



# **Tri-County Drinking Water System**

## **Asset Management Plan**

**SUBMITTED BY**

Ontario Clean Water Agency  
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Date: February 7, 2024

Rev: 2

AMP Issue and Revision Record					
Rev. No.	Date	Prepared by:	Reviewed by:	Approved by:	Rev. Description
1	September 26, 2023	Jason Younker, OCWA	Nick Larson, OCWA	Nick Larson, OCWA	Draft
2	February 7, 2024	Jason Younker, OCWA	Nick Larson, OCWA	Nick Larson, OCWA	Final

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# 1 INTRODUCTION

## 1.1 Overview

This Asset Management Plan (AMP) builds a structured relationship between infrastructure spending and asset performance. Periodic (annual) updates ensure it reflects changing circumstances and actively supports infrastructure decision-making processes.

## 1.2 Defining Asset Performance

The definition of Asset Performance is “the ability of an asset to fulfill the organization’s objectives or requirements”.

The performance of an asset directly relates to the level of service it provides:

- An asset in the good performance category is meeting expectations (i.e. providing an appropriate level of service); and
- An asset in the poor performance category is not meeting expectations (i.e. not providing an appropriate level of service), and requires spending to have it meet expectations.

The unique circumstances of each asset establish its performance expectations (i.e., what it is, what it does, what happens if it fails, etc.).

## 1.3 AMP Development Approach

This AMP aligns with the international standard for infrastructure asset management (ISO 55000). The development of this AMP leverages the best available asset and financial information, staff input, subject matter expert professional judgement, and AM best practices, to complete the following steps:

1. Develop a complete listing of infrastructure assets to be included in the AMP.
2. Assess the current performance of the assets based on existing information.
3. Prepare an asset lifecycle management strategy (i.e. spending plan) to achieve desired asset current performance expectations.

## 1.4 Updating the Asset Management Plan

A periodic update to the AMP ensures it reflects the latest information and responds to evolving asset performance expectations. Ideally, this update occurs annually in conjunction with budget processes, or more frequently if required.

## 1.5 Asset Management Plan Scope

This AMP includes all water assets water treatment assets operated by the Ontario Clean Water Agency on behalf of the Tri-County Water Board of Management. Section 2 summarizes the infrastructure portfolio.

## 1.6 Growth Planning

The Tri-County Drinking Water System (DWS) services multiple municipalities as their water source, including West Elgin, Southwest Middlesex, Dutton-Dunwich (partially serviced), Newbury, and Bothwell. As seen in Table 1, the population of the serviced communities has been seeing a slow decline since 1996 with the exception of Dutton-Dunwich, which has seen a marginal increase. Given these trends, it is not expected that there will be a need to increase water supply capacity.

*Table 1: Serviced Municipality Population History*

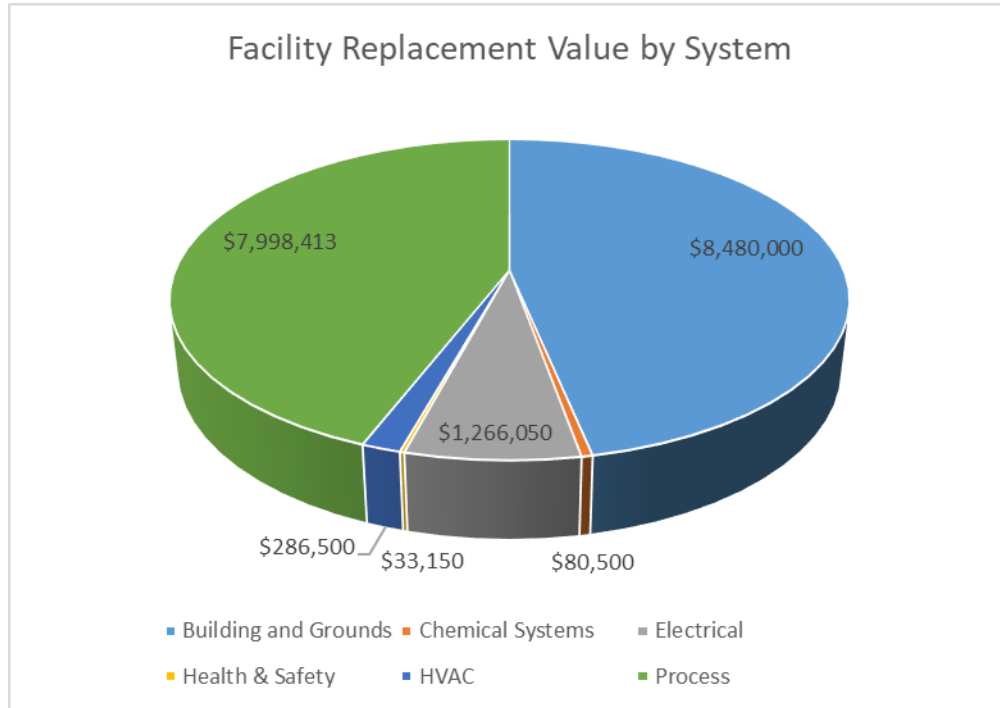
YEAR	SOUTHWEST MIDDLESEX	WEST ELGIN	DUTTON-DUNWICH	NEWBURY	BOTHWELL
1996	6,204	5,573	3,603	419	990
2001	6,144	5,464	3,696	430	1002
2006	5,890	5,349	3,821	422	968
2011	5,860	5,157	3,876	439	912
2016	5,723	4,995	3,866	466	856
2021	5,893	5,060	4,152	440	908

*Population data from Statistics Canada.*

## 2 OVERVIEW OF ASSET PORTFOLIO

The infrastructure portfolio has an estimated replacement value of approximately \$18 million (Figure 1). A detailed asset inventory is available in Appendix C.

*Figure 1: Tricounty Water Infrastructure Portfolio*



*Note: Actual costing values are subject to market forces at the time of infrastructure construction/improvement activity, the above values are based on historical averages and industry standards.*

### 3 ASSET PERFORMANCE ASSESSMENT

#### 3.1 Measuring Asset Performance

Performance assessment information is available from a range of activities and sources. Examples of performance assessment activities include:

- Quarterly, semi-annual or annual visual inspections.
- Contracted technical experts to complete tests, take measurements, etc.
- Performance data from various process instrumentation equipment.

The performance information comes from a variety of sources, ranging from sophisticated technologies to investigate the assets to visual observations from qualified professionals. All asset performance data combines with the professional judgment of subject matter experts to establish the current performance of each asset as defined in Table 2 below.

*Table 2: Asset Performance Rating Descriptions*

PERFORMANCE CATEGORY	DESCRIPTION	STATE OF ASSET
Good	Asset performance meets or exceeds its objectives/requirements.	No Deficiencies
Fair	Asset performance is nearing the point where it will not meet its objectives/requirements.	Has Deficiencies
Poor	Asset performance is not meeting its objectives/requirements.	Requires Treatment (Spending)

#### 3.2 Current Asset Performance

Figure 2 and Table 3 provide the current performance distribution of each asset group. The total replacement cost of the assets in the poor performance category is of approximately \$0.7 million, which represents approximately 4% of the total asset portfolio. Note that the spending required to restore these assets to the good performance category is not equal to the replacement costs, since some assets only require rehabilitation while others require replacement with a more expensive asset.

The performance category of each asset updates on a continual basis to reflect actual spending on assets, new asset data, and changing asset performance objectives or requirements.

Detailed performance metrics are provided in Appendix A.

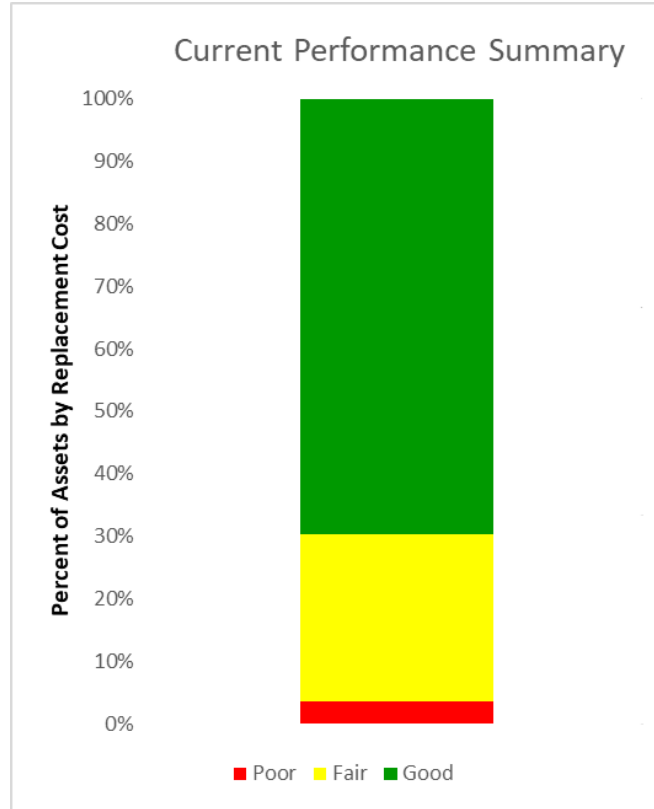


Figure 2: Current Performance Distribution

Table 3: Current Performance by Replacement Value

		Replacement Cost	Category Description
Performance Category	Good	\$ 12,628,077	Asset performance meets or exceeds its objectives/requirements.
	Fair	\$ 4,857,891	Asset performance is nearing the point where it will not meet its
	Poor	\$ 658,645	Asset performance is not meeting its objectives/requirements.
	Total	\$ 18,144,614	



## 4 ASSET LIFECYCLE MANAGEMENT

### 4.1 Asset Lifecycle Activities Overview

Table 4 provides an overview of typical asset lifecycle activities applied to infrastructure systems. The spending forecasts in this section represent a combination of major maintenance, rehabilitation and replacement treatments. Appendix C contains the detailed spending plan.

*Table 4: Typical Asset Lifecycle Activities*

LIFECYCLE ACTIVITY	DESCRIPTION
<b>Operational</b>	Operational activities, routine preventative maintenance, studies on asset performance
<b>(Major) Maintenance</b>	Repairs and component replacement to maintain asset performance, typically costing between 5-10% of asset replacement value.
<b>Rehabilitation</b>	Project to extend asset service life, typically costing between 15% - 40% of asset replacement value.
<b>Replacement</b>	A project resulting in a replacement of an asset with one asset that meets top industry and community expectations.
<b>New Asset</b>	Construction or purchase of new assets that results in net growth of the asset inventory and an enhancement in service levels provided to the community.

### 4.2 Spending Forecast

#### 4.2.1 Approach

The analysis approach involves connecting real planned projects against specific assets where feasible and iteratively adjusting annual spending levels until the forecasted performance distribution will be relatively stable (i.e. the proportion of the asset network in the poor performance category is consistent).

For example, Figure 3 shows a scenario where there is not sufficient spending, resulting in the proportion of assets in the poor performance category increase from 5% in 2021 to 90% in 2040, and a declining trend in the Network Average performance index. This indicates that additional spending is required. Analysis updates continue to achieve a suitable performance forecast.

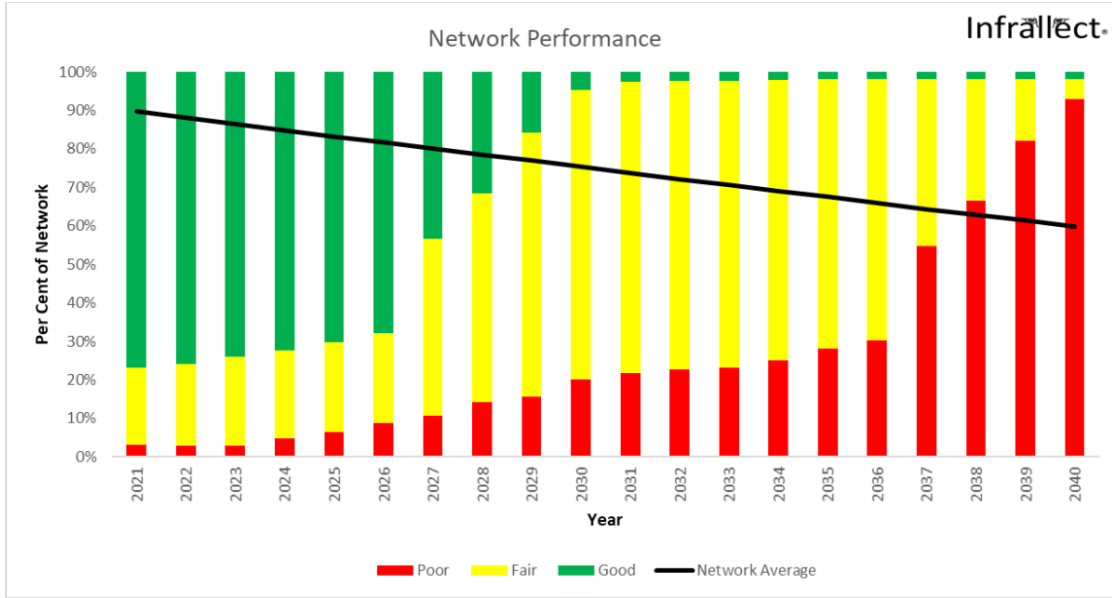
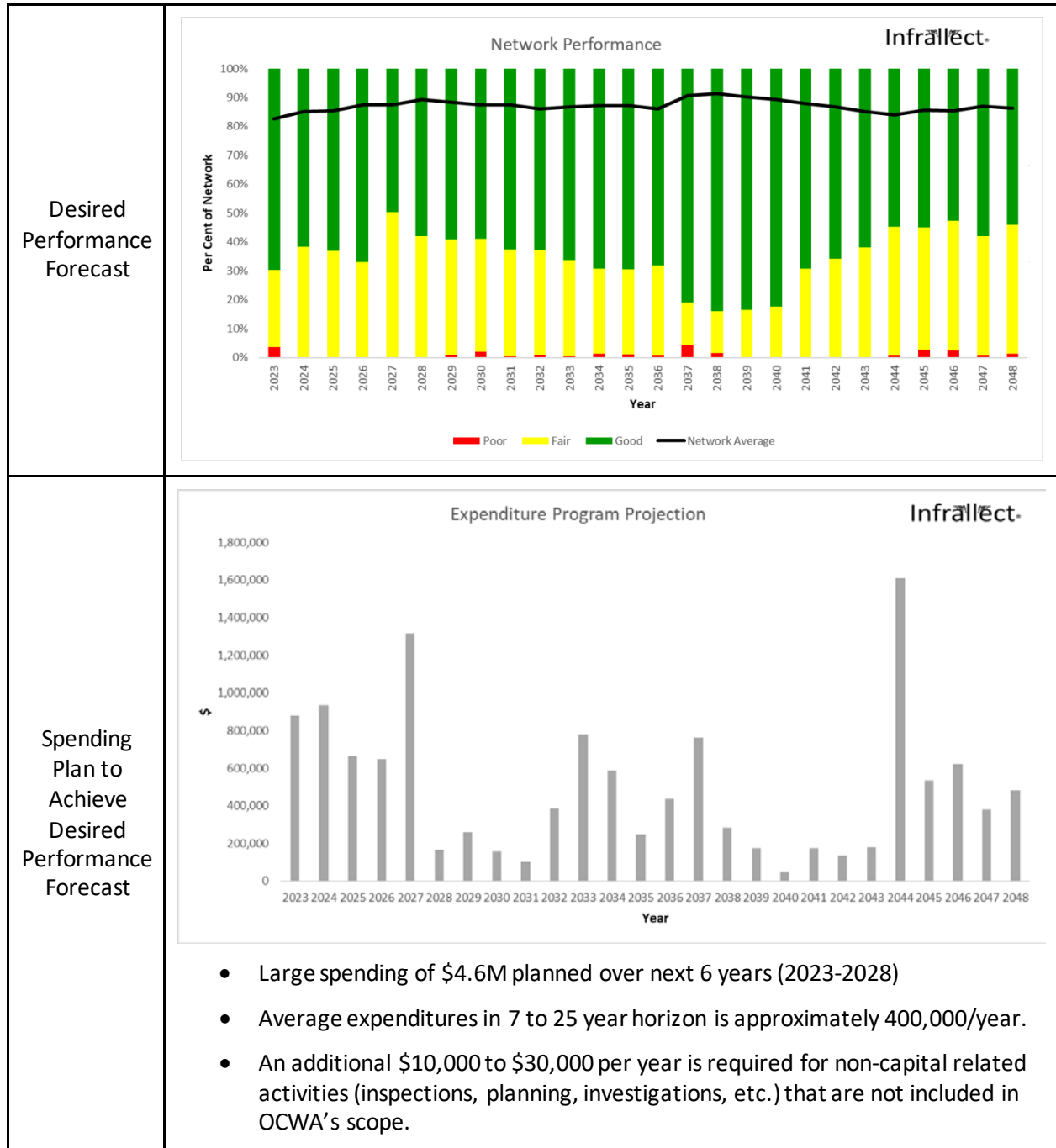


Figure 3: Sample Performance Forecast

#### 4.2.2 Results

Figure 4 provides the performance and spending forecast. Appendix D provides the detailed planned program.

Figure 4: Water Treatment Facility Forecast



### 4.3 Risk Management

The approach to managing risk in this AMP is to consider the overall criticality of each asset related to the role it plays in providing services to the community (by understanding the required performance of each asset based on its location, function, size, etc.). This understanding establishes when an asset is not meeting its objectives or requirements based on the available technical performance indicators and subject matter expert judgement. Assets that are more critical have higher performance expectations, while less critical assets have lower performance expectations.

### 4.4 Managing Climate Change

The expected impacts of climate change have been considered and included throughout the analysis used to inform this AMP. This includes consideration of climate change when establishing the current performance category of an asset, forecasting the deterioration rate of an asset, or establishing the lifecycle activities completed on an asset.

The most prominent climate factor affecting the Boards water infrastructure are prolonged periods of heat or drought. This climate factor can lead to more days of high water demand and reductions to the quantity and/or quality of source water:

- *Climate Effect 1 – Increase Water Demand*

An increase in temperatures will bring about more summer days, which on average have a greater water demand due to recreational and landscaping usage. It is expected in the area of the Tri-County drinking water system that the number of hot (>30 degrees Celsius) summer days will increase by 44% by 2051 (62 -> 89)<sup>1</sup>. The increased demand from the greater period of summer will increase the amount of water treated by the plant and therefore cause a greater amount of equipment wear and deterioration, which will reduce equipment service life and increase plant maintenance and operating costs.

- *Climate Effect 2 – Decrease in Water Quality*

Increased temperatures can lead to higher water temperatures, which can promote the growth of harmful algae blooms and pathogens in freshwater sources. This can result in more contaminants entering water treatment systems, requiring additional treatment processes. Upgrading the water treatment plant would result in a significant one-time capital costs and potential increase in operational and maintenance costs with any new processes.

At this point, these climate factors are not causing any specific performance deficiencies. The Board should continue to monitor the impacts of periods of prolonged heat or drought on the water supply and system demand.

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<sup>1</sup> Canada Climate Atlas, 2003, <https://climateatlas.ca/>

## 5 FINANCING STRATEGY

A number of financing strategies are available to fund the forecasted expenditures. The objective of the Board's financing strategy should be to maximize new assessment growth at the lowest real cost impact to ratepayers (i.e. maximize real revenue growth through expanded customer base and minimize rate increases). This would prioritize the following options:

1. Provincial/Federal Government Grants
2. Internal Financing using Reserves
3. Debt
4. Rate Increases

Future budgets will present the optimal balance of the available financing options to fund the Board's infrastructure program.

## 6 DISCUSSION AND NEXT STEPS

This AMP represents the tactical output of a corporate management system. The corporate management system is the series of interconnected processes that work together to realize value from assets. This AMP uses the best available asset and financial information. The AMP is a living document that requires periodic updates to reflect new information and changing community priorities.

### 6.1 Monitoring Asset Performance

Moving forward, the AMP will be updated on an annual basis. The practical steps to complete this are as follows:

1. Each year, update the asset inventory with the best available asset data. This adds/removes assets as appropriate.
2. Each year, update current asset performance based on the best available information.
3. Each year, update the spending analysis to record completed spending, and to connect planned spending to assets or asset networks.

These three steps enable updates the forecast performance versus spending analysis. Over time, the Board will be able to see connections between the changing performance distribution and annual spending levels. This will increase the confidence of future AMPs.

