APOPKA CITY COUNCIL AGENDA

March 29, 2017

Starting at approximately 2:30pm OR
Immediately following the 1:30pm Workshop

APOPKA CITY HALL COUNCIL CHAMBERS

Agendas are subject to amendment through
5:00pm on the day prior to City Council Meetings

CALL TO ORDER
INVOCATION - Pastor Randy Green of Journey Christian Church
PLEDGE

APPROVAL OF MINUTES:

1. City Council regular meeting March 1, 2017.

AGENDA REVIEW

PUBLIC COMMENT; STAFF RECOGNITION AND ACKNOWLEDGEMENT

Public Comment Period:

The Public Comment Period is for City-related issues that may or may not be on today's Agenda. If you are here for a matter that requires a public hearing, please wait for that item to come up on the agenda. If you wish to address the Council, you must fill out an Intent to Speak form and provide it to the City Clerk prior to the start of the meeting. If you wish to speak during the Public Comment Period, please fill out a green-colored Intent-to-Speak form. If you wish to speak on a matter that requires a public hearing, please fill out a white-colored Intent-to-Speak form. Speaker forms may be completed up to 48 hours in advance of the Council meeting. Each speaker will have four minutes to give remarks, regardless of the number of items addressed. Please refer to Resolution No. 2016-16 for further information regarding our Public Participation Policy & Procedures for addressing the City Council.

Proclamations:

1. National Telecommunicators Week Proclamation presented to Donna Saladin. — Mayor Joe Kilsheimer
2. Water Conservation Month Proclamation presented to Jay Davoll. — Mayor Joe Kilsheimer

Employee Recognition:

- Ten Year Service Award – Matthew "Matt" Reinhardt – Police/Patrol
- Ten Year Service Award – David Pickels – Public Services/Fleet
- Fifteen Year Service Award – Jennifer Jorge-Wimbley – Police/Communications
- Fifteen Year Service Award – Julie Poole – Police/Communications
- Twenty Year Service Award – Carol Zimmerman – Fire/Chief's Office
- Twenty-Five Year Service Award – Jason Alger – Public Services/Fleet
- Twenty-Five Year Service Award – David Call – Police/Support Services

Presentations:

1. Presentation of the GFOA Distinguished Budget Award. — Tom Klinker

CONSENT (Action Item)

1. Authorize a joint use agreement with The School Board of Orange County.
2. Authorize the entertainment and sale of alcohol at The Symphony Under the Stars Concert.
3. Approve the funding and treatment of termites at the Apopka Police Station.

BUSINESS (Action Item)

1. City Council direction on Edwards Field Grandstand. — Glenn A. Irby
2. Final Development Plan – Fire Station No. 5 – Firehouse Lane, east of Jason Dwelley Parkway - Quasi-Judicial — David Moon

PUBLIC HEARINGS/ORDINANCES/RESOLUTION (Action Item)

1. Resolution 2017-07 - Adoption of a Wastewater Utility Asset Management Plan. — Jay Davoll

CITY COUNCIL REPORTS

MAYOR'S REPORT

ITEMS NOT REQUIRING ACTION

1. Thank you note from Apopka Rotary Club to Mayor Kilsheimer thanking the City for assistance with the Apopka Fair.

ADJOURNMENT

MEETINGS AND UPCOMING EVENTS

DATE	TIME	EVENT
April 6, 2017	5:30pm – 9:00pm	Food Truck Round Up
April 8, 2017	12:00pm – 10:00pm	Apopka Relay for Life – Apopka High School Roger Williams Field
April 10, 2017	6:30pm -	CONA Meeting - UCF Apopka Business Incubator
April 11, 2017	4:00pm – 5:00pm	City Council Workshop – Form Base Code Review
April 11, 2017	5:30pm – 6:30pm	Planning Commission Meeting
April 13, 2017	3:00pm – 5:00pm	City Council Workshop – CRA Procedural Review & CRA Plan Update
April 14, 2017	7:00pm – 8:30pm	Movie in the Park – TBD - Northwest Recreation Complex
April 15, 2017	9:30am –	Easter Eggstravaganza - Northwest Recreation Complex
April 19, 2017	7:00pm –	Council Meeting
April 24, 2017	10:00am – 11:00am	Lake Apopka Natural Gas District Board Meeting: Winter Garden

Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.

Backup material for agenda item:

1. City Council regular meeting March 1, 2017.

CITY OF APOPKA

Minutes of the regular City Council meeting held on March 1, 2017, at 1:30 p.m., in the City of Apopka Council Chambers.

PRESENT: Mayor Joe Kilsheimer
Commissioner Billie Dean
Commissioner Diane Velazquez
Commissioner Doug Bankson
Commissioner Kyle Becker
City Attorney Cliff Shepard
City Administrator Glenn Irby

PRESS PRESENT: Teresa Sargeant - The Apopka Chief
Reggie Connell, The Apopka Voice

INVOCATION: Mayor Kilsheimer introduced Pastor Kevin Goza of Trinity Baptist Church, who gave the invocation.

PLEDGE OF ALLEGIANCE: Mayor Kilsheimer said on March 1, 1961, President John F. Kennedy issued an executive order establishing the Peace Corps, following up on his inaugural address wherein he challenged America's youth to *"ask not what your country can do for you, ask what you can do for your country.*" The program was designed to promote world peace and friendship by sending trained American volunteers to foreign nations to assist in development efforts. In all, more than 225,000 Americans have joined the Peace Corps since 1961, serving in 141 nations. He requested everyone to reflect on the selfishness of the Peace Corps volunteers who help promote peace through service to others as he led in the Pledge of Allegiance.

AGENDA REVIEW: Glenn Irby, City Administrator, advised there is an item to be added under Business with regards to sludge removal at the wastewater plant.

PUBLIC COMMENT/STAFF RECOGNITION AND ACKNOWLEDGEMENT
Public Comment:
Eric Coleman provided an update on the progress and status of the Apopka area Council of Neighborhoods (CONA). He stated the combination of citizens' participation and active neighborhoods will contribute to the improvement of the quality of life in our city. They recently had a speaker from Orange County discussing grants that are available to community associations, up to $20,000. They have a scheduled speaker from the Apopka Police Department to discuss the new parking ordinance at a future meeting. He said their goal is to get all of the HOA officers state certified per the state regulations.

Edward James Walther said his house is on W. Ponkan Road and apparently there are going to be some homes built to the rear of his home. He spoke of a 30 ft. easement to the left of his home, asking if this easement was going to be utilized as an entrance to the proposed subdivision. He inquired if a barrier would be placed between his property and this road.

Mayor Kilsheimer said the Community Development Department will work with him in regards to a solution.

Ray Shackelford again called upon Council to support Commissioner Bankson's request for a 25% reserve fund balance. He called upon Council again to utilize some of the funds from the Apopka Gospel Fest to waive some of the youth sports fees. He applauded the Task Force on Violence presentation and their willingness to address poverty through economic development.

Rod Love said he wanted to follow-up with Council based on the interaction at the last meeting stating it was appreciated the Task Force had the opportunity to present. He stated they received a lot of feedback from stakeholders and the faith leadership regarding a statement made by the Mayor that it was time to have an adult conversation, saying this offended many. He said one of the reports of the Task Force was related to PTSD in the community and Channel 9 did an interview and a report on PTSD. He advised they had a forum yesterday for Community Redevelopment Agencies from Seminole, Orange, Brevard, and Osceola counties.

Proclamations:

1. **Art & Foliage Festival Proclamation presented to GFWC Apopka Woman's Club.**
   Mayor Kilsheimer read a proclamation acknowledging the Art and Foliage Festival and presented it to the GFWC Apopka Woman's Club recognizing them for the 56th Art and Foliage Festival.

Employee Recognition:

Five Year Service Award – Theodore Oliver – Fire/Suppression - Fire Fighter 1st Class –
Theodore began working for the City on February 3, 2012, as a Fire Fighter 1st Class, which is his current position. The Commissioners joined Mayor Kilsheimer in congratulating Theodore on his years of service.

Ten Year Service Award – Eric Hernandez – Recreation/Athletics - Maintenance Worker I
Eric began working for the City on February 5, 2007, as a Maintenance Worker I, which is his current position. The Commissioners joined Mayor Kilsheimer in congratulating Eric on his years of service.

CONSENT (Action Item)

1. Authorize the purchase of vehicles for Public Services, Recreation and Administration.
2. Authorize a Private Street Traffic Enforcement Agreement with Wekiva Run Homeowners Association, Inc.
3. Authorize a Scoreboard Sponsorship Agreement with Major Display Inc. for new Scoreboards.
4. Authorize the Emerson North Townhomes School Concurrency Mitigation Agreement.
5. Authorize the replacement of a computer and dispatch solution for the Fire Department.
6. Award a bid to Space Coast Fire and Safety, Inc. for Security & Fire Alarm systems and approve the associated funding.

Item 3 was pulled for discussion and separate vote.

Commissioner Bankson expressed concern with it not having been budgeted.

Shorty Robins, Major Display Scoreboards, gave a presentation on the custom scoreboards, pointing out there is field recognition on either side of the board. There are ad panels at the bottom utilized as a sports marketing program they are proposing to enter into with the City

of Apopka. The boards can be controlled wireless through Bluetooth. There is a potential of four field naming partners at $15,000 a field, two ad panels on each board that generally cost $5,000 per panel for the advertisement. The package price for four scoreboards is $132,200. The City would be responsible for a deposit of $46,500 and $15,000 to supply power. The remaining balance would be covered through sponsorships sought out by Major Display and these sponsorships would be split 50/50 between the City and Major Display. Once the full cost is met, the agreement would allow for a 70/30 split.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker, to approve Item 3 on the Consent Agenda. Motion carried 3-2 with Mayor Kilsheimer, and Commissioners Velazquez, and Becker voting aye, and Commissioners Dean and Bankson voting nay.

Discussion was held on Items 1 and 6.

MOTION by Commissioner Velazquez and seconded by Commissioner Bankson to approve items 1, 2, 4, 5, and 6 on the Consent Agenda. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

BUSINESS

1. **Plat – Emerson North Townhomes – 1701 Ocoee Apopka Road**
   Mayor Kilsheimer announced this was a quasi-judicial hearing. Witnesses were sworn in by the clerk.

   David Moon provided a brief lead-in advising this was postponed at the February 15, 2017 meeting so the applicant could meet with the developer of the roundabout on Marden Road to coordinate construction and access to the Emerson North Townhomes property. The Plat is for 136 townhomes located to the west of Marden Road and south of S.R. 414. The Final Development Plan was approved by City Council on December 7, 2016. Planning Commission met on February 14, 2017, and recommends approval. DRC also recommends approval.

   Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

   MOTION by Commissioner Becker, and seconded by Commissioner Velazquez to approve the Emerson North Townhomes Plat. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

2. **Emergency Biosolids Removal, Transport, and Disposal from the Water Reclamation Facility**

   Kevin Burgess, Assistant Public Services Director, reported during the Woodard and Curran draft Management and Organizational Evaluation of the Water Reclamation Facility, it was determined that due to increased organic loadings, the facility has become overloaded with

biosolids. It is necessary to remove the excess solids in order to reduce the biosolids. He advised they obtained three proposals and the lowest was Shelley's Septic Tanks at a total cost of $63,400. He said it will take approximately 12 weeks to complete this process.

Discussion ensued regarding Anuvia and what responsibility they may have in regards to this matter.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker to approve the removal of biosolids, transport, and disposal from the Water Reclamation Facility. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

3. **Cooper Sportsplex**
David Burgoon, Recreation Director, said they met with Mr. Cooper this week and discussed a partnership. He stated during that discussion they both felt a public/private partnership just wasn't feasible at this time. He said with everything going on at Cooper Sportsplex, they are busy from 5:00 p.m. to 10:00 p.m. five days a week and the weekends are booked until the end of July. Part of their discussion included if the City wanted to entertain purchasing the complex, this could be an option. He reiterated at this time a public/private partnership would not work to benefit both parties.

Mr. Irby said they would first have to have the facility appraised and Mr. Cooper would have to agree to the appraisal. Mr. Cooper could also have his own appraisal done and the two appraisers would negotiate. Council would have to accept the appraisal. The next step would be to take this to referendum since it would be general fund debt and likely a bond. If approved, then taxes would be increased to pay the debt.

Mike Cooper, owner of Cooper Sportsplex, said they have entertained some conversation and it was agreed by all that a public/private partnership was difficult to arrange due to how busy they are. He spoke of other development in the center they have considered and various opportunities between them and the City of Apopka. He stated the Sportsplex is currently listed at $6.2 million and it will probably appraise over $10 million. He stated they are a construction company and not designed to run a facility such as this.

PUBLIC HEARINGS/ORDINANCES/RESOLUTION

1. **Ordinance No. 2527 – Second Reading – Code of Ordinances, Part II, Chapter 78 - Parking -** The City Clerk read the title as follows:

ORDINANCE NO. 2527

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING CHAPTER 78 "TRAFFIC AND MOTOR VEHICLES," ARTICLE I, "IN GENERAL," SECTION 78-1 "DEFINITIONS" AND AMENDING CHAPTER 78 "TRAFFIC AND MOTOR VEHICLES," ARTICLE II, "STOPPING, STANDING AND PARKING" IN ITS ENTIRETY; PROVIDING FOR CODIFICATION; PROVIDING FOR SEVERABILITY;

PROVIDING FOR CONFLICTS, AND SETTING AN EFFECTIVE DATE.

Mayor Kilsheimer opened the meeting to a public hearing. No one else wishing to speak, he closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Dean, to adopt Ordinance No. 2527. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

2. **Ordinance No. 2555 – First Reading – Comprehensive Plan – Small Scale Amendment.** The City Clerk read the title as follows:

ORDINANCE NO. 2555

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE FUTURE LAND USE ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM "COUNTY" RURAL (1 DU/10 AC) TO "CITY" AGRICULTURE (1 DU/5 AC) FOR CERTAIN REAL PROPERTY LOCATED AT PLYMOUTH SORRENTO ROAD, COMPRISING 4.01 ACRES MORE OR LESS, AND OWNED BY SMITH FAMILY REVOCABLE LIVING TRUST; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

Elizabeth Florence, Planner, provided a brief lead-in reviewing the location of the property and the surrounding land-use. The Planning Commission at their February 14, 2017 meeting found the proposed amendment consistent with the comprehensive plan and consistent with the surrounding area, recommending approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker, to approve Ordinance No. 2555 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

3. **Ordinance No. 2556 – First Reading - Administrative Rezoning – Quasi-Judicial.** The City Clerk read the title as follows:

ORDINANCE 2556

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-2 (AGRICULTURE) TO "CITY" AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 4.01 ACRES, MORE OR LESS, AND OWNED BY SMITH FAMILY

REVOCABLE LIVING TRUST; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Mayor Kilsheimer advised this was a quasi-judicial hearing. Witnesses were sworn in by the clerk.

Ms. Florence said this was the same property and they were requesting a change in zoning due to Policy 3.9 of the Comprehensive Plan requiring the City to apply zoning to annexed properties. The Planning Commission and DRC recommend approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Dean, to approve Ordinance No. 2556 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

4. **Ordinance No. 2557 – First Reading - Administrative Rezoning – Quasi-Judicial.** The City Clerk read the title as follows:

ORDINANCE NO. 2557

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-2 (AGRICULTURE) TO "CITY" AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 2.10 ACRES, MORE OR LESS, AND OWNED BY MARY M. ASHBURN BALLINGS; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Ms. Florence advised this was an administrative rezoning for the property owned by Mary M. Ashburn Ballings required by the Comprehensive Plan Policy 3.9. She reviewed the property location and advised the zoning is consistent with the surrounding properties. The Planning Commission and DRC recommend approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Dean, and seconded by Commissioner Becker, to approve Ordinance No. 2557 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

5. **Ordinance No. 2558 – First Reading - Administrative Rezoning – Quasi-Judicial.** The City Clerk read the title as follows:

ORDINANCE NO. 2558

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-1 (AGRICULTURE) TO "CITY" AG (AGRICULTURE) FOR CERTAIN REAL PROPERTIES GENERALLY LOCATED WITHIN THE CITY LIMITS OF APOPKA, COMPRISING 927 ACRES, MORE OR LESS, AND OWNED BY TIITF/DEP; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE

Ms. Florence advised this was another administrative rezoning as per Policy 3.9 of the Comprehensive Plan. The rezoning is compatible with the surrounding properties. Planning Commission and DRC recommend approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker, to approve Ordinance No. 2558 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

6. **Ordinance No. 2560 – First Reading - Comprehensive Plan – Large Scale Amendment.** The City Clerk read the title as follows:

ORDINANCE NO. 2560

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE FUTURE LAND USE ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM RURAL SETTLEMENT (0-1 DU/5 AC) TO RESIDENTIAL VERY LOW SUBURBAN (0-2 DU/AC) FOR CERTAIN REAL PROPERTY GENERALLY LOCATED NORTH OF PONKAN ROAD AND EAST OF GOLDEN GEM ROAD, COMPRISING 23.43 ACRES, MORE OR LESS AND OWNED BY PROJECT ORLANDO, LLC; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

Kyle Wilkes, Planner, said this project is a large scale future land use map amendment by Project Orlando, LLC. He stated the 23.43 acre parcel is generally located north of W Ponkan Road, and east of Golden Gem Road. The subject property currently contains a container nursery and it is surrounded primarily to the west by single family residential, agriculture, and city owned conservation land to the north, and Zellwood Station to the

south. Staff and DRC reviewed and found this application consistent with the Apopka Comprehensive Plan. The Planning Commission and DRC recommends approval and transmittal of this large scale future land use map amendment to the Department of Economic Opportunity.

Mayor Kilsheimer opened the meeting to a public hearing.

Phillip Simmons said he is in Orange County and expressed concerns with this development. His property is adjoining this, stating his property is approximately 1320 square feet. He asked what kind of impact this will have for the residents in that area that are agricultural. He expressed concerns with impact it could have on their property taxes. He also had concerns with the traffic impact, stating at this time during the mornings the traffic on Plymouth Sorrento Road is backed up to Yothers Road from 441. He asked the Council to please consider these points.

Cindi Cioci said she was Mr. Simmons neighbor and she was directly across the street from the property he was speaking about. She also has the same concerns and would like to know the reduction in density and inquired if they were building single family homes. She also spoke of the traffic and how dangerous it is becoming.

Commissioner Becker said the staff report states 46 single family homes.

Jeff Welch said he appreciates the staff time on this and the unanimous vote by the Planning Commission. He advised this is a future land use, stating they do not have anything planned for this property at this time. He stated it would be appropriate to have meetings with the neighbors at that time as they come up for ideas for this property. He said they felt this was consistent with the land use up and down Plymouth Sorrento. He agreed there would be a need in the future for upgrades of both Plymouth Sorrento, Ponkan, and Kelly Park roads. He reiterated they were not proposing any development at this time.

Mr. Walthers said he understood these were being rezoned from agriculture to residential so they can build on them. He asked if this was being done so they could make the lots smaller to build on. He stated people moved out to be able to have more land

No one else wishing to speak, Mayor Kilsheimer closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Bankson, to approve Ordinance No. 2560 at First Reading and transmittal to the State. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

City Council recessed at 3:31 p.m. and reconvened at 3:38 p.m.

7. **Ordinance No. 2561 – First Reading - Comprehensive Plan – Capital Improvement Element – Legislative.** The City Clerk read the title as follows:

ORDINANCE NO. 2561

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE CAPITAL IMPROVEMENTS ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; INCORPORATING AN AMENDMENT TO THE CITY'S FIVE YEAR CAPITAL IMPROVEMENTS PLAN; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

Mr. Wilkes said this was a proposed amendment to the City's Five Year Capital Improvement Plan, incorporated into the Capital Improvement Element of the Comprehensive Plan. Council recently approved the annual update. However, subsequent to that approval, a grant opportunity arose through the Florida Department of Environmental Protection and the City is proposing to use a potential $200,000 through this grant, should it be awarded, for incorporation of a fitness trail and/or track at Kit Land Nelson Park to complement future improvements, as well as access to the West Orange Trail. As part of the process, an award point is given for a public hearing before the grant application was submitted. This was done on February 14, 2017, at Planning Commission. Other points are also given for incorporation of the proposed grant project into the CIP. The request is to add two items through amendment to the Five-Year CIP, including the requested $200,000 from the DEP grant, as well as the 40% required match of $80,000 by the City of Apopka. The Planning Commission recommended adoption of the amendment to the CIP at their February 14, 2017 meeting.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker, to approve Ordinance No. 2561 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

8. **Ordinance No. 2562 – First Reading - Comprehensive Plan – Small Scale Amendment – Legislative.** The City Clerk read the title as follows:

ORDINANCE NO. 2562

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE FUTURE LAND USE ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM "COUNTY" LOW DENSITY RESIDENTIAL, (0-4 DU/AC) TO "CITY" OFFICE (MAX. FAR 0.30), FOR CERTAIN REAL PROPERTY GENERALLY LOCATED EAST OF SOUTH PARK AVENUE AND NORTH OF RAND COURT, COMPRISING 0.82 ACRES MORE OR LESS, AND OWNED BY APOPKA HOLDINGS, LLC; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN

EFFECTIVE DATE.

Mr. Wilkes provided a brief lead-in stating this was a small scale future land use map amendment by Apopka Holdings LLC for property located east of S. Park Avenue, north of Rand Court. These properties were recently annexed and require both a future land use map and zoning designation assignment. The applicant intends to use the subject property for parking to meet minimum parking requirements for the Central Florida Recovery Center that was recently approved. DRC and Planning Commission both recommend approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Dean, to approve Ordinance No. 2562 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

9. **Ordinance No. 2563 – First Reading - Change of Zoning – Quasi-Judicial.** The City Clerk read the title as follows:

ORDINANCE NO. 2563

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" R-3 (RESIDENTIAL) TO PLANNED UNIT DEVELOPMENT (PUD-PO-I); FOR CERTAIN REAL PROPERTY GENERALLY LOCATED EAST OF SOUTH PARK AVENUE AND NORTH OF RAND COURT, COMPRISING 0.82 ACRES MORE OR LESS, AND OWNED BY APOPKA HOLDINGS, LLC; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Mayor Kilsheimer advised this was a quasi-judicial hearing. Witnesses were sworn in by the clerk.

Mr. Wilkes said this was the associated change of zoning request to the previously mentioned small scale land use map amendment. The request is to change the zoning from County R-3 to Planned Unit Development (PUD – PO-I). The existing and proposed use of the property is consistent with the Office Future Land Use designation. DRC and Planning Commission recommend approval.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Becker, and seconded by Commissioner Velazquez, to approve Ordinance No. 2563 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

10. **Resolution No. 2017-04 - Recreation Master Plan.** The City Clerk read the title as follows:

RESOLUTION NO. 2017-04

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, ADOPTING THE PARKS & RECREATION MASTER PLAN AS A CONCEPTUAL PLAN FOR THE DEVELOPMENT AND MAINTENANCE OF APOPKA PARKS; AUTHORIZING THE MAYOR OR HIS DESIGNEE TO PREPARE IMPLEMENTATION MEASURES; PROVIDING AN EFFECTIVE DATE.

David Burgoon, Recreation Director, said in November during a workshop the Parks and Recreation Master Plan was presented. At that time several suggestions were made and these have been addressed in the Master Plan. As part of Policy 3.3 of the Apopka Comprehensive Plan, Recreation Element, they are requesting approval by Resolution of the Recreation Master Plan.

Commissioner Bankson said this was a conceptual plan, so it does not mean these are set in stone, but a direction.

Mr. Burgoon responded in the affirmative.

Mayor Kilsheimer opened the meeting to a public hearing.

Bill Spiegel said as a member of the Parks and Recreation Review Committee, and having attended the workshop, there were several issues with the plan. He requested that Council strike the page highlighting a central park concept of Edwards Field and Kit Land Nelson Park, because he believes they have not done their due diligence. He said there were many viable alternatives to consider prior to putting this in the Master Plan. He also said the RFP for the splash pad had no mention of restrooms.

Mr. Irby said this does not lock in the City and there are many steps to get to the end product. The next step, at some point, will be to hire an architect and during that time Council will be advised and voting on every step.

Linda Laurendeau said earlier in the meeting they gave a proclamation to the GFWC Apopka Woman's Club who sponsors the Art and Foliage Festival. She said the last time they were here speaking about that they were hoping nothing would happen prior to the Festival. She stated she understands there is a bid out for a splash pad, but she would like assurance that nothing will happen until the close of Festival on April 30, 2017.

No one else wishing to speak, Mayor Kilsheimer closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Becker, to approve Resolution No. 2017-04. Motion carried unanimously with Mayor Kilsheimer,

and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

11. **Resolution No. 2017-05 - Governmental Lease- Purchase.** The City Clerk read the title as follows:

RESOLUTION NO. 2017-05

A RESOLUTION AUTHORIZING THE NEGOTIATIONS, EXECUTION, AND DELIVERY OF GOVERNMENTAL LEASE-PURCHASE AGREEMENT NO. 008-0713393-300 DATED JANUARY 23, 2017 (THE "LEASE"), IN PRINCIPAL AMOUNT NOT TO EXCEED $217,998.24, BETWEEN CITY OF APOPKA, 11 NORTH FOREST AVE., APOPKA, FL 32704 AND TCF EQUIPMENT FINANCE, A DIVISION OF TCF NATIONAL BANK, 1111 WEST SAN MARNAN DR., SUITE A2 WEST WATERLOO, IA 50701-8926; AND PRESCRIBING OTHER DETAILS IN CONNECTION THEREWITH.

Mr. Burgoon said the lease-purchase was previously approved by the City Council on January 4, 2017. The company requires a resolution to move forward.

Mayor Kilsheimer opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Velazquez, to approve Resolution No. 2017-05. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

12. **Resolution No. 2017-06 - FACC 45th Anniversary.** The City Clerk read the title as follows:

RESOLUTION NO. 2017-06

A RESOLUTION OF THE CITY OF APOPKA COMMENDING THE FLORIDA ASSOCIATION OF CITY CLERKS FOR ITS 45TH ANNIVERSARY.

Commissioner Velazquez said her first year of serving as Commissioner the City Clerk's office was very helpful for her and continues to offer help through professionalism not only to them, but to the public.

Mayor Kilsheimer opened the meeting to a public hearing.

Linda Laurendeau said the City Clerk's office is the place of calm in a sea of constant activity. She spoke of working through an election with the City Clerk's office and how the standard is set from the beginning with everything being explained. She said there were 411 municipalities in Florida and the City of Apopka was one of the best.

No one else wishing to speak, Mayor Kilsheimer closed the public hearing.

MOTION by Commissioner Velazquez, and seconded by Commissioner Bankson, to approve Resolution No. 20017-06. Motion carried unanimously with Mayor Kilsheimer, and Commissioners Dean, Velazquez, Becker, and Bankson voting aye.

CITY COUNCIL REPORTS
Commissioner Dean said he would like to see Public Comment moved back to where it used to be so that Council can comment.

Commissioner Becker said he would like to let this remain for a year. However, he was not opposed to looking into it again.

Commissioner Velazquez said when this was approved by resolution in July, they looked at other municipalities and found that most do their public comment at the beginning so residents can share their concern or comment and be able to leave rather than having to stay to the end of the meeting.

In response to Commissioner Bankson expressing concern regarding refile of a lawsuit against Richard Anderson, City Attorney Shepard said if the City did not pursue this, he may decide to pursue this matter. City Attorney Shepard explained if there was a need to discuss pending litigation, they could call a shade meeting.

MAYOR'S REPORT – There was no report.

SPECIAL REPORTS
1. Eagle Scout Daniel Baughman gave a presentation on his project to do repairs/replacement to the Cemetery Gazebo. He said the plan is to have it completed in June.

ITEMS NOT REQUIRING ACTION
1. Thank you note to elected officials from Commissioner Betsy VanderLey for flowers at former Oakland Mayor Jon VanderLey's funeral.

ADJOURNMENT – There being no further business the meeting adjourned at 4:49 p.m.

_____
Joseph E. Kilsheimer, Mayor

ATTEST:

_____
Linda F. Goff, City Clerk

Backup material for agenda item:

1. Presentation of the GFOA Distinguished Budget Award. Tom Klinker

Government Finance Officers Association
203 North LaSalle Street, Suite 2700
Chicago, Illinois 60601-1210
312.977.9700 *fax:* 312.977.4806

February 23, 2017

The Honorable Joseph E. Kilsheimer
Mayor
City of Apopka
120 E. Main Street
Apopka, FL 32703

Dear Mayor Kilsheimer:

I am pleased to notify you that City of Apopka, Florida has received the Distinguished Budget Presentation Award for the current budget from the Government Finance Officers Association (GFOA). This award is the highest form of recognition in governmental budgeting and represents a significant achievement by your organization.

When a Distinguished Budget Presentation Award is granted to an entity, a Certificate of Recognition for Budget Presentation is also presented to the individual or department designated as being primarily responsible for its having achieved the award. This has been presented to:

Finance Department

We hope you will arrange for a formal public presentation of the award, and that appropriate publicity will be given to this notable achievement. A press release is enclosed for your use.

We appreciate your participation in GFOA's Budget Awards Program. Through your example, we hope that other entities will be encouraged to achieve excellence in budgeting.

Sincerely,

Todd Buikema, Acting Director
Technical Services Center

Enclosure

RECEIVED
2017
FEB 28 REC'D
MAYOR'S OFFICE

Washington, DC Office
1301 Pennsylvania Avenue, N.W., Suite 309 • Washington, DC 20004 • 202.393.8020 • *fax:* 202.393.0780
www.gfoa.org

Government Finance Officers Association
203 North LaSalle Street, Suite 2700
Chicago, Illinois 60601-1210
312.977.9700 *fax:* 312.977.4806

February 23, 2017

PRESS RELEASE

For Further Information Contact
Todd Buikema 312-977-9700

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Chicago--The Government Finance Officers Association of the United States and Canada (GFOA) is pleased to announce that **City of Apopka, Florida** has received the GFOA's Distinguished Budget Presentation Award for its budget.

The award represents a significant achievement by the entity. It reflects the commitment of the governing body and staff to meeting the highest principles of governmental budgeting. In order to receive the budget award, the entity had to satisfy nationally recognized guidelines for effective budget presentation. These guidelines are designed to assess how well an entity's budget serves as:

- a policy document
- a financial plan
- an operations guide
- a communications device

Budget documents must be rated "proficient" in all four categories, and the fourteen mandatory criteria within those categories, to receive the award.

When a Distinguished Budget Presentation Award is granted to an entity, a Certificate of Recognition for Budget Presentation is also presented to the individual or department designated as being primarily responsible for its having achieved the award. This has been presented to **Finance Department**.

For budgets beginning in 2015, 1,565 participants received the Award. Award recipients have pioneered efforts to improve the quality of budgeting and provide an excellent example for other governments throughout North America.

The Government Finance Officers Association is a major professional association servicing the needs of nearly 19,000 appointed and elected local, state, and provincial-level government officials and other finance practitioners. It provides top quality publications, training programs, services, and products designed to enhance the skills and performance of those responsible for government finance policy and management. The association is headquartered in Chicago, Illinois, with offices in Washington D.C. The GFOA's Distinguished Budget Presentation Awards Program is the only national awards program in governmental budgeting.

Backup material for agenda item:

1. Authorize a joint use agreement with The School Board of Orange County.

CITY OF APOPKA
CITY COUNCIL

_X_ CONSENT AGENDA
___ PUBLIC HEARING
___ SPECIAL REPORTS
___ OTHER:

MEETING OF: March 29, 2017
FROM: Recreation
EXHIBITS: Joint Use Agreement

SUBJECT: **JOINT USE AGREEMENT**

REQUEST: **APPROVAL TO ENTER INTO A JOINT USE AGREEMENT WITH THE SCHOOL BOARD OF ORANGE COUNTY**

SUMMARY:

The Recreation Department is requesting direction to enter into a joint use agreement with The School Board of Orange County to provide adequate recreational and physical education programs for each parties respective use. The City of Apopka section includes all of the events required for the year. The agreement is for one year and requires an annual renegotiation thereafter. The following events are identified for both entities:

Orange County School Board Sanctioned Events			
Facilities	**Event**	**Date**	**Value**
Apopka's Amphitheater	Apopka Art & Jazz Festival	April 1, 2017	$ 2,600.00
Northwest Recreation Complex	AHS Football Practice	April 24 – May 26, 2017	$ 1,350.00
Northwest Recreation Complex	AHS Girls Soccer	Oct 9 - Nov 17, 2017	$ 1,050.00
Northwest Recreation Complex	AHS Boys Soccer	Oct 9 - Nov 17, 2017	$ 1,050.00
Northwest Recreation Complex	AHS Boys Lacrosse	Jan 9, 2017 – Apr 14, 2017	$ 2,625.00
Apopka Athletic Complex	AHS Girls Lacrosse	Jan 9, 2017 – Apr 14, 2017	$ 2,625.00
		Total	$ 11,300.00

City of Apopka			
Facilities	**Event**	**Date/time**	**Value**
Apopka High School Auditorium	Miss Apopka Pageant	Nov 4, 2017	$ 600.00
Wolf Lake Middle Gymnasium	Spring Basketball League	April 1 – May 27, 2017	$ 5,115.00
Wolf Lake Middle Gymnasium	Summer Basketball League	June 1 – Aug 13, 2017	$ 5,115.00

Wolf Lake Middle Parking Lots	Event Parking for OFOF & July 4th	Feb 11, 2017 & July 4, 2017	$ -
		Total	$ 10,830.00

The Recreation Department is striving to offer more quality programs at a high level of service and this agreement would add to that value.

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

Approval to enter into a Joint Use Agreement with Orange County Public Schools.

DISTRIBUTION

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

JOINT USE AGREEMENT

THIS JOINT USE AGREEMENT ("Agreement") is made and entered into as of the Effective Date (hereinafter defined) between **THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA,** a public corporation body and political subdivision of the State of Florida, with its principal offices at 445 West Amelia Avenue, Orlando, Florida 32801 (hereinafter referred to as the "School Board"), and **CITY OF APOPKA**, a municipality duly enacted under the laws of the State of Florida, with its principal offices at 120 East Main Street, Apopka, Florida 32703 ("City").

WITNESSETH

WHEREAS, the City and the School Board are interested in and concerned with the development and provision of adequate parks and recreational facilities for their respective use for physical education programs and for the recreational enrichment, human development, and well being of the students and people of the local community; and

WHEREAS, Section 163.01, Florida Statutes, the Florida Interlocal Cooperation Act of 1969, authorizes local governmental entities to make the most efficient use of their powers by enabling them to cooperate on a basis of mutual advantage and, thereby, to provide services and facilities in a manner that will accord best with geographic, economic, population, and other factors influencing the needs and development of local communities; and

WHEREAS, the School Board owns land and recreational facilities located within the City of Apopka; and

WHEREAS, a cooperative effort between the City and the School Board will enable recreational sites to be utilized without duplication of efforts and expenditures; and

WHEREAS, the School Board owns the educational facilities known as Apopka High School and Wolf Lake Elementary School (individually referred to as "School, collectively referred to herein as "Schools"); and

WHEREAS, the City owns that certain real property adjacent to Apopka High School commonly referred to as Northwest Recreational Complex as more particularly described in **Exhibit "A"** attached hereto and incorporated herein by reference ("Recreational Complex"); and

WHEREAS, the City has agreed to permit the School Board to utilize certain athletic facilities within the Recreational Complex for for physical education and athletic practices and events for football, soccer and lacrosse for the School, subject to the terms and conditions contained herein and more particularly depicted in **Exhibit "B"** attached hereto and incorporated herein by reference; and

WHEREAS, in exchange for the use of the Recreational Complex by the School Board, the City has requested the use of the community reader boards located at the Schools and certain

facilities within the Schools for those certain special events and activities either hosted or sponsored by the City (collectively, the "Special Events") as more particularly set forth in **Exhibit "C"** attached hereto and incorporated herein by reference (collectively, the "Special Events Schedule"); and

WHEREAS, the School Board and the City wish to enter into this Agreement, to set forth the terms and conditions regarding use and maintenance of the School Facilities; and

WHEREAS, the School Board and the City desire that this Agreement supersede any and all previous agreements setting forth the terms and conditions of the construction, maintenance and use of the Schools and the School Facilities.

Now Therefore, for and in consideration of the premises, the payment of Ten and No/100 Dollars ($10.00) in hand paid by School Board to City, the mutual covenants and agreements herein set forth, and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby expressly acknowledged by the parties hereto, the School Board and the City hereby covenant and agree to and with each other as follows:

1. **Recitals.** The recitals set forth above are true and correct and are hereby incorporated into this Agreement.

2. **Definitions.** As used in this Agreement, the following words shall have the following meaning:

a. "Principal" means individually the principal of a School or collectively, the principals of the Schools.

b. "School Term" means and includes days during which student classes are regularly scheduled at the School, but shall not include Saturdays, Sundays, holidays or breaks during which time classes are not in session, with the exception of scheduled School-related activities or functions that occur on such days; specifically, "School Term" shall not include winter break, spring break or summer vacation.

3. **License to Use School Facilities.** The School Board hereby grants to the City a license to occupy and use, subject to the terms and conditions contained herein, those certain facilities within the Schools more particularly depicted on **Exhibit "D"** attached hereto and incorporated herein by reference for the Special Events as more particularly identified in the Special Events Schedule, subject to the restrictions set forth in Section 6 hereof (collectively, "School Facilities"). The Special Events Schedule shall set forth the date, time, location and type of use of each such event and shall be reviewed and approved by the School Board and City prior to the commencement of any Renewal Term (hereinafter defined) and in accordance with Section 6 hereof.

