeline to To'Hajiilee from the Water Authority's existing storage tanks on the City of Albuquerque's west side and shall include such other related work and revisions necessary to complete the project.	7,708	-	-
NMFA WTB	Advanced Metering Infrastructure (AMI) Phase 7 (90% Grant/10% Loan, with \$1.2 million match)	The project consists of replacing approximately 18,000 existing water meters with AMI meters and devices and shall include such other related work and revisions necessary to complete the project.	-	2,000	-

Granting Agency	Grant Name	Purpose of Grant	FY22 Budget (000's)	FY23 Budget (000's)	FY24* Budget (000's)
NMFA WTB	Volcano Cliffs Arsenic Treatment Facility (90% Grant/10% Loan, with \$10.5 million match)	The project consists of design and construction of new Volcano Cliffs Arsenic Treatment to treat groundwater from the Water Authority Volcano Cliffs and Zamora Wells.	-	7,100	-
NMED	Water Authority – Water Treatment Facility Equipment	The design, easement/right-of-way acquisition, construction, and engineering services during construction of the Volcano Cliffs Arsenic Treatment Facility and associated Pump Station upgrades and a new transmission line that will facilitate increase pumping capacity and potable delivery within and between the Volcano and Corrales transmission line trunks.	-	50	115
NMED	Water Authority – Winrock Site Wastewater Reuse System	To plan, design, construct and equip a wastewater reuse system to provide reclaimed water to the Winrock site and public parks in the City of Albuquerque, NM in Bernalillo County.	-	250**	5,050
NMED	Water Authority – Aquifer Storage and Recovery	To plan, permit, acquire right-of-way and easements, study, design, construct, and equip an aquifer storage and recovery (ASR) facility.	-	-	140
Total Grant Funding:			\$65,182	\$12,419	\$6,750

*The Water Authority Capital Outlay and the activity for those projects are listed. Contracts will be presented separately at a future board meeting.

**Reauthorization by State of NM for the Winrock Site Wastewater Reuse System FY20 \$1,408, FY21 \$1,395, and FY23 \$250 with the extension of time and scope of services.

APPENDIX B – State Infrastructure Capital Improvement Plan (ICIP)

Infrastructure Capital Improvement Plan F2024-2028

Albuquerque Bernalillo County Water Utility Author Project Summary

ID	Year	Rank	Project Title	Category	Funded to date	2024	2025	2026	2027	2028	Total Project Cost	Amount Not Yet Funded	Phases?
37181	2024	001	Bosque Non-potable Water Reclamation Plant & Reuse	Water - Wastewater	4,167,037	3,000,000	3,000,000	3,000,000	3,025,000	300,944,99	317,137,024	312,969,98	Yes
38745	2024	002	South-to-North Reuse Pipeline Project	Water - Wastewater	67,853	3,000,000	5,000,000	7,000,000	7,000,000	8,000,000	30,067,852	30,000,000	Yes
37185	2024	003	Aquifer Storage and Recovery	Water - Water Supply	0	2,000,000	2,000,000	3,850,000	3,850,000	3,850,000	15,550,000	15,550,000	Yes
40045	2024	004	Thomas Wells Arsenic Treatment Plant	Water - Water Supply	0	4,500,000	5,250,000	10,125,000	10,125,000	0	30,000,000	30,000,000	Yes
37183	2024	005	Winrock On-site Resource Recovery Plant	Water - Wastewater	3,536,900	1,500,000	0	0	0	0	5,036,900	1,500,000	No
38727	2024	006	SWRP Outfall Realign	Water - Wastewater	1,031,500	2,000,000	2,238,750	2,238,750	2,000,000	2,000,000	11,509,000	10,477,500	Yes
40032	2024	007	Source Water Protection GWM Well	Water - Other	0	1,000,000	0	0	0	0	1,000,000	1,000,000	No
37187	2024	008	Carnuel Wastewater Improvements Project	Water - Wastewater	4,000,000	2,505,000	2,500,000	2,500,000	2,500,000	2,500,000	16,505,000	12,505,000	Yes

Number of projects:	8											
Grand Totals	Funded to date:	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:	Total Project Cost:	Total Not Yet Funded:				
	12,803,290	19,505,000	19,988,750	28,713,750	28,500,000	317,295,008	426,805,760	414,002,496				

Source: [Local Government Division \(state.nm.us\)](https://www.state.nm.us/local-government)

APPENDIX C – Abbreviations

ABCWUA – Albuquerque Bernalillo County Water Utility Authority

AMI – Automated Meter Infrastructure

AMP – Asset Management Plan

ARPA – American Rescue Plan Act

ASR – Aquifer Storage and Recovery

ATF – Arsenic Treatment Facility

CC&B – Customer Care and Billing

CCTV – Closed Circuit Television

CIP – Capital Improvement Program or Capital Implementation Program

CMOM – Capacity Management Operations & Maintenance Program

CY – Calendar Year

DAF – Dissolved Air Flotation

DOT – Department of Transportation

EPA – Environmental Protection Agency

FM – Force Main

FY – Fiscal Year

GIS – Geographic Information System

GPCD – Gallons per capita per day

GW – Ground Water

HVAC – Heating, Ventilation, and Air Conditioning

ICIP – Infrastructure Capital Improvement Plan

IIP – Integrated Infrastructure Plan

KAFB – Kirtland Air Force Base

LS – Lift Station

MACP – Manhole Assessment Certification Program

MCC – Motor Control Center

MDC – Metropolitan Detention Center

MGD – Million Gallons per Day

MH – Manhole

MIS – Management Information System

NM – New Mexico

NMED – New Mexico Environment Department

NMFA – New Mexico Finance Authority

NMDOT – New Mexico Department of Transportation

NO-DES – Neutral Output Discharge Elimination System

NPDES – National Pollution Discharge Elimination System

NWSA – Northwest Service Area

O&M – Operation and Maintenance

OSHA – Occupational Safety and Health Administration

PCB – Polychlorinated Biphenyls

PDN – Paseo del Norte

PRV – Pressure Reducing Valves

PS – Pump Station

RAMP – Reclamation Asset Management Plan

RAS - Return Activated Sludge

SAF – Soil Amendment Facility

SAS – Sanitary Sewer

SCADA – Supervisory Control and Data Acquisition

SD – Storm Drain

SDF – Solids Dewatering Facility

SJCWTP - San Juan–Chama Water Treatment Plant

SSO – Sanitary Sewer Overflows

SW – Solid Waste

SWRP - Southside Water Reclamation Plant

SWTP – Surface Water Treatment Plant

UEC – Utility Expansion Charge

WL – Water Line

WQ – Water Quality

WRP – Water Reuse Project

WRRF – Water Resources Recovery Facility

WTP – Water Treatment Plant

WW - Wastewater

YR - Year