### 6.2 Roadmap for Enhancing Asset Management Processes

The following points provide a roadmap to enhance asset management planning processes in the Board:

1. Continue to maintain the inventory of all assets owned. Asset inventories should be comprehensive of all assets in an asset network.
2. Continue to strengthen the connection between actual or planned spending and specific assets (or asset networks). This will provide greater line of sight from the current or planned spending and the resulting performance improvement in an asset or asset network.
3. Continue to strengthen the quality of asset-centric performance indicator data that is available to measure the current performance of assets and asset networks.
4. Engage the community to understand their current perspective on the performance of assets and asset networks. This understanding calibrates the current performance of the asset networks and prioritizes the allocation of funding to improve the performance of asset networks relative to community expectations.

**Appendix A - Performance Indicator Tracking**

<b>System</b>	<b>Indicator</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Water Treatment and Distribution	Boil Water Advisory	0	0	0	0	0
	Adverse Water Quality Incident (AWQI)	0	1	0	0	0
	Watermain Breaks	0	0	0	0	0

**Appendix B – Short Term Capital (Major Maintenance) Plan**

**Tri-County Water Treatment**

**(XX-Year Recommended Capital/Major Maintenance Out of Scope from 20XX to 20XX)**

The Ontario Clean Water Agency has identified the following Out of Scope capital projects/major maintenance for your review and approval. The recommendations constitute the projects that Qualified Professionals deem necessary to ensure regulatory compliance or achieve client community objectives. The recommendations are informed by data from OCWA's Work Management

Project No.	Org ID	Facility/System Name	Project Type (drop down list)	Project Name	Relevant Asset ID(s) or Functional Location(s) from WMS	Cost Estimate*						Compliance Impact	DWQMS RA Outcome**	Health & Safety	Repair/Maintenance	Lifecycle Replacement	Improvement	Operational Parts/Materials Inventory/Order Number/RA	Client to Develop into an Expenditure Request	WMS Workorder Number	Scope Summary Comment/Additional Rational/Supporting Information
						2023	2024	2025	2026	2027	2028										
<b>Treatment Plant</b>																					
1	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	Intake Structure Inspection	0000360539				\$10,000	\$0											
2	6634	Tri-County DWS	Out of Scope - Major Maintenance	pH Control System-Operating Costs	0000123769	\$13,000						X									
3	6634	Tri-County DWS	Out of Scope - Capital	SCADA/PLC Upgrades- Based off of 2021 Report	0000315487, 0000360540	\$221,000	\$166,000	\$47,338	\$0	\$0	\$0	X			X						
4	6634	Tri-County DWS	Out of Scope - Capital	Chemical Transfer Pump Replacement	0000123769, 0000123771, 0000164573, 0000164579	\$4,000		\$4,000		\$4,000						X					
5	6634	Tri-County DWS	Out of Scope - Capital	Chlorine/Peroxide Feed Pump Replacement	0000164567, 0000164568, 0000164569, 000015312, 0000164588, 0000164589, 0000123026, 0000164489, 0000164493, 0000164522, 0000164546, 0000164408	\$8,000					\$8,000	X				X					
6	6634	Tri-County DWS	Out of Scope - Capital	Chlorine Analyzer Replacement	000015496, 000015317, 000015316	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500		X			X	X				
7	6634	Tri-County DWS	Out of Scope - Major Maintenance	Chlorine Gas Dosing System	0000164696, 0000164697, 0000164507, 0000164502	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500		X	X	X	X	X	X			
8	6634	Tri-County DWS	Out of Scope - Major Maintenance	UV System	0000164706, 0000164705	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000	\$20,000		X			X	X				
9	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	Storage Tank Inspections	0000164706, 0000164705		\$10,000						X								
10	6634	Tri-County DWS	Out of Scope - Major Maintenance	Storage Tanks Interior re-sealing	0000164706, 0000164705			\$40,000							X						
11	6634	Tri-County DWS	Out of Scope - Capital	Air Manifold Airline and Card replacement	0000315304, 0000315305	\$11,000				\$12,000	\$12,000					X					
12	6634	Tri-County DWS	Out of Scope - Major Maintenance	Naturalized Settling Ponds-Phragmites Control	0000360537	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000					X	X				
13	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	PALL Health Check	0000164643, 0000164644, 0000164651, 0000164658	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000					X	X				
14	6634	Tri-County DWS	Out of Scope - Capital	Replacement of PALL Membranes	0000164643, 0000164644, 0000164651, 0000164658	\$380,000	\$400,000	\$420,000	\$440,000	\$0	\$0		X			X					
15	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	Assets Management Plan		\$15,000															
16	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	Recommendations from "Yellow Water Study"																	
17	6634	Tri-County DWS	Out of Scope - Capital	Replacing SCBA Equipment	0000278217	\$8,000									X	X					
<b>Highlift and Lowlift Pumps &amp; Motors</b>																					
18	6634	Tri-County DWS	Out of Scope - Capital	Lowlift motors: Replacement of Soft Starters with VFD's	0000315326, 0000315319, 0000315327	\$25,000										X	X		X		
19	6634	Tri-County DWS	Out of Scope - Capital	Highlift motors: Replacement of Soft Starters with VFD's	0000315320, 0000315324, 0000315318	\$40,000										X	X		X		
20	6634	Tri-County DWS	Out of Scope - Major Maintenance	Highlift motor/pump rebuild	0000164480, 0000164466, 0000164472, 0000164478, 0000164461, 0000164479, 0000164467, 0000164473				\$15,000	\$15,000			X		X						
21	6634	Tri-County DWS	Out of Scope - Major Maintenance	Lowlift motor/pump rebuild	0000164336, 0000164351, 0000164335, 0000164340, 0000164345, 0000164350				\$20,000	\$20,000			X		X						
<b>Structural (Includes piping/control, PRV's, Valves, Building envelope, HVAC, chambers)</b>																					
22	6634	Tri-County DWS	Out of Scope - Major Maintenance	Raw well maintenance/repairs	0000315499, 0000315500, 0000164409	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000		X			X					
23	6634	Tri-County DWS	Out of Scope - Major Maintenance	HVAC Repairs or Upgrades	0000164678, 0000164679, 0000164682, 0000315311, 0000164671, 0000062770, 0000062835, 0000164435, 0000062795, 0000062705, 0000062884, 0000062797, 0000062798, 0000062710, 0000062678, 0000062680, 0000062679, 0000062796, 0000062728, 0000164341, 0000315307, 0000164438, 0000164442, 0000164693, 0000164685	\$5,000		\$5,000		\$75,000					X	X					
24	6634	Tri-County DWS	Out of Scope - Major Maintenance	Settling Tank Clean Outs		\$15,000			\$15,000			X									
25	6634	Tri-County DWS	Out of Scope - Capital	Lowlift and Associated Building Repairs Fund (IRC BCA Recommendations)			\$201,278	\$15,489	\$92,318	\$71,426	\$15,549				X	X	X	X		X	
26	6634	Tri-County DWS	Out of Scope - Capital	WTP Building Fund (IRC BCA Recommendations)		\$9,898	\$26,593	\$70,598	\$44,481	\$11,391	\$2,520				X	X	X	X		X	
27	6634	Tri-County DWS	Out of Scope - Capital	Charge Header: Repair/Replace failing stainless steel piping	0000360535	\$50,000	\$50,000						X			X	X	X			
<b>Standpipe, Transmission Main, Remote Chambers</b>																					
28	6634	Tri-County DWS	Out of Scope - Capital	West Lorne Standpipe Refurbishment/Repainting	0000164711					\$1,000,000						X	X				
29	6634	Tri-County DWS	Out of Scope - Major Maintenance	Remote Chamber Refurbishment		\$30,000	\$30,000									X	X	X			
30	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	West Lorne Standpipe Inspection	0000164711			\$12,000				X	X								
31	6634	Tri-County DWS	Out of Scope - Major Maintenance	UPS Replacement	0000062779, 0000062685, 0000315494	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500					X					
<b>Operations and Maintenance Contingency</b>																					
32	6634	Tri-County DWS	Out of Scope - Major Maintenance	Strainers:Purchase of Critical Spare Parts	0000164415, 0000123773, 0000164382, 0000164386, 0000164391, 0000164396	\$5,000	\$5,000	\$5,000					X						X		
33	6634	Tri-County DWS	Out of Scope - Study/Inspection/Report	Smart Positioner Inventory		\$5,000		\$5,000		\$5,000						X		X			
34	6634	Tri-County DWS	Out of Scope - Major Maintenance	Pneumatic Actuators		\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000		X			X		X			
35	6634	Tri-County DWS	Out of Scope - Major Maintenance	Rack Butterfly valves		\$2,000		\$2,000		\$2,000						X		X			
36	6634	Tri-County DWS	Out of Scope - Major Maintenance	UPS Replacement	0000062779, 0000062685, 0000315494	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500					X		X			
37	6634	Tri-County DWS	Out of Scope - Major Maintenance	In-plant Process Motors/Pumps		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000		X			X					
38	6634	Tri-County DWS	Out of Scope - Major Maintenance	Emergency Misc.		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000					X					
<b>Total</b>						<b>\$918,898</b>	<b>\$955,871</b>	<b>\$693,425</b>	<b>\$668,799</b>	<b>\$1,298,817</b>	<b>\$156,068</b>										

**Beige Colouring represents a non-capital work study**  
**Notes**  
**\*The above noted Cost Estimates have been developed to aid the client to understand the order of magnitude cost and will be further refined based on Client acceptance in principle of the proposed work. OCWA uses the AACE cost**  
**\*\* A requirement of DWQMS v. 2.0 is to consider the outcomes of the risk assessment (RA) documented under Element 8 as part of the system's infrastructure review**



**Appendix C – Detailed Asset Inventory**

## Tri-County Asset Inventory

\$ 18,144,614

Index	Asset Number	Asset Description	Asset Class	Installation Date	Replacement Cost	Performance Score
1	360537	SETTLING POND NEW PLANT	6634-WTTC-BG	1989-01-01	\$ 1,000,000	0.45
2	360533	BUILDING ROOF NEW PLANT	6634-WTTC-BG	2008-08-08	\$ 3,000,000	0.6
3	315478	BUILDING ROADS	6634-WTTC-BG	2008-08-08	\$ 600,000	0.5
4	315475	BUILDING FLOOR ALL BUILDINGS	6634-WTTC-BG	2008-08-08	\$ 2,000,000	0.5
5	315476	BUILDING LIGHTING ALL BUILDINGS	6634-WTTC-BG	2008-08-08	\$ 500,000	0.3
6	315477	BUILDING DOORS AND WINDOWS ALL BUILDINGS	6634-WTTC-BG	2008-08-08	\$ 500,000	0.5
7	336381	BUILDING ROOF LOW LIFT	6634-WTTC-BG	2008-08-08	\$ 300,000	0.7
8	336383	BUILDING ROOF CHLORINE	6634-WTTC-BG	1991-07-01	\$ 200,000	0.7
9	336384	BUILDING ROOF OLD PLANT	6634-WTTC-BG	2008-08-08	\$ 200,000	0.4
10	315480	BUILDING FENCING	6634-WTTC-BG	1993-01-01	\$ 50,000	0.5
11	123764	VEHICLE WTP TRUCK F-250	6634-WTTC-BG	2008-08-08	\$ 50,000	0.25
12	315479	BUILDING DRAINAGE	6634-WTTC-BG	2016-01-22	\$ 50,000	0.5
13	123765	VEHICLE WTP TRUCK ARCTIC SNOW PLOW	6634-WTTC-BG	2001-01-09	\$ 8,000	0.3
14	123760	VEHICLE LIFT TRUCK CLAR	6634-WTTC-BG	2008-08-08	\$ 5,000	0.35
15	315489	LIFTING DEVICE A FRAME 2 TON HL PUMPS AREA	6634-WTTC-BG	1993-01-01	\$ 5,000	0.6
16	62682	LIFTING DEVICE 02 BRIDGE LL	6634-WTTC-BG	1993-01-01	\$ 3,000	0.7
17	123761	LIFTING DEVICE FORK LIFT MAN BASKET	6634-WTTC-BG	2008-08-08	\$ 2,000	0.5
18	164725	LIFTING DEVICE LIFT TRI-POD SYSTEM	6634-WTTC-BG	2003-06-13	\$ 2,000	0.6
19	164731	LIFTING DEVICE SALA TRI-POD	6634-WTTC-BG	2003-06-13	\$ 2,000	0.65
20	164732	LIFTING DEVICE SALA BLOCK	6634-WTTC-BG	1993-01-01	\$ 2,000	0.7
21	62681	LIFTING DEVICE CHAINFALL 01	6634-WTTC-BG	2008-08-08	\$ 500	0.2
22	164724	LIFTING DEVICE MAIN LIFT	6634-WTTC-BG	2008-08-08	\$ 500	0.55
23	164581	TANK PROCESS T4601 NEUTRALISATION CIP	6634-WTTC-CH	2008-08-08	\$ 6,000	0.6
24	315312	PUMP DIAPHRAGM CFP8030 HYPO POST UV	6634-WTTC-CH	2008-08-08	\$ 5,000	0.6
25	164567	PUMP DIAPHRAGM HPR5110 PEROXIDE	6634-WTTC-CH	2008-08-08	\$ 5,000	-0.01
26	164568	PUMP DIAPHRAGM HPR5120 PEROXIDE	6634-WTTC-CH	2008-08-08	\$ 5,000	-0.01
27	164573	PUMP DIAPHRAGM BSTP4502 CIP BISUL	6634-WTTC-CH	2008-08-08	\$ 5,000	0.4
28	164579	PUMP DIAPHRAGM ATP4115 CIP ACID	6634-WTTC-CH	2008-08-08	\$ 5,000	0.25
29	164582	TANK PROCESS CCT4001 CAUSTIC CIP/EFM	6634-WTTC-CH	2008-08-08	\$ 5,000	0.55
30	164583	TANK PROCESS ACT4101 ACID CIP	6634-WTTC-CH	2008-08-08	\$ 5,000	0.55
31	164588	PUMP DIAPHRAGM CFP8020 CL2 TRIM	6634-WTTC-CH	2008-08-08	\$ 5,000	-0.01
32	164589	PUMP DIAPHRAGM CFP8010 CL2 TRIM	6634-WTTC-CH	2008-08-08	\$ 5,000	-0.01
33	123769	PUMP DIAPHRAGM CTP4015 CIP CAUSTIC	6634-WTTC-CH	2008-08-08	\$ 5,000	-0.01
34	123771	PUMP DIAPHRAGM CFP8040 HYPO POST	6634-WTTC-CH	2008-08-08	\$ 5,000	0.45
35	164558	TANK STORAGE CHLORINE	6634-WTTC-CH	2008-08-08	\$ 5,000	0.6
36	164560	PUMP DIAPHRAGM CLTP4402 HYPO CIP	6634-WTTC-CH	2008-08-08	\$ 5,000	0.4
37	164570	TANK PROCESS HPT5101 PEROXIDE	6634-WTTC-CH	2008-08-08	\$ 3,000	0.45
38	164499	MIXER FLASH PEROXIDE SM5025	6634-WTTC-CH	2008-08-08	\$ 2,500	0.6
39	164572	TANK T4510A BISULFITE DAY	6634-WTTC-CH	2008-08-08	\$ 1,000	0.55
40	164575	TANK PROCESS T4010A CAUSTIC DAY	6634-WTTC-CH	2008-08-08	\$ 1,000	0.6
41	164578	TANK PROCESS T4110A CIP ACID DAY	6634-WTTC-CH	2008-08-08	\$ 1,000	0.55
42	164559	TANK PROCESS CHLORINE DAY	6634-WTTC-CH	1989-01-01	\$ 1,000	0.65
43	360540	SCADA SERVER NEW PLANT	6634-WTTC-EL	2008-08-08	\$ 160,000	-0.01
44	164622	GENERATOR ELECTRIC STAND-BY	6634-WTTC-EL	2008-08-08	\$ 40,000	0.5
45	164623	ENGINE DIESEL STANDBY NEW	6634-WTTC-EL	2011-01-19	\$ 500,000	0.55
46	315318	DRIVE VFD HL PUMP 04	6634-WTTC-EL	2022-06-15	\$ 40,000	1
47	315320	DRIVE VFD HL PUMP 01	6634-WTTC-EL	2022-06-22	\$ 34,557	1
48	315324	DRIVE VFD HL PUMP 03	6634-WTTC-EL	1993-01-01	\$ 34,557	0.85
49	123427	ENGINE DIESEL STANDBY OLD	6634-WTTC-EL	2002-01-05	\$ 30,000	0.4
50	123428	GENERATOR ELECTRIC	6634-WTTC-EL	1993-01-01	\$ 30,000	0.45
51	62687	MCC 02 LOW LIFT	6634-WTTC-EL	2008-08-08	\$ 25,000	0.4
52	164683	MCC MCC-0062 MECHANICAL ROOM	6634-WTTC-EL	2008-08-08	\$ 20,000	0.55
53	315319	DRIVE VFD LL PUMP 03	6634-WTTC-EL	2008-08-08	\$ 18,645	-0.01
54	315326	DRIVE VFD LL PUMP 01	6634-WTTC-EL	2008-08-08	\$ 18,645	0.2
55	315327	DRIVE VFD LL PUMP 04	6634-WTTC-EL	1993-01-01	\$ 18,645	0.2
56	62794	PANEL TRANSFER 01 ELECT HL	6634-WTTC-EL	1993-01-01	\$ 10,000	0.4
57	62778	PANEL PLC ICP-B HL	6634-WTTC-EL	2008-08-08	\$ 10,000	0.55
58	62779	UPS 01 BATTERY BANK HL	6634-WTTC-EL	2019-05-20	\$ 10,000	0.55
59	62836	MCC 03 TOWER	6634-WTTC-EL	2023-06-06	\$ 10,000	0.65
60	164694	PANEL POWER FACTOR CORRECTION PFC-0052 ELECT	6634-WTTC-EL	2008-08-08	\$ 10,000	0.45
61	164696	PANEL CONTROL UV1	6634-WTTC-EL	2008-08-08	\$ 10,000	0.55
62	164697	PANEL CONTROL UV2	6634-WTTC-EL	2008-08-08	\$ 10,000	0.6