4. **License to Use Recreational Complex.** The City hereby grants to the School Board a license to occupy and use for physical education and athletic practices and events for football, soccer and lacrosse for the School (collectively, the "School Sanctioned Activities"),

subject to the terms and conditions contained herein, certain athletic facilities on the Recreational Complex ("City Facilities") during the School Term in accordance with the schedule set forth on **Exhibit "B"** attached hereto and incorporated herein by reference (collectively, "Use Hours"), subject to the restrictions set forth in Section 6 hereof.

5. **Term**. The term of this Agreement shall be for an initial term of one (1) year ("Initial Term"). This Agreement may be automatically renewed for four (4) additional one (1) year terms (hereinafter referred to as the "Renewal Term"). Each Renewal Term shall automatically commence on the day after the termination of the preceding term and shall end one (1) year therefrom, unless either party hereto provides written notice to the other party at least ninety (90) days prior to the expiration of the Initial Term or Renewal Term, as applicable, of their intent to terminate this Agreement.

6. **Restrictions on Usage of School Facilities and City Facilities.** School Board shall control scheduling of the use of the School Facilities and City shall control scheduling of the use of the City Facilities at all times in accordance with the following:

a. The City and public's usage of the School Facilities shall be limited to those certain events, activities and times specifically set forth in the Special Events Schedule. The City shall restrict the public usage or usage by any Third Party User (hereinafter defined) of the City Facilities during the School Board's Use Hours.

b. Prior to the commencement of each school year, the Principal of each Apopka High School or Principal's designee, shall deliver to the City a written schedule of known or proposed School Sanctioned Activities for the upcoming school year, if available. If said schedule is not available or if are otherwise unknown to the Principal in advance, the Principal, or Principal's designee, shall provide thirty (30) days prior written notice to City of said School Sanctioned Activities. Prior to the commencement of each school year, the City shall deliver to the School Board a written, updated Special Events Schedule for the upcoming school year, if available. If said schedule is not available or if are otherwise unknown to the City shall provide thirty (30) days prior written notice to the School of any such Special Events. Notwithstanding the foregoing, neither party hereto shall have the right to expand the intensity of use or access to the City Facilities or School Facilities without the prior written consent of the other party.

c. The City shall take any and all actions reasonably necessary to restrict and regulate the use of the City Facilities to ensure the City Facilities are in suitable condition for use by the School Board during the Use Hours, including, without limitation, locking the gates around the City Facilities on a nightly basis, posting appropriate signage on the City Facilities restricting the hours of use, limiting the use of the City Facilities by third party organizations on a fee basis, and otherwise imposing or enforcing any other restrictions reasonably required to ensure the City Facilities experience adequate and sufficient rest periods (collectively, "City Facilities Use Restrictions").

d. The School Board shall take any and all actions reasonably necessary to restrict and regulate the use of the School Facilities to ensure the School Facilities are in suitable condition for use by the City for the Special Events, including, without limitation, limiting the

use of the School Facilities by third party organizations on a fee basis, and otherwise imposing or enforcing any other restrictions reasonably required to ensure the School Facilities experience adequate and sufficient rest periods (collectively, "School Facilities Use Restrictions").

e. Subject to the limitations set forth herein, the School Board shall have the exclusive right and privilege of using or authorizing other third party users, organizations, parties, entities, vendors or any other third party to use the School Facilities (collectively, "Third Party User"), or any portion thereof, for any use not otherwise inconsistent with the use of the School Facilities during the Special Events Schedule. In the event the School Board enters into any agreement or understanding with a Third Party User for the School Facilities, the School Board shall have the exclusive right to retain any and all proceeds from the use of the School Facilities by the Third Party User.

f. Subject to the limitations set forth herein, the City shall have the exclusive right and privilege of using or authorizing other Third Party Users to use the City Facilities, or any portion thereof, for any use not otherwise inconsistent with the use of the City Facilities by the School Board. In the event the City enters into any agreement or understanding with a Third Party User for the City Facilities, the City shall have the exclusive right to retain any and all proceeds from the use of the City Facilities by the Third Party User.

g. The City shall have the right to use the areas identified as "Parking" on **Exhibit "D"** attached hereto and incorporated herein by reference for parking for the Special Events; provided; however, City shall (i) have appropriate personnel directing and managing vehicles, traffic and parking; and (2) in the event of inclement weather, redirect traffic in accordance with School Board's direction to minimize damage occurs to the School Facilities.

7. **Maintenance of Facilities**.

a. Maintenance of School Facilities. School Board shall be responsible for the custodial, maintenance, repair and replacement of the Schools and all School Facilities located thereon. City shall be responsible for ensuring that all portions of School Facilities are kept in a clean and neat condition during and after the City's use of said School Facilities for the Special Events. At the end of each Special Event, City shall clean the School Facilities upon which trash or litter has been left during the School Board's use. In the event the School Facilities are damaged or destroyed by or as a result of the City's or public's use of the School Facilities for the Special Events, the City shall be responsible for reimbursing the School Board for any and all reasonable costs associated with repairing, replacing or maintaining any such damaged areas in accordance with Section 7.c. hereof.

b. Maintenance of City Facilities. City shall be responsible for the custodial, maintenance, repair and replacement of the City Facilities. School Board shall be responsible for ensuring that all portions of City Facilities are kept in a clean and neat condition during and after the School Board's use of said City Facilities. At the end of each School Sanctioned Activity, School Board shall clean the City Facilities upon which trash or litter has been left during the School Board's use. In the event the City Facilities are damaged or destroyed by or as a result of the School Board's use of the City Facilities for the School Sanctioned Activities, the School

Board shall be responsible for reimbursing the City for any and all reasonable costs associated with repairing, replacing or maintaining any such damaged areas in accordance with Section 7.c. hereof.

c. Maintenance Request. In the event the City or School Board fail to maintain, repair or replace the School Facilities or City Facilities (collectively, "Facilities") in accordance with their maintenance or custodial obligations herein, the School Board or City, as applicable, shall promptly provide written notice to the party failing to conduct such maintenance ("Responsible Party") outlining any deficiency, defective or damaged condition, area in disrepair or in need of maintenance or custodial services in or about the Facilities (collectively, "Maintenance Issue") in or about the Facilities ("Maintenance Request"). Within thirty (30) days of receipt of the Maintenance Request, the Responsible Party, at its sole cost and expense, shall repair, replace or maintain that certain portion of the Facilities and the Maintenance Issue more specifically identified and outlined in the Maintenance Request. Notwithstanding the foregoing, in the event any Maintenance Issue shall constitute an emergency condition or impede the School Board's or City's ability to effectively utilize the Facilities, or any portion thereof, said party, acting in good faith, shall have the right to cure such Maintenance Issue upon such advance notice as is reasonably possible under the circumstances, or if necessary, without advance notice, so long as notice is given as soon as possible thereafter. In such event, the Responsible Party shall reimburse the party conducting the work for its reasonable costs of curing the Maintenance Issue ("Maintenance Cure Costs") within forty-five (45) calendar days following delivery to the Responsible Party of a demand for such reimbursement, which demand shall include reasonable documentation of such Maintenance Cure Costs. The right to cure the Maintenance Issue shall not be deemed to (i) impose any obligation, liability or responsibility on the party who is not deemed the Responsible Party to do so; (ii) render either of the parties liable to other party or any third party for an election not to do so; (iii) relieve the Responsible Party from any performance obligation hereunder; or (iv) relieve the Responsible Party from any indemnity obligation as provided in this Agreement.

8. **Improvements to the Facilities**. Except as otherwise provided in this Agreement, the City shall not construct or install any improvements in the Schools or School Facilities without the prior written consent of the School Board. Except as otherwise provided in this Agreement, the School Board shall not construct or install any improvements in the City Facilities without the prior written consent of the City. Any improvements approved in accordance with this paragraph and installed on the Facilities shall be (i) at the installing party's sole cost and expense; (ii) undertaken in a safe and prudent manner, and (iii) comply with all applicable federal, state, and county laws, regulations, and ordinances, and such permits that the City or School Board requires, with respect to the installation, repair, replacement, maintenance and use of Facilities. All improvements to the Facilities shall remain thereon and shall not be removed therefrom by either party unless prior written consent is obtained from the other party.

9. **Use Charges**.

a. The City shall be exempt from paying any use fee to the School Board for the annual use of the School Facilities.

b. City shall ensure that no charges shall be made by the City to the School Board for the conduct and administration of the School Sanctioned Activities at the City Facilities and no cost, expense or financial burden shall be imposed upon the School Board by the City for or arising from the conduct of such programs.

10. **Signage**. The City agrees to provide, at its own cost and expense, a sign located on, or within close vicinity of the City Facilities to advise the public as to the hours during which the City Facilities are reserved for the exclusive use of the School Board. The School Board agrees to provide, at its own cost and expense, a sign located on, or within close vicinity of the School Facilities to advise the public as to the hours during which the School Facilities are reserved for the exclusive use of the City.

11. **Standards of Use**. In addition to the other covenants and undertakings set forth herein, City and School Board hereby agree the following standards of use shall govern the City's use of the Facilities:

a. Implementation of Security Measures.

i. City, at its sole cost and expense, shall take any and all actions reasonably necessary to implement safety and security measures to maintain the safety and security of the Schools, School Facilities, City Facilities and any and all students, staff or visitors located thereon while being utilized by the City as provided hereunder, including, without limitation, the following: (a) implementing appropriate and adequate supervision mechanisms; (b) restricting access to specific areas within the School Facilities to authorized students, individuals and entities through the implementation of limited security card access and monitoring procedures; (c) implementing and ensuring adherence to visitor registration requirements, as applicable, protocols and procedures reasonably required by the School Board; (d) appropriate screening, hiring and training of staff and employees in accordance with any and all applicable federal, state and local requirements governing the City relating to the supervision of, interaction with and education of minors, including, without limitation, all Florida Department of Children and Family requirements, the Jessica Lunsford Act, and Sections 1012.32 and 1012.465, Florida Statutes, as may be amended from time to time, unless same is waived by the School Board in writing; and (e) any and all other safety and security measures reasonably required by the School Board to provide a safe, secure learning environment for the staff, students and visitors of the Schools. Notwithstanding the foregoing, School Board reserves the right, in its sole and absolute discretion, to require that all staff, volunteers, employees, and agents of the City, or vendors of City that are on-site while children are present, at the sole cost and expense of the City, undergo, and submit to, the appropriate screening requirements exclusively through the City and its approved vendors or provider.

ii. School Board, at its sole cost and expense, shall take any and all actions reasonably necessary to implement safety and security measures to maintain the safety and security of the Schools, School Facilities, City Facilities and any and all students, staff or visitors located thereon while being utilized by the City as provided hereunder, including, without limitation, the following: (a) implementing appropriate and adequate supervision

mechanisms; (b) restricting access to specific areas within the School Facilities to authorized students, individuals and entities through the implementation of limited security card access and monitoring procedures; (c) implementing and ensuring adherence to visitor registration requirements, as applicable, protocols and procedures reasonably required by the School Board; (d) appropriate screening, hiring and training of staff and employees in accordance with any and all applicable federal, state and local requirements governing the School Board relating to the supervision of, interaction with and education of minors, including, without limitation, all Florida Department of Children and Family requirements, the Jessica Lunsford Act, and Sections 1012.32 and 1012.465, Florida Statutes, as may be amended from time to time, unless same is waived by the School Board in writing; and (e) any and all other safety and security measures reasonably required by the City to provide a safe, secure environment for the general public.

b. Personnel. City, at their sole cost and expense, shall be solely responsible and liable for the employing, engaging and providing all administrators, personnel, staffing or volunteers to safely and effectively operate the School Facilities for the Special Events. School Board, at their sole cost and expense, shall be solely responsible and liable for the employing, engaging and providing all administrators, personnel, staffing or volunteers to safely and effectively operate the City Facilities for the School Sanctioned Activities.

c. Supervision Responsibilities. City, at its sole cost and expense, shall be solely responsible and liable for the providing adequate personnel, staffing or volunteers to ensure the proper supervision of any guests, invitees, visitors, parents, participants, students, employees, agents or contractors on or about the Schools as a result, directly or indirectly, the City's use of the Schools in accordance with the terms of this Agreement, or any ancillary use thereof, or any actions of the agents, employees, staff or vendors of the City, regardless whether such presence on or about the Schools occurs prior to, during or after the Special Events. City shall exercise commercially reasonable efforts to prevent its representatives, participants, guests and invitees from performing any disorderly conduct or committing or maintaining any nuisance on the Schools, violating School Board policies or rules, or using the School Facilities, or any portion thereof, in any way so as to interfere with the operation of the educational activities of the Schools, the exercise by other licenses or privileges which the School Board may grant in the Schools, or persons residing near the School. School Board, at its sole cost and expense, shall be solely responsible and liable for the providing adequate personnel, staffing or volunteers to ensure the proper supervision of any guests, invitees, visitors, parents, participants, students, employees, agents or contractors on or about the City Facilities as a result, directly or indirectly, the School Board's use of the City Facilities in accordance with the terms of this Agreement, or any ancillary use thereof, or any actions of the agents, employees, staff or vendors of the School Board. School Board shall exercise commercially reasonable efforts to prevent its representatives, participants, guests and invitees from performing any disorderly conduct or committing or maintaining any nuisance on the City Facilities, violating City policies or rules, or using the City Facilities, or any portion thereof, in any way so as to interfere with the operation of the activities of the City on the Recreational Complex, the exercise by other licenses or privileges which the City may grant in the Recreational Complex, or persons residing near the Recreational Complex.

d. Incident Reports. Either party shall provide written notice to the other party within twenty-four (24) hours of the occurrence of any incident resulting in bodily injury or death to any persons, or any damage or vandalism to property of the City of School Board or others occurring at any portion of the Schools, Recreational Complex or adjacent premises or in any way connected with the use of Schools, School Facilities, Recreational Complex or adjacent premises. The notice must include details of the time, place and circumstances of the incident, and the names and addresses of any person(s) witnessing the incident.

e. Compliance with Rules and Regulations. The parties, at their sole cost and expense, shall comply with and abide by all laws, ordinances, rules, regulations, policies, directives and procedures of the School Board, State of Florida, federal government, Orange County, City, and any other governmental entity having jurisdiction over the Schools, Schools Facilities, Recreational Complex, City Facilities, or any portion thereof, or the party's use of the Facilities in accordance with the terms of this Agreement, including, without limitation, all safety and security protocols, food service requirements, visitor registration requirements, any management directives governing the alterations to facilities, energy management directions and any and all requirements of the Jessica Lunsford Act, zoning, health and sanitary conditions, unless otherwise waived in writing by the other party.

f. Performance of Obligations. Each party shall take such other actions and perform such other obligations as are required or contemplated hereunder including, without limitation, all obligations pertaining to satisfaction of any contingencies of this Agreement or conditions precedent to performance by such party of its obligations hereunder.

g. Prohibition of Substances, Devices or Materials. Unless otherwise specifically agreed to by School Board or City in writing, the parties shall not allow or permit any the use, consumption, storage or possession of any of the following items on the Schools, School Facilities or City Facilities, by either party or their agents, participants, guests, or invitees: (a) intoxicating or alcoholic beverages, smoking, or illegal or harmful drugs; (b) gambling devices of any kind; (c) any weapons and firearms; (d) hazardous, flammable or explosive materials, including but not limited to, flammable materials or liquids, fireworks, pyrotechnic devices, explosives, poisonous materials or plants, strong acids or caustics; (e) dangerous animals; (f) amusement rides or attractions, including but not limited to, trampolines of any type, enclosed or air supported structures of any type, climbing walls, climbing ropes, firearms or shooting activity, bow and arrow shooting activity or equipment or devices; or (g) any other substance, material or items prohibited by law or ordinances of fire insurance.

h. Removal of Property. City shall not remove or damage any School Board equipment and supplies from any portion of the Schools or School Facilities. School Board shall not remove or damage any City equipment and supplies from any portion of the City Facilities or Recreational Complex.

i. Access. The School Board shall provide to the City an access code to allow the City ingress and egress from the School Facilities during such time as City is entitled to use the School Facilities under this Agreement. The access code shall only allow access into the School Facilities and no other portion of the School. The City agrees that it shall only share the

code with City employees directly involved with programs taking place in the School Facilities School Board reserves the right to change the access code, and upon any change shall notify the City of the new code.

j. Complaints. City shall promptly address and respond to complaints of the general public in a reasonable time after the date the City is made aware of the complaint. School Board shall promptly address and respond to complaints of the general public in a reasonable time after the date the School Board is made aware of the complaint.

k. Discrimination. The parties shall manage and operate the Facilities and programs performed on the Facilities on a non-discriminatory basis.

l. Program Notices. At least twenty-four hours prior to public distribution, City shall provide Principal with copies of any notices or information regarding the programs it conducts on the School Facilities.

12. **Indemnification and Insurance**.

a. To the fullest extent permitted by law, unless otherwise waived by the School Board in writing, City shall:

i. Exercise its rights and duties hereunder at its own risk and expense.

ii. Subject to the limitations set forth herein, indemnify, defend and hold harmless School Board, its board members, employees and representatives from and against all claims, damages, losses, and expenses, including but not limited to, economic loss, reasonable attorney's fees and expenses, arising out of, in connection with or as a result of exercise by City or any individual or entity claiming by, through or under City, of its rights and obligations set forth in this Agreement, provided that any such claim, damages, losses, or expenses (i) is attributable to any person(s) claiming personal injury, bodily injury, sickness, disease, or death, or damage to tangible property of a third party including the loss of use; and (ii) is caused or incurred in whole or in part by the City, its invitees, guests, attendees, participants, or any of its subcontractors, agents, or anyone directly or indirectly employed by City, subcontractors or agents, regardless if caused in part by School Board. This indemnification shall not apply to any claims, damages, losses, and expenses arising from the School Board's sole negligence or intentional misconduct. Nothing herein shall be deemed a waiver by the School Board or City of its sovereign immunity rights under the laws of the State of Florida. Further, the limits set forth in Florida Statutes, 768.28, shall apply whether the underlying action sounds in contract or tort.

iii. At its sole cost and expense at all times throughout the term of this Agreement, maintain in full force and effect the following insurance, which insurance shall apply to City, its invitees, guests, attendees, participants, employees, agents, and subcontractors, and its use of the School Facilities, or any portion of the Schools and shall require any other Third Party User to purchase and maintain similar insurance coverage (collectively, "City Insurance Requirements"): (a) Workers Compensation insurance in statutory amounts and Employers Liability in an amount not less than One Million Dollars ($1,000,000) each accident/disease.

This insurance shall apply to all City employees who will be engaged in the delivery of services, goods and/or improvements in this Agreement; (b) Commercial General Liability insurance, including products and completed operations and contractual liability, arising from any and all claims for property damage and bodily injury, including death, in an amount not less than One Million Dollars ($1,000,000) each occurrence and Two Million Dollars ($2,000,000) aggregate. This policy must include the School Board, its officers, employees and agents as additional insured; and (c) Automobile Liability insurance, including all owned, non-owned, and hired vehicles used in conjunction with providing services, goods and/or improvements outlined in this Agreement, for property damage and bodily injury, including death, in an amount not less than One Million Dollars ($1,000,000) each accident. This policy must include the School Board, its officers, employees and agents as additional insured. All insurance shall be written with an insurance company licensed to issue insurance in the State of Florida and shall maintain an A.M. Best financial strength rating of A (VI) and shall be primary and not contributory to any other insurance or self-insurance carried or maintained by the School Board. In the alternative, City may provide evidence satisfactory to School Board that City has in place self-insurance which provides substantially the same coverages and protections. City shall notify School Board's Risk Management Department within thirty (30) days of any material changes or notice of cancellation City receives from its insurer on above required insurance.

iv. Furnish and provide evidence of all insurance in the form of a Certificate of Insurance (Acord) and specify any deductible or retention applicable to City Insurance Requirements to School Board with a copy to the Principal prior to the Effective Date of this Agreement and annually thereafter. Failure to have adequate proof of current insurance meeting the requirements of this section or to file such proof with School Board's Risk Management Department shall entitle School Board to immediately suspend the privilege of City to use the School Facilities until such proof is furnished and shall warrant termination of this Agreement, provided; that School Board notifies City of City's failure to deliver such certificate, and further provided that City does not deliver such certificate within ten (10) days after such notice by School Board.

v. Nothing contained in this Agreement shall be deemed or interpreted to operate as a waiver of any party's sovereign immunity as the same may be legally applicable or available to any party.

b. School Board's Insurance and Indemnification. To the fullest extent permitted by law, unless otherwise waived by the City in writing, School Board shall:

i. Exercise its rights and duties hereunder at its own risk and expense.

ii. Subject to the limitations set forth herein, indemnify, defend and hold harmless City, its board members, employees and representatives from and against all claims, damages, losses, and expenses, including but not limited to, economic loss, reasonable attorney's fees and expenses, arising out of, in connection with or as a result of exercise by School Board or any individual or entity claiming by, through or under School Board, of its rights and obligations set forth in this Agreement, provided that any such claim, damages, losses, or expenses (i) is attributable to any person(s) claiming personal injury, bodily injury, sickness, disease, or death,

or damage to tangible property of a third party including the loss of use; and (ii) is caused or incurred in whole or in part by the School Board, its invitees, guests, attendees, participants, or any of its subcontractors, agents, or anyone directly or indirectly employed by School Board, subcontractors or agents, regardless if caused in part by City. This indemnification shall not apply to any claims, damages, losses, and expenses arising from the City's sole negligence or intentional misconduct. Nothing herein shall be deemed a waiver by the School Board of its sovereign immunity rights under the laws of the State of Florida. Further, the limits set forth in Florida Statutes, 768.28, shall apply whether the underlying action sounds in contract or tort.

iii. At its sole cost and expense at all times throughout the term of this Agreement, maintain in full force and effect the following insurance, which insurance shall apply to School Board, its invitees, guests, attendees, participants, employees, agents, and subcontractors, and its use of the City Facilities, or any portion of the City Facilities and shall require any other Third Party User to purchase and maintain similar insurance coverage (collectively, "School Board Insurance Requirements"): (a) Workers Compensation insurance in statutory amounts and Employers Liability in an amount not less than One Million Dollars ($1,000,000) each accident/disease. This insurance shall apply to all School Board employees who will be engaged in the delivery of services, goods and/or improvements in this Agreement; (b) Commercial General Liability insurance, including products and completed operations and contractual liability, arising from any and all claims for property damage and bodily injury, including death, in an amount not less than One Million Dollars ($1,000,000) each occurrence and Two Million Dollars ($2,000,000) aggregate; and (c) Automobile Liability insurance, including all owned, non-owned, and hired vehicles used in conjunction with providing services, goods and/or improvements outlined in this Agreement, for property damage and bodily injury, including death, in an amount not less than One Million Dollars ($1,000,000) each accident. All insurance shall be written with an insurance company licensed to issue insurance in the State of Florida and shall maintain an A.M. Best financial strength rating of A (VI) and shall be primary and not contributory to any other insurance or self-insurance carried or maintained by the City. In the alternative, School Board may provide evidence satisfactory to City that School Board has in place self-insurance which provides substantially the same coverages and protections. School Board shall notify City within thirty (30) days of any material changes or notice of cancellation School Board receives from its insurer on above required insurance.

iv. Furnish and provide evidence of all insurance in the form of a Certificate of Insurance (Acord) and specify any deductible or retention applicable to School Board Insurance Requirements to City prior to the Effective Date of this Agreement and annually thereafter. Failure to have adequate proof of current insurance meeting the requirements of this section or to file such proof with City shall entitle City to immediately suspend the privilege of School Board to use the City Facilities until such proof is furnished and shall warrant termination of this Agreement, provided; that City notifies School Board of School Board's failure to deliver such certificate, and further provided that School Board does not deliver such certificate within ten (10) days after such notice by City.

13. **Notice**. Any notices which may be permitted or required hereunder shall be in writing and shall be deemed to have been duly received as of (i) the date and time the same are personally delivered, transmitted electronically (i.e., facsimile or e-mail); (ii) within three (3)

days after depositing with the United States Postal Service, postage prepaid by registered or certified mail, return receipt requested; or (iii) within one (1) day after depositing with Federal Express or other overnight delivery service from which a receipt may be obtained, and addressed as follows:

School Board:	The School Board of Orange County, Florida Facilities Services, Real Estate Management Department 6501 Magic Way, Building 200 Orlando, Florida 32803 Telephone: (407) 317-3700
With a copy to:	The School Board of Orange County, Florida Office of the General Counsel 445 West Amelia Street Orlando, Florida 32801 Telephone: (407) 317-3700 Facsimile: (407) 317-3751
With a copy to:	Apopka High School Attn: Principal 555 West Martin Street Apopka, Florida 32712 Telephone: (407) 905-5500 Facsimile: (407) 814-6130
City:	City of Apopka Attn: City Administrator 120 E. Main Street Apopka, FL 32703 Telephone: _____ Facsimile: _____
With a copy to:	City of Apopka Recreation Department Attn: Recreation Director 3710 Jason Dwelley Parkway Apopka, FL 32712 Telephone: (407) 703-1641 Facsimile: _____

or to such other address as either party hereto shall from time to time designate to the other party by notice in writing as herein provided. The attorneys for the parties set forth herein may deliver and receive notices on behalf of their clients.

14. **Effective Date**. The Effective Date of this Agreement shall be the date upon which the last of the parties hereto signs this Agreement ("Effective Date").

15. **Modifications and Amendments**. This Agreement may be amended upon the mutual written consent of the parties hereto. The School Board does hereby confer upon the Superintendent, or Superintendent's designee, the authority to amend this Agreement, or provide any consent or notice hereunder, without formal School Board approval, provided such amendment, notice or consent does not substantially alter or modify the terms herein. The right to amend or provide consent delegated to the Superintendent shall include the right of the Superintendent to execute any other agreement, notice, request or documentation resulting from the agreements set forth herein and consistent with the terms and conditions of this Agreement. If, in the sole judgment of School Board, such amendment, notice or consent does substantially alter or amend this Agreement, then School Board shall have the option of declaring the amendment void *ab initio*, thus rendering the amendment without any legal force and effect. Amendments to this Agreement, which shall conclusively be presumed not to substantially alter or modify the terms hereof, are those, which concern the scheduling of hours of use of the School Facilities. Amendments to this Agreement which shall conclusively be presumed to substantially alter or modify the terms hereof are those which concern maintenance obligations of the parties and those which involve monetary obligations.

16. **Defaults and Remedies**.

a. Default by City. In the event City breaches any provision contained herein or fails to comply with or perform any of the conditions to be complied with or any of the covenants, agreements or obligations to be performed by City under the terms and provisions of this Agreement and does not remedy the failure within thirty (30) days after receipt by the City of written demand from the School Board to do so unless the nature of the failure is such that it cannot, in the exercise of reasonable diligence, be remedied within thirty (30) days, in which case the City shall commence such cure within such thirty (30) day period and diligently proceed to cure the breach, provided that in any event, the breach shall be cured within sixty (60) days after receipt from the non-defaulting party, the School Board, in School Board's sole discretion, shall be entitled to (i) exercise any and all rights and remedies available to School Board at law and in equity, including without limitation the right of specific performance; or (ii) terminate this Agreement with only thirty (30) days prior written notice. Upon any such termination, this Agreement and all rights and obligations created hereunder shall be deemed null and void and of no further force or effect.

b. Default by the School Board. In the event the School Board breaches any provision contained herein or fails to comply with or perform any of the conditions to be complied with or any of the covenants, agreements or obligations to be performed by the School Board under the terms and provisions of this Agreement and does not remedy the failure within thirty (30) days after receipt by School Board of written demand from the City to do so unless the nature of the failure is such that it cannot, in the exercise of reasonable diligence, be remedied within thirty (30) days, in which case the School Board shall commence such cure within such thirty (30) day period and diligently proceed to cure the breach, provided that in any event, the breach shall be cured within sixty (60) days after receipt from the non-defaulting party, City, in City's sole discretion, shall be entitled to (i) exercise any and all rights and remedies available to City at law and in equity; or (ii) terminate this Agreement with only thirty

(30) days prior written notice. Upon any such termination, this Agreement and all rights and obligations created hereunder shall be deemed null and void and of no further force or effect.

17. **Termination or Suspension.** Except as otherwise specified herein, School Board or City may terminate or suspend this Agreement without cause upon ninety (90) days prior written notice to the other party. In the event of such termination, cancellation or suspension, all rights, obligations and liabilities created thereunder shall be deemed null and void and of no further force and effect.

18. **Entire Agreement**. This Agreement shall constitute the entire agreement between the parties. Any prior understanding or representation of any kind preceding the date of this Agreement shall not be binding upon either party to the extent incorporated into this Agreement.

19. **Waiver**. The failure of either party to exercise any power given hereunder or to insist upon strict compliance with any obligation specified herein, and no custom or practice at variance with the terms hereof, shall not constitute a waiver of either party's right to demand exact compliance with the terms hereof.

20. **Legal Construction**. Unless otherwise specified, in computing any period of time described in this Agreement, the day of the act or event after which the designated period of time begins to run is not to be included and the last day of the period so computed is to be included. Wherever under the terms and provisions of this Agreement the time for performance falls upon a Saturday, Sunday, or holiday, such time for performance shall be extended to the next business day. For purposes of this Agreement, "holiday" shall mean federal holidays as defined in 5 U.S.C. 6103. Except as otherwise set forth herein, the last day of any period of time described herein shall be deemed to end at 11:59 p.m. local time in Orange County, Florida. The headings inserted at the beginning of each paragraph are for convenience only, and do not add to or subtract from the meaning of the contents of each paragraph.

21. **Governing Law and Venue**. Venue for any action, suit, or proceeding brought to recover any sum due under, or to enforce compliance with, this Agreement shall lie in the court of competent jurisdiction in and for Orange County, Florida; each party hereby specifically consents to the exclusive personal jurisdiction and exclusive venue of such court.

22. **Severability**. This Agreement is intended to be performed in accordance with, and only to the extent permitted by, all applicable laws, ordinances, rules and regulations. If any provision of this Agreement or the application thereof to any person or circumstance shall, for any reason and to any extent, be invalid or unenforceable, the remainder of this Agreement and the application of such provision to other persons or circumstances shall not be affected thereby but rather shall be enforced to the greatest extent permitted by law.

23. **Attorneys' Fees**. In the event of any dispute hereunder or of any action to interpret or enforce this Agreement, any provision hereof or any matter arising herefrom, the prevailing party shall be entitled to recover its reasonable costs, fees and expenses, including, but not limited to, witness fees, expert fees, consultant fees, attorney, paralegal and legal assistant fees, costs and expenses and other professional fees, costs and expenses whether suit be brought

or not, and whether in settlement, in any declaratory action, in mediation, arbitration, bankruptcy or administrative proceeding, or at trial or on appeal. Notwithstanding the foregoing, nothing contained herein shall be construed or interpreted (a) to alter, amend or waive the School Board's sovereign immunity, or any defenses thereto, of the State of Florida, or its agencies, beyond the waiver provided in Section 768.28, Florida Statutes; or (b) as the consent of the School Board or City to be sued.

24. **Counterparts and Facsimile Signatures**. This Agreement may be executed in two or more counterpart copies, including facsimile and electronic mail signatures, each of which shall be deemed to constitute one original document. The parties may execute different counterparts of this agreement, and, if they do so, the signatures pages from the different counterparts may be combined to provide one integrated document and taken together shall constitute one and the same instrument.

25. **Relationship of Parties**. This Agreement is solely for the benefit of the parties executing the Agreement, and no rights are intended, nor shall any rights accrue, to any third party unless expressly provided in this Agreement.

26. **Successors and Assigns.** The provisions of this Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective heirs, administrators, executors, personal representatives, successors and assigns.

27. **Participation.** All of the parties to this Agreement have participated fully in the negotiation and preparation hereof; this Agreement shall not be construed more strongly for or against any party regardless of which party is deemed to have drafted the Agreement.

28. **Third Party Beneficiary.** Except as otherwise set forth herein, no person other than the parties shall have any rights or privileges under this Agreement, whether as a third-party beneficiary or otherwise.

29. **Timing**. Time is of the essence in this Agreement.

30. **Headings**. The headings inserted at the beginning of each paragraph are for convenience only, and do not add to or subtract from the meaning of the contents of each paragraph.

[SIGNATURE AND ACKNOWLEDGMENT PAGES FOLLOWING]

IN WITNESS WHEREOF, School Board and the City have hereunto caused these presents to be executed the day and year first above written.

"CITY"

Signed, sealed and delivered in the presence of:

CITY OF APOPKA,
a municipality duly enacted under the laws of the State of Florida

_____
Printed Name: _____

_____
Printed Name: _____

By: _____
Print Name:_____
As:_____
Date:_____

STATE OF FLORIDA
COUNTY OF:_____

The foregoing instrument was acknowledged before me this _____ day of _____, 2017 by _____ as _____ of the City of Apopka, a municipality duly enacted under the laws of the State of Florida, who produced _____ as identification or is personally known to me and who acknowledged that he/she signed the instrument voluntarily for the purpose expressed in it.

_____
Notary Public
Printed Name:_____
Commission No.:_____
My Commission Expires:_____

[SEE FOLLOWING PAGE FOR SCHOOL BOARD'S SIGNATURE]

Signed, sealed and delivered in the presence of:

"SCHOOL BOARD"

THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA, a public corporate body and political subdivision of the State of Florida

_____
Print Name: _____

_____
Print Name: _____

By: _____
Name: William E. Sublette
Title: Chairman

Dated: _____

STATE OF FLORIDA)
) s.s.:
COUNTY OF ORANGE)

The foregoing instrument was acknowledged before me this ___ day of _____, 2017, by William E. Sublette, Chairman of The School Board of Orange County, Florida, a public corporate body and political subdivision of the State of Florida, on behalf of The School Board. He is personally known to me or had produced _____ (type of identification) as identification and has acknowledged that he/she signed the instrument voluntarily for the purpose expressed in it.

_____
Notary Public
Printed Name:_____
Commission No.:_____
My Commission Expires:_____

WITNESSES:

THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA, a public corporate body and political subdivision of the State of Florida

_____
Print Name:_____

By:_____
Barbara M. Jenkins, Ed.D.,
as its Superintendent

_____
Print Name:_____

Dated:_____

STATE OF FLORIDA)
) s.s.:
COUNTY OF ORANGE)

The foregoing instrument was acknowledged before me this ___ day of _____, 2017, by Barbara M. Jenkins, Ed.D, as Superintendent of The School Board of Orange County, Florida, a public corporate body and political subdivision of the State of Florida, on behalf of The School Board. She is personally known to me or had produced _____ (type of identification) as identification and has acknowledged that he/she signed the instrument voluntarily for the purpose expressed in it.

_____
Notary Public
Printed Name:_____
Commission No.:_____
My Commission Expires:_____

Approved as to form and legality by legal counsel to The School Board of Orange County, Florida this ____ day of _____, 2017, for its exclusive use and reliance.

By:_____
Laura L. Kelly, Esquire

Reviewed and approved by Orange County Public Schools Chief Facilities Officer this ____ day of _____, 2017.