63	164698	PANEL CONTROL CP-2000 HMI	6634-WTTC-EL	1991-07-01	\$ 10,000	0.4
64	164699	PANEL CONTROL MAIN FILTRATION	6634-WTTC-EL	2008-08-08	\$ 10,000	0.65
65	164689	MCC MCC-0061 ELECTRICAL ROOM	6634-WTTC-EL	2008-08-08	\$ 10,000	0.5
66	164690	MCC MCC-0060 ELECTRICAL ROOM	6634-WTTC-EL	2008-08-08	\$ 10,000	0.55
67	164692	PANEL TRANSFER GENERATOR	6634-WTTC-EL	2008-08-08	\$ 10,000	0.55
68	315482	PANEL LIGHTING LP-0054 ELEC ROOM	6634-WTTC-EL	2008-08-08	\$ 10,000	0.65
69	315487	PANEL PLC CP-5001 ELEC ROOM	6634-WTTC-EL	1989-01-01	\$ 10,000	0.35
70	315488	PANEL DISTRIBUTION DP-0053 ELEC ROOM	6634-WTTC-EL	2008-08-08	\$ 10,000	0.6
71	315493	PANEL PLC CP-1000 LL	6634-WTTC-EL	2008-08-08	\$ 10,000	0.4
72	315495	PANEL POWER FACTOR CORRECTION PFC-0056 LL E	6634-WTTC-EL	2008-08-08	\$ 10,000	0.5
73	164369	PANEL STARTER 1 LL PUMP	6634-WTTC-EL	2008-08-08	\$ 8,000	0.35
74	164370	PANEL STARTER 2 LL PUMP	6634-WTTC-EL	2009-09-19	\$ 8,000	0.4
75	164371	PANEL STARTER 3 LL PUMP	6634-WTTC-EL	2011-01-19	\$ 8,000	0.45
76	164372	PANEL STARTER 4 LL PUMP	6634-WTTC-EL	2008-08-08	\$ 8,000	0.3
77	315490	PANEL LIGHTING LP-0055A HVAC ROOM	6634-WTTC-EL	2008-08-08	\$ 8,000	0.55
78	315491	PANEL LIGHTING LP-0055 HVAC ROOM	6634-WTTC-EL	2008-08-08	\$ 8,000	0.7
79	315483	PANEL BREAKER HLP-7010 HL PUMP 01	6634-WTTC-EL	2008-08-08	\$ 8,000	0.6
80	315484	PANEL BREAKER HLP-7020 HL PUMP 02	6634-WTTC-EL	2008-08-08	\$ 8,000	0.65
81	315485	PANEL BREAKER HLP-7030 HL PUMP 03	6634-WTTC-EL	2008-08-08	\$ 8,000	0.7
82	315486	PANEL BREAKER HLP-7040 HL PUMP 04	6634-WTTC-EL	2008-08-08	\$ 8,000	0.55
83	164707	PANEL ALARM/DIALER	6634-WTTC-EL	2022-06-15	\$ 5,000	0.55
84	164691	PANEL SWB-0051 BREAKER	6634-WTTC-EL	2022-06-22	\$ 5,000	0.6
85	62642	PANEL CONTROL 01 SAMPLE PUMPS	6634-WTTC-EL	1993-01-01	\$ 4,000	0.3
86	164401	PANEL CONTROL STRAINER	6634-WTTC-EL	2008-08-08	\$ 3,000	0.55
87	164684	TRANSFORMER AIR T-0055	6634-WTTC-EL	2008-08-08	\$ 3,000	0.55
88	164448	BATTERY-CHARGER	6634-WTTC-EL	1993-01-01	\$ 2,000	0.5
89	164365	SWITCH DISCONNECT 1 LL PUMP	6634-WTTC-EL	1993-01-01	\$ 2,000	0.55
90	164366	SWITCH DISCONNECT 2 LL PUMP	6634-WTTC-EL	1993-01-01	\$ 2,000	0.5
91	164367	SWITCH DISCONNECT 3 LL PUMP	6634-WTTC-EL	1993-01-01	\$ 2,000	0.45
92	164368	SWITCH DISCONNECT 4 LL PUMP	6634-WTTC-EL	1993-01-01	\$ 2,000	0.4
93	315309	TRANSFORMER AIR COMPRESSOR	6634-WTTC-EL	1993-01-01	\$ 2,000	0.6
94	315310	TRANSFORMER AIR COMPRESSOR	6634-WTTC-EL	1993-01-01	\$ 2,000	0.6
95	164695	TRANSFORMER AIR T-0053	6634-WTTC-EL	2008-08-08	\$ 2,000	0.5
96	164700	TRANSFORMER AIR 0072	6634-WTTC-EL	2008-08-08	\$ 2,000	0.6
97	164702	TRANSFORMER AIR 0054	6634-WTTC-EL	2008-08-08	\$ 2,000	0.6
98	164395	DRIVE 2030 STR MOTOR	6634-WTTC-EL	2008-08-08	\$ 1,000	0.4
99	164400	DRIVE 2040 STR MOTOR	6634-WTTC-EL	2008-08-08	\$ 1,000	0.45
100	164384	DRIVE 2010 STR CLEAN MOTOR	6634-WTTC-EL	2008-08-08	\$ 1,000	0.45
101	164390	DRIVE 2020 STR MOTOR	6634-WTTC-EL	2002-01-05	\$ 1,000	0.4
102	62685	UPS 01 BATTERY BANK LL	6634-WTTC-EL	2008-08-08	\$ 1,000	0.45
103	315494	UPS 02 BATTERY BANK LL	6634-WTTC-EL	1993-01-01	\$ 1,000	0.5
104	164587	SAFETY EYE WASH/SHOWER 01	6634-WTTC-HS	1993-01-01	\$ 10,000	0.45
105	315481	FIRE EXTINGUISHER ALL BUILDINGS	6634-WTTC-HS	1993-01-01	\$ 5,000	0.5
106	278217	TANK LOW LIFT SCBA	6634-WTTC-HS	1993-01-01	\$ 2,000	0.4
107	123762	SAFETY ATMOSPHERIC TESTER	6634-WTTC-HS	2008-08-08	\$ 2,000	0.5
108	164743	SAFETY FIRE SYSTEM	6634-WTTC-HS	1993-01-01	\$ 1,000	0.55
109	164590	SAFETY EYE WASH/SHOWER 02	6634-WTTC-HS	1993-01-01	\$ 1,000	0.5
110	164742	SAFETY ATMOSPHERE DETECTOR	6634-WTTC-HS	2008-08-08	\$ 650	0.3
111	164703	SAFETY EMER LIGHTING SAFETY 7	6634-WTTC-HS	1993-01-01	\$ 500	0.65
112	164704	SAFETY EMER LIGHTING SAFETY 8	6634-WTTC-HS	2008-08-08	\$ 500	0.4
113	164701	SAFETY EMER LIGHTING SAFETY 6	6634-WTTC-HS	1993-01-01	\$ 500	0.6
114	164686	SAFETY EMER LIGHTING SAFETY 5	6634-WTTC-HS	2008-08-08	\$ 500	0.6
115	164666	SAFETY EMER LIGHTING SAFETY 4	6634-WTTC-HS	2008-08-08	\$ 500	0.65
116	164629	SAFETY EMER LIGHTING WASHROOM	6634-WTTC-HS	2008-08-08	\$ 500	0.6
117	164630	SAFETY EMER LIGHTING MAIN ENTRANCE	6634-WTTC-HS	2008-08-08	\$ 500	0.65
118	164631	SAFETY EMER LIGHTING BOARDROOM	6634-WTTC-HS	1993-01-01	\$ 500	0.7
119	164632	SAFETY EMER LIGHTING SAFETY 1	6634-WTTC-HS	1993-01-01	\$ 500	0.65
120	164633	SAFETY EMER LIGHTING SAFETY 2	6634-WTTC-HS	1993-01-01	\$ 500	0.6
121	164635	SAFETY EMER LIGHTING SAFETY 3	6634-WTTC-HS	1993-01-01	\$ 500	0.7
122	164584	SAFETY EMER LIGHTING CHEMICAL 1	6634-WTTC-HS	2008-08-08	\$ 500	0.5
123	164585	SAFETY EMER LIGHTING CHEMICAL 2	6634-WTTC-HS	1993-01-01	\$ 500	0.55
124	164496	SAFETY EMER LIGHTING UV AREA	6634-WTTC-HS	2008-08-08	\$ 500	0.5
125	164436	SAFETY EMER LIGHTING XR AREA	6634-WTTC-HS	2008-08-08	\$ 500	0.7
126	164437	SAFETY EMER LIGHTING MAINT AREA	6634-WTTC-HS	2020-01-01	\$ 500	0.65
127	164439	SAFETY EMER LIGHTING W&D AREA LIFT FILT	6634-WTTC-HS	2008-08-08	\$ 500	0.75

128	164440	SAFETY EMER LIGHTING MICRO FILT	6634-WTTC-HS	2008-08-08	\$ 500	0.75
129	164441	SAFETY EMER LIGHTING LFIT TRUCK	6634-WTTC-HS	1993-01-01	\$ 500	0.7
130	164443	SAFETY EMER LIGHTING LIFT TRUCK	6634-WTTC-HS	1993-01-01	\$ 500	0.6
131	164554	SAFETY EMER LIGHTING DIST AREA	6634-WTTC-HS	2008-08-08	\$ 500	0.6
132	164487	SAFETY EMER LIGHTING HL AREA	6634-WTTC-HS	2008-08-08	\$ 500	0.55
133	164524	SAFETY EMER LIGHTING HL AREA	6634-WTTC-HS	2008-08-08	\$ 500	0.55
134	164682	HEAT EXCHANGER AHU0010 AIR CONDITIONER	6634-WTTC-HV	2003-06-13	\$ 150,000	0.55
135	164672	HEATER NATURAL GAS MAU0020	6634-WTTC-HV	1993-01-01	\$ 50,000	0.6
136	315308	PUMP CENT HWP0034 HEAT RECIRC	6634-WTTC-HV	2003-06-13	\$ 10,000	0.45
137	164671	HEATER AHU0010	6634-WTTC-HV	1993-01-01	\$ 10,000	0.55
138	164677	PUMP CENT HWP0035	6634-WTTC-HV	1993-01-01	\$ 10,000	0.35
139	164586	FAN 0021 EXHAUST EMERGENCY	6634-WTTC-HV	2008-08-08	\$ 7,000	0.45
140	164678	BOILER B-1	6634-WTTC-HV	2008-08-08	\$ 5,000	0.55
141	164679	BOILER B-2	6634-WTTC-HV	2008-08-08	\$ 5,000	0.6
142	62770	HEATER ELECTRIC 01 FORCED AIR	6634-WTTC-HV	1993-01-01	\$ 2,500	0.3
143	62795	HEATER ELECTRIC UH01	6634-WTTC-HV	1992-01-01	\$ 2,000	0.15
144	62796	HEATER ELECTRIC UH05	6634-WTTC-HV	1993-01-01	\$ 2,000	0.35
145	62797	HEATER ELECTRIC UH01-A	6634-WTTC-HV	2008-08-08	\$ 2,000	0.62
146	62798	HEATER ELECTRIC UH01-B	6634-WTTC-HV	2001-01-09	\$ 2,000	0.25
147	164592	HEATER 4104 ACID CIP TANK	6634-WTTC-HV	2008-08-08	\$ 2,000	0.35
148	164611	HEATER 4004 CIP/EFM CAUSTIC	6634-WTTC-HV	2008-08-08	\$ 2,000	0.25
149	315311	HEAT EXCHANGER AHU0030 AIR CONDITIONER	6634-WTTC-HV	2001-01-09	\$ 2,000	0.5
150	315307	HEATER NATURAL GAS WATER TANKLESS	6634-WTTC-HV	2001-01-09	\$ 2,000	0.9
151	164680	FAN EF0022 EXHAUST	6634-WTTC-HV	2008-08-08	\$ 2,000	0.65
152	164555	HEATER 0014 DIST AREA	6634-WTTC-HV	2008-08-08	\$ 1,000	0.35
153	164442	HEATER UH-0015	6634-WTTC-HV	2008-08-08	\$ 1,000	0.35
154	164438	HEATER UH-0012	6634-WTTC-HV	1993-01-01	\$ 1,000	0.3
155	62684	HEATER ELECTRIC UH01 ELECTRIC LL	6634-WTTC-HV	2008-08-08	\$ 1,000	0.35
156	164435	HEATER ELECTRIC UH-0013	6634-WTTC-HV	2008-08-08	\$ 1,000	0.35
157	62835	HEATER ELECTRIC 01 TOWER	6634-WTTC-HV	2008-08-08	\$ 1,000	0.6
158	62710	HEATER ELECTRIC UH02 CL 2	6634-WTTC-HV	1993-01-01	\$ 1,000	0.4
159	62728	HEATER ELECTRIC UH07 PLANT	6634-WTTC-HV	2008-08-08	\$ 1,000	0.4
160	62729	FAN EF06 EXHAUST PLANT	6634-WTTC-HV	2008-08-08	\$ 1,000	0.35
161	62678	HEATER ELECTRIC UH02 ELECTRIC LL	6634-WTTC-HV	2008-08-08	\$ 1,000	0.4
162	62679	HEATER ELECTRIC UH04 ELECTRIC LL	6634-WTTC-HV	2008-08-08	\$ 1,000	0.3
163	62680	HEATER ELECTRIC UH03 ELECTRIC LL	6634-WTTC-HV	2008-08-08	\$ 1,000	0.2
164	62700	FAN 01 EXHAUST CHLORINE BLDG	6634-WTTC-HV	2008-08-08	\$ 1,000	0.25
165	62701	FAN 02 EXHAUST CHLORINE BLDG	6634-WTTC-HV	2008-08-08	\$ 1,000	0.4
166	62705	HEATER ELECTRIC UH01 CL 2	6634-WTTC-HV	2008-08-08	\$ 1,000	0.4
167	62706	LOUVRE 01 CL2 STORAGE	6634-WTTC-HV	2008-08-08	\$ 1,000	0.6
168	62834	FAN 01 EXHAUST ELECT TOWER	6634-WTTC-HV	2008-08-08	\$ 500	0.25
169	62674	FAN EF03 EXHAUST LL	6634-WTTC-HV	2008-08-08	\$ 500	0.35
170	62675	FAN EF04 EXHAUST LL	6634-WTTC-HV	2008-08-08	\$ 500	0.25
171	62676	FAN EF05 EXHAUST LL	6634-WTTC-HV	2008-08-08	\$ 500	0.25
172	164685	HEATER UH0023	6634-WTTC-HV	2003-07-09	\$ 500	0.35
173	164693	HEATER UH0016	6634-WTTC-HV	2008-08-08	\$ 500	0.6
174	164711	TANK STORAGE WATER WEST LORNE STAND PIPE	6634-WTTC-PR	2008-08-08	\$ 2,000,000	0.6
175	164705	TANK STORAGE WATER SOUTH	6634-WTTC-PR	2008-08-08	\$ 500,000	0.55
176	164706	TANK STORAGE WATER NORTH	6634-WTTC-PR	2008-08-08	\$ 500,000	0.5
177	164643	FILTER 1 WATER MICRO PALL RACK	6634-WTTC-PR	2008-08-08	\$ 400,000	-0.01
178	164644	FILTER 2 WATER MICRO PALL RACK	6634-WTTC-PR	2009-03-14	\$ 400,000	0.05
179	164651	FILTER 3 WATER MICRO PALL RACK	6634-WTTC-PR	2008-08-08	\$ 400,000	0.1
180	164658	FILTER 4 WATER MICRO PALL RACK	6634-WTTC-PR	2008-08-08	\$ 400,000	0.15
181	360539	PIPING INTAKE	6634-WTTC-PR	2008-08-08	\$ 300,000	0.3
182	360535	PIPING PROCESS ALL BUILDINGS	6634-WTTC-PR	2000-01-01	\$ 200,000	0.5
183	164502	UV LIGHT 5021	6634-WTTC-PR	2008-08-08	\$ 200,000	0.4
184	164507	UV LIGHT 5022	6634-WTTC-PR	2008-08-08	\$ 200,000	0.45
185	315499	TANK PROCESS WET WELL 01 EAST LL	6634-WTTC-PR	2008-08-08	\$ 500,000	0.65
186	315500	TANK PROCESS WET WELL 02 WEST LL	6634-WTTC-PR	2008-08-08	\$ 500,000	0.65
187	164460	PUMP CENT 7010 HL	6634-WTTC-PR	2008-08-08	\$ 100,000	0.65
188	164466	PUMP CENT 7020 HL	6634-WTTC-PR	2008-08-08	\$ 100,000	0.35
189	164472	PUMP CENT 7030 HL	6634-WTTC-PR	2008-08-08	\$ 100,000	0.25
190	164478	PUMP CENT 7040 HL	6634-WTTC-PR	2008-08-08	\$ 100,000	0.3
191	315251	VALVE REGULATING PSI 7051	6634-WTTC-PR	2008-08-08	\$ 30,000	0.8
192	315252	VALVE REGULATING PSI 7061	6634-WTTC-PR	2008-08-08	\$ 30,000	0.8

193	62809	VALVE GATE 01 LL	6634-WTTC-PR	2008-08-08	\$ 25,000	0.35
194	62810	VALVE GATE 02 LL	6634-WTTC-PR	2008-08-08	\$ 25,000	0.75
195	62811	VALVE GLOBE 01 BACKFLUSH LL	6634-WTTC-PR	2008-08-08	\$ 25,000	0.35
196	164335	PUMP CENT 1 VERT TURBINE LL	6634-WTTC-PR	2008-08-08	\$ 15,000	0.35
197	164340	PUMP CENT 2 VERT TURBINE LL	6634-WTTC-PR	2008-08-08	\$ 15,000	0.45
198	164345	PUMP CENT 3 VERT TURBINE LL	6634-WTTC-PR	2008-08-08	\$ 15,000	0.15
199	164350	PUMP CENT 4 VERT TURBINE LL	6634-WTTC-PR	2008-08-08	\$ 15,000	0.5
200	315304	COMPRESSOR AIR AC4701 COMPRESSOR B	6634-WTTC-PR	2008-08-08	\$ 10,000	0.5
201	315305	COMPRESSOR AIR AC4702 COMPRESSOR A	6634-WTTC-PR	2008-08-08	\$ 10,000	0.55
202	62638	ANALYZER TURBIDITY AIT109 RAW	6634-WTTC-PR	1993-01-01	\$ 10,000	0.5
203	62646	VALVE SLUICE GATE W2 SURGE	6634-WTTC-PR	1993-01-01	\$ 10,000	0.3
204	62647	VALVE SLUICE GATE 01 INTAKE	6634-WTTC-PR	1993-01-01	\$ 10,000	0.3
205	62666	VALVE GATE E2 SLUICE SURGE	6634-WTTC-PR	2008-08-08	\$ 10,000	0.45
206	62667	VALVE GATE 03 PUMP WELL ISOL	6634-WTTC-PR	2008-08-08	\$ 10,000	0.4
207	62816	PUMP CENT 01 FIRE TOWER	6634-WTTC-PR	2008-08-08	\$ 10,000	0.2
208	123011	ANALYZER TURBIDITY 1 FILTER	6634-WTTC-PR	2008-08-08	\$ 10,000	0.55
209	123012	ANALYZER TURBIDITY 2 FILTER	6634-WTTC-PR	2008-08-08	\$ 10,000	0.5
210	123013	ANALYZER TURBIDITY 3 FILTER	6634-WTTC-PR	1993-01-01	\$ 10,000	0.45
211	164391	STRAINER 2030 RAW WATER	6634-WTTC-PR	2008-08-08	\$ 10,000	-0.01
212	164386	STRAINER 2020 RAW WATER	6634-WTTC-PR	2008-08-08	\$ 10,000	0.6
213	164382	STRAINER 2010 WATER RAW	6634-WTTC-PR	2008-08-08	\$ 10,000	0.6
214	123933	PUMP 1	6634-WTTC-PR	2008-08-08	\$ 10,000	0.3
215	123934	PUMP 2	6634-WTTC-PR	2008-08-08	\$ 10,000	0.35
216	164336	MOTOR 1 PUMP ELECT LL	6634-WTTC-PR	1993-01-01	\$ 10,000	-0.01
217	164341	MOTOR 2 PUMP ELECT LL	6634-WTTC-PR	2008-08-08	\$ 10,000	-0.01
218	164346	MOTOR 3 PUMP ELECT LL	6634-WTTC-PR	2008-08-08	\$ 10,000	-0.01
219	164351	MOTOR 4 PUMP ELECT LL	6634-WTTC-PR	2008-08-08	\$ 10,000	-0.01
220	164355	METER FLOW FIT1017 EAST DISCHARGE	6634-WTTC-PR	2008-08-08	\$ 10,000	0.6
221	164361	METER FLOW FIT 1027 RAW WEST DICHARGE	6634-WTTC-PR	2008-08-08	\$ 10,000	0.65
222	164396	STRAINER 2040 RAW WATER	6634-WTTC-PR	2008-08-08	\$ 10,000	0.5
223	164495	ANALYZER UV AIT5004	6634-WTTC-PR	2008-08-08	\$ 10,000	0.5
224	164461	MOTOR 7010 ELECTRIC HL	6634-WTTC-PR	2008-08-08	\$ 10,000	0.4
225	164467	MOTOR 7040 ELECTRIC HL	6634-WTTC-PR	2008-08-08	\$ 10,000	0.25
226	164473	MOTOR 7030 ELECTRIC	6634-WTTC-PR	2008-08-08	\$ 10,000	0.3
227	164479	MOTOR 7020 ELECTRIC HL	6634-WTTC-PR	2008-08-08	\$ 10,000	0.45
228	164712	METER FLOW GLENCOE CHAMBER	6634-WTTC-PR	2008-08-08	\$ 8,000	0.5
229	164713	METER FLOW PIONEER CHAMBER	6634-WTTC-PR	2008-08-08	\$ 8,000	0.6
230	164714	METER FLOW MARSH CHAMBER	6634-WTTC-PR	2008-08-08	\$ 8,000	0.65
231	164715	METER FLOW SILVER CLAY CHAMBER	6634-WTTC-PR	1989-01-01	\$ 8,000	0.3
232	164716	METER FLOW EAGLE WEST CHAMBER	6634-WTTC-PR	1989-01-01	\$ 8,000	0.35
233	164717	METER FLOW A	6634-WTTC-PR	2008-08-08	\$ 8,000	0.75
234	164718	METER FLOW B EAGELE EAST CHAMBER	6634-WTTC-PR	2008-08-08	\$ 8,000	0.35
235	62688	VALVE BUTTERFLY 01 ISOL RAW LL	6634-WTTC-PR	2008-08-08	\$ 8,000	0.35
236	164528	METER FLOW FE7052 EAST DIST	6634-WTTC-PR	2008-08-08	\$ 8,000	0.35
237	164536	METER FLOW FE7062 WEST DIST	6634-WTTC-PR	2008-08-08	\$ 8,000	0.4
238	164522	ANALYZER CHLORINE AIT7001 PRE HL	6634-WTTC-PR	2008-08-08	\$ 5,500	0.4
239	164489	ANALYZER CHLORINE AIT5005 UV INLET	6634-WTTC-PR	1993-01-01	\$ 5,500	0.6
240	164493	ANALYZER CHLORINE AIT5006 UV OUTLET	6634-WTTC-PR	2008-08-08	\$ 5,500	0.6
241	164546	ANALYZER CHLORINE AIT7004 DIST	6634-WTTC-PR	2008-08-08	\$ 5,500	0.45
242	164407	ANALYZER TURBIDITY RAW SCATTER	6634-WTTC-PR	2008-08-08	\$ 5,500	0.55
243	164408	ANALYZER CHLORINE RAW	6634-WTTC-PR	2008-08-08	\$ 5,500	0.7
244	315313	VALVE RELIEF 7074 PRESSURE GRAHAM DIST	6634-WTTC-PR	1993-01-01	\$ 5,000	0.75
245	315314	VALVE RELIEF 7064 PRESSURE WEST LORNE	6634-WTTC-PR	1993-01-01	\$ 5,000	0.8
246	315315	VALVE RELIEF 7054 EAST DIST LINE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.8
247	164627	PUMP SUBMERSIBLE WP9010 DRAIN PUMP	6634-WTTC-PR	1993-01-01	\$ 5,000	0.4
248	164628	PUMP SUBMERSIBLE WP9020 DRAIN PUMP	6634-WTTC-PR	2008-08-08	\$ 5,000	0.45
249	164639	METER FLOW FIT3105 INLET	6634-WTTC-PR	2008-08-08	\$ 5,000	0.3
250	164654	METER FLOW FIT3305 INLET	6634-WTTC-PR	2008-08-08	\$ 5,000	0.5
251	164661	METER FLOW FIT3405 INLET	6634-WTTC-PR	2008-08-08	\$ 5,000	0.45
252	164599	PUMP CENT P4204 RECYCLE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.4
253	164600	MOTOR P4204 ELECTRIC RECYCLE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.35
254	62691	METER FLOW 01 SERVICE WATER	6634-WTTC-PR	2008-08-08	\$ 5,000	0.4
255	62661	VALVE CHECK 01 LL	6634-WTTC-PR	2008-08-08	\$ 5,000	0.4
256	62812	VALVE REGULATING 01 FLOW RAW	6634-WTTC-PR	2008-08-08	\$ 5,000	0.25
257	62817	MOTOR 01 BOOSTER ELEC SP	6634-WTTC-PR	2008-08-08	\$ 5,000	0.8

258	62823	TRANSMITTER PRESSURE 01 LEVEL	6634-WTTC-PR	2008-08-08	\$ 5,000	0.55
259	62829	VALVE REGULATING 01 PRESSURE ALTITUDE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.85
260	62831	VALVE BUTTERFLY 04 ISOL SP	6634-WTTC-PR	2008-08-08	\$ 5,000	0.25
261	62833	VALVE BUTTERFLY 05 ISOL SP	6634-WTTC-PR	2008-08-08	\$ 5,000	0.3
262	123766	PUMP CENT P4204 RECYCLE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.6
263	123767	MOTOR P4204 ELECTRIC RECYCLE	6634-WTTC-PR	1993-01-01	\$ 5,000	0.65
264	164376	VALVE DIAPHRAGM BACKFLUSH RAW	6634-WTTC-PR	2008-08-08	\$ 5,000	0.45
265	164490	ANALYZER TURBIDITY AIT5001 UV INLET	6634-WTTC-PR	2008-08-08	\$ 5,000	0.8
266	164492	ANALYZER AIT5027 PEROXIDE OUT	6634-WTTC-PR	2008-08-08	\$ 5,000	0.65
267	164545	ANALYZER TURBIDITY AIT7003 DIST	6634-WTTC-PR	2008-08-08	\$ 5,000	0.4
268	164449	PUMP CENT 4310 RF	6634-WTTC-PR	2008-08-08	\$ 5,000	0.7
269	164454	PUMP CENT 4320 RF	6634-WTTC-PR	2008-08-08	\$ 5,000	0.7
270	164459	METER FLOW 4301	6634-WTTC-PR	2012-01-28	\$ 5,000	0.55
271	164409	TANK PROCESS 4350 WET WELL HOLDING RFR	6634-WTTC-PR	2008-08-08	\$ 5,000	0.6
272	164421	ANALYZER TURBIDITY RFRP DISCHARGE	6634-WTTC-PR	2008-08-08	\$ 5,000	0.6
273	164634	TANK STORAGE AR4710 AIR	6634-WTTC-PR	1993-01-01	\$ 4,000	0.55
274	164637	ANALYZER PARTICLE AIT3120	6634-WTTC-PR	2008-08-08	\$ 4,000	0.35
275	164638	ANALYZER TURBIDITY AIT3119	6634-WTTC-PR	2008-08-08	\$ 4,000	0.45
276	164645	ANALYZER PARTICLE AIT3220	6634-WTTC-PR	2008-08-08	\$ 4,000	0.3
277	164646	ANALYZER TURBIDITY AIT3219	6634-WTTC-PR	2008-08-08	\$ 4,000	0.45
278	164647	METER FLOW FIT3205 INLET	6634-WTTC-PR	2008-08-08	\$ 4,000	0.25
279	164648	TRANSMITTER PRESSURE PIT3204	6634-WTTC-PR	2008-08-08	\$ 4,000	0.35
280	164652	ANALYZER PARTICLE AIT3320	6634-WTTC-PR	2008-08-08	\$ 4,000	0.4
281	164653	ANALYZER TURBIDITY AIT3319	6634-WTTC-PR	2008-08-08	\$ 4,000	0.6
282	164659	ANALYZER PARTICLE AIT3420	6634-WTTC-PR	2008-08-08	\$ 4,000	0.45
283	164660	ANALYZER TURBIDITY AIT3419	6634-WTTC-PR	2008-08-08	\$ 4,000	0.55
284	62683	PUMP SUBMERSIBLE 01 LL	6634-WTTC-PR	2008-08-08	\$ 4,000	0.3
285	62635	METER LEVEL LIT116 WELL 1 EAST	6634-WTTC-PR	2008-08-08	\$ 4,000	0.2
286	123026	ANALYZER CHLORINE AIT1401 PRE	6634-WTTC-PR	2008-08-08	\$ 4,000	0.6
287	164734	VALVE BACKFLOW 3 PREVENTER	6634-WTTC-PR	2008-08-08	\$ 3,500	0.4
288	164720	VALVE BACKFLOW 1 PREVENTER	6634-WTTC-PR	2008-08-08	\$ 3,500	0.35
289	164721	VALVE BACKFLOW 2 PREVENTER	6634-WTTC-PR	2008-08-08	\$ 3,500	0.4
290	63099	VALVE BACKFLOW PREVENTER	6634-WTTC-PR	2008-08-08	\$ 3,500	0.45
291	164548	VALVE BACKFLOW PREVENTER	6634-WTTC-PR	2008-08-08	\$ 3,500	0.5
292	164617	ACTUATOR PNEUMATIC V4607	6634-WTTC-PR	2008-08-08	\$ 3,000	0.3
293	164626	VALVE GATE W 69004 SETTLING POND	6634-WTTC-PR	2008-08-08	\$ 3,000	0.6
294	164597	ACTUATOR PNEUMATIC V4032	6634-WTTC-PR	2008-08-08	\$ 3,000	0.35
295	164598	ACTUATOR PNEUMATIC V4282	6634-WTTC-PR	2008-08-08	\$ 3,000	0.4
296	164603	ACTUATOR PNEUMATIC V4125	6634-WTTC-PR	2008-08-08	\$ 3,000	0.4
297	164605	ACTUATOR PNEUMATIC V4227	6634-WTTC-PR	2008-08-08	\$ 3,000	0.35
298	164607	ACTUATOR PNEUMATIC V4289	6634-WTTC-PR	1989-01-01	\$ 3,000	0.55
299	62640	ANALYZER PH AIT111 LL RAW	6634-WTTC-PR	2022-09-01	\$ 3,000	1
300	62645	METER LEVEL LIT131 WELL 2 EAST	6634-WTTC-PR	1989-01-01	\$ 3,000	0.25
301	62672	VALVE BUTTERFLY 02 ISOL BW	6634-WTTC-PR	2008-08-08	\$ 3,000	0.3
302	62717	METER FLOW FIT224 DISPLAY	6634-WTTC-PR	2008-08-08	\$ 3,000	0.4
303	123768	PUMP CENT P4609 NEUTRILZATION TANK	6634-WTTC-PR	2008-08-08	\$ 3,000	0.25
304	164373	VALVE RELIEF PRESSURE	6634-WTTC-PR	2008-08-08	\$ 3,000	0.6
305	164378	ACTUATOR ELECTRIC WEST RAW LINE	6634-WTTC-PR	2008-08-08	\$ 3,000	0.8
306	164380	ACTUATOR ELECTRIC EAST RAW LINE	6634-WTTC-PR	2008-08-08	\$ 3,000	0.75
307	123772	ACTUATOR PNEUMATIC V4019	6634-WTTC-PR	2008-08-08	\$ 3,000	-0.01
308	164484	VALVE RELIEF 7005 PRESSURE	6634-WTTC-PR	2008-08-08	\$ 3,000	0.4
309	164431	METER FLOW XR PUMP	6634-WTTC-PR	2008-08-08	\$ 3,000	0.4
310	164668	ANALYZER PH PORTABLE	6634-WTTC-PR	2008-08-08	\$ 2,500	0.25
311	164624	METER FLOW FIT9005	6634-WTTC-PR	2008-08-08	\$ 2,500	0.35
312	164625	METER FLOW FIT9006	6634-WTTC-PR	2008-08-08	\$ 2,500	0.4
313	164665	METER LEVEL LIT9002	6634-WTTC-PR	2008-08-08	\$ 2,500	0.4
314	164571	ANALYZER HPE5105 GAS PEROXIDE	6634-WTTC-PR	2008-08-08	\$ 2,500	0.4
315	315496	SCALE CHLORINE CYLINDER	6634-WTTC-PR	2008-08-08	\$ 2,500	0.9
316	62689	ANALYZER CHLORINE AAH113 GAS DETECT	6634-WTTC-PR	2008-08-08	\$ 2,500	0.7
317	62699	ANALYZER CHLORINE AAH112 GAS DETECT	6634-WTTC-PR	2008-08-08	\$ 2,500	0.8
318	164556	METER LEVEL LIT8004 HYPO DAY TANK	6634-WTTC-PR	2008-08-08	\$ 2,500	0.45
319	164557	METER LEVEL LIT8002 HYPO TANK	6634-WTTC-PR	2008-08-08	\$ 2,500	0.4
320	164550	METER FLOW FE7092 PROCESS LINE	6634-WTTC-PR	2008-08-08	\$ 2,500	0.3
321	315360	ANALYZER CHLORINE DR900 PORTABLE	6634-WTTC-PR	2008-08-08	\$ 2,364	1
322	62985	METER LEVEL M LIT-6021 Outside Storage tank	6634-WTTC-PR	2008-08-08	\$ 2,085	0.6

323	62990	METER LEVEL M LIT-6021 Outside Storage tank	6634-WTTC-PR	2008-08-08	\$ 2,085	0.55
324	315316	VALVE CHLORINE INJECTOR	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
325	315317	VALVE CHLORINE INJECTOR	6634-WTTC-PR	2008-08-08	\$ 2,000	0.3
326	164774	ANALYZER PH /DO	6634-WTTC-PR	2008-08-08	\$ 2,000	0.65
327	164775	VALVE STAND BY RAW WATER INTAKE	6634-WTTC-PR	2008-08-08	\$ 2,000	0.6
328	164642	METER FLOW FIT3111 RECIRCULATING	6634-WTTC-PR	2008-08-08	\$ 2,000	0.55
329	164650	METER FLOW FIT3211 RECIRCULATING	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
330	164657	METER FLOW FIT3311 RECIRCULATING	6634-WTTC-PR	2008-08-08	\$ 2,000	0.45
331	164664	METER FLOW FIT3411 RECIRCULATING	6634-WTTC-PR	2008-08-08	\$ 2,000	0.55
332	164569	METER FLOW LIT5102 PEROXIDE T	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
333	315492	VALVE THERMAL MIXING HVAC ROOM	6634-WTTC-PR	2008-08-08	\$ 2,000	0.7
334	62708	VALVE BACKFLOW PREVENTER 25030 THOMPSON L	6634-WTTC-PR	2008-08-08	\$ 2,000	0.25
335	62677	VALVE BACKFLOW PREVENTER 25030 THOMPSON L	6634-WTTC-PR	2008-08-08	\$ 2,000	0.75
336	62668	VALVE BACKFLOW PREVENTER 25030 THOMPSON L	6634-WTTC-PR	2008-08-08	\$ 2,000	0.25
337	62673	VALVE BACKFLOW PREVENTER 25030 THOMPSON L	6634-WTTC-PR	2008-08-08	\$ 2,000	0.65
338	62819	VALVE 01 TOWER ALTITUDE	6634-WTTC-PR	2008-08-08	\$ 2,000	0.5
339	62826	VALVE GATE 01 ISOL SP	6634-WTTC-PR	2008-08-08	\$ 2,000	0.3
340	62827	VALVE GATE 02 ISOL SP	6634-WTTC-PR	2008-08-08	\$ 2,000	0.25
341	62828	VALVE ALTITUDE	6634-WTTC-PR	2008-08-08	\$ 2,000	0.2
342	62830	VALVE GATE 03 ISOL SP	6634-WTTC-PR	2008-08-08	\$ 2,000	0.2
343	123018	TRANSMITTER PRESSURE IONA IN	6634-WTTC-PR	2008-08-08	\$ 2,000	0.55
344	123310	VALVE BACKFLOW PREVENTER 25030 THOMPSON L	6634-WTTC-PR	2008-08-08	\$ 2,000	0.45
345	164444	PUMP CENT 4214 CDP	6634-WTTC-PR	2008-08-08	\$ 2,000	0.25
346	164566	METER FLOW FE5104 PEROXIDE	6634-WTTC-PR	2008-08-08	\$ 2,000	0.5
347	164553	METER FLOW FE7082	6634-WTTC-PR	2008-08-08	\$ 2,000	0.7
348	164465	ACTUATOR ELECTRIC MV7011	6634-WTTC-PR	2008-08-08	\$ 2,000	0.45
349	164471	ACTUATOR ELECTRIC MV7011	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
350	164477	ACTUATOR ELECTRIC MV7031	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
351	164483	ACTUATOR ELECTRIC MV7041	6634-WTTC-PR	2008-08-08	\$ 2,000	0.35
352	164423	PUMP CENT 2050 XRP	6634-WTTC-PR	2008-08-08	\$ 2,000	0.4
353	164425	PUMP CENT 2060 XRP	6634-WTTC-PR	1993-01-01	\$ 2,000	0.4
354	164772	ANALYZER DO PROBE LL	6634-WTTC-PR	1993-01-01	\$ 1,500	0.6
355	164580	METER FLOW 4121 CIP ACID	6634-WTTC-PR	2008-08-08	\$ 1,500	0.4
356	164577	METER FLOW FIT4017 CIP CAUSTIC	6634-WTTC-PR	2008-08-08	\$ 1,500	0.35
357	164574	METER FLOW FIT4505 S.B CIP	6634-WTTC-PR	2008-08-08	\$ 1,500	0.4
358	62964	ANALYZER CHLORINE PORTABLE	6634-WTTC-PR	2008-08-08	\$ 1,500	0.6
359	164561	METER FLOW 4405 HYPO CIP	6634-WTTC-PR	2008-08-08	\$ 1,500	0.4
360	164463	VALVE CHECK 7010 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,500	0.5
361	164469	VALVE CHECK 7020 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,500	0.45
362	164475	VALVE CHECK 7030 HL INLET	6634-WTTC-PR	2008-08-08	\$ 1,500	0.4
363	164481	VALVE CHECK 7040 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,500	0.45
364	164411	PUMP CENT 4370 RFR	6634-WTTC-PR	2008-08-08	\$ 1,500	0.7
365	164413	PUMP CENT 4360 RFR	6634-WTTC-PR		\$ 1,500	0.7
366	164773	ANALYZER PH PROBE LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
367	248471	PUMP CENT 2 RAW SAMPLING	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
368	164613	ANALYZER PH AE4620	6634-WTTC-PR	2008-08-08	\$ 1,000	0.3
369	164614	ANALYZER CONDUCTIVITY ORP 4619	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
370	164615	TRANSMITTER PRESSURE 4605	6634-WTTC-PR	2008-08-08	\$ 1,000	0.35
371	164498	ACTUATOR ELECTRIC MV5023 UV IN	6634-WTTC-PR	2008-08-08	\$ 1,000	0.4
372	315497	VALVE REGULATING 01 CHLORINE VACUUM OPERA	6634-WTTC-PR	1993-01-01	\$ 1,000	0.4
373	315498	VALVE REGULATING 02 CHLORINE VACUUM OPERA	6634-WTTC-PR	1993-01-01	\$ 1,000	0.4
374	62709	VALVE GATE 02 SERVICE WATER	6634-WTTC-PR	1993-01-01	\$ 1,000	0.35
375	62690	VALVE GATE 01 SERVICE WATER	6634-WTTC-PR	1993-01-01	\$ 1,000	0.5
376	62692	VALVE GATE 03 SERVICE WATER	6634-WTTC-PR	2001-01-01	\$ 1,000	0.15
377	62634	VALVE BUTTERFLY 02 ISO LL	6634-WTTC-PR	1993-01-01	\$ 1,000	0.25
378	62653	VALVE BUTTERFLY 03 LL	6634-WTTC-PR	1993-01-01	\$ 1,000	0.35
379	62659	VALVE BUTTERFLY 04 LL	6634-WTTC-PR	1993-01-01	\$ 1,000	0.35
380	62660	VALVE BUTTERFLY 01 ISOL LL	6634-WTTC-PR	1992-01-01	\$ 1,000	0.55
381	62662	VALVE PLUG 01 ISOL PR LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.4
382	62813	VALVE BUTTERFLY 01 ISOL HL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.35
383	62814	VALVE BUTTERFLY 01 ISOL HL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.4
384	62815	VALVE BUTTERFLY 01 ISOL HL	6634-WTTC-PR	1993-01-01	\$ 1,000	0.3
385	62818	ACTUATOR ELECTRIC 01 FLOW	6634-WTTC-PR	1993-01-01	\$ 1,000	0.45
386	62824	ACTUATOR ELECTRIC 01 FLOW SP	6634-WTTC-PR	1993-01-01	\$ 1,000	0.65
387	62825	ACTUATOR ELECTRIC 02 FLOW SP	6634-WTTC-PR	1992-01-01	\$ 1,000	0.55