By:_____
John T. Morris, Chief Facilities Officer

EXHIBIT "A"
Recreational Complex


Appy Lane
City of Apopka
Northwest
Recreation Facility
Pop Warner
Office
Main Office
N
W
E
S
11
12
13
14
10
9
16
15
A
B
D
C
Amphitheater
Bath room
E
F
H
G
8
7
4
5
6
3
2
1
I
J
L
K
PLAYGROUND AREA
Jason Dwelley Pkwy.
Little League
Office
Pavilion
City of Apopka
Northwest
Water Treatment
Plant
Wolf Lake
Elementary School
Wolf Lake
Middle School

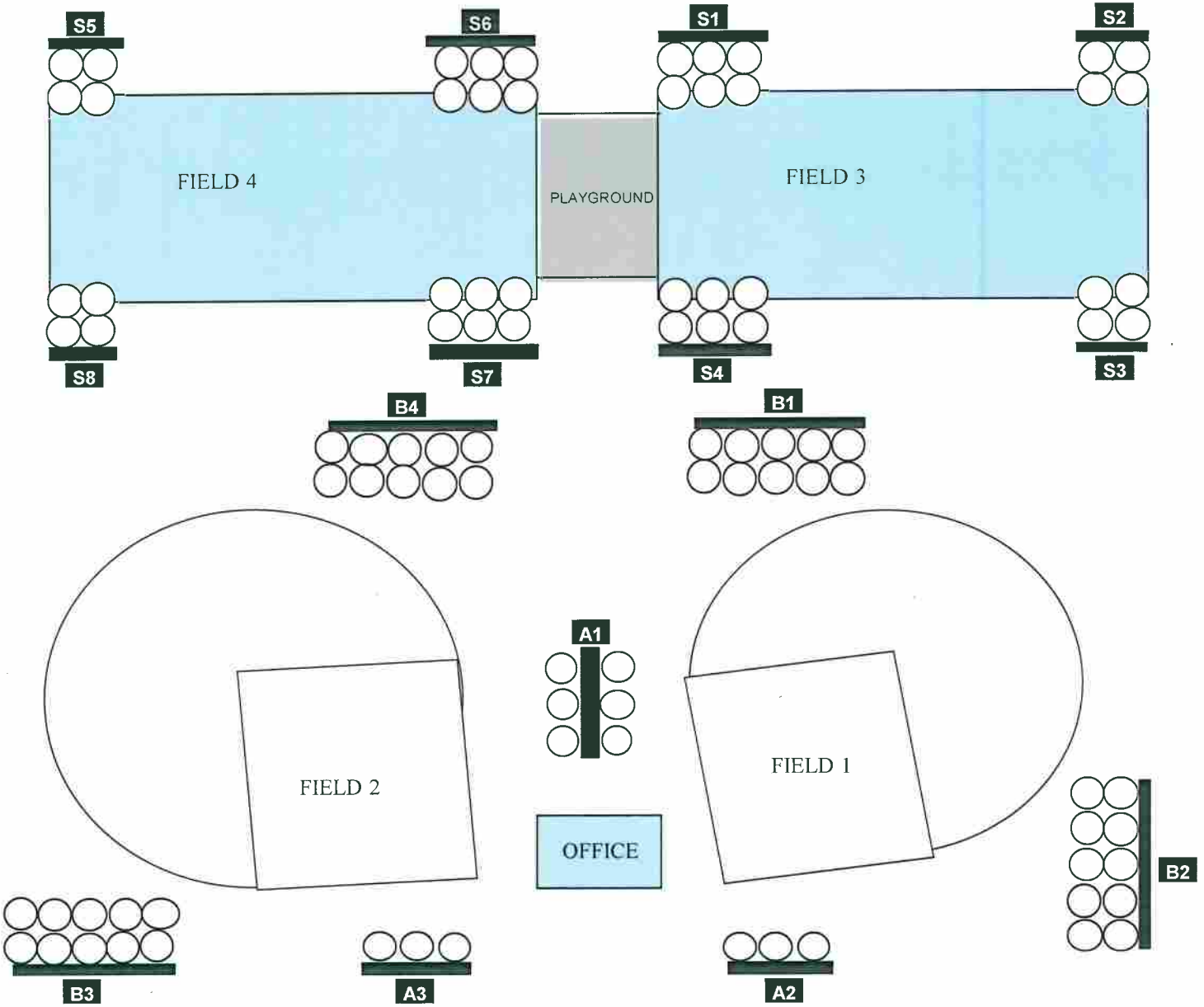

S5
S6
S1
S2
FIELD 4
PLAYGROUND
FIELD 3
S8
S7
S4
S3
B4
B1
A1
FIELD 2
FIELD 1
OFFICE
B2
B3
A3
A2

EXHIBIT "B"
List of School Sanctioned Events

Facilities	Event	Date/time
Apopka's Amphitheater	Apopka Art & Jazz Festival organized by Christine Moore	April 1, 2017
Football Field at Northwest Recreation Complex	AHS Football Team for Spring Practice (5weeks)	April 24 – May 26, 2017 Mon, Tues, & Fri 3:30-6:00pm (Pads 13, 14 & 15)
Northwest Recreation Complex Pad 8	High School Girls Soccer Team	Mon - Fri 3:30-5:30pm, Oct 9, 2017 Nov 17, 2017
Northwest Recreation Complex Pad 7	High School Boys Soccer Team	Mon - Fri 3:30-5:30pm, Oct 9, 2017 - Nov 17, 2017
Northwest Recreation Complex Pad 10	High School Boys Lacrosse Team	Mon – Fri 5:30-7:00pm Jan 9, 2017 – Apr 14, 2017
Apopka Athletic Complex	High School Girls Lacrosse Team	Mon – Fri 2:30-5:00pm, Jan. 9, 2017-April 14, 2017

EXHIBIT "C"
City Special Events Schedule

Facilities	Event	Date/time
Apopka High School Auditorium	Miss Apopka Scholarship Pageant	November 4, 2017
Wolf Lake Middle or Apopka Middle Gymnasium	○ Youth Basketball League Spring Season	• Saturday's April 1 – May 27, 2017 8:00am-8:00pm • Tue & Thurs – March 14 – May 25, 2017 6:00-8:30pm
	○ Youth Basketball League Summer Season	• Saturday's June 17 – Aug 13, 2017 8:00am-8:00pm (Not July 1st) • Tue, Wed & Thurs – June 1 – Aug 11, 2017 6:00-8:30pm
Wolf Lake Middle Parking Lots	Event Parking	Feb 11, 2017 & July 4, 2017

EXHIBIT "D"
School Facilities

Apopka HS (~53.04 ac)

1 in = 200 ft

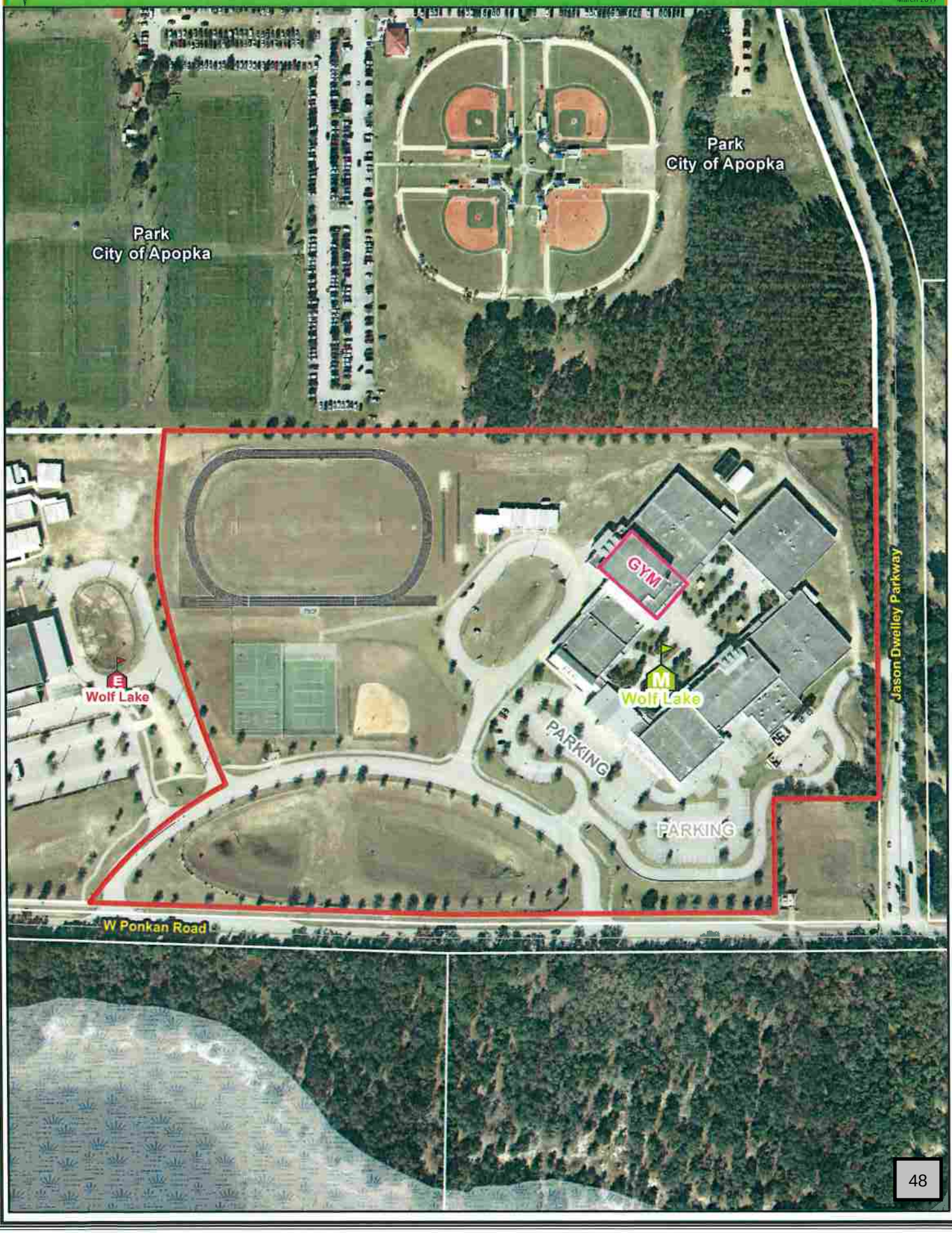
Feet 0 50 100 200

Aerial 2015 March 2017

CHILLER
SHADEHOUSE
GREENHOUSE
CAFETERIA
CLASSROOM
CLASSROOM
CLASSROOM
AUTO SHOP
ADMINISTRATION
AUDITORIUM
MUSIC
MEDIA
GYMNASIUM
APOPKA
DAYCARE
FIELD HOUSE
BLEACHERS
SHED
BLEACHERS
BLEACHERS
Softball Dugout
BLEACHERS Softball Dugout
SHED
SHED
Baseball Dugout
BLEACHERS
Baseball Dugout/Concessions
~664 Feet
Apopka 9th Grade Center
City Owned Park

Wolf Lake MS (~32.43 ac)

Aerial 2016
March 2017



Backup material for agenda item:

2. Authorize the entertainment and sale of alcohol at The Symphony Under the Stars Concert.

CITY OF APOPKA
CITY COUNCIL

_X_	CONSENT AGENDA	MEETING OF:	March 29, 2017
___	PUBLIC HEARING	FROM:	Recreation
___	SPECIAL REPORTS	EXHIBITS:	Agreement
___	OTHER:		

SUBJECT: **CHANGING FARM TO FEAST TO A SYMPHONY UNDER THE STARS**

REQUEST: **AUTHORIZE THE ENTERTAINMENT AND SALE OF ALCHOL AT THE SYMPHONY UNDER THE STARS CONCERT**

SUMMARY:

On December 21, 2016 City Council approved the sale of Alcohol for the May 6, 2017 Farm to Feast event. Due to a similar event already being held in Mount Dora on March 25th 2017, called Field to Feast, staff recommends holding a non-conflicting Symphony Under The Stars event on May 13, 2017.

Staff is requesting to enter into a musical service agreement with The Orlando Philharmonic Orchestra, Inc to provide a family-friendly concert and entertainment. Blankets and picnic baskets would be welcome and specialty cuisine, wine, champagne, drinks and desserts from various food and beverage vendors will be available. Under the agreement, Orlando Philharmonic Orchestra is responsible for recruiting and hosting music artists and all concert production including audio and lighting equipment and setup. The total cost for this service is $50,000.

In the FY16/17 Community Outreach budget there is $90,500 that is approved for the Farm to Feast event. The Symphony Under The Stars would stay within this budget with the following expenses:

• Entertainment / Sound / Production	$50,000
• Marketing / Promotions	$15,000
• Operating Supplies	$12,000
• Rentals (Fencing, Portolets, generators)	$13,500
	$90,500

Under State Statute 287.057 Section 3, "Artistic Services," [which means the rendering by a contractor of its time and effort to create or perform an artistic work in the fields of music] are not subject to the competitive-solicitation requirements.

Staff is also requesting approval for the sale of alcoholic beverages for this event to be held on May 13, 2017 at the Northwest Recreation Complex. Ordinance No. 2376 requires City Council approval for the sale, consumption and carrying of alcoholic beverages on City-owned property during events or programs.

FUNDING SOURCE:

FY16/17 Community Outreach Budget

RECOMMENDATION ACTION:

Approval of Orlando Philharmonic Orchestra for the production of the Symphony Under the Stars concert and alcoholic beverage sales.

DISTRIBUTION

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

MUSICAL SERVICES CONTRACT

THIS AGREEMENT is made by and between **City of Apopka** (hereinafter known as "PURCHASER") and The Orlando Philharmonic Orchestra, Inc. (hereinafter known as "OPO") pursuant to the terms and conditions outlined herein.

1. PURCHASER hires OPO, and OPO agrees to provide musical services as outlined below.

Concert Date SATURDAY MAY 13, 2017 Time 7:00 P.M. - 9:00 P.M.

Instrument Petting Zoos: 5:30 PM to 6:30 PM

Location APOPKA CENTER AMPHITHEATER

Ensemble: **Pops Orchestra** **Event**: **Public Concert** **Title:** ***TBD***

2. **Total Compensation** of **$** **50,000.00** (CONFIDENTIAL FEE) shall be paid by check to The Orlando Philharmonic Orchestra, Inc. , OPO's authorized representative as follows: 25% Non-refundable Deposit ($12,500.000 due upon signing of this agreement**.** Balance 75% ($37,500) due May 13, 2017. Notice of cancellation of event(s) covered herein less than **45** days prior to such events shall require full payment as outlined in herein**.**

3. There shall be allowed an intermission at the sole, absolute, and unrestricted discretion of OPO.

4. OPO will provide all musical and guest artist services, instrument petting zoo, music, musician transportation, sound and lighting engineers and reinforcement, ~~orchestra tent~~, orchestra chairs and music stands and conductor podium (unless available at venue), stage lighting, music stand lights (if necessary), stage crew and trucking in furtherance of performing obligations covered by this Agreement.

5. PURCHASER will provide, or cause to be provided at its expense: performance venue; publicity; advertising; programs for said event(s); audience parking; convenient OPO parking; and electrical power (as outlined below). In addition, at the following venues PURCHASER agrees to provide the items outlined below.

   Outdoor Venue: Access 36 hours prior to event and 36 hours after event.; ELECTRICAL preferred - source at stage right / 60 AMP 3 Phase or 100 AMP Single Phase with female cam locks accessible at stage area; separate male and female rest rooms..

6. OPO may sell compact discs and assorted OPO souvenirs at event, and disseminate information about its independent concert programs at said events provided that OPO will prepare such materials for dissemination at no outlay of money or labor on Purchaser's part.

7. PURCHASER understands that OPO's obligations hereunder may be affected or prevented from being performed by sickness, physical inability, accident, transportation failures, acts of God or nature, riots, strikes or labor difficulties, epidemics, acts or orders of public authorities, inclement weather or any other cause which is beyond the control of OPO.

8. No provision of this Agreement may be assigned by either party, as this Agreement is predicated on the artistic ability and reputation of the OPO and its personnel.

9. OPO is not an employee or partner of, nor in a joint venture with, PURCHASER. Neither party assumes liability for the other's independent obligations assumed in order to carry out the provisions of the Agreement.

10. OPO shall have exclusive control over the means and methods employed in fulfilling its obligations hereunder in every respect and detail, subject to the date and time constraints as outlined above. When the concert reaches the intermission point it can be considered completed should weather conditions be a factor in determining audience and orchestra safety. If rain occurs during or after intermission, the PURCHASER and OPO agree that OPO has completed, and has fulfilled its obligation under this agreement.

11. As long as OPO shall have substantially performed its obligations hereunder, dissatisfaction with OPO's performance shall not relieve PURCHASER of the obligation to compensate OPO for is services.

12. This Agreement does not constitute an exclusive arrangement between the parties.

13. This Agreement may not be modified by the parties except by mutual agreement in writing which has been executed by both parties.

14. This Agreement is governed by the laws of the State of Florida, and venue for any legal action concerning this Agreement shall lie in Orange County, Florida.

15. In any legal dispute between the parties regarding any terms of this Agreement, the prevailing party shall be entitled to reasonable attorney fees and costs, including those related to appeal.

16. The persons signing this Agreement on behalf of the parties warrant their authority to bind their respective organizations.

17. PURCHASER warrants that it has, or will have funds for payment specified herein at the agreed time and manner of payment, and that such funds shall not be otherwise pledged or compromised in any manner whatsoever.

18. This is the complete Agreement of the parties and no prior contemporaneous or subsequent oral modification will be effective to alter any of the terms hereunder.

19. Notices to either party are effective on mailing, U.S. postage prepaid, or faxing, to the addresses below.

PURCHASER	**ORLANDO PHILHARMONIC ORCHESTRA**
_____	_____
Authorized Signature	Mark Fischer, Director of Artistic Operations
_____	
Address	The Orlando Philharmonic Orchestra
_____	425 N. Bumby Avenue
Address	Orlando, FL 32803
	Phone: (407) 896-6700 Fax: (407) 896-5512
Phone_____	Cell: (407) 312-2153
Email_____	Email: mfischer@orlandophil.org

Backup material for agenda item:

3. Approve the funding and treatment of termites at the Apopka Police Station.

CITY OF APOPKA
CITY COUNCIL

___ CONSENT AGENDA
___ PUBLIC HEARING
___ SPECIAL REPORTS
_X_ OTHER:

MEETING OF: March 29, 2017
FROM: Public Services
EXHIBITS: Written Quotes

SUBJECT: APOPKA POLICE STATION DRYWOOD TERMITE TREATMENT

Request: APPROVE ORKIN PEST CONTROL FOR THE TREATMENT OF TERMITES

SUMMARY:

The Apopka Police station located at 112 E. 6th Street, was found to have Drywood termites. After the initial discovery staff sought and received three (3) written quotes for the treatment of Drywood termites from reputable vendors:

Massey Services Inc.	$27,200
Orkin Pest Control	$21,900
Terminix	$21,056

The lowest written quote was received from Terminix. Attempts to make contact to discuss their submitted quote by phone and email went without reply.

With the lowest bidder unresponsive the quote was from Orkin Pest Control in the amount of $21,900.

FUNDING SOURCE:

$21,900 City Reserves

RECOMMENDATION ACTION:

City Council approve the Orkin Pest Control quote for the treatment of termites at the Apopka Police Station.

DISTRIBUTION

Mayor Kilsheimer
Commissioners
City Administrator
Community Development Director
Finance Director
HR Director
IT Director
Police Chief
Public Services Director
Recreation Director
City Clerk
Fire Chief

Orkin Pest Control

704 West State Road 436 #104

Altamonte Springs, Florida 32714

407-322-9120

To: City of Apopka c/o Jeff Plaugher

From: Calvin Troy

Date: March 2, 2017

Ref: 112 E 12th St Apopka, FL 32703

Recommended Termite Protection Service Proposal:

Recommend #1- Drywood Termite Fumigation and Liquid Guarantee Agreements

- ***Entire Structure for Fumigation***
- ***With the ability to treat every area of the entire structure with fumigation, is often recommended when multiple termite colonies are found in one structure.***
- ***Fumigation involves a tent that envelops the building, before termite specialists release gas, which spreads throughout to reach every crack and crevice that may be harboring termites.***
- ***Fumigation is effective on drywood termites but not effective on subterranean termites. The fumigation for other insects can be used in conjunction for drywood termites. Fumigation for other insect will eliminate the live insects but may not be effective the eggs.***

Recommend # 2 Drywood Termite Liquid Treatment

- ***Orkin will spray all of the exposed wood with a liquid termiticide to for Drywood Termites.***
- ***Orkin will foam all woodeden exterior doors and windows of with special dry-foam termiticide.***
- ***We will perform a full annual inspection of all buildings one time per year. We will call each year to set up appointment time and date to perform annual inspection. You will receive a written report for your records.***

Fumigation Protocol Based on Cubic Footage of Entire Buiding

Total Cubic Feet to Fumigate: 302,600 cu.ft.

Pricing Program forFumigation/ Liquid Termite

Recommend #1

	Drywood Termite Fumigation & Liquid Treatment	***Drywood Liquid Treatment***
Initial treatment cost	***$21,900.00***	***Cost Included***
Renewal After the first 2 Years:	***$2,628.00***	

Payment

You have three (3) options with Orkin Pest Control for payment.

1. ***To pay by check for the Services***
2. ***Financing through Orkin Pest Control (Rollins Acceptance Company)***

Financing through Orkin Pest Control Payment Schedule

90 Days Same as Cash / No renewal until 2019 – Anniversary Date of Treatment

Financed for 12 months / No renewal until 2019

Financed for 24 months / No renewal until 2020

Financed for 36 months / No renewal until 2021

You can combine any of the above service into the financing program that fits your budget.

With are payment plan, payments do not start until forty-five (45) days from completion date.

These monthly payments are based on zero down or 100% financing. We do have a credit application to be filled out and financing approval is done at corporate office. No prepayment issues and simple interest.

If you have any questions, please feel free to contact me on my cell number 407-350-2282 or office 407-322-9120.

MASSEY SERVICES INC.®

E-mail Address: customercare@MasseyServices.com
Website: MasseyServices.com

WOOD DESTROYING INSECTS SERVICE AGREEMENT - FLORIDA

SPOT TREATMENT

City of Apopka - Jeff Plaugher
Customer

Customer's Agent

112 E. 6th St.
Treated Property

Orange
County

Mailing Address

Apopka, FL 32703
City, State, Zip

Grid

( )
City, State, Zip

Phone

(407 703-1731 ( )
Home Phone

Business Phone

jplaugher@apopka.net
E-mail Address

Effective Date

TREATMENT WILL BE PROVIDED BY:	GUARANTEE WILL BE ISSUED AS CHECKED BELOW:
Fumigation ☐ WOOD TREATMENT ☐ HEAT TREATMENT	☐ REPAIR AND RETREATMENT ☒ RETREATMENT ONLY ☐ NO GUARANTEE
MASSEY IS AUTHORIZED TO SPOT TREAT THE STRUCTURE IDENTIFIED ABOVE FOR THE: ☒ CONTROL OF ☐ PREVENTION OF	Specific Wood Destroying Insects Included in Coverage:
☒ Drywood Termites ☐ Powderpost Beetles ☐ Old House Borers	☒ Drywood Termites *(Kalotermes sp., Incisitermes sp., Cryptotermes sp.)*
WDI Treatment Sticker Location:	☐ Powderpost Beetles *(Anobiidae sp., Lyctidae sp., Bostrichidae sp.)*
	☐ Old House Borers *(Cerambycidae sp.)*

IMPORTANT: *For detailed explanation of Guarantee(s), see the reverse side hereof. All Guarantees are specifically subject to the General Terms and Conditions listed on the reverse side hereof. (Refer to the Wood Destroying Organism Inspection Graph for specific areas in, on or under the structure that were treated.) This Agreement specifically excludes all subterranean termites including Reticulitermes spp., Heterotermes spp., and Coptotermes spp. (including Formosan Termites) and Nasutitemes spp.*

1. **RENEWABLE PROTECTION**
   A. **MASSEY** guarantees the Initial Treatment for a period of one(1) year from the Effective Date referenced above. **MASSEY** will offer the Customer an option of renewing the Guarantee each year. The annual renewal fee will be ☐ $ 2,700 for the second year through fifth year, or ☐ $ _____ for customers enrolling in Automatic Bill Pay which equates to a 5% discount. **MASSEY** reserves the right to adjust the annual renewal fee each year thereafter by giving the Customer Advance Notice. (Checked Box and Initials Indicates Customer Preference: _____ Customer Initials)
   B. The Customer must pay the annual renewal fee on/or before the end of the expiration month (anniversary of the Effective Date) or this Guarantee will be automatically terminated.
   C. Based on the mutual consent of both **MASSEY** and the Customer, **MASSEY** reserves the right to offer the Customer an option to renew this Guarantee on a year-to-year basis after the initial ten (10) year period.
2. **REINSPECTIONS**
   A. During the effective period of this Guarantee, **MASSEY** will reinspect the Treated Structure(s) annually upon Customer's request, or more frequently as deemed by Massey. No failure on the part of the Customer to request reinspection shall, in any way, affect the Customer's rights under this Guarantee.
   B. The Customer agrees to make the Treated Structure(s) available for reinspection.
3. **RETREATMENT, REPAIR OF FUTURE DAMAGE, AND LIMITATIONS OF LIABILITY**
   The type of Guarantee checked above will be issued to the Customer upon completion of the Initial Treatment and payment in full. The **"Repair and Retreatment"** and **"Retreatment Only"** Guarantees are explained in detail and are subject to the General Terms and Conditions on the reverse side hereof. In summary, the **"Repair and Retreatment"** Guarantee provides for *retreatment and repair protection* against new damage to the structure and contents *at no additional cost to the Customer.* **Old damage (damage occurring prior to the Effective Date) is not covered.** The **"Retreatment Only"** Guarantee provides only for any retreatment deemed necessary at *no additional cost to the Customer.*
4. **TRANSFER OF OWNERSHIP**
   MASSEY agrees to transfer this Guarantee to the new Owner of the Treated Property upon payment of a $95.00 transfer fee, provided that the new Owner requests transfer in writing and pays the transfer fee within three business days of the change of ownership. Otherwise, this Guarantee will terminate automatically as of the date of change of ownership. **MASSEY** reserves the right to adjust the annual renewal fee upon transfer of this Guarantee.
5. **STRUCTURAL ADDITIONS AND/OR ALTERATIONS**
   A. In the event the Treated Structure is modified, altered or otherwise changed, Customer will immediately notify **MASSEY** in writing for proper instruction(s) and/or any additional treatments required by the changes made.
   B. **MASSEY** may exclude damage repair coverage from avenues or conditions created by structural additions and/or alterations. In lieu of such exclusion, **MASSEY** may require additional treatment, additional service charges, and/or an adjustment in the annual renewal fee.
6. **ALLERGIES AND SENSITIVITIES**
   If you, or any occupants, are prone to allergic reactions or sensitivities to dust, pollen, odors, chemicals, solvents, etc., or suffer from any respiratory illnesses, you should consult your physician before any service is performed on your property.

In consideration for work to be performed as itemized above and subject to the General Terms and Conditions recorded on the reverse side of this agreement, the undersigned agrees to make payment as follows:

INITIAL TREATMENT	$ 27,266	☐ CASH
OTHER SERVICES	$ _____	☐ CHECK #
TAX %	$ _____	☐ VISA
TOTAL AMOUNT DUE	$ _____	☐ MASTERCARD
LESS DOWN PAYMENT	$ _____	☐ DISCOVER
BALANCE DUE UPON COMPLETION	$ _____	☐ AM EX
☐ Renewal Autopay (if checked) _____ (Customer Initials)		☐ AUTO BILL PAY* (For annual renewal charged as indicated on the payment options form.)

ACCOUNT # _____

Expiration Date _____ Authorization #: _____

_____
Customer/Agent Date

NOTICE TO BUYER

You, the Buyer, may cancel this agreement within seventy-two (72) hours of execution by giving written notice of cancellation by registered mail to MASSEY. Do not sign this Service Agreement if blank. You are entitled to a copy of the Service Agreement at the time you sign.

49 Apopka
Issuing Office

407-886-7788
Phone #

Address of Issuing Office

City State Zip

Tony Crosby
MASSEY Inspector

Date

GM Review

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MS-204 (05/13)

TERMINIX®

Summary of Charges

	Product	Amount	Tax	Discount	Total Amount
Initial Term	Tent Defend System	$21056.00	$1368.64	$0.00	$22424.64
				Grand Total:	$22424.64

Product	Merchandise	Quantity

Purchaser Payments

By signing below, I, the cardholder, have authorized Terminix to process the one-time payment upon the completion of the initial service without further signature or authorization from me.

$

EASY PAY: Purchaser authorizes Terminix to automatically debit Purchaser's checking account or credit card, as indicated below, in an amount equal to any recurring service charges due to Terminix under this Agreement within five (5) days of the date such charge becomes due. This authorization will remain in effect until the fifth business day following Terminix's receipt from Purchaser of a written notice to cancel such authorization. Purchaser understands that cancellation of this authorization does not cancel Purchaser's obligations under this Agreement.

Authorization

Backup material for agenda item:

1. City Council direction on Edwards Field Grandstand. Glenn A. Irby

CITY OF APOPKA
CITY COUNCIL

___ CONSENT AGENDA
___ PUBLIC HEARING
___ SPECIAL REPORTS
___ OTHER:

MEETING OF: March 29, 2017
FROM: Administration
EXHIBITS: Deed, site schematic, email, article & slideshow

SUBJECT: **GRANDSTAND AT EDWARDS FIELD**

REQUEST: **DIRECTION FROM CITY COUNCIL ON HOW TO PROCEED WITH PRESENT CONDITIONS**

SUMMARY:

The City of Apopka acquired the Edwards Field site directly east of Kit Land Nelson Park in September 1938 via warranty deed, which follows this staff report. Edwards Field has a rich history as it was used as a military installation during WWII among other things. Following this report is a schematic showing the layout of the encampment. Later, the field was used for various sports, including baseball. As we all know, the only thing left on the field is the grandstand, which according to the County Property Appraiser was constructed in 1970.

Recently, the grandstand was vandalized. Upon close inspection by staff, the interior was found to be termite riddled along with other issues needing attention. Below is summarization of immediate needs and associated costs:

- Treatment of active termites $ 5,000
- Replacing wooden doors and windows $10,000
- Updating structure to ADA compliance Up to $500,000

The City's Building Official was asked to inspect the structure and assess it from a standpoint of safety. Mr. Marsh's comments follow:

- Site as it is right now should not be used by the public,
- Steps going to the stands are not ADA compliant,
- There are no handrails at any of the steps,
- There are a number of building and life safety issues,
- There a number of ADA violations,
- Bathrooms are not ADA compliant and likely cannot be modified,
- Electrical needs complete overhaul,
- City should close the stands to the public with fencing and post warning signs until it decides how to proceed,
- If the City chose to do something with the site, it could be done but it will take some creative planning and design.

The area was immediately fenced and posted.

[For your edification, an email from Mr. Peter Jordan follows that gives a historical perspective the field from the late 1800's]

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

The structure on Edwards Field is a fiscal liability. It should either be made ADA compliant and all safety and welfare issues resolved or demolished. In light of the estimated cost to restore the structure and the very real possibility of not being able to upgrade it to current standards, it would be more cost effective to demolish and build a new structure. Demolishing the structure could be done rather soon and planning a new building could take place over the summer during the budget process, should this be the desire of the Council.

Mr. Marsh will be in attendance at the meeting to answer questions related to the condition of the structure.

DISTRIBUTION

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

AMERICAN REALTY CO. --APOPKA, FLA. WARRANTY DEED.

THIS INDENTURE, Made this 23rd day of March A. D. 1925 between the AMERICAN REALTY CO. OF APOPKA, a corporation existing under the laws of the State of Florida, party of the first part, and The Apopka Base Ball Club, Inc. parties of the second part.

WITNESSETH: That the said party of the first part, for and in consideration of the sum of one dollar and other good and valuable consideration, to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold and transfered, and by these presents doth grant bargain, sell and transfer unto the said party of the second part, and [illegible], their heirs, successors and assigns forever, all that certain parcel of land lying and being in the county of Orange and State of Florida, more particularly described as follows:

The south east quarter of the south west quarter of the north west quarter of section ten township twenty one south range twenty eight east. of Section 10, Township 21 South, Range 28 East

Together with all the tenements, hereditaments and appurtenances with every privilege, right, title, interest and estate, reversion, remainder, and easement thereto belonging and

578

to sell the same and that it will warrant, and defend the same against the lawful claims of all persons.

IN WITNESS WHEREOF, Said party of the first part caused these presents to be signed in its name by its President, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

AMERICAN REALTY CO. OF APOPKA.

(CORPORATE SEAL)

(I R S $1.50)

By H. H. Witherington
President

Attest C. F. Clark
Secretary.

Signed, sealed and delivered in our presence.

D. W. Clark

E. S. Morrey

STATE OF FLORIDA,
S. S.
County of Orange

Before me the undersigned, a Notary Public in and for the State of Florida at Large, personally appeared H. H. Witherington and C. F. Clark respectfully President and Secretary of the AMERICAN REALTY COMPANY OF APOPKA, a corporation under the laws of the State of Florida, to me well known and known to be the persons described herein and who executed the foregoing conveyance to the Apopka Base Ball Club Inc. and severally acknowledged the execution thereof to be their free act and deed as such officers, for the uses and purposes therein mentioned, and that they affixed thereunto the official seal of said corporation.

Witness my hand and official seal, this the 23rd day of March A. D. 1925.

E. H. Morrey
Notary Public State of Florida.
My Commission expires the 15 day of Feb. 1929.

(NOTARIAL SEAL)

Filed in office and recorded June 26th, 1925 A. D. at 2:20 P. M.

W M Robinson Clerk
By L McBennett D. C.
J. L.

WARRANTY DEED
FROM CORPORATION TO CORPORATION

DREW'S FORM R. E. 3314 Printed and for sale by The R. & W. B. Drew Company, Jacksonville, Florida.

DEED BOOK 521 PAGE 77

This Indenture, Made this 22nd day of September A. D. 19 38

BETWEEN The Apopka Base Ball Club, Inc., otherwise known as Apopka Baseball Club, a non-profit Corporation, existing under the laws of the State of Florida, having its principal place of business in the County of Orange, and State of Florida, and lawfully authorized to transact business in the State of Florida, party of the first part, and Town of Apopka City, whose permanent address is Apopka, County of Orange, State of Florida, municipal corporation existing under the laws of the State of Florida, having its principal place of business in the County of Orange, and State of Florida, and lawfully authorized to transact business in the State of Florida, party of the second part,

Witnesseth, That the said party of the first part, for and in consideration of the sum of O.V.C and One dollar ---------- Dollars, to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said party of the second part, its successors and assigns forever, the following described land, situate, lying and being in the County of Orange and State of Florida, to-wit: The SE ¼ of SW ¼ of NW ¼ of Section 10 Twp 21s Range 28E/

A further consideration is that this property is deeded with the understanding and purpose that the City of Apopka will perpetuate this property for a Public Park and Athletic Field only and no other use.

The Charter of said grantor, a non-profit Corporation, approved by the Circuit Judge, being recorded in the Clerk of the Circuit Court's office in Orange County, Florida, and this deed being executed pursuant to Resolution of the Stockholders and Officers managing the affairs of the Corporation.

And the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

Seal

The Apopka Base Ball Club Inc

By Harry P Wisherington
President.

Attest: E. B. Lee
Secretary.

Signed, sealed and delivered in the presence of:

W. G. Patton

Charles L. Sykes

Fred C. Musselwhite

FLORIDA

DEED BOOK 521 PAGE 78

State of Florida
County of Orange

I Hereby Certify, That on this 22nd day of September, A. D. 19 38, before me personally appeared Harry P Witherington and C B Lin respectively President and Secretary of The Apopka Base Ball Club, Inc. a non-profit corporation under the laws of the State of Florida, to me known to be the persons described in and who executed the foregoing deed and severally acknowledged the execution thereof to be their free act and deed as such officers, for the uses and purposes therein mentioned; and that they affixed thereto the official seal of said corporation, and the said ______ is the act and deed of said corporation.

Witness my hand and official seal at Apopka Fla. in the County of Orange and State of Florida, the day and year last aforesaid.

(signature)

Notary Public, State of Florida at Large
My Commission Expires Oct. 10, 1938

SEP 29 1938

49257

Warranty Deed

FROM CORPORATION TO CORPORATION

The Apopka Base Ball Club, Inc.

TO

Town of Apopka City

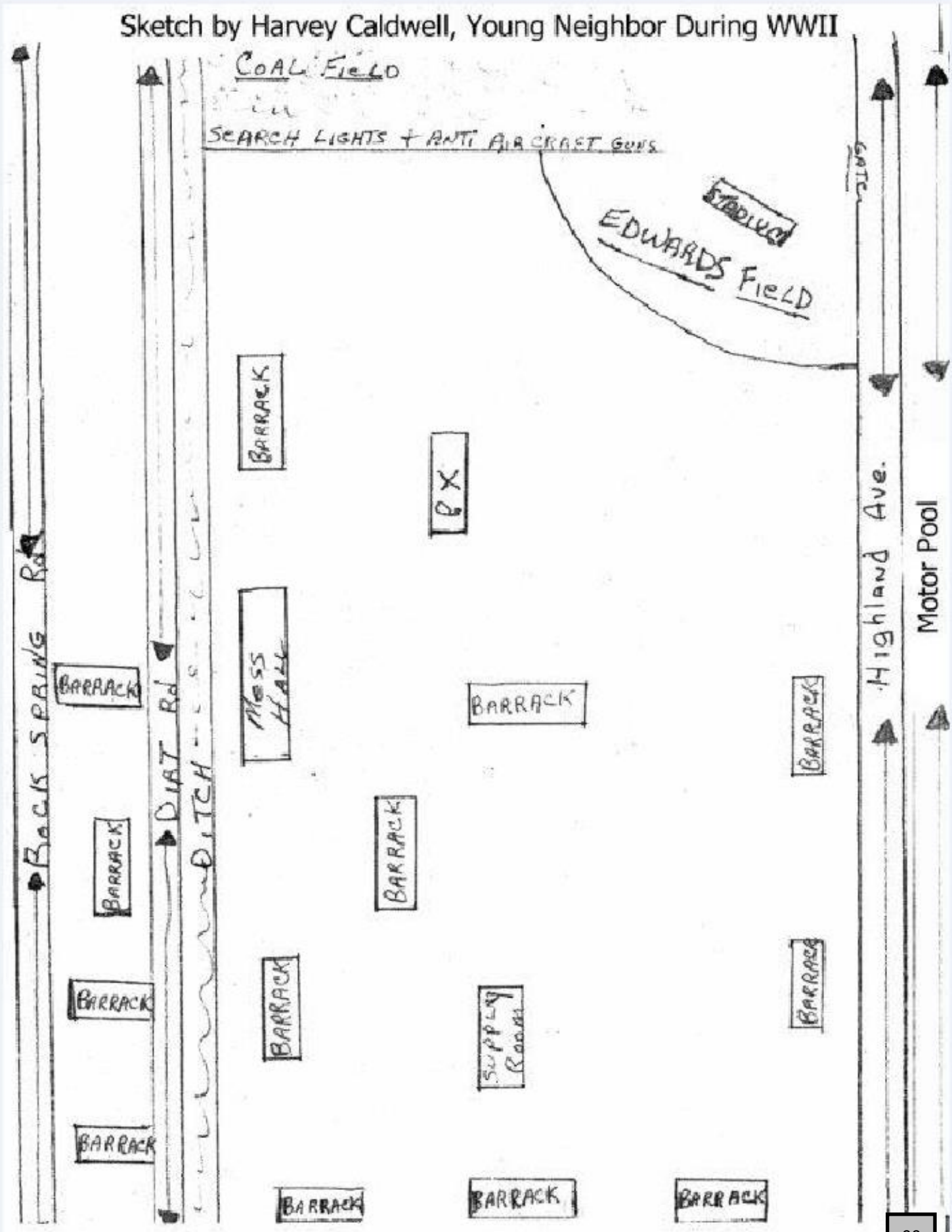
Date Septe 22nd 1938

ABSTRACT OF DESCRIPTION

Filed in the office of the Clerk of the Circuit Court of Orange County, Florida on the 29 day of Sept A.D. 1938 at 11:15 o'clock A.M and recorded in Deed Book No. 521 on page 77-78 and record verified.

(signature) Clerk

Sketch by Harvey Caldwell, Young Neighbor During WWII



From: Peter Jordan [@gmail.com]
Sent: Tuesday, January 31, 2017 5:54 PM
Subject: Edwards Field Stadium

Evening Commissioners and Mr. Irby,
This email is in response to a request for historic information regarding Edwards Field. i don't think the original email got to all the commissioners, but the gist is that I am concerned about the Stadium's future.

Edwards field Highlights Time line

- 1880s Baseball was a popular social event in Apopka. Apopka had white and "colored" teams that played high caliber baseball for three decades.
- 1919 Post WWI Apopka baseball popularity soared when Apopka had two of the best teams of the area. Lake Orange League
- 1929 The Apopka Baseball Club and a recreation committee and the City received a WPA grant for Edwards Field Improvements $14,000 (this may be the time the current structure may have been built?)
- 1938 Big 4th of July event that included Baseball, track and field, three boxing matches and free barbecue. Later that evening dancing on Central and 2nd
- 1937 Segregation ordinances created issues for field use
- 1944 City leases Edwards field to the Army, in conjunction with the Fighter Command School in Orlando **the 351st Coast Artillery Search Light Battalion** based its operations in Apopka.

Dear Commissioners,

> I apologize for the delay for information regarding Edwards Field and its history. I have included a timeline of its history or a small highlight of the early years. I have always seen this field as a kid growing up and now as a Father. I often walk by Edwards Field Stadium and see people parking for the dog park and using the stands for exercise. I envision the concession stand that Mae Chustz ran for many years selling coffee, water or a local beer to dog owners or families enjoying the West Orange Trail or a walk in the Cemetery. The Stands could be utilized for evening concerts or movies.
>
> We have very few historic buildings and I would say this is one. Who will remember the history if we tear it all down?

I propose that Edwards Field Stadium be protected, honored and utilized to bring community together.

Please feel free to contact me.

Respectfully,

Peter Jordan
Apopka Citizen

Six Practical Reasons to Save Old Buildings

By: Julia Rocchi
November 10, 2015
National Trust for Historic Preservation
https://savingplaces.org/stories/six-reasons-save-old-buildings#.WLWGoTi1XLh

What is historic, and worth saving, varies with the beholder, but some definition is urgent. Simply put, "historic" means "old and worth the trouble." It applies to a building that's part of a community's tangible past. And though it may surprise cynics, old buildings can offer opportunities for a community's future.

This article examines both the cultural and practical values of old buildings and looks at why preserving them is beneficial not only for a community's culture, but also for its local economy.

1. Old buildings have intrinsic value.

Buildings of a certain era, namely pre-World War II, tend to be built with higher-quality materials such as rare hardwoods (especially heart pine) and wood from old-growth forests that no longer exist.

Prewar buildings were also built by different standards. A century-old building might be a better long-term bet than its brand-new counterparts.

Take, for example, the antebellum Kennedy-Baker-Walker-Sherrill House in West Knoxville, Tennessee. Until the City Council approved a zoning deal, the house was threatened by developers' interests. However, following its classification as a historic site, the house—and its five-brick-thick walls—will be reborn as an office building that could withstand the fiercest of tornadoes.

2. When you tear down an old building, you never know what's being destroyed.

A decade ago, the Daylight Building in Knoxville was a vacant eyesore. A developer purchased the property with plans to demolish the building to make way for new construction.

However, following multiple failed deals to demolish the building, the Daylight went back on the market. Dewhirst Properties bought it and began renovations only to discover the building's hidden gems: drop-ceilings made with heart-pine wood, a large clerestory, a front awning adorned with unusual tinted "opalescent" glass, and a facade lined with bright copper.

Beyond surviving demolition and revealing a treasure trove of details, the Daylight reminds us that even eyesores can be valuable for a community's future.

3. New businesses prefer old buildings.

In 1961, urban activist Jane Jacobs startled city planners with *The Death and Life of Great American Cities*, in which Jacobs discussed economic advantages that certain types of businesses have when located in older buildings.

Jacobs asserted that new buildings make sense for major chain stores, but other businesses—such as bookstores, ethnic restaurants, antique stores, neighborhood pubs, and especially small start-ups—thrive in old buildings.

"As for really new ideas of any kind—no matter how ultimately profitable or otherwise successful some of them might prove to be—there is no leeway for such chancy trial, error, and experimentation in the high-overhead economy of new construction," she wrote. "Old ideas can sometimes use new buildings. New ideas must use old buildings."

4. Old buildings attract people.

Is it the warmth of thematerials, the heart pine, marble, or old brick—or the resonance of other people, other activities? Maybe older buildings are just more interesting.

The different levels, the vestiges of other uses, the awkward corners, the mixtures of styles, they're at least something to talk about. America's downtown revivals suggest that people like old buildings. Whether the feeling is patriotic, homey, warm, or reassuring, older architecture tends to fit the bill.

Regardless of how they actually spend their lives, Americans prefer to picture themselves living around old buildings. Some eyes glaze over when preservationists talk about "historic building stock," but what they really mean is a community's inventory of old buildings ready to fulfill new uses.

5. Old buildings are reminders of a city's culture and complexity.

By seeing historic buildings—whether related to something famous or recognizably dramatic—tourists and longtime residents are able to witness the aesthetic and cultural history of an area. Just as banks prefer to build stately, old-fashioned facades, even when located in commercial malls, a city needs old buildings to maintain a sense of permanency and heritage.

6. Regret goes only one way.

The preservation of historic buildings is a one-way street. There is no chance to renovate or to save a historic site once it's gone. And we can never be certain what will be valued in the future. This reality brings to light the importance of locating and saving buildings of historic significance—because once a piece of history is destroyed, it is lost forever.

This toolkit originally appeared on March 3, 2014, and was adapted from Jack Neely's article, "Nine Practical Reasons to Save Old Buildings," at Metro Pulse.

Julia Rocchi is the director of digital content at the National Trust. By day she wrangles content; by night (and weekends), she shops local, travels to story-rich places, and gawks at buildings.

@rocchijulia

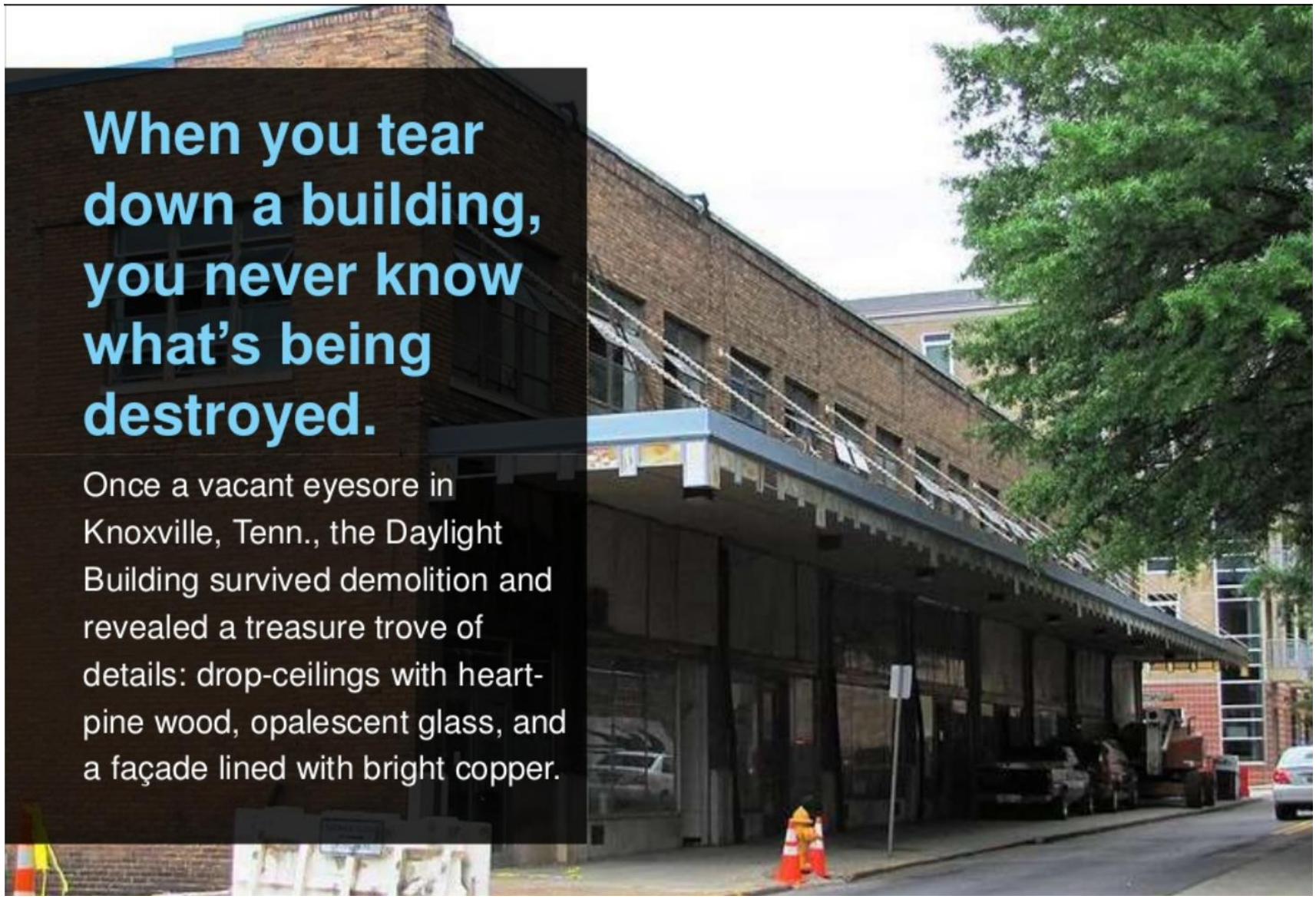
National Trust *for* Historic Preservation

preservation TIPS&TOOLS

SIX REASONS TO SAVE OLD BUILDINGS

Old buildings have intrinsic value.

Buildings of a certain era tend to be built with higher-quality materials and at different standards. A century-old building might be a better long-term bet than its brand-new counterpart.



When you tear down a building, you never know what's being destroyed.

Once a vacant eyesore in Knoxville, Tenn., the Daylight Building survived demolition and revealed a treasure trove of details: drop-ceilings with heart-pine wood, opalescent glass, and a façade lined with bright copper.

New businesses prefer old buildings.

Urban activist Jane Jacobs asserted that new buildings make sense for major chain stores, but other businesses – bookstores, restaurants, pubs, small start-ups – thrive in old buildings.

“Old ideas can sometimes use new buildings. New ideas must use old buildings.”

Old buildings attract people.

Is it the warmth of the heart pine, marble, or old brick -- or the resonance of other people, other uses, other activities? America's downtown revivals suggest that people like old buildings and prefer to picture themselves living in and around them.

Older buildings are reminders of a city's culture and complexity.

By seeing historic buildings -- whether related to something famous or recognizably dramatic -- tourists and longtime residents are able to witness the aesthetic and cultural history of an area. A city needs old buildings to maintain a sense of permanency and heritage.

Regret only goes one way.

The preservation of historic buildings is a one-way street. There is no chance to renovate or save a historic site once it's gone, and we can never be certain what will be valued in the future. This reality brings to light the importance of locating and saving buildings of historic significance -- because once a piece of history is destroyed, it is lost forever.

The National Trust for Historic Preservation works to save America's historic places. Preservation Tips & Tools helps others do the same in their own communities.

For more information, visit blog.preservationnation.org.

Photos courtesy Doha Sam, dok1, Corey Templeton, flickr; cxcynth, Flickr; Brian Stansberry, Wikimedia Commons; Wikimedia Commons; Tess Shebaylo, Flickr; Ed Uthman, Flickr

Text adapted from "Nine Practical Reasons to Save Old Buildings," by Jack Neely.

National Trust *for* Historic Preservation

Backup material for agenda item:

2. Final Development Plan – Fire Station No. 5 – Firehouse Lane, east of Jason Dwelley Parkway - Quasi-Judicial
   David Moon

CITY OF APOPKA
CITY COUNCIL

___	CONSENT AGENDA	MEETING OF:	March 29, 2017
X	PUBLIC HEARING	FROM:	Community Development
___	SPECIAL REPORTS	EXHIBITS:	Vicinity/Aerial Maps
X	OTHER: Final Development Plan		Final Development Plan
			Architectural Renderings

SUBJECT: **FIRE STATION NO. 5 – FINAL DEVELOPMENT PLAN**

REQUEST: **APPROVE THE FINAL DEVELOPMENT PLAN FOR THE CITY OF APOPKA FIRE STATION NO. 5**

SUMMARY:

OWNER/APPLICANT:	City of Apopka
ENGINEER:	Gadd-Case & Associates, LLC
LOCATION:	Firehouse Lane, east of Jason Dwelley Parkway
PARCEL ID #:	20-20-28-0000-00-01
FLUM:	Parks and Recreation
ZONING:	PR (Parks and Recreation)
EXISTING USE:	Vacant Land
PROPOSED USE:	Fire Station
TRACT SIZE:	2.0 +/- acres

DISTRIBUTION

Mayor Kilsheimer	Finance Director	Public Services Director
Commissioners	HR Director	Recreation Director
City Administrator	IT Director	City Clerk
Community Development Director	Police Chief	Fire Chief

ADDITIONAL COMMENTS: The Fire Station No. 5 site plan proposes a 7,747 s.f. fire station and an apparatus bay with four garage ports. Fire Station and emergency response facilities are allowed in the Park and Recreation Zoning District under Section 2.02.02.B.5 c(1) as a permissible use when the public facility comprises less than five acres. Final Landscape and Irrigation Plans will be submitted as part of the Construction Plans included with the bid contract.

PUBLIC HEARING SCHEDULE:
February 15, 2017 - Planning Commission (5:30 pm)
March 29, 2017 - City Council (1:30 pm)

RECOMMENDATION ACTION:

The **Development Review Committee** finds the Final Development Plan consistent with the Comprehensive Plan and Land Development Code and recommends approval of the Final Development Plan for Fire Station No. 5, subject to the findings of this staff report.

The **Planning Commission**, at its meeting on March 14, 2017, found the Final Development Plan consistent with the Comprehensive Plan and Land Development Code; and unanimously recommended approval of the Fire Station No. 5 Final Development Plan, subject to the findings of the staff report.

Approve of the Fire Station No. 5 Final Development Plan, subject to the findings of the staff report.

Note: This item is considered quasi-judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.

Application: **Fire Station No. 5 – Final Development Plan**
Owner: **City of Apopka**
Parcel I.D. No's: **20-20-28-0000-00-01**
Location: **Firehouse Lane, east of Jason Dwelley Parkway**
Total Acres: **2.0 +/- Acres**

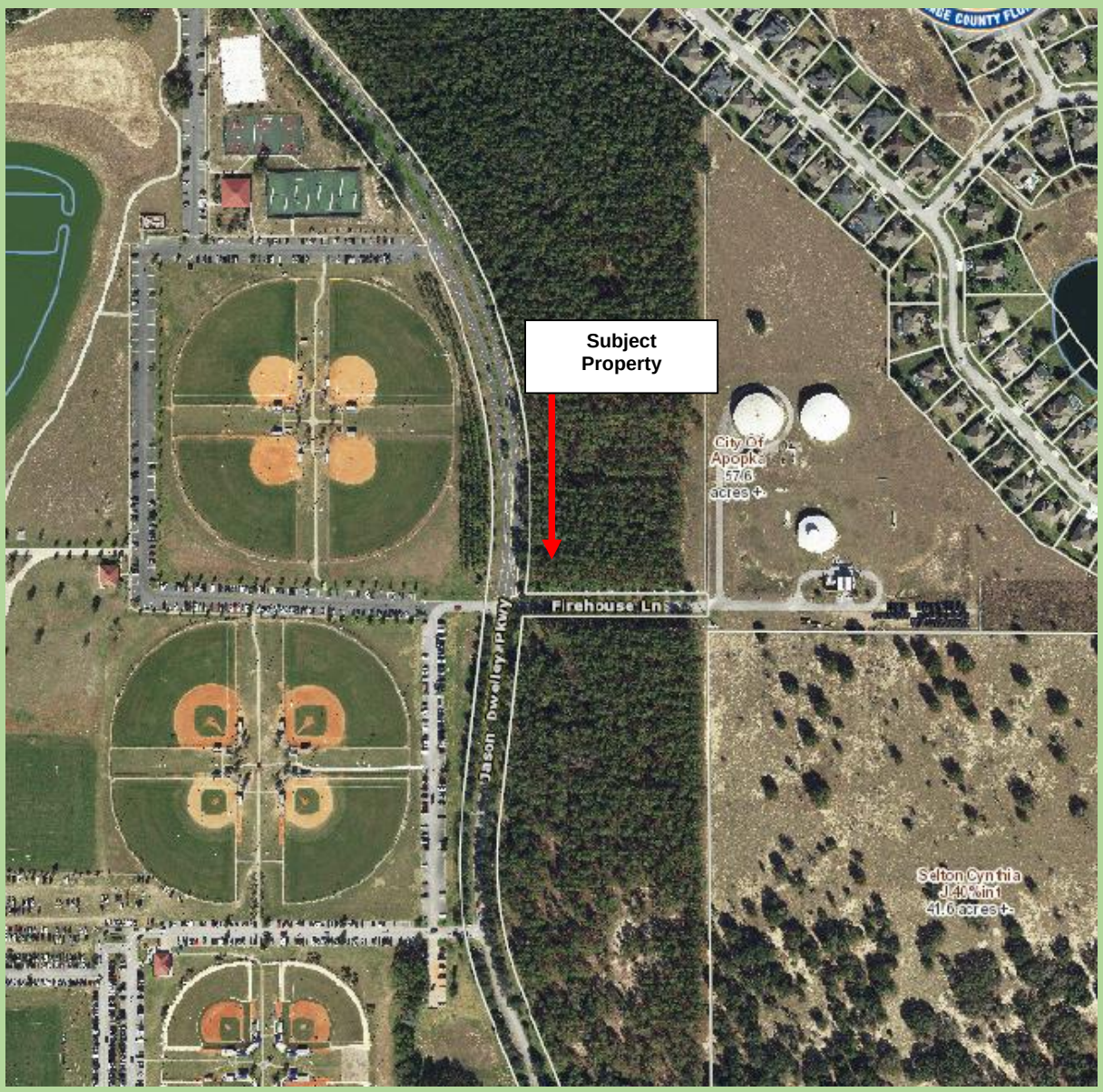
N

VICINITY MAP

Application:	**Fire Station No. 5– Final Development Plan**
Owner:	**City of Apopka**
Parcel I.D. No's:	**20-20-28-0000-00-01**
Location:	**South of Cooper Palms Parkway, east of Bradshaw Road**
Total Acres:	**2.0 +/- Acres**

N

AERIAL MAP



Apopka Fire Station No. 5

1659.01

1685 Mychal Judge Way
Apopka, FL

Issued for 60% Review: January 30, 2017

LUNZ PREBOR FOWLER
ARCHITECTS

58 Lake Morton Drive
Lakeland, FL 33801-5344
p 863.682.1882
f 863.687.8345
llc. AAC001580
www.lunz.com

DRAWING INDEX

SHEET #	SHEET TITLE	60% SET 01.30.17	BID 00.00.00	PERMIT 00.00.00	REV 1 00.00.00	REV 2 00.00.00
A-CVR	Cover Sheet	•				
General						
Survey	Topo Survey	•				
G-002	General Notes	X				
Civil						
C-000	Civil Cover Sheet	•				
C-100	General Notes	•				
C-200	Existing Conditions	•				
C-300	Storm Water Pollution Prevention Plan	•				
C-400	Demolition Plan	•				
C-500	Geometry Plan	•				
C-600	Grading & Drainage Plan	•				
C-601	Roof Drain & Sidewalk Grading Plan	•				
C-602	Pond Plan & Sections	•				
C-700	Utility Plan	•				
C-701	Utility Plan	•				
C-800	General Details	•				
C-900	Utility Details	•				
Structural						
S-101	Structural Specifications, Wind Design Data & Load Schedule	•				
S-201	Foundation Plan	•				
S-202	Roof Framing Plan	•				
S-301	Typical Details	•				
S-302	Typical Details	•				
S-303	Typical Details	•				
Architectural						
A-100	Dimensioned Floor Plan	•				
A-101	Noted Floor Plan	•				
A-110	Reflected Ceiling Plan	•				
A-201	Exterior Elevations	•				
A-301	Building Sections	•				

SHEET #	SHEET TITLE	60% SET 01.30.17	BID 00.00.00	PERMIT 00.00.00	REV 1 00.00.00	REV 2 00.00.00
Mechanical						
M-001	Schedule, Legend & Notes – Mechanical	•				
M-101	Floor Plan – Mechanical	•				
M-102	Higher Elevation Plan – Mechanical	•				
M-103	Refrigerant and Condensate Plan – Mechanical	•				
M-104	Roof Plan – Mechanical	•				
M-501	Details – Mechanical	•				
Fire Protection						
F-001	Schedule, Legend & Notes – Fire Protection	•				
F-101	Floor Plan – Fire Protection	•				
F-102	Attic Plan – Fire Protection	•				
Plumbing		•				
P-001	Schedule, Legend & Notes – Plumbing	•				
P-101	Floor Plan – Plumbing	•				
P-901	Isometrics – Plumbing	•				
Electrical						
E-001	Abbreviations, Legend & Notes – Electrical	•				
ES-001	Site Plan – Lighting	•				
E-101	Floor Plan – Lighting	•				
E-201	Floor Plan – Power	•				
E-501	Details – Electrical	•				
E-502	Details – Electrical	•				
E-601	Riser Diagram – Electrical	•				
E-602	Schedules – Electrical	•				

Civil

Gadd – Case
1925 US Highway 98 South
Lakeland, Florida 33801

p 863.940.9979
RODNEY@GADD-CASE.COM

Structural

Fullone Structural Group
9600 Koger Blvd. North, Suite 227
St. Petersburg, FL 33702

p 727.577.2222
Joe@fullone.SG.com

Mechanical/ Plumbing/ Electrical

MES Group, Inc.
550 North Reo Street, Suite 203
Tampa, FL 33609

p 813.289.4700
f 813.884.0045

C□NSTR□CTI□N DRAWINGS
F□R
AP□P□A
FIRE STATI□N N□ 5

SHEET INDEX

#	DESCRIPTI N
C-000	C_ JER SHEET
C-100	GENERAL NnTES
C-200	EXISTING CUNDITIUNS
C-300	ST¯RMWATER P¯LL¯TI¯N PRE¯ENTI¯N PLAN
C- 00	DEM LITI N PLAN
C-500	GE□METRC PLAN
C-600	GRADING □ DRAINAGE PLAN
C-601	RI I F DRAIN I I SIDEWALI GRADING PLAN
C-602	P_ND PLAN _ SECTILNS
C-700-701	LTILITIES PLAN
C-800	GENERAL DETAILS
C-900	LTILITIES DETAILS
	SI RIIEI II IITHERS

C_NTRACT_R SHALL UTILIUE THE FULLUWING FD_T MLT REFERENCES AS APPR□PRIATE

#	DESCRIPTI_N
600	General Information for Traffic Control Through Work I bnes
601	Two-Lane, Two-Way, Work □utside Shoulder
602	Two-Lane, Two-Way, Work on Shoulder
603	Two-Lane, Two-Way, Work Within the Travel Way
660	Pedestrian Control for Closure of Sidewalks

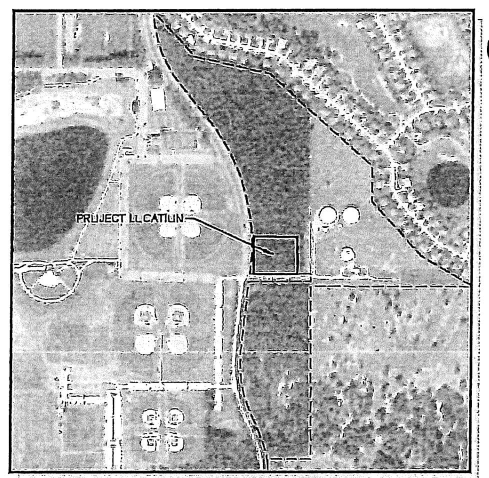
TALLE UF FDUT INDEX REFERENCE

#	DESCRIPTI_N
232	DITCH BOTTOM INLETS - TYPES C, D, E AND H
272	CR_SS DRAIN MITERED END SECTILN
11860	SINGLE C¯L¯MN GR¯¯ND SIGNS

LEGAL DESCRIPTI□N

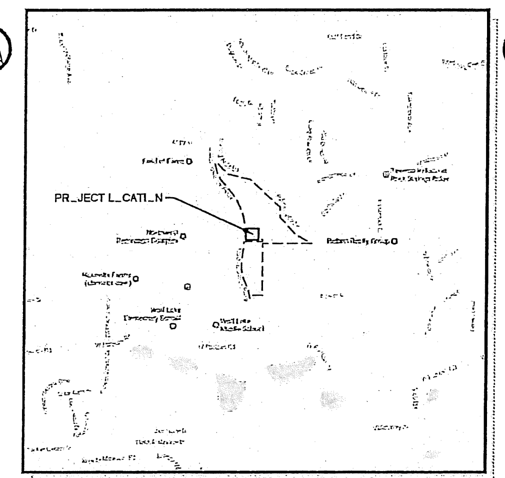
LLU _RANGE CJLNTL PRLPERT_ APPRAISER_

PT _F SECTILNS 19 _ 20-20-28 DESC AS NW1 _ UF SW1U JW3_ LF SW1 _ UF SW1U JNW1_ LESS I EG NE C IR IIF NW1 TH RI N W 2568.95 FT S 550 FT S - DEG E I 0.82 FT S 77 DEG E 600. 0 FT S 8 DEG E 1075 FT S 275 FT S I 2 DEG E 580 FT S 59 DEG E 75 FT T S LINE I F NW1 I TH E Tn SE CI R ¯F NW 1 mTH N T¯ P¯¯TALL IN SEC 20 ¯ E1¯ nF SEC 19 nLESS THAT PT LnING SWL IF P NI IAN RD I I LESS THAT PT PLATTED AS RECREATI IN WAI I PER PI I 53I1 6 ILESS THAT PART DESC AS CnMM AT INT ¯F W LINE I F SEC 20-20-28 ¯N RIW ¯F P¯N¯AN RD THENCE N AL□NG W LINE □F SEC 20 FT F□R P□□ E 678.93 FT N 230 FT E 220 FT N 761.59 FT W 2231.59 FT S 886._9 FT SELU AL_NG C_RUE 35 _ _7 FT S 88 DEG E 990.08 FT T_ P_ J__ LESS THAT PART L¯ING S nF An¯¯E DESC¯I ¯EG N1¯ CnR ¯F SEC 19-20-28 TH RnN S85-38-12W 601.¯I FT S00-2 J-12E 13_9 FT N86-3U-15E 600.8L FT S00-2_-12E 60 FT N88-5U-58E 31 _85 FT N88-5U-58E 27.50 FT S00-2U-12E 330.02 FT S88-5_-58W 27.50 FT S00-2L-12E 1021.01 FT N87-30-02E 1008.19 FT N00-09- 9W 1356.21 FT N00-09- 9W 1356.21 FT N89-I 0-I 7W 1333.79 FT TI I P II I LESS THAT PT L_ING W _F JAS_N DWELLEU PAR_WAL PL67 PG3UU



AERIAL MAP

SECTIUN 20, T_WNSHIP 20 S, RANGE 28 E



□ICINIT□ MAP

SECTI_N 20, TLWNSHIP 20 S, RANGE 28 E

SITE CHARACTERISTICS

1. PRΓJECT DESCRIPTInN:
   CONSTRUCTION OF NEW ±7,7□7 SF FIRE STATIC N, PAR□ING, AND ASS□CIATED ST□RM WATER MANAGEMENT SnSTEM

2. PRLPERT J LUCATIUN U INF_RMATIL N:

PRIIPERT L ICATI N:	SITE IS LI ICATED 3200 JASI IN DWELLE P W
PRIIPERT TAX ID#:	20-20-28-0000-00-001
PRIIPERT ACREAGE:	±57.56 AC
FEMA FLIII D NE SI:	IIINE XI
MAP NΓM¯ER:	12095C0110 F
EFFECTIIE DATE:	SEPTEM ER 25, 2009

3. UL NING AND LAND USE: XXXXX

. DEI ELI PMENT CHARACTERISTICS

PRnJECT AREA:		±2.3AC
SETLAC_S:	FRUNT JASUN DWELLE_ PARUWA_U	25 FT
	SIDE:	10 FT
	REAR:	10 FT
PRI PIISED:		
ISAR:	33,9 8 SF I 2,507,21 SF	XX.XX%
FAR:	7,7¯7 SF I 2,507,21¯ SF	¯XX.XX%

5. PAR_ING
   PAR_ING RE_UIREMENTS
   1 SPACE PER __NU JF THERE ARE SLEEPING U_ARTERSU_R 1 SPACE PER STAFF MEM_ER
   1 ACCESSI LE SPACE

7 STAFF MEM_ERS U 1 ACCESSILLE SPACE U	8 SPACES
HANDICAP RE IIRED II	0 SPACES

PAR□ING PR□□IDED

REG¯LAR SPACES:	19 ¯10 ¯20¯
HANDICAP SPACES:	1 □2 □20□
T_TAL SPACES:	20

6. ΓR̶ΛN̶T̶ΓI̶S̶C̶HNTACTS:

CIT¯I ΓF AP¯P¯A	MEGAN ¯ΓNSTETINA	T¯I LESLIE
7¯8 E CLE¯ELAND ST	D¯I¯E ENERG¯I	CENTΓR¯LIN¯
AP¯PΓA, FL 32703	2501 25 TH ST N	33 N. MAIN ST R¯I¯M 1¯I
PH: T07¯703-1685 EXT:515	ST PETERS¯I¯RG, FL 33713	WINTER GARDEN, FL 3¯787
	PH: 727¯893-839¯I	PH: Γ07¯81Γ-5293

PR¯¯IDE Sn¯MITTALS Tn

RI DNEI I A. GADD, PE
GADD CASE n ASSnCIATES, LLC
1925 ¯S HIGHWAn 98 S, SnITE 201
LA ELAND, FL 33801
PH INE: 863I 9I 0-9979
EMAIL: R DNE I GADD-CASE.C M

□WNER

R. JAU DAU_LL, P.E.
CIT_ LF AP_P_A, PUULIC SERLICES DIR.
7 8 CLE ELAND ST.
API PI IA, FL 32703
PH INE: 07I I703-1731
FAX: II07¯703-17Γ8
EMAIL: JDA¯nLLn AP¯P¯A.NET

CLIENT

LnNnPREn¯R FnWLER ARCHITECTS
58 LAUE M_RTL N DRIUE
LA ELAND, FL 33801-53
PH_INE: 863L682-1882
FAX: I863 687-63I 6

IT IS THE INTENTIUN LF THESE DLC_MENTS T_ PRUPUSE C¯NSTRΓCTIΓN IN ACC¯RDANCE WITH THE FL¯RIDA U_ILDING CUDE AND FLURIDA ACCESSI_ILITU C_DE ULATEST EDITI N . C NTRACT R SHALL E FAMILIAR WITH THESE DUCUMENTS AND ASSURE CLNF_RMANCE.

C_NTRACT_R IS RESP_NSILLE FLR HIRING A _UALIFIED I INDERGR IND TILIT L CAT R. THE I INDERGR I IND UTILIT J LUCATUR SHALL L_CATE EXISTING UTILITIES IN PR JECT AREA PRI R TI I DEM LITI N AND CI INSTRI ICTI IN.

C¯NSTRΓCTIΓN MATERIALS, nΓAUT¯, AND W¯RnMANSHIP SHALL □E IN ACC□RDANCE WITH CIT□ □F AP□P□A AND FD¯T SPECIFICATIΓNS AND STANDARDS, AND THE MAN¯AL □N □NIF□RM TRAFFIC C□NTR□L DE□ICES.

811. Know what's below. Call before you dig.

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GADD CASE
1925 US HWY 98 S, SUITE 201
LAKELAND, FL 33801
PHONE:(863) 940-9979
Certificate of Authorization #30194
www.gadd-case.com

N□T F□R C_NSTRUCTIL N F_R RE_IEW UNLL

R¯DNE¯ A. GADD, P.E.
FLA. P.E. No. 70875

DATE

GADD CASE I I ASSI CIATES
PR JECT #1015.19

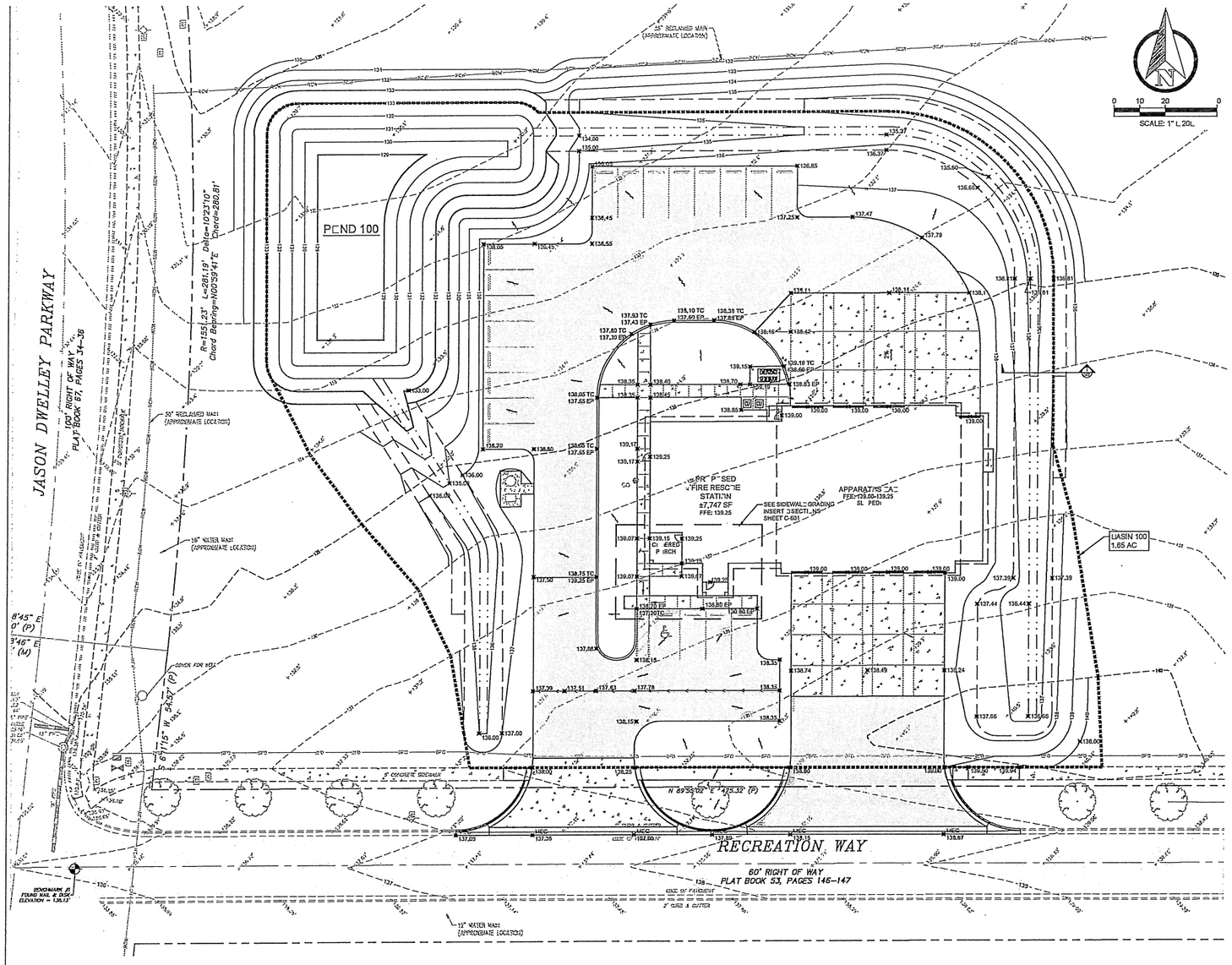
Apopka Fire Station No. 5
3200 Jason Dwelley Pkwy
Apopka, FL Zip

Cover Sheet

REVISION △	....
REVISION △	....
REVISION △	....
ISSUED FOR CONSTRUCTION:	—
ISSUED FOR PERMIT:	—
ISSUED FOR BID:	—
ISSUED FOR BOK APPROVAL:	01.30.18
DRAWN BY: KLS	
REVIEW BY: KS	

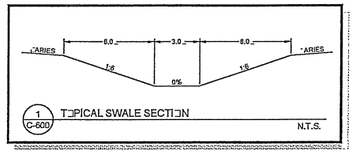
1659.01

C-000



SITE SPECIFIC NOTES:

1. CONTRACTOR TO BE FAMILIAR WITH THE PROPOSED WORK SITE, AND EXISTING FEATURES REMOVED OR DAMAGED DURING CONSTRUCTION ACTIVITIES THAT IS NOT PART OF THIS CONTRACT SHALL BE REPLACED AT CONTRACTORS EXPENSE.
2. CONTRACTOR TO PROVIDE SMOOTH TRANSITIONS AT LOCATIONS WHERE PROPOSED FEATURES MEET EXISTING FEATURES. WHEN CONCRETE OR ASPHALT IS TO BE DEMOLISHED OR REPLACED, THE EXISTING CONCRETE OR ASPHALT IS TO BE SAWCUT.
3. ALL MEP ELEVATIONS, READOUTS AND UNDERGROUND STORM AND TILITY PIPES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO LANDSCAPING STRUCTURES
4. CONTRACTOR SHALL DISTURB AREAS UNLESS OTHERWISE NOTED ON PLANS WITH ASHADED, UNDISTURBED AREAS, THESE SHOULD BE ESTABLISHED AS RESTRICTED AREAS AND LIMIT RED FLAG WASH OUTS. CONTRACTOR MAY REMOVE STALES UNCE THE SOIL IS ESTABLISHED.
5. CONTRACTOR TO CORRECT REPAIR ANY DAMAGE CAUSED TO EXISTING UTILITIES WATER, SEWER, COMMUNICATIONS, IRRIGATION, ETC. CAUSED BY THEIR WORK.
6. THIS SITE IS INTENDED TO COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND ALL OTHER CONSTRUCTED AS PROVIDED THEREIN, SHOULD THE CONTRACTOR DETERMINE THAT COMPLIANCE WITH THE STANDARDS IS NOT CONSISTENT WITH THE SITE PLAN OR ELEVATIONS, THEY SHALL NOTIFY ENGINEER IMMEDIATELY PRIOR TO REMEDIAL FEATURES CONSTRUCTED OR CONTRACTOR THAT ARE NOT IN COMPLIANCE WITH THE STANDARDS, SHALL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.