388	62832	VALVE CHECK 01 SP	6634-WTTC-PR	1992-01-01	\$ 1,000	0.45
389	62791	ANALYZER PH 01 PORTABLE LAB	6634-WTTC-PR	1992-01-01	\$ 1,000	0.2
390	164392	VALVE BUTTERFLY 2030 STR ISO	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
391	164393	VALVE BUTTERFLY 2030 STR ISO	6634-WTTC-PR	1993-01-01	\$ 1,000	0.6
392	164394	VALVE BUTTERFLY 2030 STR ISO	6634-WTTC-PR	1993-01-01	\$ 1,000	0.65
393	164385	VALVE BUTTERFLY 2010 STR CLEAN DISCHARGE	6634-WTTC-PR	1993-01-01	\$ 1,000	0.55
394	164387	VALVE BUTTERFLY 2020 STR ISO	6634-WTTC-PR	1993-01-01	\$ 1,000	0.5
395	164388	VALVE BUTTERFLY 2020 STR ISO	6634-WTTC-PR	1993-01-01	\$ 1,000	0.65
396	164389	VALVE BUTTERFLY 2020 STR CLEAN DISCHARGE	6634-WTTC-PR	2008-08-08	\$ 1,000	0.7
397	164377	VALVE BUTTERFLY 01 WEST RAW LINE	6634-WTTC-PR	1992-01-01	\$ 1,000	0.25
398	164379	VALVE BUTTERFLY 02 EAST RAW LINE	6634-WTTC-PR	1992-01-01	\$ 1,000	0.25
399	164381	VALVE BUTTERFLY 2010 STR ISO	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
400	164383	VALVE BUTTERFLY 2010 STR ISO	6634-WTTC-PR	2008-08-10	\$ 1,000	0.55
401	163379	VALVE BUTTERFLY 02 EAST RAW LINE	6634-WTTC-PR	2008-08-08	\$ 1,000	0.4
402	164333	TRANSMITTER TEMP RAW SAMPLING	6634-WTTC-PR	2008-08-08	\$ 1,000	0.7
403	164337	VALVE CHECK 1 LL	6634-WTTC-PR	1993-01-01	\$ 1,000	0.4
404	164338	VALVE RELIEF 01 AIR LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.5
405	164342	VALVE RELIEF 02 AIR LL	6634-WTTC-PR	1992-01-01	\$ 1,000	0.45
406	164343	VALVE CHECK 2 LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
407	164347	VALVE RELIEF 03 AIR LL	6634-WTTC-PR	1992-01-01	\$ 1,000	0.4
408	164348	VALVE CHECK 3 LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.4
409	164352	VALVE RELIEF 04 AIR LL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
410	164353	VALVE CHECK 4 LL	6634-WTTC-PR	1992-01-01	\$ 1,000	0.35
411	164356	VALVE BUTTERFLY BUTTERFLY EAST ISOLATION	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
412	164357	VALVE BUTTERFLY ISOLATION WEST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
413	164358	VALVE RELIEF AIR EAST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.65
414	164359	VALVE RELIEF AIR WEST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.65
415	164360	VALVE BUTTERFLY METER ISO WEST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.45
416	164362	VALVE BUTTERFLY METER ISO WEST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.5
417	164397	VALVE BUTTERFLY 2040 STR ISO	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
418	164398	VALVE BUTTERFLY 2040 STR ISO	6634-WTTC-PR	2008-08-10	\$ 1,000	0.6
419	164399	VALVE BUTTERFLY 2040 STR ISO	6634-WTTC-PR	2002-01-05	\$ 1,000	0.6
420	164511	ACTUATOR ELECTRIC UV OUTLET	6634-WTTC-PR	1993-01-01	\$ 1,000	0.4
421	164519	VALVE RELIEF AIR	6634-WTTC-PR	1992-01-01	\$ 1,000	0.65
422	164520	VALVE RELIEF AIR	6634-WTTC-PR	2008-08-08	\$ 1,000	0.65
423	164532	VALVE RELIEF EAST DIST ISOL	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
424	164540	VALVE BUTTERFLY WEST DIST ISOLATION	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
425	164544	VALVE BUTTERFLY GRAHAM DIST	6634-WTTC-PR	2008-08-08	\$ 1,000	0.65
426	164462	VALVE BUTTERFLY 7010 HL INLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.45
427	164464	VALVE BUTTERFLY 7010 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.5
428	164468	VALVE BUTTERFLY 7020 HL INLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.5
429	164470	VALVE BUTTERFLY 7020 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
430	164474	VALVE BUTTERFLY 7030 HL INLET	6634-WTTC-PR	1993-01-01	\$ 1,000	0.55
431	164476	VALVE BUTTERFLY 7030 HL OUTLET	6634-WTTC-PR	1993-01-01	\$ 1,000	0.5
432	164480	VALVE BUTTERFLY 7040 HL INLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
433	164482	VALVE BUTTERFLY 7040 HL OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
434	164485	VALVE BUTTERFLY PRV7005 INLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.5
435	164486	VALVE BUTTERFLY PRV7005 OUTLET	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
436	164402	VALVE RELIEF 01 AIR	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
437	164403	VALVE RELIEF 02 AIR	6634-WTTC-PR	2008-08-08	\$ 1,000	0.55
438	164404	TRANSMITTER PRESSURE PRE STR	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
439	164405	TRANSMITTER PRESSURE POST STR	6634-WTTC-PR	2008-08-08	\$ 1,000	0.7
440	164406	TRANSMITTER TEMP POST STRAINER	6634-WTTC-PR	2008-08-08	\$ 1,000	0.6
441	164410	TRANSMITTER PRESSURE RFR TANK	6634-WTTC-PR	2008-08-08	\$ 1,000	0.45
442	164424	MOTOR 2050 ELECTRIC XRP	6634-WTTC-PR	2008-08-08	\$ 1,000	0.45
443	164426	MOTOR 2060 ELECTRIC XRP	6634-WTTC-PR	2008-08-08	\$ 1,000	0.3
444	164450	MOTOR 4310 RF PUMP	6634-WTTC-PR	2008-08-08	\$ 750	0.4
445	164455	MOTOR 4320 ELECTRIC EF	6634-WTTC-PR	2008-08-08	\$ 750	0.5
446	164620	MOTOR 4609 ELECTRIC	6634-WTTC-PR	2008-08-08	\$ 700	0.3
447	62980	ANALYZER CHLORINE Portable	6634-WTTC-PR	2008-08-08	\$ 679	0.8
448	164687	VALVE RELIEF UV1 AIR	6634-WTTC-PR	2008-08-08	\$ 500	0.6
449	164688	VALVE RELIEF UV2 AIR	6634-WTTC-PR	2008-08-08	\$ 500	0.6
450	164681	MOTOR ELECTRIC EF	6634-WTTC-PR	2008-08-08	\$ 500	0.5
451	164612	TRANSMITTER PRESSURE LIT4006	6634-WTTC-PR	1992-01-01	\$ 500	0.25
452	164616	VALVE BUTTERFLY HV4651	6634-WTTC-PR	2008-08-08	\$ 500	0.6



453	164618	VALVE BUTTERFLY HV4607	6634-WTTC-PR	2008-08-08	\$ 500	0.6
454	164621	VALVE BUTTERFLY HV4652	6634-WTTC-PR	2008-08-08	\$ 500	0.55
455	164591	TRANSMITTER PRESSURE LIT4106	6634-WTTC-PR	2008-08-08	\$ 500	0.4
456	164636	TRANSMITTER PRESSURE 4711	6634-WTTC-PR	2008-08-08	\$ 500	0.6
457	164640	TRANSMITTER PRESSURE PIT3104	6634-WTTC-PR	2008-08-08	\$ 500	0.55
458	164641	TRANSMITTER PRESSURE PIT3121	6634-WTTC-PR	2008-08-08	\$ 500	0.6
459	164649	TRANSMITTER PRESSURE PIT3221	6634-WTTC-PR	2008-08-08	\$ 500	0.4
460	164655	TRANSMITTER PRESSURE PIT3304	6634-WTTC-PR	2008-08-08	\$ 500	0.25
461	164656	TRANSMITTER PRESSURE PIT3321	6634-WTTC-PR	2008-08-08	\$ 500	0.35
462	164662	TRANSMITTER PRESSURE PIT3404	6634-WTTC-PR	2008-08-08	\$ 500	0.35
463	164663	TRANSMITTER PRESSURE PIT3421	6634-WTTC-PR	2008-08-08	\$ 500	0.4
464	164593	VALVE BUTTERFLY HV4150	6634-WTTC-PR	2008-08-08	\$ 500	0.5
465	164594	TRANSMITTER TEMP TT4107	6634-WTTC-PR	2008-08-08	\$ 500	0.35
466	164596	VALVE BUTTERFLY V4019	6634-WTTC-PR	2008-08-08	\$ 500	0.55
467	164601	VALVE BUTTERFLY V4032	6634-WTTC-PR	2008-08-08	\$ 500	0.6
468	164602	VALVE BUTTERFLY V4282	6634-WTTC-PR	2008-08-08	\$ 500	0.55
469	164604	VALVE BUTTERFLY V4125	6634-WTTC-PR	2008-08-08	\$ 500	0.6
470	164606	VALVE BUTTERFLY V4227	6634-WTTC-PR	2008-08-08	\$ 500	0.55
471	164608	VALVE BUTTERFLY V4289	6634-WTTC-PR	2008-08-08	\$ 500	0.7
472	164609	TRANSMITTER TEMP TT4007	6634-WTTC-PR	2008-08-08	\$ 500	0.25
473	164610	VALVE BUTTERFLY HV4050	6634-WTTC-PR	2008-08-08	\$ 500	0.55
474	164497	VALVE BUTTERFLY INLET	6634-WTTC-PR	2008-08-08	\$ 500	0.55
475	164374	VALVE BUTTERFLY PRV ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.5
476	164375	VALVE BUTTERFLY BACKFLUSH ISOL	6634-WTTC-PR	2008-08-08	\$ 500	0.5
477	123773	STRAINER 02 RFR AMIAD	6634-WTTC-PR	2008-08-08	\$ 500	0.65
478	164339	VALVE BUTTERFLY 1 ISOLATION LL	6634-WTTC-PR	2008-08-08	\$ 500	0.55
479	164344	VALVE BUTTERFLY 2 ISOLATION LL	6634-WTTC-PR	2008-08-08	\$ 500	0.4
480	164349	VALVE BUTTERFLY 3 ISOLATION LL	6634-WTTC-PR	2008-08-08	\$ 500	0.5
481	164354	VALVE BUTTERFLY 4 ISOLATION LL	6634-WTTC-PR	2008-08-08	\$ 500	0.6
482	164363	TRANSMITTER PRESSURE WEST FLOW	6634-WTTC-PR	2008-08-08	\$ 500	0.4
483	164364	TRANSMITTER PRESSURE EAST FLOW	6634-WTTC-PR	2008-08-08	\$ 500	0.45
484	164445	MOTOR 4214 CDP PUMP	6634-WTTC-PR	2008-08-08	\$ 500	0.4
485	164446	VALVE BUTTERFLY CDP4214	6634-WTTC-PR	2008-08-08	\$ 500	0.6
486	164447	VALVE BUTTERFLY CDP4214	6634-WTTC-PR	2008-08-08	\$ 500	0.6
487	164500	VALVE BUTTERFLY UV1 BY-PASS	6634-WTTC-PR	2008-08-08	\$ 500	0.55
488	164501	VALVE BUTTERFLY UV1 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.6
489	164503	VALVE BUTTERFLY UV1 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.6
490	164504	VALVE BUTTERFLY UV2 BY-PASS	6634-WTTC-PR	2008-08-08	\$ 500	0.55
491	164505	VALVE CHECK UV1 BY-PASS	6634-WTTC-PR	2008-08-08	\$ 500	0.25
492	164506	VALVE BUTTERFLY UV2-A ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.55
493	164508	VALVE BUTTERFLY UV2-B ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.6
494	164509	VALVE BUTTERFLY UV2 BY-PASS	6634-WTTC-PR	2008-08-08	\$ 500	0.6
495	164510	VALVE BUTTERFLY UV OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	0.55
496	164514	ACTUATOR ELECTRIC 01 UV1 COOLING	6634-WTTC-PR	2008-08-08	\$ 500	0.45
497	164515	ACTUATOR ELECTRIC 1 UV2 COOLING	6634-WTTC-PR	2008-08-08	\$ 500	0.45
498	164516	ACTUATOR ELECTRIC 2 UV2 COOLING	6634-WTTC-PR	2008-08-08	\$ 500	0.4
499	164517	ACTUATOR ELECTRIC 02 UV1 COOLING	6634-WTTC-PR	2008-08-08	\$ 500	0.4
500	164518	VALVE BUTTERFLY ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.5
501	164521	VALVE BUTTERFLY ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.55
502	164523	TRANSMITTER PRESSURE PIT7002	6634-WTTC-PR	2008-08-08	\$ 500	0.4
503	164488	TRANSMITTER PRESSURE PIT7005	6634-WTTC-PR	2008-08-08	\$ 500	0.4
504	164494	TRANSMITTER PRESSURE PIT5003	6634-WTTC-PR	2008-08-08	\$ 500	0.4
505	164525	VALVE BUTTERFLY PRV7051 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.4
506	164527	VALVE BUTTERFLY PRV7051 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.5
507	164529	VALVE BUTTERFLY ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.5
508	164530	TRANSMITTER PRESSURE PIT7053	6634-WTTC-PR	2008-08-08	\$ 500	0.4
509	164533	VALVE BUTTERFLY PRV7061 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.6
510	164535	VALVE BUTTERFLY PRV7061 ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.6
511	164537	VALVE BUTTERFLY TRANSFER ISOL	6634-WTTC-PR	1993-01-01	\$ 500	0.5
512	164538	TRANSMITTER PRESSURE PIT7061	6634-WTTC-PR	2008-08-08	\$ 500	0.4
513	164541	VALVE BUTTERFLY GRAHAM ROAD	6634-WTTC-PR	2008-08-08	\$ 500	0.6
514	164542	VALVE BUTTERFLY TRANSFER ISOLATION	6634-WTTC-PR	2008-08-08	\$ 500	0.55
515	164547	VALVE GATE BFP ISOLATION INLET	6634-WTTC-PR	2008-08-08	\$ 500	0.65
516	164549	VALVE GATE BFP ISOLATION OUT	6634-WTTC-PR	2008-08-08	\$ 500	0.6
517	164451	VALVE BUTTERFLY RF4310 INLET	6634-WTTC-PR	2008-08-08	\$ 500	0.45

518	164452	VALVE CHECK RF4310 OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	0.5
519	164453	VALVE BUTTERFLY RF4310 OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	0.65
520	164456	VALVE BUTTERFLY RF4320 INLET	6634-WTTC-PR	2008-08-08	\$ 500	0.7
521	164457	VALVE CHECK RF4320 OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	0.5
522	164458	VALVE BUTTERFLY RF4320 OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	0.65
523	164412	MOTOR 4370 ELECTRIC RFR	6634-WTTC-PR	2008-08-08	\$ 500	0.6
524	164414	MOTOR 4360 ELECTRIC RFR	6634-WTTC-PR	2008-08-08	\$ 500	0.6
525	164415	STRAINER 01 RFR WATER	6634-WTTC-PR	2008-08-08	\$ 500	0.55
526	164417	VALVE BUTTERFLY RFRP4360 INLET	6634-WTTC-PR	2008-08-08	\$ 500	0.6
527	164418	VALVE BUTTERFLY 4360 OUTLET	6634-WTTC-PR	1993-01-01	\$ 500	0.65
528	164419	VALVE BUTTERFLY RFRP4370 INLET	6634-WTTC-PR	1993-01-01	\$ 500	0.55
529	164420	VALVE BUTTERFLY 4370 OUT	6634-WTTC-PR	2008-08-08	\$ 500	0.6
530	164422	TRANSMITTER PRESSURE RFRP	6634-WTTC-PR	2018-11-21	\$ 500	0.75
531	164427	VALVE BUTTERFLY XRP2050 INLET	6634-WTTC-PR	2018-11-28	\$ 500	-0.01
532	164428	VALVE BUTTERFLY XRP2060 INLET	6634-WTTC-PR	2008-08-08	\$ 500	-0.01
533	164429	VALVE BUTTERFLY XRP 2050 OUTLET	6634-WTTC-PR	2008-08-08	\$ 500	-0.01
534	164430	VALVE BUTTERFLY XRP 2060 OUTLET	6634-WTTC-PR	1993-01-01	\$ 500	-0.01
535	164432	VALVE CHECK XRP2050	6634-WTTC-PR	1993-01-01	\$ 500	0.55
536	164433	VALVE CHECK XRP2050	6634-WTTC-PR	2016-01-22	\$ 500	0.6
537	164551	VALVE BUTTERFLY FE7092 ISOLATION	6634-WTTC-PR	2001-01-09	\$ 250	0.4
538	164552	VALVE REGULATING PRESSURE	6634-WTTC-PR	2002-02-03	\$ 250	0.35

**Appendix D – Planned Program**

Tri-County Planned Program

Line #	Asset ID	Asset	Treatment Description	Forecast Cost (\$)	Forecast Year
1	360537	SETTLING POND NEW PLANT	Maintenance	5,000	2023
2	315477	BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	9,898	2023
3	164567	PUMP DIAPHRAGM HPR5110 PEROXIDE	Reconstruction	4,000	2023
4	164579	PUMP DIAPHRAGM ATP4115 CIP ACID	Reconstruction	4,000	2023
5	164588	PUMP DIAPHRAGM CFP8020 CL2 TRIM	Reconstruction	4,000	2023
6	123769	PUMP DIAPHRAGM CTP4015 CIP CAUSTIC	Reconstruction	13,000	2023
7	360540	SCADA SERVER NEW PLANT	Reconstruction	221,000	2023
8	315318	DRIVE VFD HL PUMP 04	Maintenance	13,333	2023
9	315320	DRIVE VFD HL PUMP 01	Rehabilitation	13,333	2023
10	315324	DRIVE VFD HL PUMP 03	Rehabilitation	13,333	2023
11	315319	DRIVE VFD LL PUMP 03	Rehabilitation	8,333	2023
12	315326	DRIVE VFD LL PUMP 01	Rehabilitation	8,333	2023
13	315327	DRIVE VFD LL PUMP 04	Rehabilitation	8,333	2023
14	62685	UPS 01 BATTERY BANK LL	Reconstruction	1,500	2023
15	315494	UPS 02 BATTERY BANK LL	Reconstruction	2,500	2023
16	278217	TANK LOW LIFT SCBA	Reconstruction	8,000	2023
17	164703	SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2023
18	62795	HEATER ELECTRIC UH01	Reconstruction	5,000	2023
19	164643	FILTER 1 WATER MICRO PALL RACK	Reconstruction	380,000	2023
20	360535	PIPING PROCESS ALL BUILDINGS	Maintenance	50,000	2023
21	164502	UV LIGHT 5021	Maintenance	4,000	2023
22	315499	TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2023
23	315500	TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2023
24	315304	COMPRESSOR AIR AC4701 COMPRESSOR B	Reconstruction	11,000	2023
25	164391	STRAINER 2030 RAW WATER	Rehabilitation	5,000	2023
26	164336	MOTOR 1 PUMP ELECT LL	Rehabilitation	5,000	2023
27	164522	ANALYZER CHLORINE AIT7001 PRE HL	Reconstruction	6,500	2023
28	123772	ACTUATOR PNEUMATIC V4019	Reconstruction	3,000	2023
29	315317	VALVE CHLORINE INJECTOR	Reconstruction	7,500	2023
30	164427	VALVE BUTTERFLY XRP2050 INLET	Reconstruction	500	2023
31	164428	VALVE BUTTERFLY XRP2060 INLET	Reconstruction	500	2023
32	164429	VALVE BUTTERFLY XRP 2050 OUTLET	Reconstruction	500	2023
33	164430	VALVE BUTTERFLY XRP 2060 OUTLET	Reconstruction	500	2023
34					
35					
36	360537	SETTLING POND NEW PLANT	Maintenance	5,000	2024
37	360533	BUILDING ROOF NEW PLANT	Maintenance	17,424	2024
38	315478	BUILDING ROADS	Maintenance	84,320	2024
39	360540	SCADA SERVER NEW PLANT	Reconstruction	166,000	2024
40	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2024
41	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2024
42	164703	SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2024
43	62797	HEATER ELECTRIC UH01-A	Rehabilitation	1,479	2024
44	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	4,115	2024
45	62680	HEATER ELECTRIC UH03 ELECTRIC LL	Reconstruction	2,116	2024