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ARCHITECTURE
1925 US HWY 98 S, SUITE 201
LAKELAND, FL 33801
PHONE:(863) 940-9979
Certificate of Authorization #30194
www.gadd-case.com

NOT FOR CONSTRUCTION OR FOR REVIEW ONLY

RONDELL A. GADD, P.E.
FLA. P.E. No. 70875

DATE

GADD CASE ASSOCIATES PROJECT #1015.19

811 Know what's below. Call before you dig.

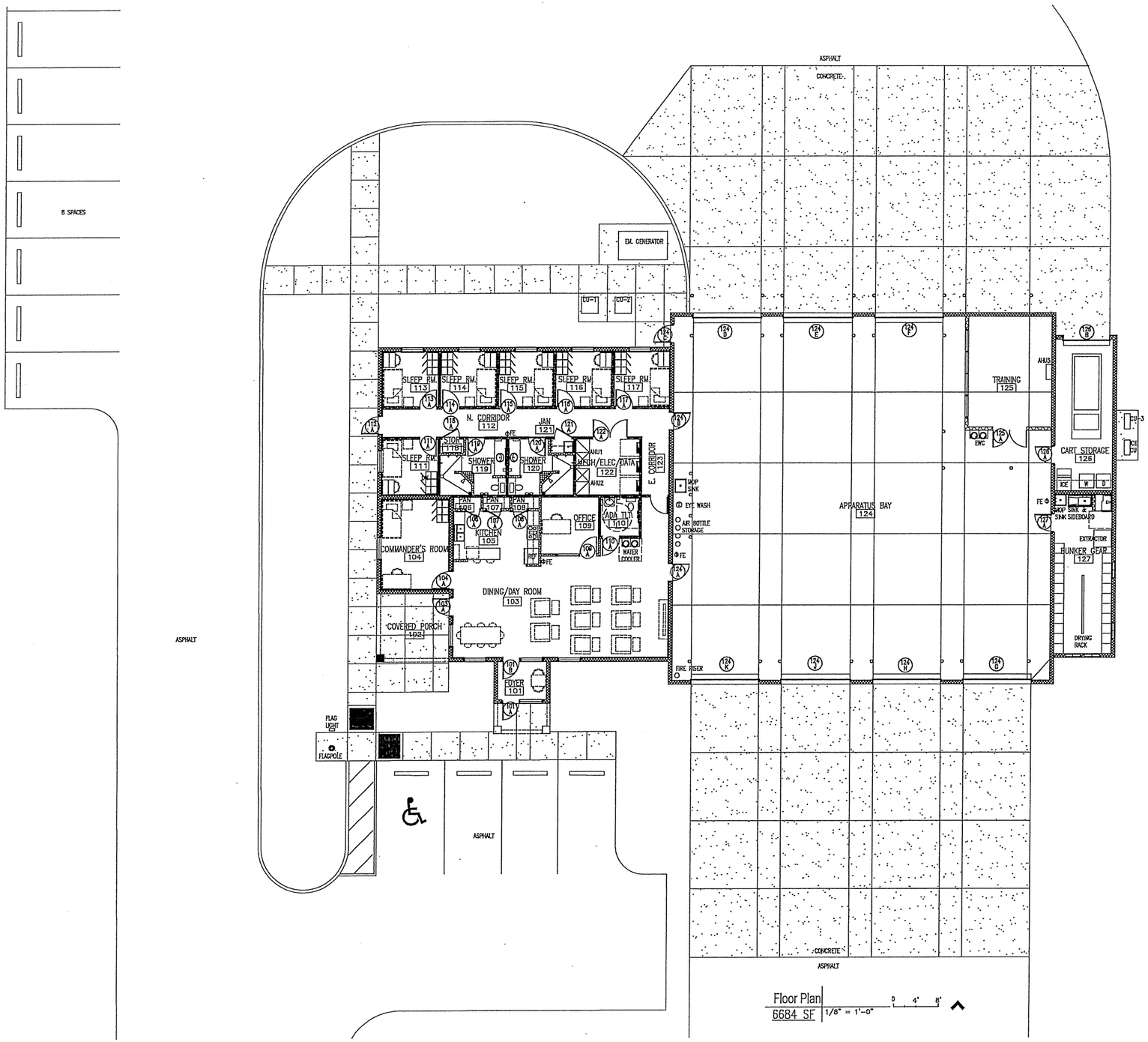
Apopka Fire Station No. 5
3209 Jason Dwelley Pkwy
Apopka, FL Zip

Grading & Drainage Plan

REVISION 1	
REVISION 2	
REVISION 3	
ISSUED FOR CONSTRUCTION:	
ISSUED FOR PERMIT:	
ISSUED FOR BID:	
ISSUED FOR SJC APPROVAL:	01.30.19
DRAWN BY: RLS	
REVIEW BY: RG	

1659.01

C-600



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Architecture | Interior Design
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Lakeland, Fl 33801-5344
p 863.682.1382
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lunz.com

Appopka Fire Station No. 5
Address
City, State Zip

Noted Floor Plan

REVISION 1 .....
REVISION 2 .....
REVISION 3 .....
ISSUED FOR CONSTRUCTION:
ISSUED FOR PERMIT:
ISSUED FOR BID:
ISSUED FOR SOE APPROVAL: 01.30.17
DRAWN BY: C. Savage
REVIEW BY: R. Lunz

1659.01

A-101

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Architecture | Interior Design
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Lakeland, FL 33801-5244
p 863.682.1982
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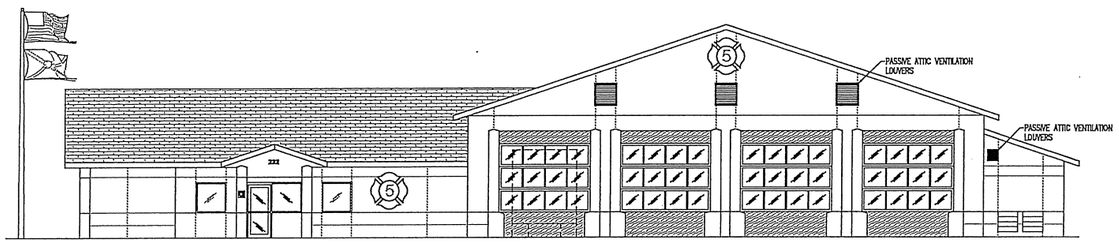
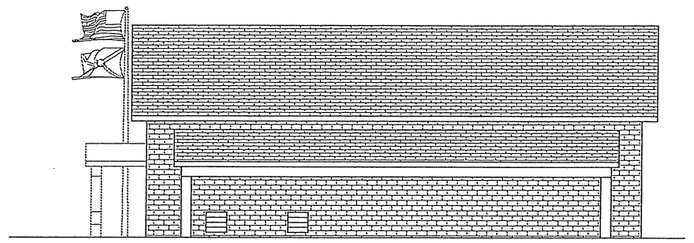
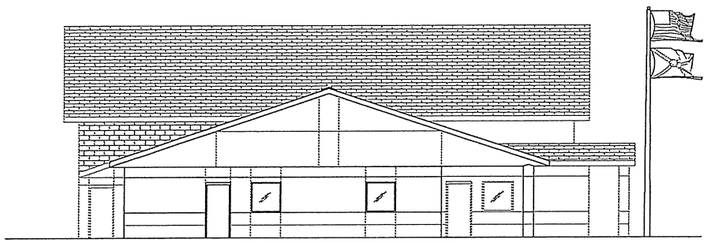


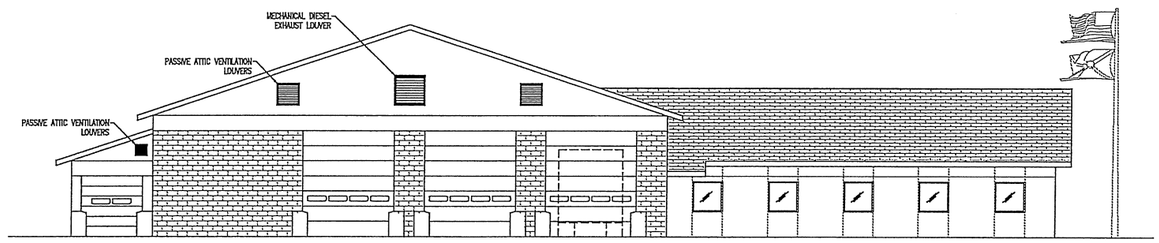
South Elevation
1/8" = 1'-0"
0 4' 8'



East Elevation
1/8" = 1'-0"
0 4' 8'



West Elevation
1/8" = 1'-0"
0 4' 8'



North Elevation
1/8" = 1'-0"
0 4' 8'

Apopka Fire Station No. 5
Address
City, State Zip

Exterior Elevations

REVISION 1 .....
REVISION 2 .....
REVISION 3 .....

ISSUED FOR CONSTRUCTION: / /
ISSUED FOR PERMIT: / /
ISSUED FOR BID: / /
ISSUED FOR BOK APPROVAL: 01.30.18

DRAWN BY: S. Schilje
REVIEW BY: B. Lunz

1659.01

A-201

LU: LL5317

NOTE:
CONTRACTOR TO INSULATE OR HEAT TRACE ALL WET PIPE SPRINKLER WATER PIPING IN APPARATUS BAY OF BUILDING TO PREVENT FREEZING PER NFPA.

NOTE:
ACTUAL PIPE SIZING, ROUTING AND LOCATION SHALL BE BY THE FIRE SPRINKLER CONTRACTOR PER F.A.C. 61G15. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE MARSHAL FOR REVIEW.

DESIGN APPROACH:

SYSTEM IS TO BE A WET PIPE SPRINKLER SYSTEM

OCCUPANCY HAZARDS:

ORDINARY HAZARD OCCUPANCY (GROUP 2), 130 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.20/1500 SQ.FT.; TRUCK BAY

ORDINARY HAZARD OCCUPANCY (GROUP 1), 130 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.15/1500 SQ.FT.; MECHANICAL ROOMS

LIGHT HAZARD OCCUPANCY, 225 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.10/1500 SQ.FT.; FIRE HOUSE; ATTIC

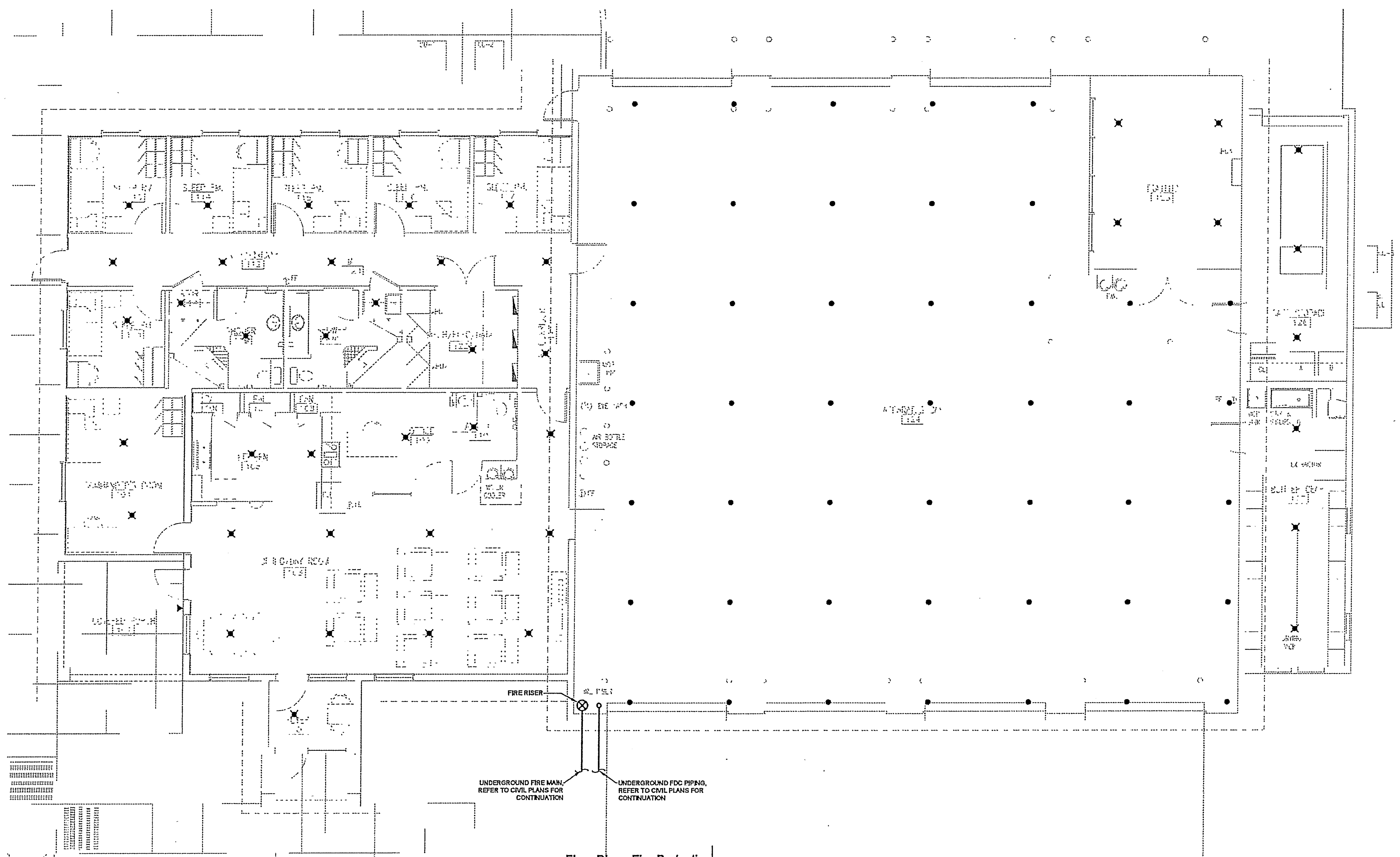
CODE REFERENCE:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2010 EDITION.

FLORIDA BUILDING CODE 2014 5TH EDITION.

FLORIDA FIRE PREVENTION CODE 2014 5TH EDITION.

SYM	NAME	METAL	TEMP	DESCRIPTION
○	UPRIGHT	BRASS	155	STANDARD COVERAGE, QUICK RESPONSE
☒	RECESSED PENDENT	WHITE	135	STANDARD COVERAGE, QUICK RESPONSE
●	RECESSED PENDENT	WHITE	155	STANDARD COVERAGE, STANDARD RESPONSE
▶	DRY SIDEWALL	BRASS	135	STANDARD COVERAGE, QUICK RESPONSE



Floor Plan - Fire Protection
3/16" = 1'-0"

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Lakeland, Fl 33801-5344
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f 863.687.6348
lic. AAC001580
lunz.com

60% PRICING SET
NOT FOR CONSTRUCTION
MES GROUP, INC.

Charles J. Flask, PE
76470

MES GROUP

Apopka Fire Station No. 5
1685 Firehouse Way
Apopka, FL 32712

Floor Plan - Fire Protection

REVISION △ ....

ISSUED FOR CONSTRUCTION: —
ISSUED FOR PERMIT: —
ISSUED FOR BID: —
ISSUED FOR 60% APPROVAL: 02.02.17

DRAWN BY: DCM
REVIEW BY: CJF

1659.01

F-101

NOTE:
CONTRACTOR TO INSULATE OR HEAT TRACE ALL WET PIPE SPRINKLER WATER PIPING IN APPARATUS BAY OF BUILDING TO PREVENT FREEZING PER NFPA.

NOTE:
ACTUAL PIPE SIZING, ROUTING AND LOCATION SHALL BE BY THE FIRE SPRINKLER CONTRACTOR PER F.A.C. 61G15. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE MARSHAL FOR REVIEW.

DESIGN APPROACH:

SYSTEM IS TO BE A WET PIPE SPRINKLER SYSTEM

OCCUPANCY HAZARDS:

ORDINARY HAZARD OCCUPANCY (GROUP 2), 130 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.20/1500 SQ.FT.; TRUCK BAY

ORDINARY HAZARD OCCUPANCY (GROUP 1), 130 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.15/1500 SQ.FT.; MECHANICAL ROOMS

LIGHT HAZARD OCCUPANCY, 225 SQUARE FEET - MAXIMUM SPRINKLER SPACING - DENSITY 0.10/1500 SQ.FT.; FIRE HOUSE; ATTIC

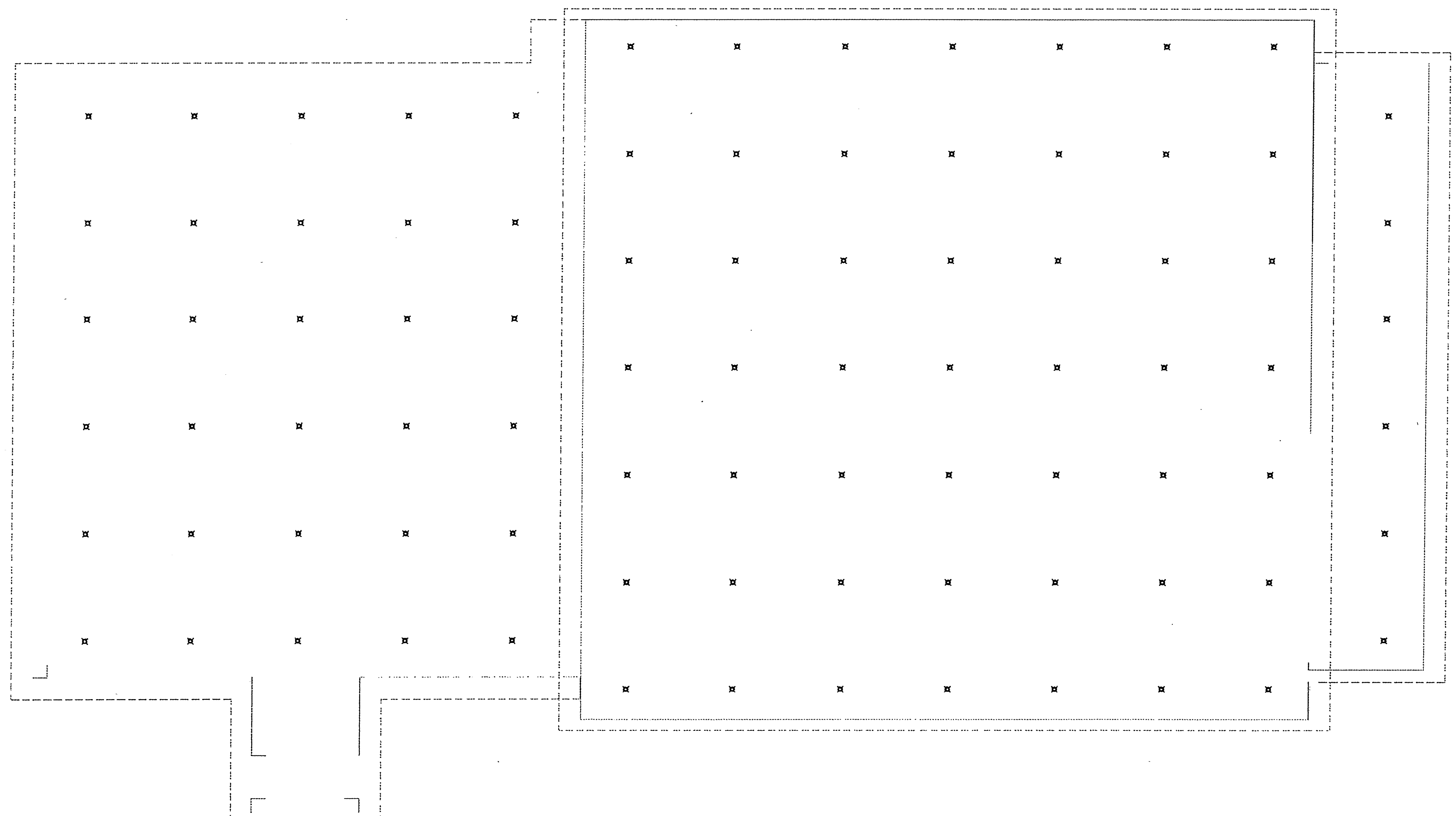
CODE REFERENCE:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2010 EDITION.

FLORIDA BUILDING CODE 2014 5TH EDITION.

FLORIDA FIRE PREVENTION CODE 2014 5TH EDITION.

SYM	NAME	METAL	TEMP	DESCRIPTION
¤	UPRIGHT	BRASS	286	STANDARD COVERAGE, QUICK RESPONSE



Attic Plan - Fire Protection
3/16" = 1'-0"

THE LUNZ GROUP
Architecture | Interior Design
58 Lake Morton Drive
Lakeland, Fl 33801-5344
p 863.682.1882
f 863.687.6346
lic. AAC001660
lunz.com

60% PRICING SET
NOT FOR CONSTRUCTION
MES GROUP, INC.

Charles J. Flask, PE
76470

MES GROUP

Apopka Fire Station No. 5
1685 Firehouse Way
Apopka, FL 32712

Attic Plan - Fire Protection

REVISION △ . . . .

ISSUED FOR CONSTRUCTION: --
ISSUED FOR PERMIT: --
ISSUED FOR BID: --
ISSUED FOR 60% APPROVAL: 02.02.17

DRAWN BY: DGM
REVIEW BY: CJF

1659.01

F-102

Backup material for agenda item:

1. Resolution 2017-07 - Adoption of a Wastewater Utility Asset Management Plan Jay Davoll

CITY OF APOPKA
CITY COUNCIL

___ CONSENT AGENDA
___ PUBLIC HEARING
___ SPECIAL REPORTS
_X_ OTHER: Resolution 2017-07

MEETING OF: March 29, 2017
FROM: Public Services
EXHIBITS: Resolution, Plan

SUBJECT: ADOPTING THE PHASE I WASTEWATER UTILITY ASSET MANAGEMENT PLAN RELATING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STATE REVOLVING FUND LOAN PROGRAM (SRF)

REQUEST: APPROVE RESOLUTION 2017-07

SUMMARY:

The Phase I Wastewater Utility Asset Management Plan was developed to provide new administrative systems and management tools to allow the wastewater plant to adapt to the increased requirements and environmental complexities they face. The Plan includes an inventory of wastewater assets, assessed and prioritized to allocate limited rehabilitation and replacement (R&R) funds. These new tools will allow the plant to operate on a business model for long-term sustainability to help address the issues of new and stricter regulatory requirements, growing populations, increased service demands, aging infrastructure, and limited funding.

Chapter 62-503.300(5)(b)(1), of the Florida Administrative Code, provides financing rate incentives for the State Revolving Fund Load Program (SRF). Upon implementation of the FDEP accepted Asset Management Plan, the financing rate for the Wastewater Plant Expansion and Improvement Project shall receive a deduction of 0.1%.

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

Approve Resolution 2017-07.

DISTRIBUTION

Mayor Kilsheimer
Commissioners
City Administrator
Community Development Director
Finance Director
HR Director
IT Director
Police Chief
Public Services Director
Recreation Director
City Clerk
Fire Chief

City of Apopka

Phase I Wastewater Utility Asset Management Plan

for

Florida Department of Environmental Protection
State Revolving Fund

October 2015

VOLUME 1

REISS ENGINEERING
PLANNING · DESIGN · CONSTRUCTION

FDEP Checklist for Asset Management Approval

Loan recipients are encouraged to implement an asset management plan to promote long term sustainability of the system. To determine eligibility for the financing rate reduction and to be eligible for reimbursement, all of the following questions must be answered affirmatively:

1. Is an asset management plan adopted by ordinance or resolution, and are written procedures in place to implement the plan?

   Yes ☒ No ☐

   If not, are there written policies and procedures that implement the plan within the day to day operations?

   Yes ☐ No ☐

   Comments: **See Resolution included in Appendix G of this Asset Management Plan.**

2. Has the plan been implemented?

   Yes ☒ No ☐ If no, provide an explanation or a schedule for implementation.

   Comments: **The City of Apopka has been implementing utility asset management principles for many years. This Plan merely expands upon, refines and formalizes the City's wastewater asset management planning process that will continue to evolve over time.**

3. Does the plan include each of the following:

   (a) Identification of all assets within the project sponsor's system;

   Yes ☒ No ☐

   Comments: **The City of Apopka Phase I Wastewater Asset Management Plan includes major wastewater system assets within the City's service area including WRF assets, force main and lift station assets and reclaimed water system assets. The City intends to expand the asset inventory to include gravity sewer system assets in Phase II of the Asset Management Plan since individual gravity sewers have a lower consequence of failure and are less vital to overall system performance on a day-to-day basis than are pressurized conveyance systems and WRF equipment and treatment structures. The City will continue its current program of CCTV inspections and lining of gravity sewers, where appropriate, based upon service history and staff experience.**

   (b) An evaluation of the current age, condition, and anticipated useful life of each asset;

   Yes ☒ No ☐

   Comments: **The evaluations of current age, condition and anticipated useful life of each wastewater asset in the inventory is provided as described in Section 2 of this Asset Management Plan and the full asset inventory, with these evaluations, is provided in Appendix B.**

(a) The current worth of the assets;

Yes ☒ No ☐

Comments: **The current worth of the City's wastewater infrastructure is valued at $68,190,630 as reported in Table 6-1 of the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. The table is included in Appendix F.**

(b) The cost to maintain all assets;

Yes ☒ No ☐

Comments: **The average annual cost of maintaining the City's wastewater infrastructure for the proposed ten (10) years through Fiscal Year 2025 is estimated at $350,000 per year as reported in Table 6-6 of the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG (table included in Appendix F) and as summarized in the Budgeting Worksheet included in Table 5-1 of this Asset Management Plan.**

(c) A capital improvement plan based on a survey of industry standards, life expectancy, life cycle analysis, and remaining useful life;

Yes ☒ No ☐

Comments: **The capital improvement plan for the City's wastewater infrastructure is provided in Table 6-6 of the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. The Table is included in Appendix F.**

(d) An analysis of funding needs;

Yes ☒ No ☐

Comments: **An analysis of funding needs for the City's wastewater and reclaimed water system is provided in the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. The Budget Worksheet derived from the Rate Study funding analysis is summarized in Table 5-1 of this Asset Management Plan.**

(e) An analysis of population growth and drinking water flow demand projections, as applicable, for the sponsor's planning area, and a model, if applicable, for impact fees; commercial, industrial and residential rate structures; and industrial pretreatment fees and parameters;

Yes ☒ No ☐

Comments: **An analysis of population growth, rates and impact fees for the City's utility service area is provided in the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. Tables 3-3 and 5-1 of the Rate Study summarize the projected adequacy of the proposed rates and impact fees to meet the annual expenditure requirements of the system over the next five years as shown in Appendix F.**

(f) The establishment of an adequate funding rate structure;

Yes ☒ No ☐

Comments: **An analysis of an adequate funding rate structure for the City's wastewater and reclaimed water system is provided in the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG concurrently with this Asset Management Plan. Rate Study figures depicting five-year projected sufficiency of wastewater, reclaimed water and potable water system revenues at existing and proposed rates for the wastewater, reclaimed water and potable water systems are included in Tables 3-3 and 5-1 as shown in Appendix F.**

(g) A threshold rate set to assure the proper operation of the utility, if the sponsor transfers any of the utility proceeds to other funds, the rates must be set higher than the threshold rate to facilitate the transfer and proper operation of the utility; and

Yes ☒ No ☐

Comments: **As illustrated in the revenue sufficiency tables included in Appendix F, the threshold rates that assure the proper operation of the City's wastewater and reclaimed water systems were computed including budgeted transfers to other funds in the City of Apopka 2015 Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. These rates have been officially adopted by the City Commission as documented in the Resolution included in Appendix G of this Asset Management Plan.**

(h) A plan to preserve the assets, renewal, replacement, and repair, as necessary, including a risk-benefit analysis to determine the optimum renewal or replacement time.

Yes ☒ No ☐

Comments**: This Asset Management Plan has been prepared and adopted by the City of Apopka to preserve its wastewater and reclaimed water infrastructure by making appropriate investments in renewal, replacement and repair of its assets. The Plan includes a risk-benefit analysis following the Guidance recommended by FDEP below as documented in the Prioritization Process and Worksheet presented in Section 3.**

For information regarding Asset Management Plans as well as tools for small communities which assist in the preparation of such plans, please visit http://water.epa.gov/infrastructure/sustain/asset_management.cfm.

REISS ENGINEERING
PLANNING • DESIGN • CONSTRUCTION

October 30, 2015

Mr. R. Jay Davoll, P.E.
Public Services Director
City of Apopka
748 E Cleveland Street
Apopka, FL 32703

RE: Phase I Wastewater Utility Asset Management Plan
for State Revolving Loan Fund Assistance

Dear Mr. Davoll:

Reiss Engineering, Inc. (Reiss) is please to provide five copies of the City of Apopka Phase I Wastewater Utility Asset Management Plan. This Asset Management Plan has been performed under the Comprehensive Utility Rate Study and Bond Issue Engineering and Financial Services Assistance task authorization to assist the City with debt financing through the State Revolving Fund (SRF) process for the Water Reclamation Facility Expansion and Upgrade project.

The Reiss Team would like to acknowledge the assistance of the following City of Apopka staff in development of this report: Jay Davoll, Kevin Burgess, Steve Williams, Brian Bishop, Jorge Garcia and Michael Suver. Completion of this Asset Management Plan would not have been possible without their efforts, guidance and direction related to data collection, standard operation procedures, knowledge of wastewater assets and condition of wastewater assets.

We greatly appreciate this opportunity to serve the City of Apopka on this important assignment. We look forward to assisting you with completion of the City's SRF Loan application. If you should have any questions or require additional information, please contact me at 407-679-5358 or maburgess@reisseng.com.

Sincerely,

REISS ENGINEERING, INC.

Mark A. Burgess, PE, BCEE
Client Services Manager

cc: Curtis Kunihiro

Reiss Engineering, Inc.
1016 Spring Villas Pt.
Winter Springs, FL 32708

Tel: 407.679.5358
Fax: 407.679.5003
www.reisseng.com

WASTEWATER ASSET MANAGEMENT PLAN
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ASSET MANAGEMENT PLAN
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(continued)

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LIST OF FIGURES

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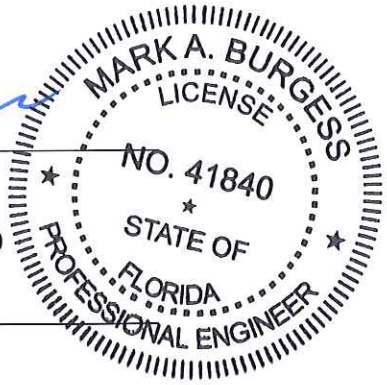
CERTIFICATIONS OF THE PREPARER
FOR THE
WASTEWATER UTILITY ASSET MANAGEMENT PLAN
FOR THE
CITY OF APOPKA

Preparer:	Reiss Engineering, Inc. 1016 Spring Villas Pt. Winter Springs, FL 32708
On behalf of:	City of Apopka 748 E. Cleveland St. Apopka, FL 32703
Contact Person:	R. Jay Davoll, P.E. Public Services Director

The information contained in this report is true and correct to the best of our knowledge. The report was prepared in accordance with sound engineering and utility management principles. In accordance with the recommendations and schedules contained herein, renewal, replacement and preventive maintenance work has been expanded, refined and continues to be implemented for the wastewater collection, treatment and reclaimed water distribution systems for the City of Apopka.



Mark A. Burgess, P.E., BCEE
Reiss Engineering, Inc.
Florida Registration No. 41840

10/30/15
Date

R. Jay Davoll, P.E.
City of Apopka
Public Services Director
Florida Registration No. 40092

10/30/15
Date

EXECUTIVE SUMMARY

This Wastewater Utility Asset Management Plan has been prepared to satisfy the Fiscal Sustainability requirements of the Florida Department of Environmental Protection's (FDEP) Clean Water State Revolving Fund (CWSRF) Loan Program as specified in Section 62-503.700 Florida Administrative Code (F.A.C.). More specifically, the City of Apopka is interested in securing the lowest possible financing rate on its SRF loan for expansion and upgrades to its Water Reclamation Facility (WRF) – Project ARROW, currently operating under Wastewater Permit No. FLA010818 and Consent Order OGC No. 15-0033. The City has submitted, and FDEP has accepted, a Request for Inclusion seeking approximately $55.2 million in CWSRF Loan funding to upgrade and expand wastewater treatment and reuse of reclaimed water within its service area. The Asset Management Plan is being submitted to FDEP in concert with the City's SRF Loan application and Wastewater Facilities Plan Update.

This Plan is organized to address the FDEP SRF Program Checklist for Asset Management Plan Approval following the USEPA Simple Tools for Effective Performance (STEP) Guide cited therein (http://water.epa.gov/infrastructure/sustain/asset_management.cfm). The Guide provides directions and worksheet templates to complete the following five asset management steps:

1. Take an **inventory** of assets and assess their condition.
2. **Prioritize** assets to allocate limited rehabilitation and replacement (R&R) funds where they will do the most good.
3. **Develop** the Asset Management Plan estimating costs of R&R projects over five-years.
4. **Implement** the Asset Management Plan engaging all stakeholders, as necessary and appropriate.
5. **Review and Revise** the Asset Management Plan at least annually, updating the information based on new data and shifting priorities.

The Asset Management Plan is intended to be a flexible and "living" document that evolves over time through regular updates. It should be a tool that is used each year during the City's budget development process.

SECTION 1
INTRODUCTION

1.1 OBJECTIVE

This Wastewater Utility Asset Management Plan has been prepared to satisfy the Fiscal Sustainability requirements of the Florida Department of Environmental Protection's (FDEP) Clean Water State Revolving Fund (CWSRF) Loan Program as specified in Section 62-503.700 Florida Administrative Code (F.A.C.). More specifically, the City of Apopka is interested in securing the lowest possible financing rate on its SRF loan for expansion and upgrades to its Water Reclamation Facility (WRF) – Project ARROW, currently operating under Wastewater Permit No. FLA010818 and Consent Order OGC No. 15-0033. The City has submitted, and FDEP has accepted, a Request for Inclusion seeking approximately $55.2 million in CWSRF Loan funding for the timely planning, design and construction of the facilities necessary to upgrade and expand wastewater treatment and reuse of reclaimed water within its service area. The Asset Management Plan is being submitted to FDEP in concert with the City's SRF Loan application and a Wastewater Facilities Plan Update.

The federal Water Resources Reform and Development Act added several requirements for CWSRF Loan projects in Fiscal Year (FY) 2016 including:

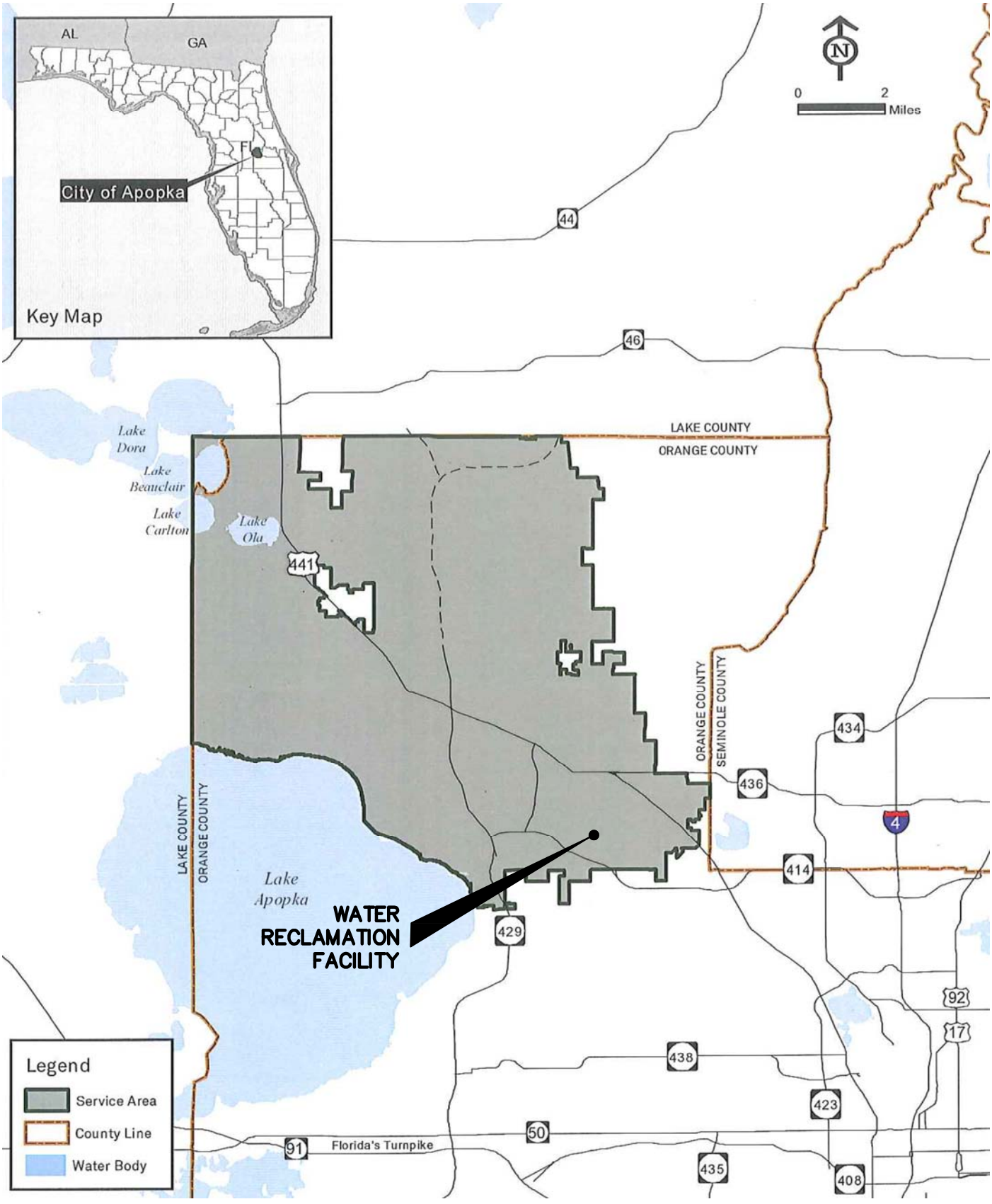
- Davis-Bacon Wage Rates
- American Iron and Steel
- Fiscal Sustainability
- Cost and Effectiveness
- A/E Procurement Requirements

These requirements were included in the FDEP CWSRF 2016 Intended Use Plan (IUP) adopted on August 12, 2015. The fiscal sustainability requirement was not included in previous years but will apply to all new construction loans in FY 2016 and allows for an additional 0.1 percent deduction on the loan financing rate for borrowers that document an implemented asset management plan.