46	164644	FILTER 2 WATER MICRO PALL RACK	Reconstruction	400,000	2024
47	360535	PIPING PROCESS ALL BUILDINGS	Maintenance	50,000	2024
48	164502	UV LIGHT 5021	Maintenance	4,000	2024
49	315499	TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2024
50	315500	TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2024
51	164382	STRAINER 2010 WATER RAW	Rehabilitation	5,000	2024
52	164341	MOTOR 2 PUMP ELECT LL	Rehabilitation	5,000	2024
53	164712	METER FLOW GLENCOE CHAMBER	Reconstruction	15,000	2024
54	164716	METER FLOW EAGLE WEST CHAMBER	Reconstruction	15,000	2024
55	164546	ANALYZER CHLORINE AIT7004 DIST	Reconstruction	6,500	2024
56	164617	ACTUATOR PNEUMATIC V4607	Reconstruction	3,000	2024
57	315316	VALVE CHLORINE INJECTOR	Reconstruction	7,500	2024
58					
59					
60	360537	SETTLING POND NEW PLANT	Maintenance	5,000	2025
61	315475	BUILDING FLOOR ALL BUILDINGS	Maintenance	61,243	2025
62	336381	BUILDING ROOF LOW LIFT	Maintenance	4,760	2025
63	336384	BUILDING ROOF OLD PLANT	Maintenance	9,481	2025
64	164573	PUMP DIAPHRAGM BSTP4502 CIP BISUL	Reconstruction	4,000	2025
65	360540	SCADA SERVER NEW PLANT	Maintenance	47,338	2025
66	62779	UPS 01 BATTERY BANK HL	Maintenance	1,500	2025
67	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2025
68	164703	SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2025
69	62797	HEATER ELECTRIC UH01-A	Reconstruction	2,000	2025
70	62798	HEATER ELECTRIC UH01-B	Reconstruction	2,000	2025
71	164611	HEATER 4004 CIP/EFM CAUSTIC	Reconstruction	2,158	2025
72	164438	HEATER UH-0012	Reconstruction	1,248	2025
73	62729	FAN EF06 EXHAUST PLANT	Reconstruction	1,000	2025
74	164705	TANK STORAGE WATER SOUTH	Maintenance	20,000	2025
75	164706	TANK STORAGE WATER NORTH	Maintenance	20,000	2025
76	164651	FILTER 3 WATER MICRO PALL RACK	Reconstruction	420,000	2025
77	164502	UV LIGHT 5021	Maintenance	4,000	2025
78	315499	TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2025
79	315500	TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2025
80	164386	STRAINER 2020 RAW WATER	Rehabilitation	5,000	2025
81	164346	MOTOR 3 PUMP ELECT LL	Rehabilitation	5,000	2025
82	164489	ANALYZER CHLORINE AIT5005 UV INLET	Reconstruction	6,500	2025
83	164597	ACTUATOR PNEUMATIC V4032	Reconstruction	3,000	2025
84	315497	VALVE REGULATING 01 CHLORINE VACUUM OPEI	Reconstruction	7,500	2025
85	62634	VALVE BUTTERFLY 02 ISO LL	Reconstruction	1,000	2025
86	164377	VALVE BUTTERFLY 01 WEST RAW LINE	Reconstruction	1,000	2025
87					
88					
89	360537	SETTLING POND NEW PLANT	Maintenance	5,000	2026
90	315475	BUILDING FLOOR ALL BUILDINGS	Maintenance	42,279	2026
91	315480	BUILDING FENCING	Maintenance	17,498	2026
92	123427	ENGINE DIESEL STANDBY OLD	Reconstruction	27,600	2026
93	123428	GENERATOR ELECTRIC	Reconstruction	28,500	2026
94	164692	PANEL TRANSFER GENERATOR	Reconstruction	17,448	2026
95	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2026
96	62685	UPS 01 BATTERY BANK LL	Reconstruction	1,500	2026
97	164703	SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2026

98	62770 HEATER ELECTRIC 01 FORCED AIR	Reconstruction	2,202	2026
99	164555 HEATER 0014 DIST AREA	Reconstruction	1,273	2026
100	164658 FILTER 4 WATER MICRO PALL RACK	Reconstruction	440,000	2026
101	164502 UV LIGHT 5021	Maintenance	4,000	2026
102	315499 TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2026
103	315500 TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2026
104	164351 MOTOR 4 PUMP ELECT LL	Rehabilitation	5,000	2026
105	164493 ANALYZER CHLORINE AIT5006 UV OUTLET	Reconstruction	6,500	2026
106	164409 TANK PROCESS 4350 WET WELL HOLDING RFR	Reconstruction	15,000	2026
107	164605 ACTUATOR PNEUMATIC V4227	Reconstruction	3,000	2026
108	315498 VALVE REGULATING 02 CHLORINE VACUUM OPEI	Reconstruction	7,500	2026
109				
110				
111	360537 SETTLING POND NEW PLANT	Maintenance	5,000	2027
112	336381 BUILDING ROOF LOW LIFT	Maintenance	23,107	2027
113	123771 PUMP DIAPHRAGM CFP8040 HYPO POST	Reconstruction	7,500	2027
114	164560 PUMP DIAPHRAGM CLTP4402 HYPO CIP	Reconstruction	4,000	2027
115	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2027
116	315494 UPS 02 BATTERY BANK LL	Reconstruction	1,500	2027
117	164743 SAFETY FIRE SYSTEM	Reconstruction	9,404	2027
118	164703 SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2027
119	164671 HEATER AHU0010	Reconstruction	25,000	2027
120	164678 BOILER B-1	Reconstruction	23,000	2027
121	164679 BOILER B-2	Reconstruction	23,000	2027
122	164592 HEATER 4104 ACID CIP TANK	Rehabilitation	1,298	2027
123	164435 HEATER ELECTRIC UH-0013	Reconstruction	2,246	2027
124	62700 FAN 01 EXHAUST CHLORINE BLDG	Reconstruction	1,000	2027
125	62675 FAN EF04 EXHAUST LL	Reconstruction	1,000	2027
126	62676 FAN EF05 EXHAUST LL	Reconstruction	1,000	2027
127	164711 TANK STORAGE WATER WEST LORNE STAND PIPE	Rehabilitation	1,000,000	2027
128	164502 UV LIGHT 5021	Maintenance	20,000	2027
129	315499 TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2027
130	315500 TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2027
131	164472 PUMP CENT 7030 HL	Maintenance	7,500	2027
132	164478 PUMP CENT 7040 HL	Maintenance	7,500	2027
133	164335 PUMP CENT 1 VERT TURBINE LL	Rehabilitation	10,000	2027
134	164345 PUMP CENT 3 VERT TURBINE LL	Rehabilitation	10,000	2027
135	315305 COMPRESSOR AIR AC4702 COMPRESSOR A	Reconstruction	46,274	2027
136	164467 MOTOR 7040 ELECTRIC HL	Rehabilitation	5,000	2027
137	164408 ANALYZER CHLORINE RAW	Reconstruction	6,500	2027
138	164603 ACTUATOR PNEUMATIC V4125	Reconstruction	3,000	2027
139	62653 VALVE BUTTERFLY 03 LL	Reconstruction	1,000	2027
140	62815 VALVE BUTTERFLY 01 ISOL HL	Reconstruction	1,000	2027
141				
142				
143	315312 PUMP DIAPHRAGM CFP8030 HYPO POST UV	Reconstruction	7,500	2028
144	164568 PUMP DIAPHRAGM HPR5120 PEROXIDE	Reconstruction	4,000	2028
145	164589 PUMP DIAPHRAGM CFP8010 CL2 TRIM	Reconstruction	4,000	2028
146	62779 UPS 01 BATTERY BANK HL	Maintenance	1,500	2028
147	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2028
148	164703 SAFETY EMER LIGHTING SAFETY 7	Reconstruction	10,000	2028
149	164442 HEATER UH-0015	Reconstruction	1,549	2028

150	62684 HEATER ELECTRIC UH01 ELECTRIC LL	Reconstruction	2,520	2028
151	164507 UV LIGHT 5022	Maintenance	20,000	2028
152	315499 TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2028
153	315500 TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2028
154	164460 PUMP CENT 7010 HL	Maintenance	7,500	2028
155	164466 PUMP CENT 7020 HL	Maintenance	7,500	2028
156	164340 PUMP CENT 2 VERT TURBINE LL	Rehabilitation	10,000	2028
157	164350 PUMP CENT 4 VERT TURBINE LL	Rehabilitation	10,000	2028
158	315304 COMPRESSOR AIR AC4701 COMPRESSOR B	Reconstruction	47,199	2028
159	164473 MOTOR 7030 ELECTRIC	Rehabilitation	5,000	2028
160	164407 ANALYZER TURBIDITY RAW SCATTER	Reconstruction	6,500	2028
161	164598 ACTUATOR PNEUMATIC V4282	Reconstruction	3,000	2028
162				
163				
164	360537 SETTLING POND NEW PLANT	Maintenance	5,000	2029
165	123764 VEHICLE WTP TRUCK F-250	Reconstruction	50,000	2029
166	123765 VEHICLE WTP TRUCK ARCTIC SNOW PLOW	Reconstruction	7,600	2029
167	62681 LIFTING DEVICE CHAINFALL 01	Reconstruction	460	2029
168	164582 TANK PROCESS CCT4001 CAUSTIC CIP/EFM	Reconstruction	4,478	2029
169	62687 MCC 02 LOW LIFT	Reconstruction	23,000	2029
170	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2029
171	62685 UPS 01 BATTERY BANK LL	Reconstruction	1,500	2029
172	164590 SAFETY EYE WASH/SHOWER 02	Reconstruction	7,464	2029
173	164680 FAN EF0022 EXHAUST	Rehabilitation	1,350	2029
174	62705 HEATER ELECTRIC UH01 CL 2	Reconstruction	2,686	2029
175	164685 HEATER UH0023	Reconstruction	475	2029
176	315499 TANK PROCESS WET WELL 01 EAST LL	Maintenance	5,000	2029
177	315500 TANK PROCESS WET WELL 02 WEST LL	Maintenance	5,000	2029
178	315304 COMPRESSOR AIR AC4701 COMPRESSOR B	Reconstruction	24,072	2029
179	315305 COMPRESSOR AIR AC4702 COMPRESSOR A	Reconstruction	24,072	2029
180	62646 VALVE SLUICE GATE W2 SURGE	Reconstruction	8,700	2029
181	123933 PUMP 1	Reconstruction	10,449	2029
182	62812 VALVE REGULATING 01 FLOW RAW	Reconstruction	4,750	2029
183	164637 ANALYZER PARTICLE AIT3120	Reconstruction	3,800	2029
184	164645 ANALYZER PARTICLE AIT3220	Reconstruction	3,800	2029
185	164647 METER FLOW FIT3205 INLET	Reconstruction	3,800	2029
186	164720 VALVE BACKFLOW 1 PREVENTER	Reconstruction	3,325	2029
187	62640 ANALYZER PH AIT111 LL RAW	Reconstruction	2,760	2029
188	62645 METER LEVEL LIT131 WELL 2 EAST	Reconstruction	2,850	2029
189	164668 ANALYZER PH PORTABLE	Reconstruction	2,375	2029
190	164650 METER FLOW FIT3211 RECIRCULATING	Reconstruction	1,840	2029
191	62708 VALVE BACKFLOW PREVENTER 25030 THOMPSON	Reconstruction	1,840	2029
192	62668 VALVE BACKFLOW PREVENTER 25030 THOMPSON	Reconstruction	1,740	2029
193	62827 VALVE GATE 02 ISOL SP	Reconstruction	1,900	2029
194	62828 VALVE ALTITUDE	Reconstruction	1,840	2029
195	62830 VALVE GATE 03 ISOL SP	Reconstruction	1,900	2029
196	62692 VALVE GATE 03 SERVICE WATER	Reconstruction	950	2029
197	164511 ACTUATOR ELECTRIC UV OUTLET	Reconstruction	920	2029
198	164426 MOTOR 2060 ELECTRIC XRP	Reconstruction	950	2029
199	164612 TRANSMITTER PRESSURE LIT4006	Reconstruction	475	2029
200	164655 TRANSMITTER PRESSURE PIT3304	Reconstruction	475	2029
201	164663 TRANSMITTER PRESSURE PIT3421	Reconstruction	475	2029

202	164505	VALVE CHECK UV1 BY-PASS	Reconstruction	475	2029
203					
204					
205	360537	SETTLING POND NEW PLANT	Maintenance	5,000	2030
206	315477	BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	11,088	2030
207	164694	PANEL POWER FACTOR CORRECTION PFC-0052 EL	Reconstruction	9,500	2030
208	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2030
209	164372	PANEL STARTER 4 LL PUMP	Reconstruction	7,600	2030
210	62642	PANEL CONTROL 01 SAMPLE PUMPS	Reconstruction	3,480	2030
211	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2030
212	164742	SAFETY ATMOSPHERE DETECTOR	Reconstruction	566	2030
213	62796	HEATER ELECTRIC UH05	Reconstruction	1,584	2030
214	164438	HEATER UH-0012	Reconstruction	950	2030
215	62679	HEATER ELECTRIC UH04 ELECTRIC LL	Reconstruction	870	2030
216	62701	FAN 02 EXHAUST CHLORINE BLDG	Reconstruction	920	2030
217	360539	PIPING INTAKE	Maintenance	51,000	2030
218	123933	PUMP 1	Reconstruction	9,200	2030
219	164715	METER FLOW SILVER CLAY CHAMBER	Reconstruction	7,360	2030
220	164639	METER FLOW FIT3105 INLET	Reconstruction	4,350	2030
221	62831	VALVE BUTTERFLY 04 ISOL SP	Reconstruction	4,750	2030
222	62683	PUMP SUBMERSIBLE 01 LL	Reconstruction	3,680	2030
223	62635	METER LEVEL LIT116 WELL 1 EAST	Reconstruction	3,800	2030
224	62672	VALVE BUTTERFLY 02 ISOL BW	Reconstruction	2,610	2030
225	123768	PUMP CENT P4609 NEUTRILIZATION TANK	Reconstruction	2,850	2030
226	164625	METER FLOW FIT9006	Reconstruction	2,300	2030
227	164444	PUMP CENT 4214 CDP	Reconstruction	1,900	2030
228	164425	PUMP CENT 2060 XRP	Reconstruction	1,840	2030
229	164561	METER FLOW 4405 HYPO CIP	Reconstruction	1,425	2030
230	164613	ANALYZER PH AE4620	Reconstruction	920	2030
231	62662	VALVE PLUG 01 ISOL PR LL	Reconstruction	950	2030
232	62791	ANALYZER PH 01 PORTABLE LAB	Reconstruction	920	2030
233	163379	VALVE BUTTERFLY 02 EAST RAW LINE	Reconstruction	920	2030
234	164620	MOTOR 4609 ELECTRIC	Reconstruction	644	2030
235	164609	TRANSMITTER TEMP TT4007	Reconstruction	475	2030
236	164494	TRANSMITTER PRESSURE PIT5003	Reconstruction	475	2030
237					
238					
239	62779	UPS 01 BATTERY BANK HL	Maintenance	1,500	2031
240	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2031
241	164369	PANEL STARTER 1 LL PUMP	Reconstruction	7,360	2031
242	164384	DRIVE 2010 STR CLEAN MOTOR	Reconstruction	920	2031
243	164677	PUMP CENT HWP0035	Reconstruction	9,200	2031
244	62809	VALVE GATE 01 LL	Reconstruction	23,750	2031
245	123934	PUMP 2	Reconstruction	9,500	2031
246	164528	METER FLOW FE7052 EAST DIST	Reconstruction	7,600	2031
247	164600	MOTOR P4204 ELECTRIC RECYCLE	Reconstruction	4,750	2031
248	62833	VALVE BUTTERFLY 05 ISOL SP	Reconstruction	4,350	2031
249	164646	ANALYZER TURBIDITY AIT3219	Reconstruction	3,680	2031
250	164624	METER FLOW FIT9005	Reconstruction	2,175	2031
251	164556	METER LEVEL LIT8004 HYPO DAY TANK	Reconstruction	2,175	2031
252	62826	VALVE GATE 01 ISOL SP	Reconstruction	1,840	2031
253	164483	ACTUATOR ELECTRIC MV7041	Reconstruction	1,840	2031



254	164469	VALVE CHECK 7020 HL OUTLET	Reconstruction	1,425	2031
255	164615	TRANSMITTER PRESSURE 4605	Reconstruction	920	2031
256	62709	VALVE GATE 02 SERVICE WATER	Reconstruction	950	2031
257	62813	VALVE BUTTERFLY 01 ISOL HL	Reconstruction	920	2031
258	164410	TRANSMITTER PRESSURE RFR TANK	Reconstruction	870	2031
259	164656	TRANSMITTER PRESSURE PIT3321	Reconstruction	435	2031
260	164662	TRANSMITTER PRESSURE PIT3404	Reconstruction	460	2031
261	164529	VALVE BUTTERFLY ISOLATION	Reconstruction	460	2031
262	164432	VALVE CHECK XRP2050	Reconstruction	475	2031
263	164552	VALVE REGULATING PRESSURE	Reconstruction	218	2031
264					
265					
266	315475	BUILDING FLOOR ALL BUILDINGS	Maintenance	117,834	2032
267	315476	BUILDING LIGHTING ALL BUILDINGS	Maintenance	17,305	2032
268	123761	LIFTING DEVICE FORK LIFT MAN BASKET	Reconstruction	1,840	2032
269	62794	PANEL TRANSFER 01 ELECT HL	Reconstruction	9,200	2032
270	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2032
271	315493	PANEL PLC CP-1000 LL	Reconstruction	9,200	2032
272	315495	PANEL POWER FACTOR CORRECTION PFC-0056 LL	Reconstruction	9,500	2032
273	164395	DRIVE 2030 STR MOTOR	Reconstruction	920	2032
274	164390	DRIVE 2020 STR MOTOR	Reconstruction	950	2032
275	62685	UPS 01 BATTERY BANK LL	Reconstruction	1,500	2032
276	164704	SAFETY EMER LIGHTING SAFETY 8	Reconstruction	475	2032
277	164678	BOILER B-1	Reconstruction	95,045	2032
278	62710	HEATER ELECTRIC UH02 CL 2	Reconstruction	920	2032
279	62728	HEATER ELECTRIC UH07 PLANT	Reconstruction	950	2032
280	62678	HEATER ELECTRIC UH02 ELECTRIC LL	Reconstruction	950	2032
281	62834	FAN 01 EXHAUST ELECT TOWER	Reconstruction	4,944	2032
282	62667	VALVE GATE 03 PUMP WELL ISOL	Reconstruction	9,200	2032
283	164461	MOTOR 7010 ELECTRIC HL	Reconstruction	9,200	2032
284	164718	METER FLOW B EAGELE EAST CHAMBER	Reconstruction	7,600	2032
285	164627	PUMP SUBMERSIBLE WP9010 DRAIN PUMP	Reconstruction	4,600	2032
286	164654	METER FLOW FIT3305 INLET	Reconstruction	4,600	2032
287	164599	PUMP CENT P4204 RECYCLE	Reconstruction	4,600	2032
288	164545	ANALYZER TURBIDITY AIT7003 DIST	Reconstruction	4,750	2032
289	164648	TRANSMITTER PRESSURE PIT3204	Reconstruction	3,480	2032
290	164652	ANALYZER PARTICLE AIT3320	Reconstruction	3,680	2032
291	164734	VALVE BACKFLOW 3 PREVENTER	Reconstruction	3,220	2032
292	164721	VALVE BACKFLOW 2 PREVENTER	Reconstruction	3,220	2032
293	62717	METER FLOW FIT224 DISPLAY	Reconstruction	2,760	2032
294	164484	VALVE RELIEF 7005 PRESSURE	Reconstruction	2,850	2032
295	164665	METER LEVEL LIT9002	Reconstruction	2,375	2032
296	164571	ANALYZER HPE5105 GAS PEROXIDE	Reconstruction	2,300	2032
297	164569	METER FLOW LIT5102 PEROXIDE T	Reconstruction	1,840	2032
298	164471	ACTUATOR ELECTRIC MV7011	Reconstruction	1,900	2032
299	164477	ACTUATOR ELECTRIC MV7031	Reconstruction	1,740	2032
300	164423	PUMP CENT 2050 XRP	Reconstruction	1,900	2032
301	164580	METER FLOW 4121 CIP ACID	Reconstruction	1,305	2032
302	164577	METER FLOW FIT4017 CIP CAUSTIC	Reconstruction	1,380	2032
303	164574	METER FLOW FIT4505 S.B CIP	Reconstruction	1,425	2032
304	164475	VALVE CHECK 7030 HL INLET	Reconstruction	1,305	2032
305	164498	ACTUATOR ELECTRIC MV5023 UV IN	Reconstruction	950	2032