1.2 UTILITY LOCATION AND BACKGROUND

The City of Apopka's wastewater system is comprised of collection, transmission, treatment and effluent reuse/disposal facilities that provide wastewater service to an estimated 17,022 customer accounts within the utility service area in FY 2015. The Apopka WRF is located at 333 Snowden Road, Apopka, Florida 32703 as shown on **Figure 1-1**. An aerial site plan of the WRF facilities is shown on **Figure 1-2**. The WRF primarily serves residential and commercial customers. Other customers include industrial, public use, and agricultural customers.

The City of Apopka wastewater utility began operations in 1972. The original WRF permitted capacity was 2.0 MGD Average Annual Daily Flow (AADF). The original facility provided secondary treatment and basic disinfection using a Walker Process Package Plant. The facility was expanded in 1989 to a permitted capacity of 4.0 MGD AADF. During the expansion, the facility upgraded its treatment process by providing filtration and high level disinfection. A 2.0 MGD advanced secondary treatment plant was constructed including a loop aeration system, two (2) 65-ft. diameter secondary clarifiers, a tertiary filter system and chlorine contact tanks.



SOURCE:
WASTEWATER MASTER PLAN UPDATE 2014, AECOM

DWG: R:\Projects\136001 - Apopka Comp Utility Rate Study\Design\Drawings\PreliminaryDesign\FIGURES.dwg

CITY OF APOPKA
WASTEWATER ASSET MANAGEMENT PLAN
LOCATION MAP

FIGURE 103

DWG: R:\Projects\136001 - Apopka Comp Utility Rate Study\Design\Drawings\PreliminaryDesign\FIGURES.dwg

CITY OF APOPKA
WASTEWATER ASSET MANAGEMENT PLAN
WATER RECLAMATION FACILITY SITE VI

FIGURE 1-2

Since the 1989 plant upgrade, the WRF has produced effluent suitable for public access reuse and the City began providing reclaimed water to customers such as Errol Estates Golf Course, Engelmann's Nurseries, the Rock Springs Ridge Golf Course and subdivision, the Zellwood Station Golf Course, and several residential subdivisions throughout the City. An additional filter system and chlorine contact tank was constructed at the WRF in 1999. In addition, two high service reclaimed water distribution pumps were installed boosting the public access reclaimed water production capacity from 2.0 MGD to 4.0 MGD. In 2004, the WRF was re-rated to a capacity of 4.5 MGD AADF, which is its current permitted capacity.

1.3 DESCRIPTION OF EXISTING FACILITIES

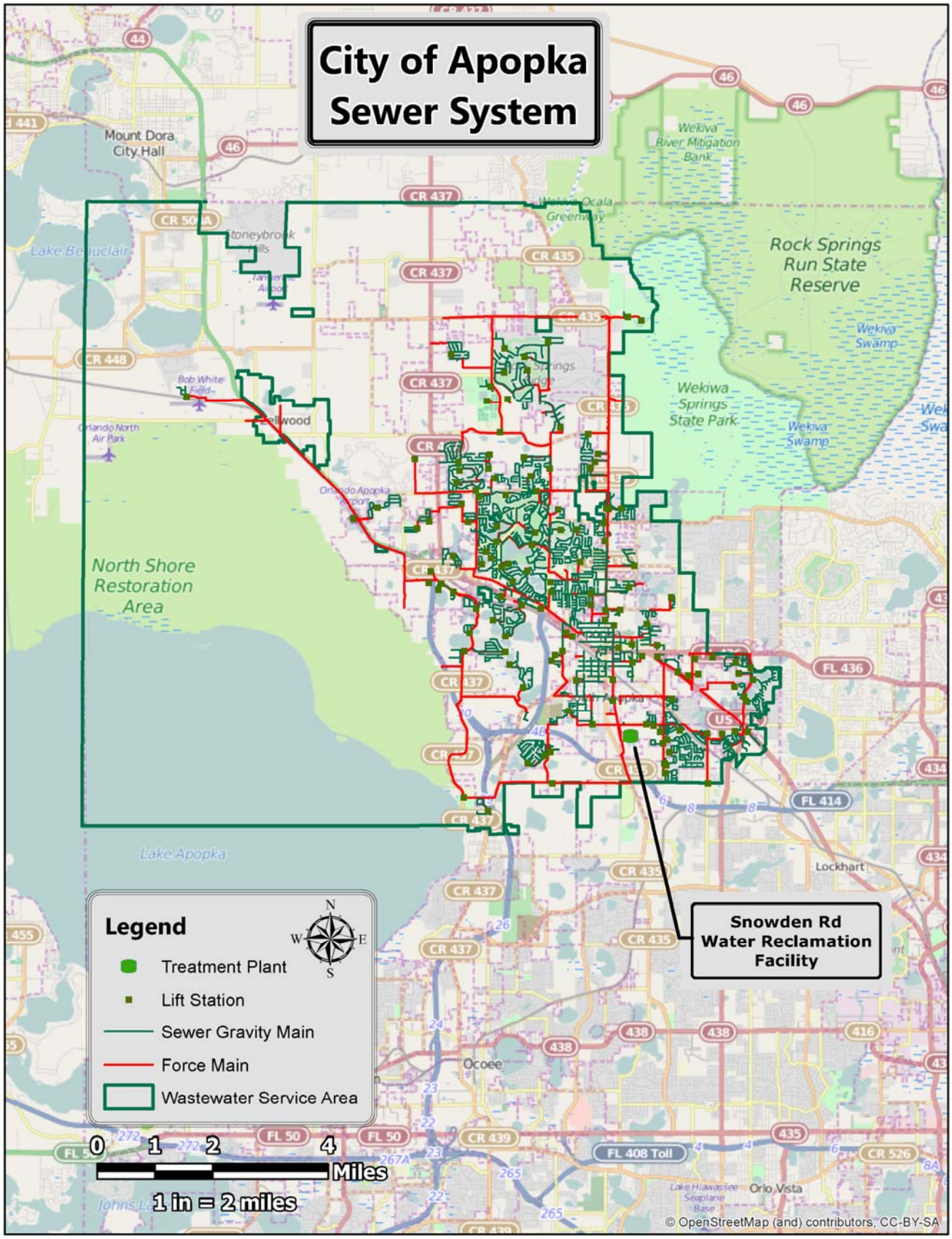
The Apopka WRF is a complete mix oxidation ditch secondary domestic wastewater treatment plant with a 0.470 MGD AADF permitted capacity slow-rate restricted public access reuse system which consists of a 51.6-acre spray field (R-001) and a 19.40 MGD AADF permitted capacity slow-rate public access reuse system with two (2) 2 million gallon (MG) reclaimed water storage tanks, two (2) 1 MG reclaimed water storage tanks. In total, the City currently has access to 129 million gallons (MG) of storage for its public access reuse system. The storage facilities include: a) 16 MG of lined pond storage at the WRF site; b) 6 MG of covered storage at the WRF site; c) 20 MG of lined pond storage at the Rock Springs Ridge Golf Course; d) 4 MG of covered storage at the North Reuse Pump Station; e) 83 MG of lined pond storage at the Northwest Recreation Center (R-002).

The City of Apopka currently utilizes the aerobic digestion process to stabilize the solids wasted from the treatment process. There are two (2) aerobic digesters. The digester for the Walker Process Package Plant has an available volume of 0.462 MG. The second digester has a diameter of 70 ft. and a 17 ft. side water depth, providing an available volume of 0.489 MG. The total available digester capacity is 0.95 MG. Aerobic digestion currently does not treat the sludge to Class B standards per Rule 62-640, F.A.C. Therefore, after aerobic digestion, the sludge is dewatered using a belt filter press and transported via truck to a permitted residuals management facility, Shelley's Environmental Services. The residuals are further treated by Shelley's Environmental Services using lime stabilization and disposed of by land application. The clear water above the sludge blanket is decanted and returned to the head of the plant for treatment.

The wastewater collection system consists of approximately 156 miles of gravity pipeline ranging in sizes from 3-inches to 24-inches in diameter, 116 lift stations, and 90 miles of force mains ranging from 1.5-inches to 30-inches in diameter as shown on **Figure 1-3**. The reclaimed water distribution system is depicted on **Figure 1-4** and consists of 129 miles of reclaimed water mains ranging in sizes from 2-inches to 48-inches in diameter.

1.4 EXISTING ASSET MANAGEMENT PRACTICES

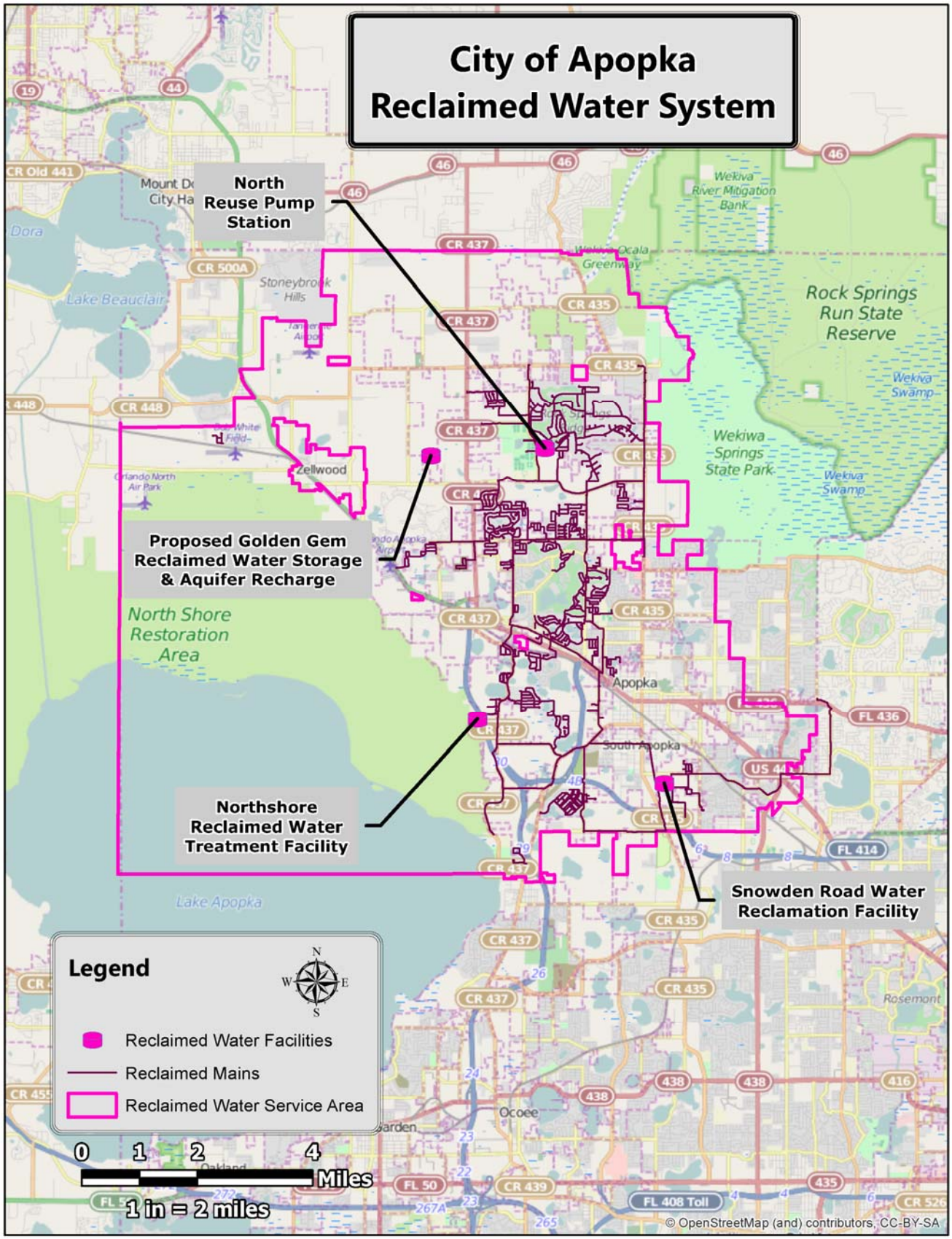
The City of Apopka has been implementing asset management of its wastewater utility since it began in 1972. This section describes current practices of the utility that will be refined, expanded and formally adopted as part of this written Wastewater Utility Asset Management Plan. As with any utility asset management plan, the first formal City of Apopka Wastewater Utility Asset Management Plan is intended to be a living document that is continuously updated as the assets of the utility are repaired, replaced or modified. At least annually, during the City's budgeting process, the asset inventory, condition assessment and prioritization process described in this plan should be



SOURCE:
CITY OF APOPKA GIS, 2015

DWG: R:\Projects\136001 – Apopka Comp Utility Rate Study\Design\Drawings\PreliminaryDesign\FIGURES.dwg

RE	CITY OF APOPKA WASTEWATER ASSET MANAGEMENT PLAN SEWER MAP	FIGURE 106



SOURCE:
CITY OF APOPKA GIS, 2015

DWG: R:\Projects\136001 – Apopka Comp Utility Rate Study\Design\Drawings\PreliminaryDesign\FIGURES.dwg

CITY OF APOPKA
WASTEWATER ASSET MANAGEMENT PLAN
RECLAIMED MAP

FIGURE 107

updated to establish annual funding for inspection and renewal and replacement of utility infrastructure to minimize the risks of costly failures that significantly disrupt service and may create hazards to the health and safety of the public and the environment.

1.4.1 Current Asset Management Practice at Apopka WRF

Chapter 62-600.735, F.A.C. requires that an Operation and Maintenance Performance Evaluation Report (OMPER) be prepared in support of an application for renewal of the FDEP Operating Permit. An OMPER for the Apopka WRF was last prepared in 2012 by the City of Apopka and indicates that the overall physical condition of the WRF is satisfactory. The concrete structures, including process tanks and basins, are in good condition. The overall good physical condition of the Apopka WRF is the direct result of the City's diligence and dedication to perform preventive maintenance in accordance with the recommended procedures in the O&M Manual and manufacturer's recommendations. A full copy of the 2012 OMPER is included in **Appendix A** as evidence of the City of Apopka's historical, current and ongoing implementation of responsible asset management of its wastewater utility.

The City uses a Computerized Maintenance Management System (CMMS) software package (Antero v. 6.13) provided by Allmax Software to keep track of WRF equipment inventory and to issue preventive maintenance work orders based on manufacturer recommendations and personal experience of City operations staff. The CMMS software relies upon a structured English query language (SQL) database that allows fields of data to be exported into Excel® worksheet format. To avoid duplication of efforts and provide consistency between the WRF CMMS and this Asset Management Plan (AMP), the City has elected to maintain all WRF plant data in the CMMS database and to add all lift station and other mechanical equipment throughout the system such as pumps, generators, programmable logic controllers (PLCs) and level sensing devices (float switches and pressure transducers) into the CMMS database for easy export and use in an Excel® worksheet-based AMP. The Excel® worksheet format is also amenable for use with the City's Rate Study and financial tables used for budgeting.

1.4.2 Current Asset Management Practice in Wastewater Collection and Reclaimed Water Distribution System

There have been no surcharges, overflows, bypasses, or poor treatment performance due to hydraulic overloading of the Apopka WRF during wet weather events. There does not appear to be excessive infiltration and inflow in the collection system. The wastewater collection system has been constructed using a variety of materials, including clay, high-density polyethylene (HDPE) and polyvinyl chloride (PVC) pipe. The collection system is not highly susceptible to infiltration and inflow for three main reasons: first, recent expansions of the collection system have been constructed with PVC gravity and pressure sewer pipe; second, much of the City is located on top of a sandy ridge which has very permeable soils and low groundwater tables throughout the year and third, the City has been efficiently utilizing its resources during the recent recession to inspect and line sewers (using cast-in-place pipe techniques) more aggressively in areas where age and service history justify the rehabilitation. The City owns Closed Circuit Television (CCTV) equipment to aid in the inspection of gravity sewer lines and has an on-going program of collection system evaluation and repair.

The City uses its ArcGIS® Geographic Information System (GIS) database to maintain its inventory for horizontal (pipelines, lift stations, valves, manholes, storage facilities, etc.) wastewater infrastructure locations, materials and dimensional data (age, diameters, invert

elevations, length, width, volume, materials of construction, etc) outside the WRF site. In addition, the City's hydraulic model of the wastewater force main and lift station network utilizes InfoWater® which has a built-in GIS interface for importing and exporting pipeline data. The hydraulic model and GIS software also support exporting their fields of data to Excel® worksheet format.

SECTION 2
WASTEWATER ASSET INVENTORY AND CONDITION ASSESSMENT DATABASE

The remainder of this report is organized to address the FDEP SRF Program Checklist for Asset Management Plan Approval following the USEPA Simple Tools for Effective Performance (STEP) Guide cited therein (http://water.epa.gov/infrastructure/sustain/asset_management.cfm). The Guide provides information and worksheet templates to complete the following five asset management steps:

1. Take an **inventory** of assets and assess their condition
2. **Prioritize** assets to allocate limited rehabilitation and replacement (R&R) funds where they will do the most good.
3. **Develop** the Asset Management Plan estimating costs of R&R projects over five-years.
4. **Implement** the Asset Management Plan engaging all stakeholders, as necessary and appropriate.
5. **Review and Revise** the Asset Management Plan at least annually, updating the information based on new data and shifting priorities.

The Asset Management Plan is intended to be a flexible and "living" document that evolves over time through regular updates. It should be a tool that is used each year during the City's budget development process.

The wastewater system inventory worksheets were developed by exporting GIS and CMMS data into an Excel® spreadsheet following the eight step process outlined in the Guide. Condition of each asset is initially based upon the experience, knowledge, and judgement of City staff who operate and maintain the assets on a daily basis. Useful life of new assets are based on City staff experience or manufacturer's recommendations with preference given to staff experience, when offered. Adjusted useful life and remaining useful life of each asset were estimated in general conformance with the guidance document process. City operations and maintenance staff were asked to assign condition scores to each asset in the inventory based upon a five-point scale as follows:

1. Asset is in good condition and only requires routine maintenance
2. Asset is in fair to good condition and requires minor maintenance to restore to good
3. Asset is in fair condition but requires significant maintenance to restore to good
4. Asset is poor to fair condition and requires major repair or upgrade to restore to good
5. Asset is in poor condition and requires replacement

Considering the expected useful life of an asset, its service history and current condition, an estimate of adjusted useful was made for each item in the asset inventory. In the final step, each asset's age is subtracted from its adjusted useful life with zero or negative numbers indicating assets that have exceeded their useful life.

Even with the City's GIS and CMMS databases in place, creation of the Apopka wastewater utility system asset inventory required an intensive effort by City and Reiss Engineering staff. As expected in the initial phase of an asset management planning process, the asset inventory includes data gaps that will get filled over time as the plan evolves. This Apopka Phase I Wastewater Asset Management Plan inventory includes all major WRF assets, collection system force main assets

and reclaimed water system assets. The City has elected to defer the addition of the gravity sewer inventory of assets to the Phase II update since plant equipment, storage facilities and pressurized pipe assets are more critical for the day-to-day operations of the utility and have significantly greater potential consequences of failure. Assets planned for replacement with the upcoming WRF expansion and upgrade project, such as the interior components of the Walker Process Plant #1 that will be converted to an equalization basin, have been excluded from the asset inventory and prioritization process. **Table 2-1** is an example page of the Apopka Wastewater Utility System Inventory Worksheet. The entire Phase I Wastewater Utility System Inventory Worksheet is provided in **Appendix B**.

Table 2-1

City of Apopka
Wastewater Asset Management Plan

Example Page of Apopka Phase I Wastewater Utility System Inventory Worksheet

Asset	Asset Description	Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Identifier								
BFpb-6	Belt Press Polymer Blend Pump Unit	10	Poor, Needs Replacement/ Refurbishing	5	Standard Maintenance	10	14	0
BLef-1	Blower Room Exhaust Fan #1, Southeast	20	Fair	4	Standard Maintenance	20	26	0
BLef-2	Blower Room Exhaust Fan #2, Southwest	20	Fair	4	Standard Maintenance	20	26	0
BLef-3	Blower Room Exhaust Fan #3, Northwest	20	Fair	4	Standard Maintenance	20	26	0
BLef-4	Blower Room Exhaust Fan #4, Northeast	20	Fair	4	Standard Maintenance	20	26	0
BLGENspf-1	Generator Room Supply Fan	20	Fair	4	Standard Maintenance	20	26	0
COef-1	Exhaust Fan #1	20	Fair	4	Standard Maintenance	20	26	2

SECTION 3
PRIORITIZATION PROCESS AND WORKSHEET

With the wastewater utility system inventory and condition assessment complete, the next step in the Guide's asset management planning process involved prioritization of the assets based upon their remaining useful life, importance to delivery of safe and reliable service and redundancy. Assets that are critical to the utility's performance, that have no back-up and are near, or beyond, the end of their useful life were given the highest priority for use of the City's available renewal and replacement funds.

Prior to completing the asset prioritization process, Reiss Engineering completed visual inspections of 30 of the worst system assets based upon the initial staff assessments of remaining useful life. The purpose of these visual inspections was to validate the current condition assessments made by City staff. No destructive or non-destructive physical testing of assets were performed as part of these visual inspections. Photos were taken of each of the assets inspected as part of the condition assessment validation. Copies of the photos of assets that will not be addressed as part of the proposed WRF expansion and upgrades project are provided in **Appendix C**.

A five point scale was used to prioritize assets for renewal or replacement as follows:

1. Highest priority assigned to assets that are critical to daily safe and reliable performance without full redundancy and short remaining useful life (typically less than three years).
2. Assets critical to daily safe and reliable service with a fully redundant system and a short remaining useful life (typically less than three years).
3. Assets critical to daily safe and reliable service with a fully redundant system and remaining useful life of between three and five years.
4. Assets critical to daily safe and reliable service with a fully redundant system and remaining useful life of at least five years OR assets that are not critical but aid in efficient operation of critical assets with no redundancy and a remaining useful of less than five years.
5. All other assets not meeting one of the criteria above.

Table 3-1 is the first page of the City of Apopka Asset Prioritization Worksheet. The full Asset Prioritization Worksheet is included in **Appendix D.**

Table 3-1

City of Apopka
Wastewater Asset Management Plan

Example Page of Apopka Phase I Wastewater Utility System Prioritization Worksheet

Asset		Asset Description	Remaining Useful Life	Importance (1 = Mandatory, 5 = Needed for service with redundancy)	Redundancy	Priority (1 is high)
Number	**Identifier**					
1	BFpb-6	Belt Press Polymer Blend Pump Unit	0	1	No	1
2	BLef-1	Blower Room Exhaust Fan #1, Southeast	0	1	No	1
3	BLef-2	Blower Room Exhaust Fan #2, Southwest	0	1	No	1
4	BLef-3	Blower Room Exhaust Fan #3, Northwest	0	1	No	1
5	BLef-4	Blower Room Exhaust Fan #4, Northeast	0	1	No	1
6	BLGENspf-1	Generator Room Supply Fan	0	1	No	1
7	COef-1	Exhaust Fan #1	2	1	No	1
15	PBU	Polymer Blending Unit	2	1	No	1
16	REdisth-18-arv-1	Reuse 18" Dist. Header ARV #1	2	1	No	1

SECTION 4
ASSET MANAGEMENT PLAN

With the wastewater system assets inventoried and prioritized based upon condition, remaining useful life, importance and redundancy; the next step in the Guide asset management process involved development of the Required Reserves Worksheet. Only assets with required renewal and replacement (R&R) activity over the next five years were included in the Required Reserves Worksheet. Routine operation and maintenance costs such as power, chemicals and fluid changes were not included in the renewal and replacement cost estimation process.

The steps involved in development of the Required Reserves Worksheet were as follows:

1. Sorted assets on Prioritization Worksheet in order with highest priority (lowest score) first.
2. For each asset, identified R&R activities needed over the next five years.
3. Distributed R&R activities over five year period based on condition, remaining useful life, importance and other factors.
4. Estimated costs for each R&R activity in current dollars and placed in the appropriate year.
5. Estimated the total reserves required for the current year.

After the initial asset R&R requirements were estimated and distributed over a five-year period, the wastewater utility management team evaluated the R&R activities and estimated costs to coordinate activities with other planned City projects (road improvements, new developments, etc.) and within projected resource limitations. **Table 4-1** presents the Required Reserves Worksheet for the current year after completion of the process described above. The total reserves required in the current year were estimated at approximately **$350,000**. The estimated Required Reserves Worksheet for the upcoming five-year period is provided in **Appendix E**.

This Asset Management Plan process has helped the City to recognize the need to increase its level of funding for replacement and rehabilitation of its existing wastewater utility infrastructure. The proposed WRF expansion and upgrade project will address most of these needs within the plant site. Fortunately, all of the City's wastewater infrastructure is less than 45 years old and the City is in good financial health to address emergency repairs and replacements as they occur from time to time. In addition, the City's operations and maintenance staff have proven to be very skillful at maintenance and repair of many assets to prolong their useful life beyond typical expectations. The City will also assess its spare parts inventory with the knowledge gained from this asset management planning process and may purchase and stock additional replacement equipment, especially where multiple units of the same asset type and size remain in operation beyond their useful life such as lift station submersible pumps of the same horsepower.

To mitigate the short-term impact upon rates of combining the added debt service for the proposed WRF expansion and upgrades with a sharp increase in funding for R&R, the City of Apopka is proposing to ramp up increases to its wastewater rates at three percent per year over the next five years. Phased implementation of these higher rates will allow the asset management planning process to be refined and evolve as projections for development and economic recovery from the recent national recession become less speculative.

Table 4-1

City of Apopka
Wastewater Asset Management Plan

Example Page of Apopka Phase I Wastewater Utility System Required Reserve

Asset (List from highest to lowest priority)	Asset Description	Condition	Activity	Years until action needed	Cost ($)	Reserve required current year
Identifier						
BFpb-6	Belt Press Polymer Blend Pump Unit	Poor	Replacement	0	$ 7,990	$ 7,990
BLef-1	Blower Room Exhaust Fan #1, Southeast	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-2	Blower Room Exhaust Fan #2, Southwest	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-3	Blower Room Exhaust Fan #3, Northwest	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-4	Blower Room Exhaust Fan #4, Northeast	Fair	Replacement	0	$ 2,500	$ 2,500
BLGENspf-1	Generator Room Supply Fan	Fair	Replacement	0	$ 2,500	$ 2,500
COef-1	Exhaust Fan #1	Fair	Replacement	2	$ 150	$ 150
PBU	Polymer Blending Unit	Fair	Replacement	2	$ 10,348	$ 10,348
REdisth-18-arv-1	Reuse 18" Dist. Header ARV #1	Fair	Replacement	2	$ 400	$ 400
REdisth-18-arv-2	Reuse 18" Dist. Header ARV #2	Fair	Replacement	2	$ 400	$ 400
COefcp-1	Exhaust Fan #1 Control Panel	Fair	Replacement	5	$ 200	$ 200
ECCwsp-1	East Contact Chamber Sample Pump, West	Fair	Replacement	0	$ 247	$ 247

Asset (List from highest to lowest priority)	Asset Description	Condition	Activity	Years until action needed	Cost ($)	Reserve required current year
TRplos-1	Transfer Pump #1 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
TRplos-2	Transfer Pump #2 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
TRplos-3	Transfer Pump #3 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
LS016*	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 14,164	$ 14,164
LS038*	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 28,646	$ 28,646
LS009*	Lift Station Structure (Coating)	Poor	Rehabilitation	3	$ 43,764	$ 43,764
LS028*	6" Ductile (FM Replacement)	Poor	Replacement	14	$ 5,051	$ 5,051
LS037*	4" Ductile (FM Replacement)	Poor	Replacement	22	$ 4,880	$ 4,880
LS015*	4" Ductile (FM Replacement)	Poor	Replacement	29	$ 4,880	$ 4,880
LS010*	47/47 HP Control Panel	Poor	Replacement	0	$ 25,000	$ 25,000
LS017*	50/25 HP GEN-SET Engine (250 KW)	Poor	Replacement	0	$ 25,000	$ 25,000
LS021*	20/20 HP Control Panel	Poor	Replacement	0	$ 25,000	$ 25,000
LS029*	88/88 HP Control Panel	Poor	Replacement	0	$ 40,000	$ 40,000
LS029*	88/88 HP GEN-SET Engine (125 KW)	Poor	Replacement	0	$ 60,000	$ 60,000
LS030*	10/10 HP Control Panel	Poor	Replacement	0	$ 15,000	$ 15,000
LS005Asp-1*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS005Asp-2*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
				Total reserve in the current year		**$ 342,960**

* Staff recommendation for priority treatment

SECTION 5
ASSET MANAGEMENT PLAN IMPLEMENTATION

This asset management plan was developed concurrent with the City of Apopka Comprehensive Water, Wastewater and Reclaimed Water Rate Study prepared by PRMG. The Required Reserves Worksheet developed as described in Section 4 has been incorporated into the final rate study and **Table 5-1** provides the Wastewater and Reclaimed Water System Budgeting Worksheet for the new rates which will become effective in January 2016.

Resolutions approved by the City Commission adopting the Apopka Phase I Wastewater Utility Asset Management Plan and the Apopka 2015 Comprehensive Water, Wastewater and Reclaimed Water Rate Study are included in **Appendix G**.

Table 5-1

City of Apopka
Wastewater Asset Management Plan

Budgeting Worksheet

Budgeting Worksheet - Projected Wastewater and Reclaimed Water Net Revenues Available for Capital for Fiscal Year 2016 [1]					
Date Worksheet Completed / Updated:					
Revenues		Expenditures		Net Revenue Available for Capital	
Service Fees at Existing Rates	$8,787,745	Maintenance	$689,356	Total Revenues	$10,400,311
Service Fees from Proposed Rate Increases [2]	197,724	Utilities & Communication Services	918,827	Total Expenditures	$10,176,733
Total Service Fees	$8,985,469	Salaries & Benefits	3,401,045		
		Chemicals & Operating Supplies	570,307	Net Revenue Available for Capital	$223,578
Other Fees & Service Charges	$591,505	Professional Services	64,447		
		Training Costs	10,009	Adopted Capital Expenditures Funded from Rates	
Expansion-related Impact Fees [3]	$801,534	Billing Costs	162,282	Wastewater System	$543,977
		Other Expenses	434,975	Reclaimed Water System	206,000
Interest Income	$21,803	Sub-total Operating Expenses	$6,251,247		
				Total Planned Capital Expenditures	$749,977
Other	$0	Debt Service Payments	$896,894		
				Deposit to (Use of) Reserves [4]	($526,399)
		Transfers to General Fund	$3,028,592		
				Additional Reserves Needed	
				Total Required Reserves	$350,000
				Amount Adopted (Current Year)	$749,977
Total Revenues	$10,400,311	Total Expenditures	$10,176,733	Additional Reserves Needed	$0

Notes:
1. Amounts derived from the Rate Study prepared by Public Resources Management Group, Inc.
2. Amount based on implementing a 3% wastewater and 3% reclaimed water rate increase effective with bills rendered on or after January 1, 2016.
3. Amount available to pay expansion-related debt service payments based on the Bond Resolution
4. Use of reserves is planned in the current year. City has adequate cash reserves in excess of one (1) year's Gross Revenues, and plans to use a portion of the existing reserves to phase-in required rate increases through Fiscal Year 2020.

SECTION 6
ASSET MANAGEMENT PLAN REVIEW AND REVISION

This Phase I Wastewater Utility Asset Management Plan is the first formal asset management plan prepared by the City of Apopka. As expected, there are data missing from the asset inventory that could not be located within the timeframe for completion of the Phase I Plan. In addition, the City elected to defer completion of the inventory of assets for the gravity sewer system to the next phase of the Plan's evolution. The steps below describe, in general, the actions the City will take on at least an annual basis to keep it Wastewater Utility Asset Management Plan up to date for use in its annual budgeting of rehabilitation and replacement expenses.

Step 1 – Continually work to fill in pertinent missing data used in the asset inventory and prioritization worksheets for existing assets not already scheduled for rehabilitation or replacement. The inventory updates should be performed in the root CMMS and GIS databases as described in this Asset Management Plan. This includes addition of gravity sewer assets to the GIS inventory.

Step 2 – Update information in the root CMMS and GIS databases to reflect all rehabilitation and replacement work performed throughout the year.

Step 3 – Prior to start of the annual budgeting process, export CMMS and GIS updated asset inventory databases into the Master Asset Inventory Excel® Workbook following the same process created for this Asset Management Plan.

Step 4 – Use the System Inventory Worksheet to make adjustments to asset condition, service history, adjusted useful life and remaining useful life based upon activities and events that occurred throughout the year and staff experience/knowledge. Reflect current date on the revised System Inventory Worksheet.

Step 5 - Use the Prioritization Worksheet to make adjustments to importance, redundancy and priority score based upon activities, events and shifting priorities that occurred throughout the year. Reflect current date on the revised Prioritization Worksheet.

Step 6 – Use the Required Reserves Worksheet to make adjustments to the activities, timing and cost estimates for five-year and current-year estimates of required reserves based upon updates completed in Steps 4 and 5. Reflect current date on the Required Reserves Worksheet.

Step 7 - Add the required reserves for wastewater R&R to the City's budget using the City's standard budget worksheet process.

City of Apopka

Phase I Wastewater Utility Asset Management Plan

for

Florida Department of Environmental Protection
State Revolving Fund

October 2015

VOLUME 2

REISS ENGINEERING
PLANNING · DESIGN · CONSTRUCTION

APPENDIX A

2012 OPERATION AND MAINTENANCE PERFORMANCE EVALUATION REPORT

(Volume II Appendices on CD in pocket on inside back cover)

OPERATION AND MAINTENANCE PERFORMANCE EVALUATION REPORT

CITY OF APOPKA
APOPKA WATER RECLAMATION FACILITY/PROJECT ARROW

Facility Name:	Apopka Water Reclamation Facility 333 Snowden Road Apopka, FL 32703 (P): (407) 703-1731 (F): (407) 703-1748
County:	Orange
GMS Identification No.:	3048 MO 1915
FDEP Operation Permit No.: **Expiration Date:**	FLA010818 August 12, 2012
Date of Field Evaluation:	December 21, 2011
Date of Report:	January 5, 2012

OPERATION AND MAINTENANCE
PERFORMANCE EVALUATION REPORT
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OPERATION AND MAINTENANCE PERFORMANCE EVALUATION REPORT TABLE OF CONTENTS (continued)

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LIST OF FIGURES

OPERATION AND MAINTENANCE
PERFORMANCE EVALUATION REPORT
APOPKA WATER RECLAMATION FACILITY

CERTIFICATIONS

OWNER:

City of Apopka Public Services
333 Snowden Road
Apopka, FL 32703
(P): (407) 703-1731
(F): (407) 703-1748

I have reviewed and am fully aware of the recommendations and schedules set forth in this report.

1-27-12

John Jreij, P.E.
Public Services Director

1-27-12

Date

FACILITY SUPERINTENDENT:

I have reviewed and am fully aware of the recommendations and schedules set forth in this report.

Kevin M. Burgess
Water Resources Operations Manager
Certification No. A7762
(P): (407) 703-1731
(F): (407) 703-1748

1/19/2012

Date

CERTIFICATION

ENGINEER OF RECORD:

The information contained in this Operation and Maintenance Performance Evaluation Report is true and correct to the best of my knowledge, the report was prepared in accordance with sound engineering principles, and I have discussed the recommendations and schedules with the permitted/permittee's delegated representative and the lead operator. If the recommended schedules for corrective action are met, the facilities, when properly operated and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department of Environmental Protection.

1-27-12

John Jreij, P.E.
Public Services Director
Registration No. 51007
City of Apopka
748 E. Cleveland St.
Apopka, FL 32703
(P): (407) 703-1731
(F): (407) 703-1748

1-27-12

Date

EXECUTIVE SUMMARY

This Operation and Maintenance Performance Evaluation Report was prepared by the City of Apopka for the Apopka Water Reclamation Facility (WRF) in compliance with the Florida Department of Environmental Protection (FDEP) regulations in Chapter 62-600.735, F.A.C. Mr. Jerry Bowser, Chief Operator, provided assistance during the field evaluation and in preparation of this report.

The Operation and Maintenance Performance Evaluation Report was prepared and submitted to FDEP in support of the application for renewal of the Operating Permit for the Apopka WRF. A summary of the design criteria for each unit process is presented in Appendix A.

The Field Performance Evaluation Report (see Appendix B) indicates that the overall physical condition of the Apopka WRF is satisfactory. The concrete structures, including process tanks and basins, are in good condition. The overall good physical condition of the Apopka WRF is the direct result of the City's diligence and dedication to perform preventive maintenance in accordance with the recommended procedures in the O&M Manual and manufacturer's recommendations.

CHAPTER 1
INTRODUCTION

Facility Data

The Operation and Maintenance Performance Evaluation Report has been prepared in accordance with FDEP Rule 62-600.735, F.A.C.; and as part of the application for renewal of the Operating Permit.

Owner:	City of Apopka Public Services
Facility Name:	Apopka Water Reclamation Facility/Project ARROW
GMS Identification No.:	3048 MO1915

Related Permits

FDEP Operating Permit No.:	FLA010818
Expiration Date:	August 12, 2012

Background

The City of Apopka's Water Reclamation Facility, reuse facilities and sprayfield irrigation site is located near the intersection of Cleveland Street and Old Apopka Road. The location of the facility site is shown in Figure 1. The corporate limits for the City have been extended to include the water reclamation facility and the sprayfield irrigation site.

The original wastewater treatment facility was constructed as a package plant and place into operation in 1972. The permitted design capacity for the original facility was 2 mgd. Effluent disposal was by spray irrigation.

The permitted design capacity of the water reclamation facility was increased from 2 to 4 mgd with the construction of a parallel treatment train and a common preliminary treatment structure in 1989 – 1990. The original wastewater treatment facilities became one treatment train; and the plant expansion formed the second treatment train. The City rerated the plant to a total permitted capacity of 4.5 mgd in 2004.

Preliminary treatment consists of a mechanically cleaned fine bar screen and grit removal. Flow from the preliminary treatment structure can be split equally between the two parallel treatment trains.

The first treatment train consists of a swirl-mix package plant that was manufactured by Walker Process Equipment. A circular prestressed concrete tank contains those unit processes necessary to provide secondary treatment, basic disinfection and aerobic sludge digester. The secondary clarifier is located in the center of the concrete tank with the aeration bay and aerobic digester wrapped around it. The facility is designed to be operated as a complete mix activated sludge process. The secondary treated wastewater flows by gravity to the filters, chlorine contact tanks, and the transfer pump station. Effluent from this facility may be directed to the restricted access

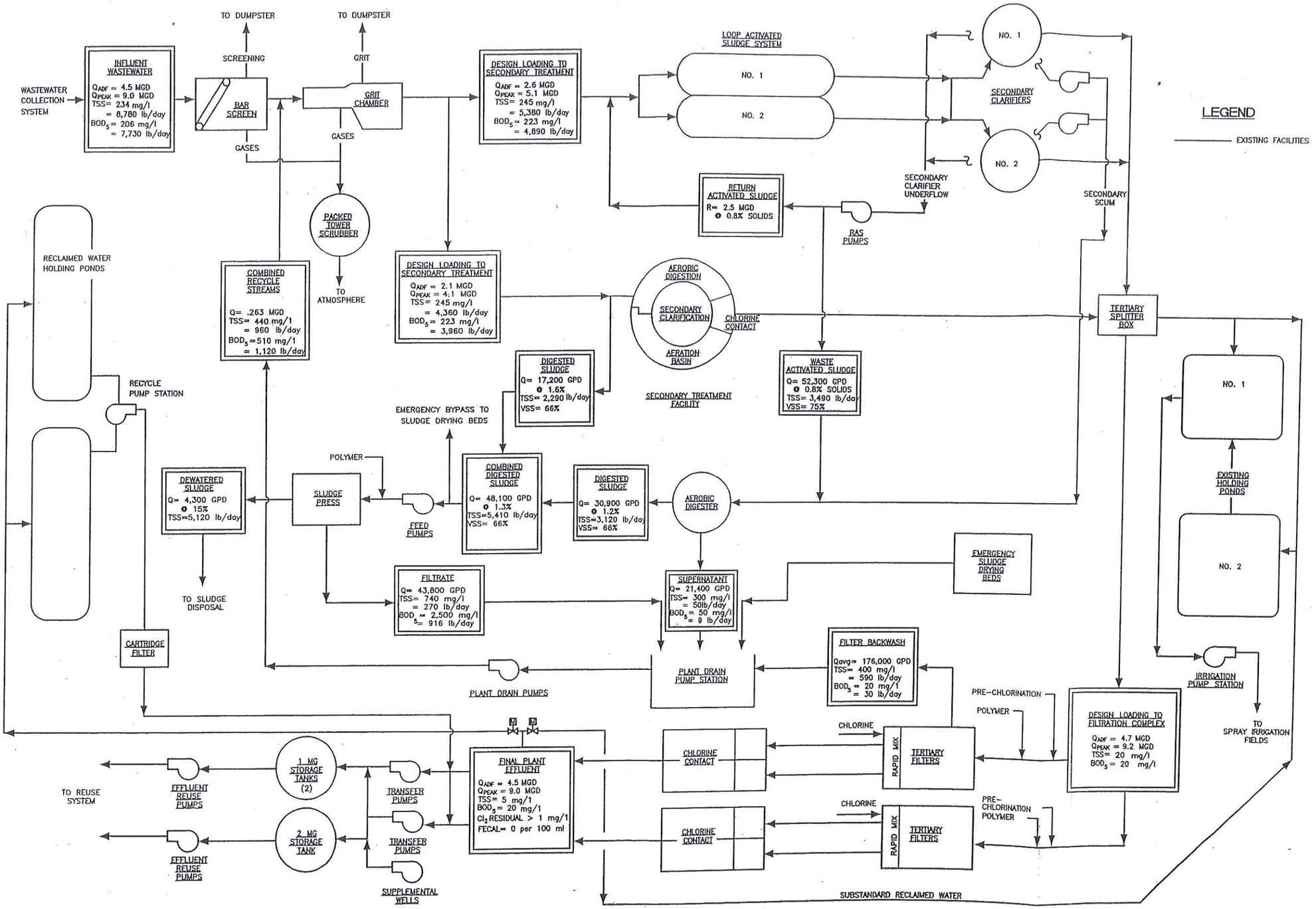
APOPKA WATER RECLAMATION FACILITY

SERVICE AREA

Witherington
JOHNS ROAD
BRADSHAW ROAD
Florida Memorial Park
South Apopka
Carp Lake
Lake Fuller
SCOUT ROAD
Lake Semmes
Claypit
Lake Opal
Wheatley Jr High Sch
Lake Jewel
E CLEVELAND ST
SEABOARD COAST LINE
SNOWDEN RD
Pike Lake
HARMON ROAD
Lake Rutherford
Lake Maynard
Lake Gentile
PIPELINE
SHEELER ROAD
Medicine Lake
KEENE ROAD
MARDEN ROAD
Lake Carter
Lake Mitchell
Lake Marden
MARK ASTON ROAD
Lake Cora Lee
Lake Lenore
OLD APOPKA CLARCONA RD
GILLIAM ROAD
ABANDONED
TELEPHONE LINE
ASHVILLE
Lake Pleasant
Page Lake
Blue Lake
PLEASANT ROAD
OLD ORLANDO APOPKA
BM 126
WHEELER ROAD
APOPKA BEAR LAKE ROAD
Lake Jackson
Lake McDade
Dover Lake
Highland Memory Garden
BALMY BEACH
Piedmont
Lake Grace
BEGGS ROAD
1000 0 1000
SCALE: 1" = 1000'

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY	DESIGNED BY: BLK	PROJECT ENGINEER: VICTOR J. GODLEWSKI JR PE	BOYLE ENGINEERING CORPORATION 320 East South Street Orlando, FL 32801 FL ENGINEERING BUS. NO. 2005 407-425-1100	132	CITY OF APOPKA WATER RECLAMATION FACILITY OPERATION AND MAINTENANCE PERFORMANCE REPORT	DRAWING: FIG 1
	DRAWN BY: RLM	REG NUMBER: 33139 EXP DATE: 02/28/07				SHEET: 000 OF 000 SHEETS
	CHECKED BY: VJG	PROJECT NUMBER: FE-A02-253-00			LOCATION MAP	
	DATE: JAN 2006	CADD STANDARDS: BOYLE				

PROCESS FLOW SCHMATIC



sprayfield or the public access reuse system. Sludge from the clarifier is wasted to the aerobic digester. Sludge can be transferred from the aerobic digester to either the drying beds or to the dewatering facility.

The second treatment train consists of the Carrousel™ activated sludge process, secondary clarifiers, filters, chlorine contact tank and an aerobic digester. Each unit process is in a separate structure. Waste sludge is discharged to an aerobic digester. The digested sludge may be sent to the sludge drying beds or the dewatering facility. Multiple units were provided for each process to comply with FDEP criteria for Class I reliability. Flows from this treatment train may be directed to the restricted access sprayfield or the public access reuse system.

The Apopka WRF and reuse facilities form the foundation for Project ARROW (Apopka Regional Reuse of Water). This project was initiated by the City to promote the use of reclaimed water from their treatment facility. The customer base for Project ARROW is continuing to increase.

Facility Capacities

Pursuant to the current FDEP operating permit for the WRF, the total design capacity of the treatment facility, based on annual average daily flows, is 4.5 mgd. The average daily flow (ADF) for the twelve month period ending in November 2011 was 2.581.

The total permitted capacity of the effluent disposal and water reuse systems is 19.80 mgd AADF. Most of the reclaimed water produced by the Apopka WRF is used by off-site reuse customers.

The biosolids are stabilized using aerobic digestion. Following stabilization, the biosolids are dewatered used a belt filter press. A private enterprise, Shelley's Environmental Services/Mid Florida Environmental, hauls away the biosolids to their treatment facility. The biosolids undergo alkaline stabilization in accordance with 40 CFR 503 before being land applied. The biosolids are considered to be Class B.

Effluent Disposal and Reclaimed Water Limitations

The current operating permit from FDEP provides for the discharge of effluent to lined holding ponds prior to spray irrigation on a restricted access 61-acre site adjacent to the treatment facility. Requirements for effluent disposal have been established in the current operating permit (No. FLA010818) and Chapter 62-610, Part II, F.A.C. A summary of the FDEP requirements for effluent disposal by spray irrigation (land application) is presented in Table 1.

Table 1
FDEP Permit Requirements for Effluent Disposal

Parameter	Value
Carbonaceous Biochemical Oxygen Demand (CBOD), *max. annual avg. / max. month avg.*	20 mg/L / 30 mg/L
Total Suspended Solids (TSS), *max. annual avg. / max. month avg.*	20 mg/L / 30 mg/L
Total Nitrogen, *annual average / monthly average*	10.0 mg/L
pH, *daily minimum*	6.0
pH, *daily maximum*	8.5
Total Chlorine Residual (TRC), *daily minimum*	0.50 mg/L

The FDEP also requires monitoring for influent and effluent flows, total suspended solids and fecal coliforms.

The current operating permit from FDEP provides for irrigation (water reuse) of unrestricted public access area in accordance with Chapter 62-610, Part III, and F.A.C. The current permitted capacity of the water reuse facilities and distribution system is 15.552 mgd. A summary of the FDEP requirements for water reuse in unrestricted public access areas is shown in Table 2.

Table 2
FDEP Permit Requirements for Water Reuse

Parameter	Value
Total Suspended Solids, *maximum*	5.0 mg/L
Turbidity, *maximum per City's protocol*	3.0 NTU
Total Chlorine Residual (TRC), *daily minimum*	1.0 mg/L
Total Nitrogen, *annual average / monthly average*	10.0 mg/L

FDEP also requires monitoring for flow, pH, $CBOD_5$ and fecal coliform.

The City currently has access to 127 million gallons (MG) of storage for its public access reuse system. The storage facilities include: a) 16 MG of lined pond storage at the WRF site; b) 4 MG of covered storage at the WRF site; c) 20 MG of lined pond storage at the Rock Springs Ridge Golf Course; d) 4 MG of covered storage at the North Reuse Pump Station; e) 83 MG of lined pond storage at the Northwest Recreation Center. This provides nearly 21 days of storage at the 2011 AADF of 6.1 MGD. The wet weather storage volume for the restricted access effluent disposal system is approximately 9 million gallons. At the permitted capacity of 0.40 MGD for this system, the lined ponds provide up to 22 days of storage.

Facility Modifications

The last major improvements to the plant were completed in 2000/01. These facilities included new filters, chlorine contact tanks and a transfer pump station that serve the original activated sludge plant (Walker Process Package Plant). The chlorine contact tanks that serve the Carrousel™ train of treatment were enlarged to provide more detention time.

The reuse facilities were also expanded and upgraded. The improvements that were made

included construction of a new 2 MG covered storage tank and two new reuse pumps with variable frequency drives (VFDs). The four existing pumps were upgraded to use VFDs. A completely new pump control system was installed as part of the project. A new emergency power generator was also added to the plant's control system.

A new supplemental water supply well (design capacity of 2,000 gpm) was constructed on the plant site in 2001. A third supplemental water supply well (design capacity of 2,000 gpm) was constructed on the plant site in 2010, bringing the total supplemental water supply capacity to 6.48 MGD.

The disinfectant used at the WRF is sodium hypochlorite. Chemical storage includes three double-walled, HDPE storage tanks with a total capacity of 3,300 gal.

Recommended Corrective Actions (FDEP)

There have been no corrective actions for the Apopka WRF recommended by the Department during the life of the current operating permit. No consent orders have been issued by the Department requiring corrective action for compliance with the conditions in the current operating permit (No. FLA010818).

CHAPTER 2

PHYSICAL CONDITIONS

General

The components of the Apopka WRF are listed in the following table. The process letter in the left-hand column refers to the section in the O&M Performance Evaluation Report in Appendix B.

Process Designation	Process Description
Process A	Fine Raw Sewage Screening
Process B	Grit Removal
Process C	Activated Sludge
Process D	Secondary Clarifiers
Process E	Filters
Process F	Chlorine Contact Tanks
Process G	Reclaimed Water Transfer Pump Station
Process H	Reclaimed Water Storage Tanks
Process I	Reuse Pump Station
Process J	Reuse Water Distribution System
Process K	Reclaimed Water Holding Ponds
Process L	Recycle Pump Station
Process M	Effluent Holding Ponds
Process N	Irrigation Pump Station
Process O	Aerobic Digestion
Process P	Sludge Drying Beds
Process Q	Belt Filter Press

Summary

The performance of the Apopka WRF was evaluated using the monthly operating reports, miscellaneous monitoring data, field evaluations of the facilities, and discussions with the facility operations and maintenance staff, and Mr. Jerry Bowser, Chief Operator. Conclusions from this evaluation process include:

- There is no evidence of hydraulic or organic overloading.
- The facility appears to be in compliance with its permit.
- The overall general condition of the water reclamation facility is good to excellent.
- The overall general condition of the effluent disposal and water reuse facilities is excellent.
- The facilities satisfy Class I reliability standards.
- It appears that the site presently meets the requirements of FDEP Rule 62-600.400(2) (a), minimizing the effects of noise, odor, lighting and aerosol drift.

- The sample collection locations comply with the requirements of FDEP Rule 62-600.400(4) (a).

- The facilities presently meet the flow monitoring requirements in FDEP Rule 62-600.400(4) (b) and Rule 62-601.

- The treatment processes and equipment are operated properly. Facility staff is expected to continue proper operation throughout the upcoming permit period.

- The treatment processes and equipment appear to have adequate safety features.

- Flow meters function as designed and appear to provide accurate records for compliance reporting. Flow meter calibration occurs annually.

- Biosolids are dewatered and hauled away for additional treatment using alkaline stabilization prior to land application in accordance with 40 CFR 503 and FDEP Rule 62-640. The biosolids are considered to be Class B pursuant to FDEP Rule 62-640.600.

CHAPTER 3

TREATMENT EFFICIENCY

Treatment Process

The Apopka WRF provides advanced secondary treatment with filtration for water reuse in unrestricted public access areas; and secondary treatment with basic disinfection for effluent disposal via spray irrigation (land application). A process flow schematic is presented in Figure 2. Incoming raw wastewater is screened and de-gritted prior to being split between the two parallel treatment trains.

The unit processes for the first treatment train includes complete mix activated sludge, clarification, basic disinfection by chlorination and biosolids stabilization by aerobic digestion. Effluent disposal was originally accomplished by spray irrigation. New high level disinfection facilities will allow the City to use the effluent from this treatment train for reuse.

The unit processes in the second treatment train include the proprietary Carrousel™ activated sludge process, clarification, filtration, high level disinfection with chlorine and biosolids stabilization using aerobic digestion. Flows from this treatment train are used to irrigate unrestricted public access areas. The reuse facilities include a reclaimed water transfer pump station to ground storage tanks, a reuse pump station, a reuse water distribution system and holding ponds for wet weather storage.

Overall Treatment Facility

The Apopka WRF has consistently complied with the limitations for water reuse in unrestricted public access areas as set forth in the current operating permit. Generally, a chlorine residual greater than 2.0 mg/L has been maintained. For the twelve month period ending in November 2011, the annual average treatment efficiency for the Apopka WRF was as follows:

Parameter	Removal Efficiency (%)
$CBOD_5$	> 99
TSS	> 99

The removal efficiencies for CBOD5 and TSS appear to exceed the expected levels for a secondary treatment facility with filtration. Turbidity and pH of the reclaimed water has complied with the requirements for water reuse on unrestricted public access areas. Turbidity generally has been less than 2.0 NTU.

Based on the current operation and performance of the Apopka WRF, it is expected that the treatment facility will continue to comply with the conditions and limitations set forth in the current operating permit during the next five year period. A major upgrade and expansion to the facility is planned and designed for the upcoming permitting period.

CHAPTER 4

PERFORMANCE TRENDS

Influent

An analysis of the monitoring data was performed to determine if there were any trends in the concentration of the carbonaceous biochemical oxygen demand ($CBOD_5$) and the total suspended solids (TSS) in the influent to the Apopka WRF. The results for the twelve month period ending in November 2011 are summarized in Table 3 and Figures 3 and 4.

A nationwide survey of domestic wastewater treatment plants has been performed by the USEPA to determine the concentration range for constituents in domestic wastewater. The results of this survey showed:

Constituent	Concentration Range, mg/L	
	Normal Strength	High Strength
$CBOD_5$	150-250	350-450
Total Suspended Solids	175-250	300-400
Total Nitrogen, as N	30-50	75-95

Based on the results of the USEPA survey, the concentrations of $CBOD_5$ and TSS present in the influent fall within the range of values for normal strength domestic wastewater. The average monthly concentrations of $CBOD_5$ and TSS in the influent for the Apopka WRF for the twelve month period ending November 2011 were 219 mg/L and 244 mg/L, respectively.

Effluent and Reclaimed Water

A similar trend analysis was performed for $CBOD_5$ and TSS for the effluent and reclaimed water. The results of this analysis are shown in Figures 5 and 6.

Based on a review of discharge monitoring reports, the Apopka WRF is in compliance with the limitations as set forth in the current Operating Permit for effluent disposal by spray irrigation and water reuse.

Based upon the performance trend analysis, the Apopka WRF will be capable of meeting the limitations for effluent and reclaimed water in the current operating permit throughout the upcoming permit period.

Table 3

Summary of Treatment Performance

Month/Year	Influent CBOD5 (mg/L)	Effluent CBOD5 (mg/L)	% Removal	Influent TSS (mg/L)	Effluent TSS (mg/L)	% Removal
Dec 2010	261	2.00	99.2	289	2.19	99.2
Jan 2011	249	2.05	99.2	269	2.08	99.2
Feb 2011	271	2.40	99.1	264	2.03	99.2
Mar 2011	205	3.08	98.5	251	2.18	99.1
Apr 2011	227	2.58	98.9	235	2.01	99.1
May 2011	205	2.53	98.8	250	1.32	99.5
Jun 2011	220	2.00	99.1	241	1.27	99.5
Jul 2011	197	2.00	99.0	216	1.10	99.5
Aug 2011	182	2.00	98.9	220	1.18	99.5
Sep 2011	190	2.00	98.9	235	1.21	99.5
Oct 2011	205	2.00	99.0	219	1.95	99.1
Nov 2011	214	2.00	99.1	242	2.94	98.8
Average	**219**	**2.22**	**99.1**	**244**	**1.79**	**99.3**

Figure 3
Summary of Influent Wastewater Characteristics - CBOD5 (mg/L)
December 2010 - November 2011

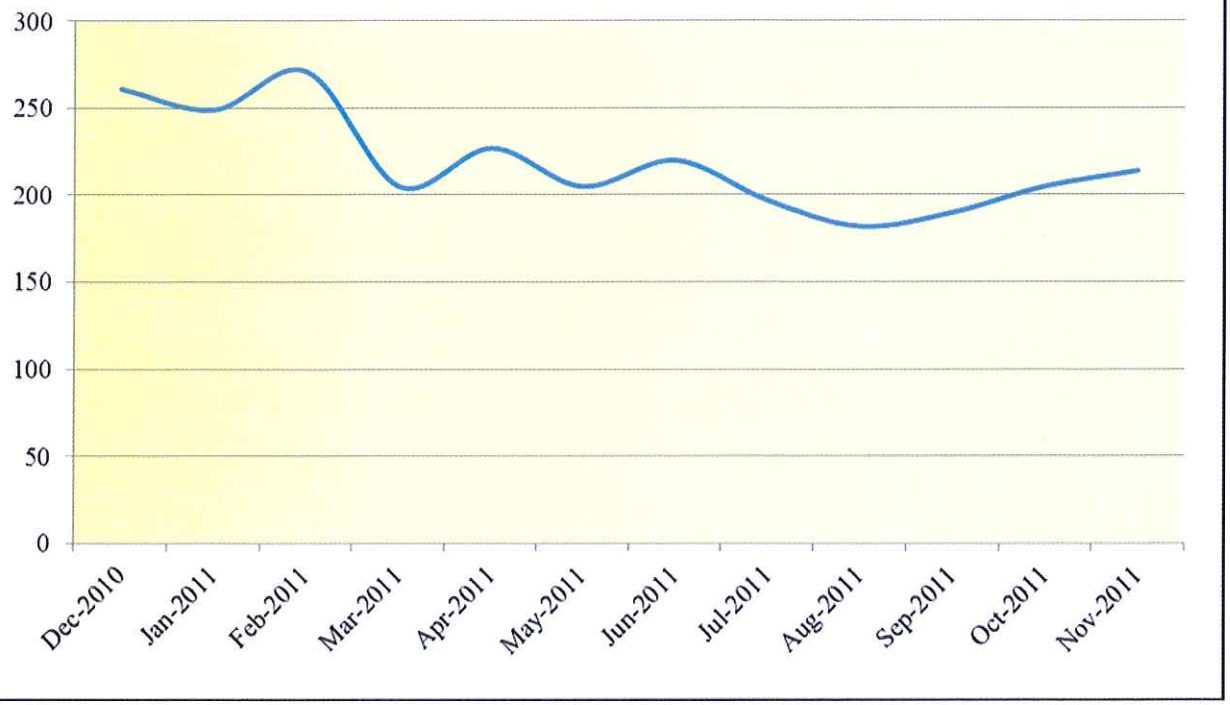


Figure 4
Summary of Influent Wastewater Characteristics - TSS (mg/L)
December 2010 - November 2011

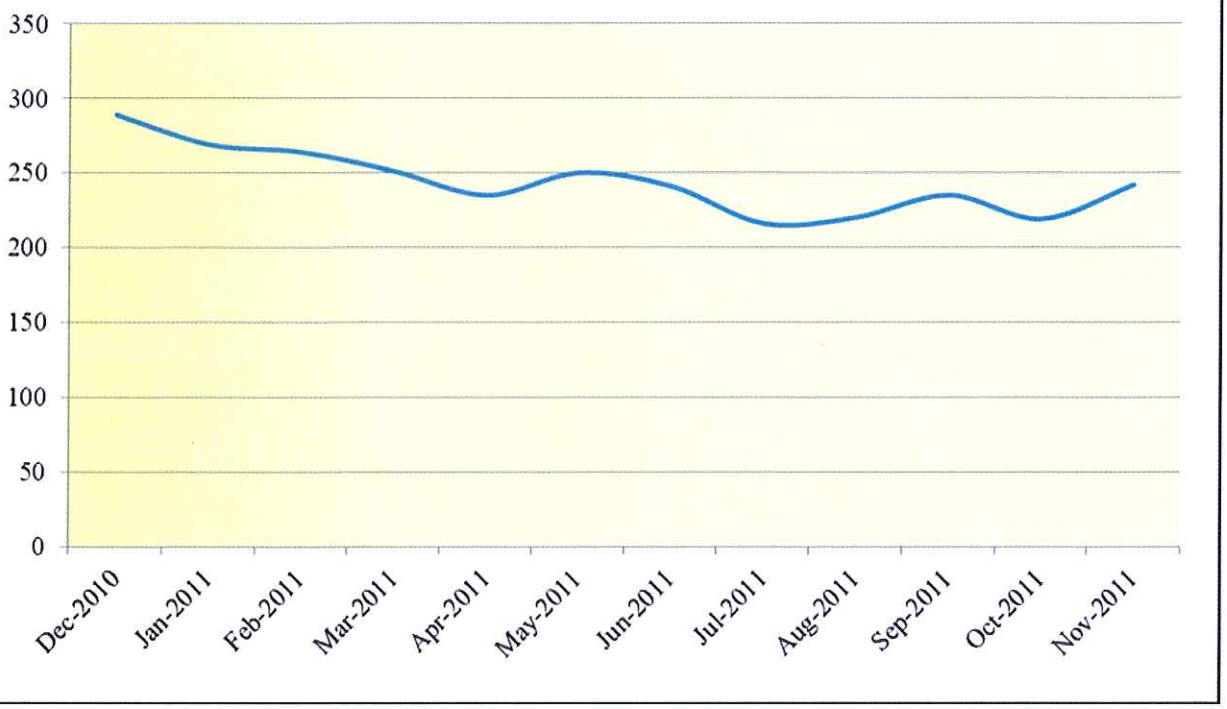


Figure 5
Summary of Effluent Characteristics - CBOD5 (mg/L)
December 2010 - November 2011

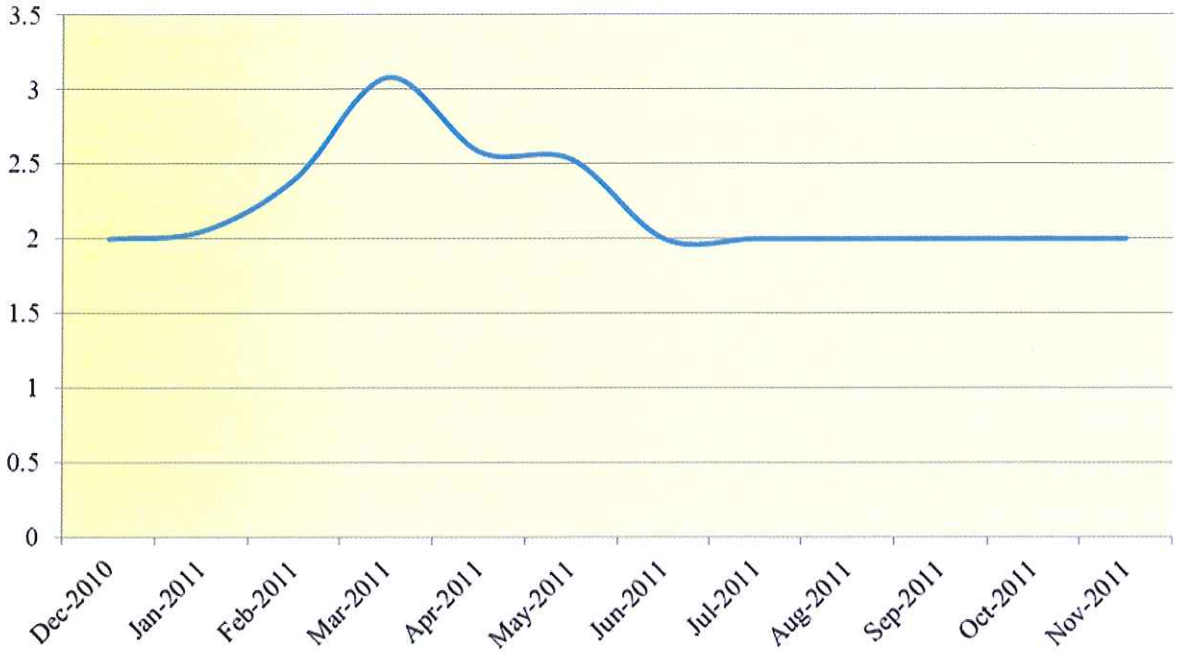
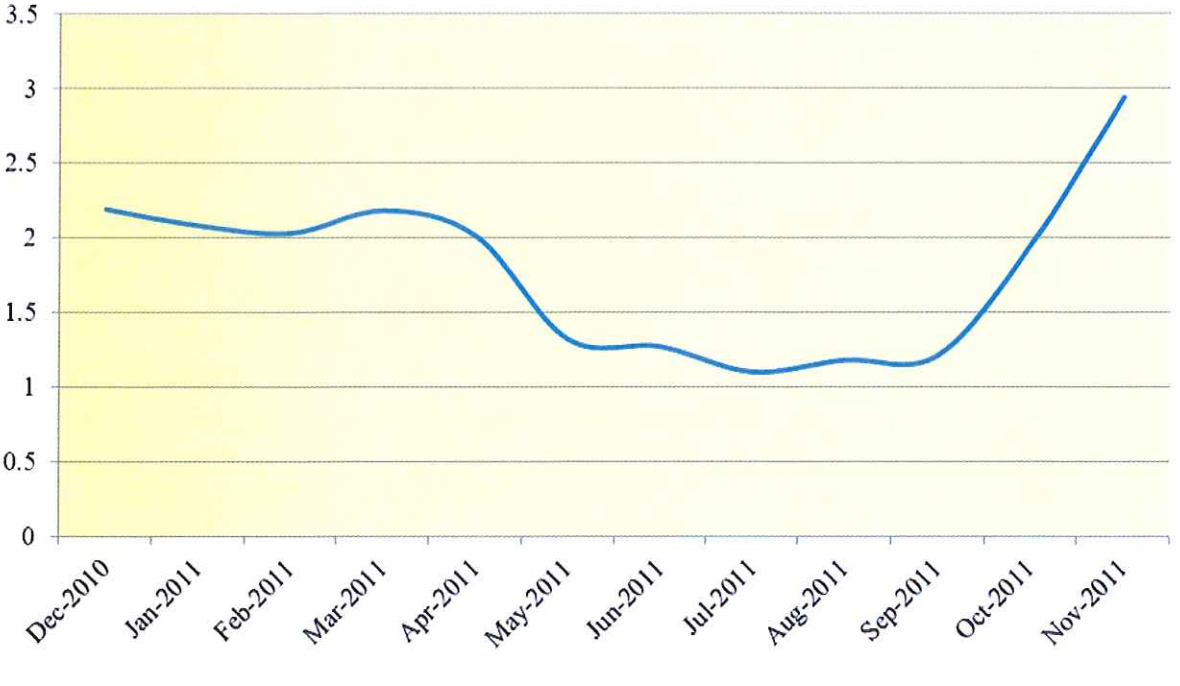


Figure 6
Summary of Effluent Characteristics - TSS (mg/L)
December 2010 - November 2011



Flow History

A summary of the monthly average daily flows for the Apopka WRF during 2011 is presented in Table 4. This data is also presented in Figures 7 and 8.

Ground Water Quality

A groundwater monitoring plan has been approved by FDEP for the spray irrigation site and those unrestricted public access areas receiving reclaimed water. Monitoring wells have been installed for the spray irrigation site. Samples are collected quarterly and analyzed for the following parameters:

- Total Dissolved Solids (TDS)
- Chlorides
- Nitrate Nitrogen
- Total Phosphorous
- Fecal Coliform
- pH
- Turbidity
- Conductivity

A review of the water quality data (year 2010) for the monitoring wells shows that the spray irrigation site is in compliance with the conditions of the current operating permit. An analysis of this data did not identify any significant trends for the individual monitoring parameters.

Surface Water Quality

Surface water quality is not required to be monitored pursuant to the conditions in the current operating permit. Effluent and reclaimed water from the Apopka WRF is discharged solely to groundwater following irrigation.

General

Untreated discharges from the collection system have been limited to a minimal number of pipe and lift station failures within the collection system. After each instance, the City has taken appropriate reporting actions with the FDEP. Further, the City took measures to contain and clean up any spill after each occurrence.

Table 4

Summary of Monthly Average Daily Flows

MONTH/YEAR	MONTHLY AVERAGE DAILY FLOW (MGD)	THREE-MONTH AVERAGE DAILY FLOW (MGD)
December 2010	2.516	2.564
January 2011	2.535	2.544
February 2011	2.555	2.535
March 2011	2.564	2.551
April 2011	2.562	2.560
May 2011	2.548	2.558
June 2011	2.520	2.543
July 2011	2.551	2.540
August 2011	2.627	2.566
September 2011	2.643	2.607
October 2011	2.713	2.661
November 2011	2.638	2.665
Average	**2.581**	**2.575**

Figure 7
Summary of Monthly Average Daily Flows (MGD)
December 2010 - November 2011

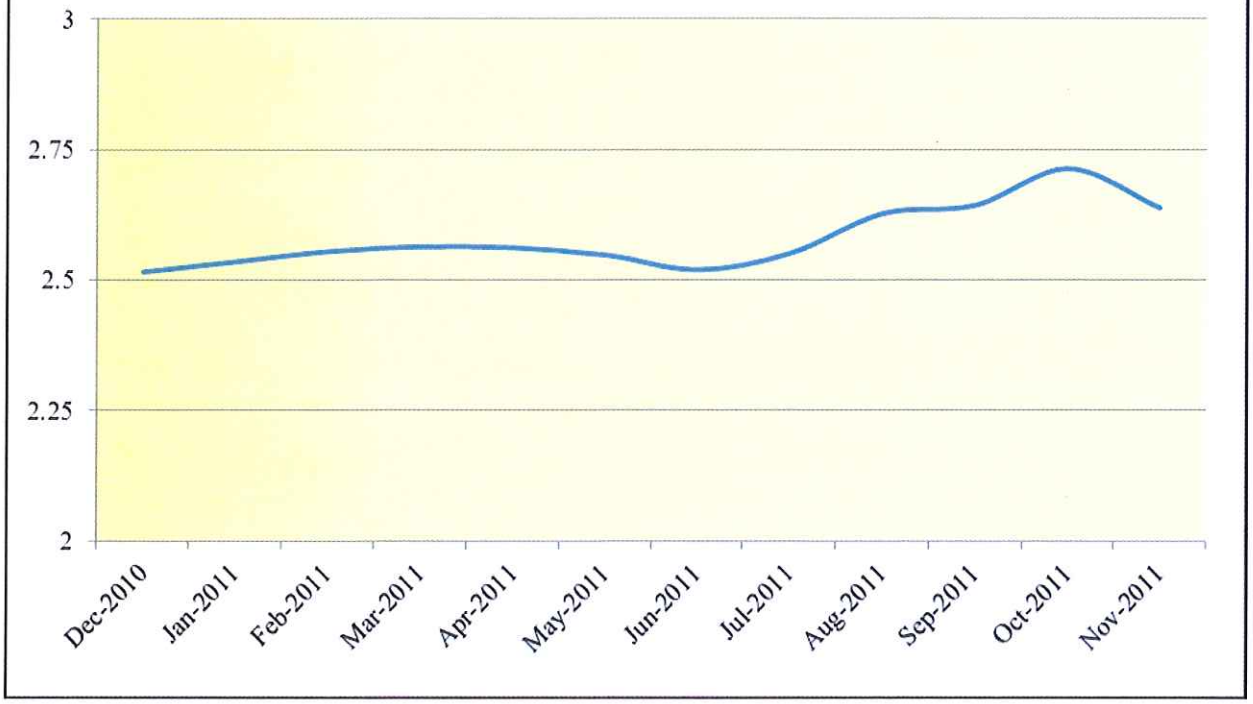
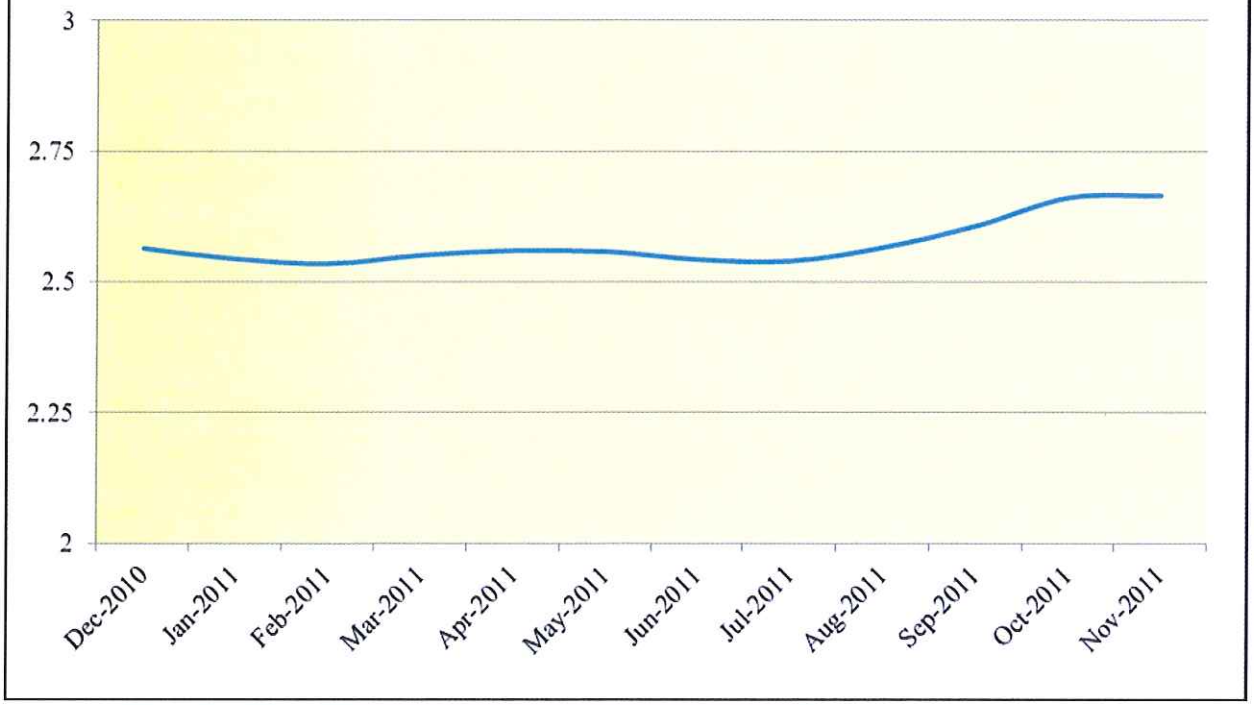


Figure 8
Summary of Three-Month Average Daily Flows (MGD)
December 2010 - November 2011



CHAPTER 5

OPERATIONS AND MAINTENANCE PROGRAM

Record Drawings

Reproducible record drawings and a copy of the Project Manual (specifications) for the Apopka WRF, effluent holding ponds and the reuse system are stored at the City of Apopka Public Services Administration Building, 748 E. Cleveland Street, Apopka, FL 32703.