306	315497	VALVE REGULATING 01 CHLORINE VACUUM OPEI	Reconstruction	870	2032
307	62659	VALVE BUTTERFLY 04 LL	Reconstruction	870	2032
308	62814	VALVE BUTTERFLY 01 ISOL HL	Reconstruction	950	2032
309	164379	VALVE BUTTERFLY 02 EAST RAW LINE	Reconstruction	870	2032
310	164381	VALVE BUTTERFLY 2010 STR ISO	Reconstruction	920	2032
311	164347	VALVE RELIEF 03 AIR LL	Reconstruction	950	2032
312	164464	VALVE BUTTERFLY 7010 HL OUTLET	Reconstruction	920	2032
313	164476	VALVE BUTTERFLY 7030 HL OUTLET	Reconstruction	950	2032
314	164450	MOTOR 4310 RF PUMP	Reconstruction	690	2032
315	164591	TRANSMITTER PRESSURE LIT4106	Reconstruction	460	2032
316	164601	VALVE BUTTERFLY V4032	Reconstruction	460	2032
317	164344	VALVE BUTTERFLY 2 ISOLATION LL	Reconstruction	475	2032
318	164445	MOTOR 4214 CDP PUMP	Reconstruction	475	2032
319	164523	TRANSMITTER PRESSURE PIT7002	Reconstruction	435	2032
320	164488	TRANSMITTER PRESSURE PIT7005	Reconstruction	460	2032
321	164525	VALVE BUTTERFLY PRV7051 ISOLATION	Reconstruction	460	2032
322	164527	VALVE BUTTERFLY PRV7051 ISOLATION	Reconstruction	475	2032
323	164530	TRANSMITTER PRESSURE PIT7053	Reconstruction	475	2032
324	164537	VALVE BUTTERFLY TRANSFER ISOL	Reconstruction	475	2032
325					
326					
327	360537	SETTLING POND NEW PLANT	Maintenance	300,000	2033
328	315478	BUILDING ROADS	Rehabilitation	265,535	2033
329	164570	TANK PROCESS HPT5101 PEROXIDE	Reconstruction	2,850	2033
330	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2033
331	164371	PANEL STARTER 3 LL PUMP	Reconstruction	7,360	2033
332	315486	PANEL BREAKER HLP-7040 HL PUMP 04	Reconstruction	6,960	2033
333	164707	PANEL ALARM/DIALER	Reconstruction	72,710	2033
334	164367	SWITCH DISCONNECT 3 LL PUMP	Reconstruction	1,840	2033
335	164400	DRIVE 2040 STR MOTOR	Reconstruction	950	2033
336	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2033
337	164587	SAFETY EYE WASH/SHOWER 01	Reconstruction	8,700	2033
338	315308	PUMP CENT HWP0034 HEAT RECIRC	Reconstruction	9,200	2033
339	62674	FAN EF03 EXHAUST LL	Reconstruction	5,482	2033
340	315500	TANK PROCESS WET WELL 02 WEST LL	Maintenance	50,000	2033
341	164661	METER FLOW FIT3405 INLET	Reconstruction	4,750	2033
342	164376	VALVE DIAPHRAGM BACKFLUSH RAW	Reconstruction	4,600	2033
343	164634	TANK STORAGE AR4710 AIR	Reconstruction	3,680	2033
344	164659	ANALYZER PARTICLE AIT3420	Reconstruction	3,680	2033
345	63099	VALVE BACKFLOW PREVENTER	Reconstruction	3,325	2033
346	164657	METER FLOW FIT3311 RECIRCULATING	Reconstruction	1,900	2033
347	123018	TRANSMITTER PRESSURE IONA IN	Reconstruction	1,740	2033
348	123310	VALVE BACKFLOW PREVENTER 25030 THOMPSON	Reconstruction	1,840	2033
349	164465	ACTUATOR ELECTRIC MV7011	Reconstruction	1,840	2033
350	164481	VALVE CHECK 7040 HL OUTLET	Reconstruction	1,380	2033
351	164411	PUMP CENT 4370 RFR	Reconstruction	1,425	2033
352	62832	VALVE CHECK 01 SP	Reconstruction	950	2033
353	164383	VALVE BUTTERFLY 2010 STR ISO	Reconstruction	950	2033
354	164360	VALVE BUTTERFLY METER ISO WEST	Reconstruction	920	2033
355	164532	VALVE RELIEF EAST DIST ISOL	Reconstruction	920	2033
356	164462	VALVE BUTTERFLY 7010 HL INLET	Reconstruction	950	2033
357	164470	VALVE BUTTERFLY 7020 HL OUTLET	Reconstruction	870	2033

358	164474	VALVE BUTTERFLY 7030 HL INLET	Reconstruction	920	2033
359	164424	MOTOR 2050 ELECTRIC XRP	Reconstruction	920	2033
360	164640	TRANSMITTER PRESSURE PIT3104	Reconstruction	460	2033
361	164339	VALVE BUTTERFLY 1 ISOLATION LL	Reconstruction	460	2033
362	164506	VALVE BUTTERFLY UV2-A ISOLATION	Reconstruction	435	2033
363	164510	VALVE BUTTERFLY UV OUTLET	Reconstruction	460	2033
364	164451	VALVE BUTTERFLY RF4310 INLET	Reconstruction	460	2033
365					
366					
367	315475	BUILDING FLOOR ALL BUILDINGS	Maintenance	49,442	2034
368	315477	BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	13,745	2034
369	315480	BUILDING FENCING	Maintenance	2,500	2034
370	315479	BUILDING DRAINAGE	Maintenance	10,000	2034
371	315489	LIFTING DEVICE A FRAME 2 TON HL PUMPS AREA	Reconstruction	4,750	2034
372	164731	LIFTING DEVICE SALA TRI-POD	Reconstruction	1,840	2034
373	164559	TANK PROCESS CHLORINE DAY	Reconstruction	870	2034
374	62779	UPS 01 BATTERY BANK HL			2034
375	62836	MCC 03 TOWER			2034
376	164698	PANEL CONTROL CP-2000 HMI			2034
377	164689	MCC MCC-0061 ELECTRICAL ROOM			2034
378	164690	MCC MCC-0060 ELECTRICAL ROOM	Reconstruction	85,734	2034
379	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2034
380	164370	PANEL STARTER 2 LL PUMP			2034
381	315484	PANEL BREAKER HLP-7020 HL PUMP 02			2034
382	164691	PANEL SWB-0051 BREAKER			2034
383	164695	TRANSFORMER AIR T-0053	Reconstruction	1,840	2034
384	164700	TRANSFORMER AIR 0072	Reconstruction	1,900	2034
385	315481	FIRE EXTINGUISHER ALL BUILDINGS	Reconstruction	4,750	2034
386	123762	SAFETY ATMOSPHERIC TESTER	Reconstruction	1,900	2034
387	164743	SAFETY FIRE SYSTEM	Reconstruction	57,683	2034
388	164590	SAFETY EYE WASH/SHOWER 02	Reconstruction	920	2034
389	164703	SAFETY EMER LIGHTING SAFETY 7	Reconstruction	460	2034
390	164629	SAFETY EMER LIGHTING WASHROOM	Reconstruction	460	2034
391	164632	SAFETY EMER LIGHTING SAFETY 1	Reconstruction	475	2034
392	164584	SAFETY EMER LIGHTING CHEMICAL 1	Reconstruction	475	2034
393	164496	SAFETY EMER LIGHTING UV AREA	Reconstruction	475	2034
394	164437	SAFETY EMER LIGHTING MAINT AREA	Reconstruction	475	2034
395	164439	SAFETY EMER LIGHTING W&D AREA LIFT FILT	Reconstruction	435	2034
396	164682	HEAT EXCHANGER AHU0010 AIR CONDITIONER	Rehabilitation	108,774	2034
397	164586	FAN 0021 EXHAUST EMERGENCY	Rehabilitation	5,144	2034
398	360535	PIPING PROCESS ALL BUILDINGS	Maintenance	14,000	2034
399	164460	PUMP CENT 7010 HL	Rehabilitation	69,000	2034
400	62647	VALVE SLUICE GATE 01 INTAKE	Reconstruction	9,200	2034
401	62816	PUMP CENT 01 FIRE TOWER	Reconstruction	9,500	2034
402	123012	ANALYZER TURBIDITY 2 FILTER	Reconstruction	9,200	2034
403	164386	STRAINER 2020 RAW WATER	Reconstruction	9,200	2034
404	164382	STRAINER 2010 WATER RAW	Reconstruction	9,500	2034
405	164361	METER FLOW FIT 1027 RAW WEST DICHARGE	Reconstruction	9,200	2034
406	164396	STRAINER 2040 RAW WATER	Reconstruction	9,500	2034
407	164495	ANALYZER UV AIT5004	Reconstruction	8,700	2034
408	164712	METER FLOW GLENCOE CHAMBER	Reconstruction	7,360	2034
409	164536	METER FLOW FE7062 WEST DIST	Reconstruction	6,960	2034

410	62691 METER FLOW 01 SERVICE WATER	Reconstruction	4,350	2034
411	62661 VALVE CHECK 01 LL	Reconstruction	4,600	2034
412	123766 PUMP CENT P4204 RECYCLE	Reconstruction	4,600	2034
413	123767 MOTOR P4204 ELECTRIC RECYCLE	Reconstruction	4,750	2034
414	164626 VALVE GATE W 69004 SETTLING POND	Reconstruction	2,850	2034
415	164550 METER FLOW FE7092 PROCESS LINE	Reconstruction	2,375	2034
416	62985 METER LEVEL M LIT-6021 Outside Storage tank	Reconstruction	1,981	2034
417	62819 VALVE 01 TOWER ALTITUDE	Reconstruction	1,900	2034
418	164614 ANALYZER CONDUCTIVITY ORP 4619	Reconstruction	950	2034
419	62690 VALVE GATE 01 SERVICE WATER	Reconstruction	920	2034
420	164387 VALVE BUTTERFLY 2020 STR ISO	Reconstruction	920	2034
421	164338 VALVE RELIEF 01 AIR LL	Reconstruction	920	2034
422	164348 VALVE CHECK 3 LL	Reconstruction	920	2034
423	164357 VALVE BUTTERFLY ISOLATION WEST	Reconstruction	950	2034
424	164358 VALVE RELIEF AIR EAST	Reconstruction	920	2034
425	164359 VALVE RELIEF AIR WEST	Reconstruction	950	2034
426	164362 VALVE BUTTERFLY METER ISO WEST	Reconstruction	950	2034
427	164519 VALVE RELIEF AIR	Reconstruction	950	2034
428	164480 VALVE BUTTERFLY 7040 HL INLET	Reconstruction	920	2034
429	164402 VALVE RELIEF 01 AIR	Reconstruction	870	2034
430	164618 VALVE BUTTERFLY HV4607	Reconstruction	475	2034
431	164649 TRANSMITTER PRESSURE PIT3221	Reconstruction	460	2034
432	164604 VALVE BUTTERFLY V4125	Reconstruction	460	2034
433	164374 VALVE BUTTERFLY PRV ISOLATION	Reconstruction	475	2034
434	164375 VALVE BUTTERFLY BACKFLUSH ISOL	Reconstruction	460	2034
435	123773 STRAINER 02 RFR AMIAD	Reconstruction	475	2034
436	164354 VALVE BUTTERFLY 4 ISOLATION LL	Reconstruction	460	2034
437	164363 TRANSMITTER PRESSURE WEST FLOW	Reconstruction	475	2034
438	164501 VALVE BUTTERFLY UV1 ISOLATION	Reconstruction	460	2034
439	164517 ACTUATOR ELECTRIC 02 UV1 COOLING	Reconstruction	435	2034
440	164518 VALVE BUTTERFLY ISOLATION	Reconstruction	460	2034
441	164538 TRANSMITTER PRESSURE PIT7061	Reconstruction	460	2034
442	164452 VALVE CHECK RF4310 OUTLET	Reconstruction	475	2034
443	164457 VALVE CHECK RF4320 OUTLET	Reconstruction	475	2034
444	164420 VALVE BUTTERFLY 4370 OUT	Reconstruction	460	2034
445	164433 VALVE CHECK XRP2050	Reconstruction	460	2034
446				
447				
448	315477 BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	3,934	2035
449	123760 VEHICLE LIFT TRUCK CLAR	Reconstruction	4,600	2035
450	164572 TANK T4510A BISFULFITE DAY	Reconstruction	950	2035
451	164578 TANK PROCESS T4110A CIP ACID DAY	Reconstruction	950	2035
452	164683 MCC MCC-0062 MECHANICAL ROOM	Reconstruction	19,000	2035
453	62778 PANEL PLC ICP-B HL	Reconstruction	9,500	2035
454	164696 PANEL CONTROL UV1			2035
455	164690 MCC MCC-0060 ELECTRICAL ROOM			2035
456	164692 PANEL TRANSFER GENERATOR			2035
457	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2035
458	315490 PANEL LIGHTING LP-0055A HVAC ROOM	Reconstruction	6,960	2035
459	315491 PANEL LIGHTING LP-0055 HVAC ROOM	Reconstruction	7,360	2035
460	315485 PANEL BREAKER HLP-7030 HL PUMP 03			2035
461	164684 TRANSFORMER AIR T-0055	Reconstruction	2,850	2035

462	164365 SWITCH DISCONNECT 1 LL PUMP	Reconstruction	1,900	2035
463	62685 UPS 01 BATTERY BANK LL	Reconstruction	1,500	2035
464	164631 SAFETY EMER LIGHTING BOARDROOM	Reconstruction	460	2035
465	164635 SAFETY EMER LIGHTING SAFETY 3	Reconstruction	460	2035
466	164585 SAFETY EMER LIGHTING CHEMICAL 2	Reconstruction	460	2035
467	164487 SAFETY EMER LIGHTING HL AREA	Reconstruction	460	2035
468	164524 SAFETY EMER LIGHTING HL AREA	Reconstruction	475	2035
469	62674 FAN EF03 EXHAUST LL	Reconstruction	5,246	2035
470	315252 VALVE REGULATING PSI 7061	Reconstruction	28,500	2035
471	62811 VALVE GLOBE 01 BACKFLUSH LL	Reconstruction	23,000	2035
472	62666 VALVE GATE E2 SLUICE SURGE	Reconstruction	9,500	2035
473	123013 ANALYZER TURBIDITY 3 FILTER	Reconstruction	9,500	2035
474	164628 PUMP SUBMERSIBLE WP9020 DRAIN PUMP	Reconstruction	4,750	2035
475	62823 TRANSMITTER PRESSURE 01 LEVEL	Reconstruction	4,750	2035
476	164449 PUMP CENT 4310 RF	Reconstruction	4,350	2035
477	164459 METER FLOW 4301	Reconstruction	4,750	2035
478	164660 ANALYZER TURBIDITY AIT3419	Reconstruction	3,800	2035
479	164607 ACTUATOR PNEUMATIC V4289	Reconstruction	2,850	2035
480	164642 METER FLOW FIT3111 RECIRCULATING	Reconstruction	1,900	2035
481	164664 METER FLOW FIT3411 RECIRCULATING	Reconstruction	1,740	2035
482	315492 VALVE THERMAL MIXING HVAC ROOM	Reconstruction	1,900	2035
483	62660 VALVE BUTTERFLY 01 ISOL LL	Reconstruction	920	2035
484	62818 ACTUATOR ELECTRIC 01 FLOW	Reconstruction	920	2035
485	62825 ACTUATOR ELECTRIC 02 FLOW SP	Reconstruction	920	2035
486	164385 VALVE BUTTERFLY 2010 STR CLEAN DISCHARGE	Reconstruction	950	2035
487	164342 VALVE RELIEF 02 AIR LL	Reconstruction	950	2035
488	164343 VALVE CHECK 2 LL	Reconstruction	920	2035
489	164352 VALVE RELIEF 04 AIR LL	Reconstruction	950	2035
490	164353 VALVE CHECK 4 LL	Reconstruction	870	2035
491	164397 VALVE BUTTERFLY 2040 STR ISO	Reconstruction	870	2035
492	164486 VALVE BUTTERFLY PRV7005 OUTLET	Reconstruction	950	2035
493	164403 VALVE RELIEF 02 AIR	Reconstruction	920	2035
494	164621 VALVE BUTTERFLY HV4652	Reconstruction	435	2035
495	164594 TRANSMITTER TEMP TT4107	Reconstruction	475	2035
496	164596 VALVE BUTTERFLY V4019	Reconstruction	435	2035
497	164602 VALVE BUTTERFLY V4282	Reconstruction	475	2035
498	164606 VALVE BUTTERFLY V4227	Reconstruction	475	2035
499	164497 VALVE BUTTERFLY INLET	Reconstruction	460	2035
500	164364 TRANSMITTER PRESSURE EAST FLOW	Reconstruction	460	2035
501	164500 VALVE BUTTERFLY UV1 BY-PASS	Reconstruction	475	2035
502	164521 VALVE BUTTERFLY ISOLATION	Reconstruction	475	2035
503				
504				
505	360533 BUILDING ROOF NEW PLANT	Maintenance	300,000	2036
506	164581 TANK PROCESS T4601 NEUTRALISATION CIP	Reconstruction	5,700	2036
507	164558 TANK STORAGE CHLORINE	Reconstruction	4,750	2036
508	164575 TANK PROCESS T4010A CAUSTIC DAY	Reconstruction	920	2036
509	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2036
510	164448 BATTERY-CHARGER	Reconstruction	1,840	2036
511	164366 SWITCH DISCONNECT 2 LL PUMP	Reconstruction	1,740	2036
512	315309 TRANSFORMER AIR COMPRESSOR	Reconstruction	1,840	2036
513	315310 TRANSFORMER AIR COMPRESSOR	Reconstruction	1,900	2036

514	164702	TRANSFORMER AIR 0054	Reconstruction	1,740	2036
515	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2036
516	164633	SAFETY EMER LIGHTING SAFETY 2	Reconstruction	435	2036
517	164554	SAFETY EMER LIGHTING DIST AREA	Reconstruction	475	2036
518	164672	HEATER NATURAL GAS MAU0020	Rehabilitation	34,500	2036
519	62835	HEATER ELECTRIC 01 TOWER	Reconstruction	1,784	2036
520	62706	LOUVRE 01 CL2 STORAGE	Reconstruction	5,352	2036
521	164355	METER FLOW FIT1017 EAST DISCHARGE	Reconstruction	9,500	2036
522	164713	METER FLOW PIONEER CHAMBER	Reconstruction	7,600	2036
523	315313	VALVE RELIEF 7074 PRESSURE GRAHAM DIST	Reconstruction	4,750	2036
524	164421	ANALYZER TURBIDITY RFRP DISCHARGE	Reconstruction	4,750	2036
525	164653	ANALYZER TURBIDITY AIT3319	Reconstruction	3,800	2036
526	123026	ANALYZER CHLORINE AIT1401 PRE	Reconstruction	3,480	2036
527	164548	VALVE BACKFLOW PREVENTER	Reconstruction	3,045	2036
528	164380	ACTUATOR ELECTRIC EAST RAW LINE	Reconstruction	2,610	2036
529	164775	VALVE STAND BY RAW WATER INTAKE	Reconstruction	1,840	2036
530	62677	VALVE BACKFLOW PREVENTER 25030 THOMPSON	Reconstruction	1,900	2036
531	164772	ANALYZER DO PROBE LL	Reconstruction	1,425	2036
532	62964	ANALYZER CHLORINE PORTABLE	Reconstruction	1,380	2036
533	164773	ANALYZER PH PROBE LL	Reconstruction	920	2036
534	164393	VALVE BUTTERFLY 2030 STR ISO	Reconstruction	870	2036
535	164356	VALVE BUTTERFLY BUTTERFLY EAST ISOLATION	Reconstruction	920	2036
536	164398	VALVE BUTTERFLY 2040 STR ISO	Reconstruction	920	2036
537	164485	VALVE BUTTERFLY PRV7005 INLET	Reconstruction	920	2036
538	164404	TRANSMITTER PRESSURE PRE STR	Reconstruction	950	2036
539	164406	TRANSMITTER TEMP POST STRAINER	Reconstruction	950	2036
540	164455	MOTOR 4320 ELECTRIC EF	Reconstruction	713	2036
541	164687	VALVE RELIEF UV1 AIR	Reconstruction	460	2036
542	164688	VALVE RELIEF UV2 AIR	Reconstruction	475	2036
543	164616	VALVE BUTTERFLY HV4651	Reconstruction	460	2036
544	164349	VALVE BUTTERFLY 3 ISOLATION LL	Reconstruction	435	2036
545	164447	VALVE BUTTERFLY CDP4214	Reconstruction	460	2036
546	164508	VALVE BUTTERFLY UV2-B ISOLATION	Reconstruction	460	2036
547	164533	VALVE BUTTERFLY PRV7061 ISOLATION	Reconstruction	435	2036
548	164535	VALVE BUTTERFLY PRV7061 ISOLATION	Reconstruction	460	2036
549	164412	MOTOR 4370 ELECTRIC RFR	Reconstruction	475	2036
550	164414	MOTOR 4360 ELECTRIC RFR	Reconstruction	460	2036
551					
552					
553	164724	LIFTING DEVICE MAIN LIFT	Reconstruction	475	2037
554	164622	GENERATOR ELECTRIC STAND-BY	Reconstruction	38,000	2037
555	164623	ENGINE DIESEL STANDBY NEW	Maintenance	153,020	2037
556	123427	ENGINE DIESEL STANDBY OLD	Reconstruction	27,600	2037
557	62779	UPS 01 BATTERY BANK HL	Maintenance	1,500	2037
558	164699	PANEL CONTROL MAIN FILTRATION	Reconstruction	9,500	2037
559	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2037
560	164368	SWITCH DISCONNECT 4 LL PUMP	Reconstruction	1,900	2037
561	164743	SAFETY FIRE SYSTEM	Reconstruction	950	2037
562	164436	SAFETY EMER LIGHTING XR AREA	Reconstruction	460	2037
563	164441	SAFETY EMER LIGHTING LFIT TRUCK	Reconstruction	475	2037
564	164682	HEAT EXCHANGER AHU0010 AIR CONDITIONER	Reconstruction	142,500	2037
565	62795	HEATER ELECTRIC UH01	Reconstruction	1,819	2037

566	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	6,369	2037
567	164502 UV LIGHT 5021	Reconstruction	200,000	2037
568	315499 TANK PROCESS WET WELL 01 EAST LL	Maintenance	50,000	2037
569	164714 METER FLOW MARSH CHAMBER	Reconstruction	6,960	2037
570	315314 VALVE RELIEF 7064 PRESSURE WEST LORNE	Reconstruction	4,600	2037
571	164492 ANALYZER AIT5027 PEROXIDE OUT	Reconstruction	4,600	2037
572	164454 PUMP CENT 4320 RF	Reconstruction	4,600	2037
573	164378 ACTUATOR ELECTRIC WEST RAW LINE	Reconstruction	2,850	2037
574	62689 ANALYZER CHLORINE AAH113 GAS DETECT	Reconstruction	2,300	2037
575	164557 METER LEVEL LIT8002 HYPO TANK	Reconstruction	2,300	2037
576	62990 METER LEVEL M LIT-6021 Outside Storage tank	Reconstruction	1,814	2037
577	164774 ANALYZER PH /DO	Reconstruction	1,900	2037
578	62673 VALVE BACKFLOW PREVENTER 25030 THOMPSON	Reconstruction	1,840	2037
579	164413 PUMP CENT 4360 RFR	Reconstruction	1,380	2037
580	62824 ACTUATOR ELECTRIC 01 FLOW SP	Reconstruction	950	2037
581	164392 VALVE BUTTERFLY 2030 STR ISO	Reconstruction	950	2037
582	164394 VALVE BUTTERFLY 2030 STR ISO	Reconstruction	920	2037
583	164388 VALVE BUTTERFLY 2020 STR ISO	Reconstruction	950	2037
584	164389 VALVE BUTTERFLY 2020 STR CLEAN DISCHARGE	Reconstruction	920	2037
585	164337 VALVE CHECK 1 LL	Reconstruction	870	2037
586	164544 VALVE BUTTERFLY GRAHAM DIST	Reconstruction	920	2037
587	164405 TRANSMITTER PRESSURE POST STR	Reconstruction	920	2037
588	62980 ANALYZER CHLORINE Portable	Reconstruction	645	2037
589	164608 VALVE BUTTERFLY V4289	Reconstruction	460	2037
590	164504 VALVE BUTTERFLY UV2 BY-PASS	Reconstruction	460	2037
591	164516 ACTUATOR ELECTRIC 2 UV2 COOLING	Reconstruction	475	2037
592	164547 VALVE GATE BFP ISOLATION INLET	Reconstruction	475	2037
593	164453 VALVE BUTTERFLY RF4310 OUTLET	Reconstruction	435	2037
594	164456 VALVE BUTTERFLY RF4320 INLET	Reconstruction	460	2037
595	164458 VALVE BUTTERFLY RF4320 OUTLET	Reconstruction	460	2037
596	164419 VALVE BUTTERFLY RFRP4370 INLET	Reconstruction	475	2037
597	164551 VALVE BUTTERFLY FE7092 ISOLATION	Reconstruction	238	2037
598				
599				
600	164725 LIFTING DEVICE LIFT TRI-POD SYSTEM	Reconstruction	1,900	2038
601	164499 MIXER FLASH PEROXIDE SM5025	Reconstruction	2,375	2038
602	164697 PANEL CONTROL UV2	Reconstruction	9,500	2038
603	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2038
604	62685 UPS 01 BATTERY BANK LL	Reconstruction	1,500	2038
605	164701 SAFETY EMER LIGHTING SAFETY 6	Reconstruction	460	2038
606	164686 SAFETY EMER LIGHTING SAFETY 5	Reconstruction	475	2038
607	164693 HEATER UH0016	Reconstruction	1,856	2038
608	164507 UV LIGHT 5022	Reconstruction	200,000	2038
609	62810 VALVE GATE 02 LL	Reconstruction	21,750	2038
610	164717 METER FLOW A	Reconstruction	7,360	2038
611	164638 ANALYZER TURBIDITY AIT3119	Reconstruction	3,680	2038
612	164373 VALVE RELIEF PRESSURE	Reconstruction	2,760	2038
613	315496 SCALE CHLORINE CYLINDER	Reconstruction	2,375	2038
614	164540 VALVE BUTTERFLY WEST DIST ISOLATION	Reconstruction	950	2038
615	164482 VALVE BUTTERFLY 7040 HL OUTLET	Reconstruction	950	2038
616	164641 TRANSMITTER PRESSURE PIT3121	Reconstruction	475	2038
617	164446 VALVE BUTTERFLY CDP4214	Reconstruction	435	2038

618	164503	VALVE BUTTERFLY UV1 ISOLATION	Reconstruction	475	2038
619	164509	VALVE BUTTERFLY UV2 BY-PASS	Reconstruction	475	2038
620	164514	ACTUATOR ELECTRIC 01 UV1 COOLING	Reconstruction	475	2038
621	164515	ACTUATOR ELECTRIC 1 UV2 COOLING	Reconstruction	460	2038
622	164541	VALVE BUTTERFLY GRAHAM ROAD	Reconstruction	475	2038
623	164422	TRANSMITTER PRESSURE RFRP	Reconstruction	475	2038
624					
625					
626	336384	BUILDING ROOF OLD PLANT	Maintenance	37,612	2039
627	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2039
628	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2039
629	315311	HEAT EXCHANGER AHU0030 AIR CONDITIONER	Reconstruction	1,893	2039
630	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	6,369	2039
631	62680	HEATER ELECTRIC UH03 ELECTRIC LL	Reconstruction	3,275	2039
632	315251	VALVE REGULATING PSI 7051	Reconstruction	27,600	2039
633	164490	ANALYZER TURBIDITY AIT5001 UV INLET	Reconstruction	4,750	2039
634	123026	ANALYZER CHLORINE AIT1401 PRE	Reconstruction	3,480	2039
635	62699	ANALYZER CHLORINE AAH112 GAS DETECT	Reconstruction	2,375	2039
636					
637					
638	62779	UPS 01 BATTERY BANK HL	Maintenance	1,500	2040
639	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2040
640	164666	SAFETY EMER LIGHTING SAFETY 4	Reconstruction	435	2040
641	164630	SAFETY EMER LIGHTING MAIN ENTRANCE	Reconstruction	475	2040
642	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	6,759	2040
643	164435	HEATER ELECTRIC UH-0013	Reconstruction	1,856	2040
644	164685	HEATER UH0023	Reconstruction	3,341	2040
645	62638	ANALYZER TURBIDITY AIT109 RAW	Reconstruction	9,500	2040
646	315360	ANALYZER CHLORINE DR900 PORTABLE	Reconstruction	2,175	2040
647	164566	METER FLOW FE5104 PEROXIDE	Reconstruction	1,840	2040
648	164463	VALVE CHECK 7010 HL OUTLET	Reconstruction	1,380	2040
649	164468	VALVE BUTTERFLY 7020 HL INLET	Reconstruction	950	2040
650	164681	MOTOR ELECTRIC EF	Reconstruction	460	2040
651	164593	VALVE BUTTERFLY HV4150	Reconstruction	460	2040
652					
653					
654	315477	BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	68,916	2041
655	164732	LIFTING DEVICE SALA BLOCK	Reconstruction	1,900	2041
656	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2041
657	62685	UPS 01 BATTERY BANK LL	Reconstruction	1,500	2041
658	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	6,893	2041
659	164555	HEATER 0014 DIST AREA	Reconstruction	1,970	2041
660	164693	HEATER UH0016	Reconstruction	3,407	2041
661	164336	MOTOR 1 PUMP ELECT LL	Reconstruction	9,200	2041
662	62688	VALVE BUTTERFLY 01 ISOL RAW LL	Reconstruction	7,360	2041
663	164427	VALVE BUTTERFLY XRP2050 INLET	Reconstruction	460	2041
664					
665					
666	164583	TANK PROCESS ACT4101 ACID CIP	Reconstruction	4,750	2042
667	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2042
668	164401	PANEL CONTROL STRAINER	Reconstruction	2,760	2042
669	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500	2042



670	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,031	2042
671	164438 HEATER UH-0012	Reconstruction	3,475	2042
672	62680 HEATER ELECTRIC UH03 ELECTRIC LL	Reconstruction	2,009	2042
673	123011 ANALYZER TURBIDITY 1 FILTER	Reconstruction	8,700	2042
674	164617 ACTUATOR PNEUMATIC V4607	Reconstruction	2,760	2042
675	248471 PUMP CENT 2 RAW SAMPLING	Reconstruction	950	2042
676	164610 VALVE BUTTERFLY HV4050	Reconstruction	435	2042
677	164542 VALVE BUTTERFLY TRANSFER ISOLATION	Reconstruction	460	2042
678	164415 STRAINER 01 RFR WATER	Reconstruction	475	2042
679				
680				
681	315477 BUILDING DOORS AND WINDOWS ALL BUILDINGS	Maintenance	109,983	2043
682	62779 UPS 01 BATTERY BANK HL	Maintenance	1,500	2043
683	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2043
684	315488 PANEL DISTRIBUTION DP-0053 ELEC ROOM	Reconstruction	8,700	2043
685	315483 PANEL BREAKER HLP-7010 HL PUMP 01	Reconstruction	7,600	2043
686	62770 HEATER ELECTRIC 01 FORCED AIR	Reconstruction	3,545	2043
687	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,173	2043
688	62684 HEATER ELECTRIC UH01 ELECTRIC LL	Reconstruction	2,049	2043
689	62729 FAN EF06 EXHAUST PLANT	Reconstruction	920	2043
690	164346 MOTOR 3 PUMP ELECT LL	Reconstruction	8,700	2043
691	315315 VALVE RELIEF 7054 EAST DIST LINE	Reconstruction	4,750	2043
692	62817 MOTOR 01 BOOSTER ELEC SP	Reconstruction	4,600	2043
693	164431 METER FLOW XR PUMP	Reconstruction	2,760	2043
694	62634 VALVE BUTTERFLY 02 ISO LL	Reconstruction	920	2043
695				
696				
697	360533 BUILDING ROOF NEW PLANT	Maintenance	1,014,561	2044
698	336381 BUILDING ROOF LOW LIFT	Rehabilitation	200,000	2044
699	62682 LIFTING DEVICE 02 BRIDGE LL	Reconstruction	10,000	2044
700	123761 LIFTING DEVICE FORK LIFT MAN BASKET	Reconstruction	10,000	2044
701	62681 LIFTING DEVICE CHAINFALL 01	Reconstruction	5,000	2044
702	164567 PUMP DIAPHRAGM HPR5110 PEROXIDE	Reconstruction	4,750	2044
703	123769 PUMP DIAPHRAGM CTP4015 CIP CAUSTIC	Reconstruction	4,350	2044
704	315318 DRIVE VFD HL PUMP 04	Maintenance	9,200	2044
705	315324 DRIVE VFD HL PUMP 03	Maintenance	2,073	2044
706	315319 DRIVE VFD LL PUMP 03	Reconstruction	17,154	2044
707	315326 DRIVE VFD LL PUMP 01	Reconstruction	17,713	2044
708	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2044
709	62685 UPS 01 BATTERY BANK LL	Reconstruction	1,500	2044
710	278217 TANK LOW LIFT SCBA	Reconstruction	1,840	2044
711	164743 SAFETY FIRE SYSTEM	Reconstruction	45,314	2044
712	164672 HEATER NATURAL GAS MAU0020	Reconstruction	200,900	2044
713	164611 HEATER 4004 CIP/EFM CAUSTIC	Reconstruction	2,091	2044
714	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,315	2044
715	164685 HEATER UH0023	Reconstruction	3,617	2044
716	123772 ACTUATOR PNEUMATIC V4019	Reconstruction	2,760	2044
717	315317 VALVE CHLORINE INJECTOR	Reconstruction	1,840	2044
718	164428 VALVE BUTTERFLY XRP2060 INLET	Reconstruction	475	2044
719	164429 VALVE BUTTERFLY XRP 2050 OUTLET	Reconstruction	435	2044
720	164430 VALVE BUTTERFLY XRP 2060 OUTLET	Reconstruction	460	2044
721				

722				
723	336383	BUILDING ROOF CHLORINE	Maintenance	7,462 2045
724	123771	PUMP DIAPHRAGM CFP8040 HYPO POST	Reconstruction	4,600 2045
725	62687	MCC 02 LOW LIFT	Reconstruction	23,000 2045
726	315482	PANEL LIGHTING LP-0054 ELEC ROOM	Reconstruction	9,200 2045
727	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500 2045
728	315494	UPS 02 BATTERY BANK LL	Reconstruction	1,500 2045
729	62797	HEATER ELECTRIC UH01-A	Reconstruction	2,132 2045
730	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,462 2045
731	62700	FAN 01 EXHAUST CHLORINE BLDG	Reconstruction	950 2045
732	62675	FAN EF04 EXHAUST LL	Reconstruction	475 2045
733	62676	FAN EF05 EXHAUST LL	Reconstruction	460 2045
734	164644	FILTER 2 WATER MICRO PALL RACK	Reconstruction	400,000 2045
735	164335	PUMP CENT 1 VERT TURBINE LL	Reconstruction	14,250 2045
736	164341	MOTOR 2 PUMP ELECT LL	Reconstruction	9,500 2045
737	164467	MOTOR 7040 ELECTRIC HL	Reconstruction	9,500 2045
738	164716	METER FLOW EAGLE WEST CHAMBER	Reconstruction	7,600 2045
739	62829	VALVE REGULATING 01 PRESSURE ALTITUDE	Reconstruction	4,600 2045
740	164637	ANALYZER PARTICLE AIT3120	Reconstruction	3,800 2045
741	315316	VALVE CHLORINE INJECTOR	Reconstruction	1,740 2045
742	164650	METER FLOW FIT3211 RECIRCULATING	Reconstruction	1,840 2045
743	62828	VALVE ALTITUDE	Reconstruction	1,840 2045
744	62653	VALVE BUTTERFLY 03 LL	Reconstruction	950 2045
745	164511	ACTUATOR ELECTRIC UV OUTLET	Reconstruction	920 2045
746	164520	VALVE RELIEF AIR	Reconstruction	870 2045
747	164426	MOTOR 2060 ELECTRIC XRP	Reconstruction	950 2045
748	164663	TRANSMITTER PRESSURE PIT3421	Reconstruction	475 2045
749	164418	VALVE BUTTERFLY 4360 OUTLET	Reconstruction	460 2045
750				
751				
752	315478	BUILDING ROADS	Maintenance	119,603 2046
753	315475	BUILDING FLOOR ALL BUILDINGS	Maintenance	25,443 2046
754	164573	PUMP DIAPHRAGM BSTP4502 CIP BISUL	Reconstruction	4,750 2046
755	62779	UPS 01 BATTERY BANK HL	Maintenance	1,500 2046
756	164694	PANEL POWER FACTOR CORRECTION PFC-0052 EL	Reconstruction	9,500 2046
757	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500 2046
758	315307	HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,611 2046
759	164651	FILTER 3 WATER MICRO PALL RACK	Reconstruction	400,000 2046
760	164340	PUMP CENT 2 VERT TURBINE LL	Reconstruction	13,050 2046
761	164479	MOTOR 7020 ELECTRIC HL	Reconstruction	9,200 2046
762	164489	ANALYZER CHLORINE AIT5005 UV INLET	Reconstruction	5,225 2046
763	164597	ACTUATOR PNEUMATIC V4032	Reconstruction	2,610 2046
764				
765				
766	315478	BUILDING ROADS	Maintenance	121,995 2047
767	315476	BUILDING LIGHTING ALL BUILDINGS	Maintenance	13,974 2047
768	336384	BUILDING ROOF OLD PLANT	Maintenance	34,337 2047
769	123764	VEHICLE WTP TRUCK F-250	Reconstruction	50,000 2047
770	123765	VEHICLE WTP TRUCK ARCTIC SNOW PLOW	Reconstruction	7,600 2047
771	315487	PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500 2047
772	62685	UPS 01 BATTERY BANK LL	Reconstruction	1,500 2047
773	315481	FIRE EXTINGUISHER ALL BUILDINGS	Reconstruction	13,974 2047

774	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,764	2047
775	62646 VALVE SLUICE GATE W2 SURGE	Reconstruction	8,700	2047
776	164351 MOTOR 4 PUMP ELECT LL	Reconstruction	9,200	2047
777	164493 ANALYZER CHLORINE AIT5006 UV OUTLET	Reconstruction	4,785	2047
778	62812 VALVE REGULATING 01 FLOW RAW	Reconstruction	4,750	2047
779	164645 ANALYZER PARTICLE AIT3220	Reconstruction	3,800	2047
780	164720 VALVE BACKFLOW 1 PREVENTER	Reconstruction	3,325	2047
781	62645 METER LEVEL LIT131 WELL 2 EAST	Reconstruction	2,850	2047
782	164668 ANALYZER PH PORTABLE	Reconstruction	2,375	2047
783	62827 VALVE GATE 02 ISOL SP	Reconstruction	1,900	2047
784	164553 METER FLOW FE7082	Reconstruction	1,900	2047
785	164333 TRANSMITTER TEMP RAW SAMPLING	Reconstruction	950	2047
786	164612 TRANSMITTER PRESSURE LIT4006	Reconstruction	475	2047
787	164655 TRANSMITTER PRESSURE PIT3304	Reconstruction	475	2047
788	164529 VALVE BUTTERFLY ISOLATION	Reconstruction	460	2047
789	164432 VALVE CHECK XRP2050	Reconstruction	475	2047
790				
791				
792	315478 BUILDING ROADS	Maintenance	124,436	2048
793	315475 BUILDING FLOOR ALL BUILDINGS	Maintenance	127,824	2048
794	164560 PUMP DIAPHRAGM CLTP4402 HYPO CIP	Reconstruction	4,600	2048
795	315487 PANEL PLC CP-5001 ELEC ROOM	Maintenance	2,500	2048
796	315494 UPS 02 BATTERY BANK LL	Reconstruction	1,500	2048
797	164440 SAFETY EMER LIGHTING MICRO FILT	Reconstruction	460	2048
798	164671 HEATER AHU0010	Reconstruction	9,500	2048
799	164678 BOILER B-1	Reconstruction	4,350	2048
800	164679 BOILER B-2	Reconstruction	4,600	2048
801	164592 HEATER 4104 ACID CIP TANK	Reconstruction	1,900	2048
802	315307 HEATER NATURAL GAS WATER TANKLESS	Reconstruction	7,919	2048
803	62701 FAN 02 EXHAUST CHLORINE BLDG	Reconstruction	920	2048
804	164472 PUMP CENT 7030 HL	Reconstruction	87,000	2048
805	164478 PUMP CENT 7040 HL	Rehabilitation	75,000	2048
806	164603 ACTUATOR PNEUMATIC V4125	Reconstruction	2,850	2048
807	164625 METER FLOW FIT9006	Reconstruction	2,300	2048
808	164425 PUMP CENT 2060 XRP	Reconstruction	1,840	2048
809	164561 METER FLOW 4405 HYPO CIP	Reconstruction	1,425	2048
810	62662 VALVE PLUG 01 ISOL PR LL	Reconstruction	950	2048
811	62815 VALVE BUTTERFLY 01 ISOL HL	Reconstruction	870	2048
812	164381 VALVE BUTTERFLY 2010 STR ISO	Reconstruction	920	2048
813	163379 VALVE BUTTERFLY 02 EAST RAW LINE	Reconstruction	920	2048
814	164601 VALVE BUTTERFLY V4032	Reconstruction	460	2048
815	164494 TRANSMITTER PRESSURE PIT5003	Reconstruction	475	2048