Blue line copies of the record drawings are kept at the City of Apopka Public Services Administration Building, 748 E. Cleveland Street, Apopka, FL 32703. A copy of the specifications for each construction phase is kept with the record drawings.

Operation and Maintenance Manuals

The Operation and Maintenance (O&M) Manual for the Apopka WRF was prepared initially for the manufactured facility. The O&M Manual has been revised following completion of each phase of construction. Repositories for the O&M Manual include the Apopka Public Services library and the Apopka WRF. A copy of the O&M Manual and record drawings is available to the operators 24-hours a day in the Administration Building.

Operations and Maintenance Log

The City maintains an operations log, a maintenance log and an inventory of equipment and spare parts. The maintenance log and equipment inventory is updated using completed work orders that are maintained in the City's Antero software maintenance program. One copy of the operations and maintenance logs and inventories are kept at the WRF.

The City keeps a daily operations log at the Apopka WRF. The operations log is protected from the weather and accessible 24 hours a day in accordance with Chapter 62-602.650(4), F.A.C. Information in the log includes:

- Plant identification number
- Signature and certifications of the operators
- Log-in and out time and date
- Specific operations done
- Maintenance performed
- Inspections done
- Tests conducted
- Samples collected
- Repairs done by the City's maintenance staff.

The operations log is maintained in the Administration Building of the Apopka WRF. Completed log books are kept on file in the Administration Building. The Chief Operator reviews the operations log daily.

General

Staffing

The Apopka WRF is currently classified as a Class B, Category III treatment facility (a 2.0 MGD up to 8.0 MGD, processes including extended aeration, including oxidation ditches, with or without filtration). The City maintains a Class C or higher operator on duty 16 hours per day, 7 days per week, with a Class C or higher operator on after-hours standby duty 8 hours per day, 7 days per week. The Chief Operator is Mr. Jerry Bowser, who has a Class A license (No. A6766). The Water Resources Operations Manager is Mr. Kevin Burgess, who has a Class A license (No. 7762).

The facility is adequately staff at this time.

Maintenance

Maintenance for the Apopka WRF is performed by the Water Resources Maintenance Staff which includes an Utilities Electrician, Plant Mechanic, and a SCADA/Instrumentation Technician. Maintenance personnel receive training on a continuous basis. The Chief Operator and/or plant operator completes a work order form to request unscheduled maintenance or to initiate major repairs.

Basic preventive maintenance activities at the Apopka WRF, such as replacement of consumables, are performed by both the operators on duty and the facility maintenance staff.

Maintenance activities or major repairs requiring specialized personnel or equipment are contracted to outside services. This is the procedure for electric motors, instrumentation and pumps.

Preventive maintenance has been adequate for the mechanical equipment, structures and the auxiliary facilities.

Record Keeping

Record keeping appears to be adequate. Records are maintained in lockable file cabinets in the Administration Building at the WRF or electronically by computer.

Sampling

The operations lab staff collects the composite samples from the automatic samplers for the influent and the effluent at about 8:00 a.m. for transport to the City's laboratory. The samplers are cleaned, checked and reset for the next 24 hour monitoring period. Clean sample containers are used for each monitoring event.

The morning grab samples are collected by the operations lab staff at approximately 8:00 a.m. each day and include the following areas:

- Raw wastewater entering the preliminary treatment structure
- Activated sludge process
- Secondary clarifiers
- Return activated sludge
- Filter effluent, prior to chlorination
- Chlorine contact tank, following chlorination

Sample collection stations have been established for each process area. The location of the sampling stations has been identified with a sign painted on the walkway. Operators have been instructed to collect samples from only these locations, unless otherwise directed by the Chief Operator.

The aerobic digesters are sampled periodically for volatile solids reduction and MLSS concentration. The operators take field measurements for the following parameters at least once per shift:

- Dissolved oxygen in the air bays and digesters
- pH
- Chlorine residual of the effluent

Fecal coliform samples are collected by the operations lab staff each day. The sampling location is after the chlorine contact chamber.

Turbidity, pH and chlorine residual are monitored continuously. The results are recorded and trended by the SCADA system. The monitors are calibrated on a regular basis and in accordance with the manufacturer's recommended calibration schedule. The operators and/or lab staff collect grab samples each shift and analyze them to check the accuracy of the readings for these monitors.

Sampling is conducted as necessary by the operators to improve the performance of the individual treatment processes or to resolve operating problems. Sampling frequency and times vary according to the situation under investigation.

Monitoring Stations

The City has established monitoring stations for each unit process throughout the WRF. The locations of the monitoring stations are listed in Table 5.

Laboratory Testing

The analyses for the Apopka WRF are performed by the City's laboratory. The laboratory is certified by the Florida Department of Health to perform analysis for a wide range of parameters, including BOD_5, $CBOD_5$, TSS, nutrients and sludges. The certification numbers for the laboratory are:

Description	FDOH Certification No.	Approved Analytes
Environmental	E53844	Basic parameters, nutrients
Drinking Water	E53844	Microbiology

Table 5
Monitoring Stations

Process	Location Description
Raw Wastewater	Upstream of fine bar screen on top of pretreatment structure.
Treatment Train No. 1 (Conventional Activated Sludge Process)	
Mixed Liquor Suspended Solids (MLSS)	Center of aeration basin.
Aeration Basin Dissolved Oxygen (DO)	Middle of basin or bridge rotator.
Sludge Blanket	Two-thirds of the distance from the center of the clarifier on the travelling bridge facing the east landing.
Return Activated Sludge (RAS)	Waste port to aerobic digester.
Waste Activated Sludge (WAS)	Waste port to aerobic digester.
Dissolved Oxygen (DO)	Middle of clarifier on the east side.
Digester parameters (pH, MLSS, VSS, TS)	Center of aerobic digester basin.
Supernatant	Influent port to the aeration basin.
Effluent parameters (pH, chlorine residual, turbidity, fecal coliform, $CBOD_5$, TSS and nutrients)	Outfall weir of the chlorine contact basin.
Treatment Train No. 2 (Carrousel™ Process)	
Mixed Liquor Suspended Solids (MLSS)	East and west sides of each air bay in front of overflow weirs.
Aeration Basin Dissolved Oxygen (DO)	Four feet past the overflow weir in each air bay.
Sludge Blanket	Two-thirds of the distance from the center of the clarifier with the skimmer arm at a 90° angle.
Return Activated Sludge (RAS)	Tap in the RAS line at the head works
Waste Activated Sludge (WAS)	Tap in the RAS line at the head works
Clarifier Dissolved Oxygen (DO)	Same location as the sludge blanket
Pre-Filter Parameters (TSS and Turbidity)	Influent trough in rear of first filter just prior to overflow weir.
Effluent parameters (pH, chlorine residual, turbidity, fecal coliform, $CBOD_5$, TSS and nutrients)	Just prior to overflow weir for chlorine contact chamber. Grab samples are taken from both east and west sides. A composite sampler is retrieved from the west side.
Digester Parameters (pH, MLSS, VSS, TS)	Platform on south side of digester.
Digester Dissolved Oxygen (DO)	Platforms on north and south sides of digester.
Supernatant	Manhole in roadway between digester and belt filter press.
Sludge Cake	Front of belt filter press as it falls from belt scraper.
Filtrate	North side of belt filter press at each of five drain lines.

Note: Samples may be collected at other locations as deemed necessary to troubleshoot operating problems, improve treatment performance or for special projects.

Chain-of-custody forms accompany all samples that are delivered to the laboratory facility for analysis. The samples are transported to the laboratory on ice in coolers. The samples are analyzed according to the approved Quality Assurance Plan for the laboratory.

The laboratory in the operator's office at the Apopka WRF is used for the analysis of samples that assist with the operation of the plant. The operators have been trained to perform specific analyses, such as pH, chlorine residual, TDS and TSS.

Reuse Protocol

The City has established a Reuse Operating Protocol. The City prepares an update to the protocol each year. The requirements for reuse and the Protocols are included in the standard agreement to receive reclaimed water and participate in the reuse program.

Cross Connection Control and Inspection Program

The City has a Cross Connection Control and Inspection Program.

Industrial Pretreatment Program

The City's Industrial Waste Pretreatment Program (IWPP) was developed to protect the WRF and to help insure the quality of the reclaimed water. The IWPP has been approved by FDEP and has been incorporated into the City's sewer use ordinance.

Currently, there is one industrial discharger and three significant commercial dischargers to the municipal collection system. Procedures have been developed and implemented to trace and identify unknown discharges, including spills and slugs, to the City's wastewater system. The City has an established Oil and Grease Management Program (OGMP) for restaurants and fast food outlets. Restaurants and fast food outlets sampled periodically by the City. The samples are analyzed for BOD_5 and TSS. Surcharges can be levied for excessive concentrations of BOD_5 and TSS.

CHAPTER 6

COLLECTION SYSTEM EVALUATION

Excessive Infiltration and Inflow

There have been no surcharges, overflows, bypasses, or poor treatment performance due to hydraulic overloading of the Apopka WRF. There does not appear to be excessive infiltration and inflow. The wastewater collection system has been constructed using a variety of materials, including clay and polyvinyl chloride (PVC) pipe. The collection system should not be susceptible to infiltration and inflow for two reasons. First, recent expansions of the collection system have been constructed with PVC gravity and pressure sewer pipe. Second, much of the City is located on top of a sandy ridge which has very permeable soils and low groundwater tables throughout the year. The City has an on-going program of collection system evaluation and repair. Therefore, the collection system does not require additional evaluation at this time.

Septic Wastewater

Septic waste is not discharged to this facility.

Industrial Contribution

There is one industrial contribution to the Apopka WRF. It is an electronic equipment manufacturer known as Triquint Semiconductor. Currently, the City has an approved Industrial Waste Pretreatment Program. The coordinator is Mr. Al Fisher.

CHAPTER 7

PROBLEMS, DEFICIENCIES AND CORRECTIVE ACTIONS

Physical Conditions

The *O&M Performance Evaluation Report* in Appendix B indicates that the overall physical condition of the Apopka WRF is satisfactory. The concrete structures, such as the process tanks and basins, are in good condition, with only minor maintenance required. The overall good physical condition of the Apopka WRF is the direct result of preventive maintenance and care being contributed by the operations and maintenance staff in accordance with the schedule and the recommended procedures in the manufacturer's O&M Manuals.

The City is in the process of resolving several of the deficiencies that are listed for specific processes in the *Field Performance Evaluation Report.*

A summary of the deficiencies that were identified during the field performance evaluation for each process appears on the following pages.

Treatment Efficiency

No deficiencies were identified for the secondary treatment units, including the complete mix activated sludge process of the manufactured facility and the Carrousel™ process in the secondary treatment train; secondary clarifiers; filters; and chlorination systems. Treatment efficiency has remained consistent and good for the individual unit processes. Removal efficiencies average better than 99% for TSS and $CBOD_5$ during the twelve month period ending November 2011.

Performance Trends

The overall performance of the advanced secondary treatment plant has been consistent and good throughout the life of the current permit. The filtered effluent generally contains less than 2 mg/L of TSS, and 3 mg/L of $CBOD_5$.

Operations and Maintenance Program

No deficiencies were identified in the City's Operations and Maintenance Program for the Apopka WRF. The City should continue to update the information in their equipment and spare parts inventories and maintenance logs. A preventive maintenance software package (Antero) is used to maintain inventories and schedule maintenance activities.

Collection System Evaluation

No significant deficiencies were found in this area of wastewater operations.

Schedule for Corrective Actions

It is expected that the City will complete the work required to correct deficiencies noted in the *O&M Performance Evaluation Report* by September 30, 2014.

Performance Evaluation Report Summary

The following is a list of deficiencies that were identified at the Apopka WRF during the Facility Performance Evaluation. The upper case letter references the process in the *O&M Performance Evaluation Report* in Appendix B. The number "1" following the process letter refers to Treatment Train No. 1, which consists of a manufactured facility by Walker Process Equipment with conventional complete mix activated sludge, secondary clarifier, aerobic digester and high level disinfection facilities (filters/chlorine contact). The number "2" following the process letter refers to Treatment Train No. 2, which was constructed and placed in service in 1990. This treatment train consists of the Carrousel™ activated sludge process, secondary clarifiers, filters, chlorine contact chamber and aerobic digester. The preliminary treatment structure is common to both plants.

Process A – Fine Bar Screen

- Re-line the influent wastewater channels on preliminary treatment structure.
- Replace the base of the odor scrubber tower with stainless steel materials.
- Repair the influent splitter gate to Plant #2.
- Clean and replace the odor scrubber media.
- Rebuild the mechanical bar screen control panel.

Process B – Grit Removal

- Rehabilitate the grit pumps.
- Repair the concrete pump base for Grit Pump #1.
- Repair lighting throughout the Pretreatment Structure.
- Replace the control panel box with a powder coated aluminum box.
- Replace the lighting panel boxes with powder coated aluminum boxes.

Process C-1 – Conventional Activated Sludge Process

- Install safety life rings on the travelling bridge.

Process C-2 – Carrousel™ Activated Sludge Process

- Repair concrete damage at NW corner of the East effluent splitter box.

Process D-1 – Secondary Clarifier

- None at this time.

Process D-2 – Secondary Clarifier

- Replace the 10" RAS flowmeter.
- Replace the WAS valve actuator.
- Install safety life rings on both clarifiers.

Process E-1 – Filters

- None at this time

Process E-2 – Filters

- None at this time

Process F-1 – Filters

- Re-coat epoxy coated surfaces of the chlorine contact chamber.
- Replace monitoring equipment storage building.

Process F-2 – Filters

- Re-coat epoxy coated surfaces of the chlorine contact chamber.
- Replace monitoring equipment storage building.

Process G – Reclaimed Water Transfer Pump Station

- Re-locate PLC to an air conditioned environment in the MCC building.

Process H – Reclaimed Water Storage Tanks

- Inspect tanks on a regular basis.

Process I – Reuse Pump Station

- Re-coat painted surfaces on all high service pumps.

Process J – Reclaimed Water Distribution System

- None at this time.

Process K – Reclaimed Water Holding Ponds

- None at this time.

Process L – Recycle Pump Station

- Install 6" flowmeter on the recycle pump station.

Process M – Effluent Holding Ponds

- None at this time.

Process N – Irrigation Pump Station

- None at this time.

Process O-1 – Aerobic Digestion

- None at this time.

Process O-2 – Aerobic Digestion

- None at this time.

Process P – Biosolids Drying Beds

- None at this time.

Process Q – Belt Filter Press

- Repair damaged lighting in this area.

APPENDIX A

SUMMARY OF PROCESS DESIGN CRITERIA

City of Apopka Water Reclamation Facility

The information for this Summary of Process Design Criteria was obtained from visits to the facility site, discussions with Mr. Jerry Bowser and O&M staff, and a review of available record drawings and maintenance/equipment logs.

The Apopka Water Reclamation Facility (WRF) has a permitted capacity of 4.5 MGD and a disposal capacity of 19.8 MGD. The Apopka WRF consists of two treatment trains with a common preliminary treatment structure. One treatment train is a manufactured facility by Walker Process Equipment. Secondary treatment and high level disinfection is provided by the complete mix activated sludge process followed by Dyna-Sand filters and chlorination. The second treatment train was added as part of a plant expansion in 1989-1990. Advanced secondary treatment and high level disinfection is accomplished using the Carrousel™ activated sludge process, Dyna-Sand filters and chlorination.

The current average daily flow for the Apopka WRF is approximately 2.6 MGD. Presently, both treatment trains are online.

Design criteria are presented on the following pages for unit processes in both wastewater treatment trains, reclaimed water and effluent disposal systems, and biosolids treatment and handling. The upper case letter"A" refers to the manufactured facility that comprises Treatment Train No. 1. The upper case letter "B" is for the Treatment Train No. 2 with the Carrousel™ process.

WASTEWATER TREATMENT PROCESSES

1. **Course Bar Screen**

No. of Units:	1
Type:	Manual
Width:	2.5 feet
Bar Size:	3/8 inch diameter
Opening Size:	5/16 inch
Angle:	80^{o}

2. **Fine Bar Screen**

No. of Units:	1
Type:	Mechanical
Design Flow:	4.5 MGD
Peak Flow:	9.0 MGD
Width:	2.5 feet
Motor Size:	0.75 hp
Opening Size:	6-mm and 14-mm

3. **Grit Removal**

No. of Units:	1
Type:	Pista-Grit Style
Design Flow:	4.5 MGD
Peak Flow:	9.0 MGD
Detention Time:	73 sec.
Tank Volume:	3,800 gal.
Diameter:	12 feet
Type of Grit Washer:	Wemco Hydrogritter
Motor Size:	1 hp
Screw Conveyor Diameter:	12 inches
Solids Capacity:	32 ft^3/day
Motor Size:	0.5 hp
No. of Grit Pumps:	2
Type:	Centrifugal
Motor Size:	10 hp
Pump Capacity:	300 gpm @ 31 TDH

4. **Activated Sludge**

A. Type of Process:	Complete Mix
Design Flow:	2.0 MGD
Peak Flow:	4.0 MGD
No. of Air Bays:	1
Hydraulic Detention Time:	5.5 hours
MLSS Concentration:	4,000 mg/L
Solids Retention Time:	5 days

F/M Ratio:	0.1-0.2
Recirculation Rate:	100%
Basin Volume:	462,000 gal.
Basin Depth:	15 feet
Type of Aeration:	Coarse Bubble Diffusers
No. of Diffusers:	128
Aeration Rate:	6.27 cfm/1,000 gal.
Diffuser Type:	Coarse Bubble
No. of Blowers:	3
Motor Size:	100 hp
Blower Capacity (each):	2,200 cfm

B. Type of Process:	Carrousel™
Design Flow:	2.5 MGD
Peak Flow:	5.0 MGD
No. of Air Bays:	2
Hydraulic Detention Time:	9.6 hours
Basin Volume:	0.5 MG
Basin Depth:	22 feet
Basin Width:	44 feet
Fluid Velocity:	1 fps
MLSS Concentration:	3,000-4,000 mg/L
Solids Retention Time:	8-9 days
F/M Ratio:	0.1-0.2
Sludge Yield:	0.8-1.0 lbs.-MLSS/lb.-BOD
Sludge Production:	3,500-3,900 lbs/day
Recirculation Rate:	100%.
Oxygen Transfer Rate:	Up to 315 lbs-O_2/hr.
Mechanical Aerators:	2 @ 75 hp

5. **Secondary Clarifier**

A. No. of Units:	1
Diameter:	82.5 feet
Depth:	11.5 feet
Hydraulic Detention Time:	5.5 hours
Surface Loading Rate:	374 gpd/ft^2
Weir Overflow Rate:	7,717 gpd/ft
RAS/WAS Pumps:	Air Lift Design
No. of Air Lifts:	1
Air Lift Capacity:	1,388 gpm
WAS Concentration:	0.5-1.0%

B. Type:	Circular
No. of Units:	2
Diameter:	65 feet
Depth:	12 feet
Surface Loading Rate:	377 gpm/ft^2

Weir Overflow Rate:	6,122 gpd/ft.
RAS/WAS Pumps:	3 @ 20 hp
Pump Capacity:	350 – 1,400 gpm @ 36' TDH
Pump Efficiency:	70%
WAS Concentration:	0.5-1.0%
Scum Grinder Pumps:	2 @ 2 hp
Scum Pump Capacity:	45 gpm @ 55' TDH

6. **Filters**

A. No. of Units:	5
No. of Modules:	2 per filter
Design Flow:	2.25 MGD
Peak Flow:	4.5 MGD
Type of Media:	Sand
Media Size:	1.3 mm
Media Depth:	40 inches
Surface Area:	50 ft^2/module
Surface Loading Rate:	
Design:	3.2 gpm/ft^2
Peak:	6.4 gpm/ft^2
Backwash Cycle:	Continuous
Backwash Rate:	10 gpm/ft^2
Air Flow:	5.0 scfm/filter
No. of Compressors:	2
Compressor Type:	Rotary Screw
Compressor Size:	20 hp
Compressor Capacity:	77 cfm @ 110 psi
Receiver Capacity:	240 gal.
Pressure:	110 psi

B. No. of Units:	5
No. of Modules:	2 per filter
Design Flow:	2.25 MGD
Peak Flow:	4.5 MGD
Type of Media:	Sand
Media Size:	1.3 mm
Media Depth:	40 inches
Surface Area:	50 ft^2/module
Surface Loading Rate:	
Design:	3.2 gpm/ft^2
Peak:	6.4 gpm/ft^2
Backwash Cycle:	Continuous
Backwash Rate:	10 gpm/ft^2
Air Flow:	5.0 scfm/filter
No. of Compressors:	2
Compressor Type:	Rotary Screw
Compressor Size:	20 hp
Compressor Capacity:	77 cfm @ 110 psi

Receiver Capacity:	240 gal.
Pressure:	110 psi

7. **Chlorine Contact Tanks**

A. No. of Tanks:	2
Tank Volume:	44,000 gal.
Tank Depth:	6.7 feet
Length to Width Ratio:	1.5:1
Contact Time:	
Design:	56 minutes
Peak:	28 minutes
Chlorine Dosage:	8-12 mg/L
Average Chlorine Residual:	1.5-2.5 mg/L
Design "CT":	40
No. of Rapid Mix Chambers:	2
Hydraulic Detention Time:	58 sec. @ PHF
Chamber Volume:	1,500 gal.
Chamber Depth:	12.5 feet
No. of Mixers:	2
Mixer Size:	2 hp
Impeller Size:	23 inches
Velocity Gradient:	850 sec^{-1}

B. No. of Tanks:	2
Tank Volume:	44,000 gal.
Tank Depth:	6.7 feet
Length to Width Ratio:	1.5:1
Contact Time:	
Design:	56 minutes
Peak:	28 minutes
Chlorine Dosage:	8-12 mg/L
Average Chlorine Residual:	1.5-2.5 mg/L
Design "CT":	40
No. of Rapid Mix Chambers:	2
Hydraulic Detention Time:	58 sec. @ PHF
Chamber Volume:	1,500 gal.
Chamber Depth:	12.5 feet
No. of Mixers:	2
Mixer Size:	2 hp
Impeller Size:	23 inches
Velocity Gradient:	850 sec^{-1}

8. **Sodium Hypochlorite Feed System**

No. of Feed Pumps:	3
Capacity (each):	17.2 gph @ 102 psig
Control:	Flow Proportional
No. of Storage Tanks:	3

Capacity (each):	1,100 gal.
Reserve Capacity:	
Current:	18 days
Design:	12 days

9. **Flow Measurement**

Type of Meters:	Magnetic and Polysonic
No. of Meters:	4
Meter Locations:	Influent Force Main – 18" (Magnetic) Influent Force Main – 24" (Polysonic) Return Activated Sludge Line (Magnetic) Waste Activated Sludge Line (Magnetic)
Capacity:	
Influent Force Main – 18"	0 to 9.36 MGD
Influent Force Main – 24"	0 to 14.4 MGD
Return Activated Sludge Line	0 to 4.5 MGD
Waste Activated Sludge Line	0 to 500 gpm
Type of Meters:	Weir
Meter Locations:	Filter Effluent (Train No. 1) Filter Effluent (Train No. 2)
Capacity (Effluent Flow):	0 to 9 MGD
Type of Meters:	Direct Drive Propeller
Meter Locations:	Recycle Pump Station Plant Water Turnout
Capacity:	
Recycle Pump Station:	0 to 700 gpm
Plant Water Turnout	0 to 300 gpm
Type of Meters:	Magnetic
Meter Locations:	Reuse Pump Station (18" & 20")
Capacity:	0 – 14.40 MGD (each)

10. **Odor Control Scrubber**

No. of Units:	1
Type:	Counter Current Packed Tower
Removal Efficiency:	99% of H_2S
Column Diameter:	26 inches
Air Flow Rate:	1,000 cfm
Solution Flow Rate:	20 gpm
Type of Meters:	Polypropylene Spheres
Media Surface Area:	68 ft^2/ft^3
Void Volume:	93%
No. of Fans:	1
Fan Size:	3 hp
Fan Capacity:	1,000 scfm @ 6" WC
No. of Recirculating Pumps:	2
Pump Size:	1 hp

Pump Capacity:	20 gpm @ 47' TDH
Recirculating Solution:	pH > 9.0
Chemical Used:	Sodium Hydroxide

11. **Plant Lift Station**

No. of Stations:	1
Wet Well Volume:	31,000 gal.
Wet Well Depth:	10 feet
No. of Pumps:	3
Type:	Submersible
Pump Size:	15 hp
Pump Capacity:	600 gpm @ 46' TDH
Pump Efficiency:	55%
Flows:	Digester Supernatant, Filtrate from Drying Beds, Wash Water/Filtrate from Belt Filter Press, Backwash from Filters, Domestic Wastewater from Administration and Lab Buildings

12. **Electrical System**

Power Supply Connections:	2
Plant Electrical Service:	
Wastewater Treatment Plant:	2,000 amps, 460 volts, 3-phase, 60 hertz
Reuse Facilities:	1,200 amps, 460 volts, 3-phase, 60 hertz
No. of Emergency Generators:	4
Type:	Diesel
Generator Size:	
A	300 kW
B	250 kW
C	275 kW
D	350 kW

13. **Reclaimed Water Transfer Pump Station**

No. of Pumps:	6
Type:	Vertical Turbine
Pump Size:	3 @ 20 hp 3 @ 25 hp
Pump Capacity:	1,400 gpm @ 42' TDH 1,400 gpm @ 44' TDH
Wet Well Volume:	80,000 gal.
Wet Well Depth:	6.4 ft.

14. **Reclaimed Water Storage Tanks**

No. of Tanks:	3
Type:	Prestressed Concrete Circular Ground Storage Tank
Operating Capacity:	2 @ 1.0 MG 1 @ 2.0 MG
Diameter:	2 @ 85 ft. 1 @ 120 ft.
Side Wall Depth:	23.6 feet
Average Chlorine Residual:	> 1.0 mg/L

15. **Reuse Pump Station**

No. of Pumps:	6
Type:	Vertical Turbine
Pump Size:	4 @ 125 hp 2 @ 200 hp
Pump Capacity:	4 @ 1,400 gpm @ 252' TDH 2 @ 2,600 gpm @ 234' TDH
System Pressure:	100 psig

16. **Recycle Pump Station**

No. of Pumps:	2
Type:	Submersible
Pump Size:	25 hp
Pump Capacity:	700 gpm @ 81' TDH
Pump Efficiency:	60%
No. of Strainers:	1
Operation:	Automatic
Flow Capacity:	850 gpm
Operating Pressure Range:	25-150 psig
Pressure Loss:	2 psig
Opening Size:	0.01 inch

17. **Reclaimed Water Holding Ponds**

No. of Ponds:	2
Capacity:	8.0 MG each
Wet Weather Storage Capacity:	16.0 MG
Total Area:	5.5 acres
Depth:	10 feet
Freeboard:	3 feet
Side Slopes:	2:1

18. **Effluent Holding Ponds**

No. of Ponds:	2
Total Storage Capacity:	9.0 MG
Wet Weather Storage Capacity:	9.0 MG
Total Area:	3.5 acres
Depth:	8.5 feet
Freeboard:	2 feet

19. **Irrigation Pump Station**

No. of Pumps:	5
Type:	Horizontal Centrifugal
Pump Size:	4 @ 75 hp
	1 @ 100 hp
Pump Capacity:	2 @ 700 gpm @ 180' TDH
	1 @ 1,000 gpm @ 152' TDH
	1 @ 1,520 gpm @ 152' TDH

20. **Sprayfield Irrigation Site**

No. of Sites:	1
Total Area:	62.6 acres
Total Permitted Disposal Capacity:	0.40 MGD
Annual Average Application Rate:	0.46 acre inches/week
Method of Application:	Stationary Sprinklers

BIOSOLIDS TREATMENT & HANDLING

21. **Aerobic Digestion**

A. Type of Sludge:	Waste Activated Sludge
Design Flow:	42,000 gpd
Influent Solids Concentration:	0.5-1.0%
Thickened Solids Concentration:	1.0-1.5%
Average VSS Loading Rate:	2,100 lbs/day
Average VSS Destruction Rate:	Variable
Supernatant Flow:	21,000 gpd
No. of Digester Tanks:	1
Tank Volume:	462,000 gal.
Tank Depth:	15 feet
Hydraulic Detention Time:	12-15 days
Solids Retention Time:	15-18 days
Type of Mixing:	Coarse Bubble Aeration
Type of Diffusers:	Coarse Bubble
Number of Diffusers:	144
Diffuser Capacity:	8.6 cfm
Aeration Capacity:	1,240 cfm
Blowers:	Shared with Activated Sludge Process. Refer to 3A above.

B. Type of Sludge:	Waste Activated Sludge
Design Flow:	54,000 gpd
Influent Solids Concentration:	0.5-1.0%
Thickened Solids Concentration:	1.0-1.5%
Average VSS Loading Rate:	2,900 lbs/day
Average VSS Destruction Rate:	Variable
Supernatant Flow:	21,000 gpd
No. of Digester Tanks:	1
Tank Volume:	489,000 gal.
Tank Diameter:	70 feet
Tank Depth:	17 feet
Hydraulic Detention Time:	9-12 days
Solids Retention Time:	12-15 days
Type of Mixing:	Aeration/Mechanical
No. of Aerators:	2
Type:	Submersible, Self-Aspirating
Aeration Capacity:	435 cfm

22. **Biosolids Drying Beds**

No. of Beds:	20
Design Flow:	12,000 gal/bed
Bed Area:	800 ft^2

Solids Loading Rate:	
Design	1.9 lbs/ft^2/day
Maximum	2.5 lbs/ft^2/day
Typical Drying Time:	10-20 days
Incoming Solids Concentration:	1.0-1.5%
Cake Solids:	20-50%
Type of Media:	Sand w/Underdrains

23. **Belt Filter Press**

No. of Units:	1
Type:	High Pressure
Size:	2.2 meter
Operation:	1 shift/day, 5 days/week
Hydraulic Loading:	200 gpm
Feed Solids Concentration:	0.7 to 1.5%
Solids Loading:	1,000 lbs/hr
Solids Recovery Rate:	95%
Polymer Use:	8-12 lbs/Ton-Dry Solids
Cake Solids:	11-15%
No. of Wash Water Pumps:	2
Type:	End Suction Centrifugal
Pump Size:	15 hp
Pump Capacity:	100 gpm @ 220' TDH
Wash Water Pressure:	100 psig
No. of Sludge Feed Pumps:	2
Type:	Centrifugal
Pump Size:	10 hp
Pump Capacity:	100 gpm

24. **Polymer Feed System**

No. of Units:	1
Type:	Stranco Polyblend
Capacity:	108 lbs/day
Feed Rate Capacity:	4.5 gal/hr of 1-2% Polymer Solution
Type of Polymer:	Cationic
Polymer Storage:	Portable Tote Containers

APPENDIX B

FIELD PERFORMANCE EVALUATION REPORT

City of Apopka Water Reclamation Facility

PREFACE

The information for the *Field Performance Evaluation Report* was obtained from visits to the facility site, discussions with Mr. Jerry Bowser, Chief Operator, and O&M staff, and a review of available record drawings, specifications and maintenance/equipment logs.

The Apopka Water Reclamation Facility (WRF) has a permitted capacity of 4.5 MGD and a disposal capacity of 19.8 MGD. The Apopka WRF consists of two treatment trains with a common preliminary treatment structure. Biological treatment is provided in Treatment Train No. 1 by a facility manufactured by Walker Process Equipment. Secondary treatment and high level disinfection is provided by the complete mix activated sludge process followed by Dyna-Sand filters and chlorination. Treatment Train No. 2 was added as part of a plant expansion in 1989-1990. Advanced secondary treatment and high level disinfection is accomplished using the Carrousel™ activated sludge process, Dyna-Sand filters and chlorination. The combined trains have a permitted capacity of 4.5 MGD.

The current average daily flow for the Apopka WRF is approximately 2.6 MGD. Presently, both treatment trains are online.

Process A

FINE BAR SCREEN/PRETREATMENT STRUCTURE

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow: 4.5 MGD Type: Mechanically Cleaned

Current ADF: 2.6 MGD No. of Units: 1

Peak Flow: 9.0 MGD Unit Capacity: 9 MGD

Screening Volume: 14 ft^3/day Opening Size: 6 mm

QUESTION	YES	NO	N/A
Is the screen operable?	X		
Is the screen used regularly?	X		
Is the screen self-cleaning?	X		
Does the screen operate automatically?	X		
Is there a bypass?	X		
Does the bypass have a bar screen? If yes, what type? ***Manually cleaned, coarse bar screen.*** If yes, what size is the bar screen? ***2.5 feet wide.*** If yes, what is the bar spacing? ***6 mm.***	X		
Does the screen remove both coarse and fine material?	X		
Is there a screenings conveyor?		X	
Does it work?			X
Does it operate automatically?			X
If there is no discharge conveyor, how are the screenings handled?	*Screenings are discharged to an apron which funnels the material to a chute. The receiving hopper is located directly below the fine bar screen.*		
Does the discharge chute extend to the receiving hopper?	X		
If the screen is enclosed, is the structure properly ventilated?	X		
Are there adequate safety provisions?	X		
Is the screen checked daily?	X		
Does the facility have an alarm system?	X		
What conditions are monitored?	*ON/OFF Status; Screen Failure; High Water Level; Drive Overload*		
Is the screen remotely monitored?	X		
Are there odor problems?		X	
Have measures been taken to control odor? If yes, what measures have been taken?	X		

Air goes to an odor control system scrubber; Discharge chute for screenings; Screen is enclosed; Screenings are limed and stored in a dumpster; Masking agents are used.			
How are the screenings handled?	*Discharged to a receiving hopper. Screenings are limed and stored until disposal in the County landfill.*		
What is the disposal method?	*Hauled to the County landfill.*		
Is this disposal method satisfactory?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the manufacturer's O&M manual.*		
What is the general condition of the fine screening system?	*Excellent. The mechanical bar screen received a complete rehabilitation in 2010.*		
What are the most common problems the operator has encountered with the screening system?	*None.*		
What are the maintenance needs for the fine raw sewage bar screen and odor control system?	*The mechanical bar screen received a rehabilitation in 2010.* 1) *The odor scrubber tower base needs replaced.* 2) *The influent splitter gate to Plant #2 needs repaired.* 3) *The influent channels need to be re-lined to protect the concrete from H_2S damage.*		

Process B

GRIT REMOVAL

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	4.5 MGD	Grit Washer Type:	Wemco "Hydrogritter"
Current ADF:	2.6 MGD	Capacity:	32 ft^3/day
Peak Flow:	9.0 MGD	Screw Conveyor Dia.:	12 inches
Grit Volume:	14 ft^3/day	Flow:	220 gpm
Type of Unit:	"Pista" System	No. of Grit Pumps:	2
No. of Units:	1	Type:	Centrifugal
Tank Volume:	3,800 gal.	Capacity:	300 gpm
Tank Diameter:	12 ft.	Size:	10 hp
Detention Time:	73 sec.		

QUESTION	YES	NO	N/A
Are the components operable?	X		
Does the grit collection equipment operate automatically?	X		
Does the grit collector operate continuously?	X		
Is there a bypass?	X		
Does the influent channel equally divide the flows to each grit unit?			X
Is grit flow conveyed to the washer by a pump? If yes, what type? ***Wemco horizontal, dry pit centrifugal pump with a recessed impeller.***	X		
If pumped, is the pump(s) operable?	X		
Is there a backup grit pump?	X		
Is the backup pump exercised regularly?	X		
Are the grit pumps operated equally?	X		
Is the grit removal unit properly ventilated?	X		
Is the grit washed and dewatered before disposal? If yes, is the grit washer operating properly? ***Yes.*** If yes, is the grit washer used? ***Yes.***	X		
Is the dewatered grit conveyed by gravity?	X		
How is the grit handled?	*The grit is washed and dewatered prior to disposal in a dumpster.*		
What is the disposal method?	*Hauled to a landfill.*		

Is this disposal method satisfactory?	X		
Does the grit facility have an alarm system?	X		
Is the alarm system working?	X		
Is the process remotely monitored?		X	
Are there adequate safety provisions?	X		
Are there odor problems?		X	
What measures have been taken to minimize odors?	*Discharge chute; Grit is limed; Air is discharged to odor control system; Use of masking agents.*		
What is the efficiency of the grit removal unit?	*Removes 95% of grit on a U.S. Sieve No. 50 and 65% of grit on a U.S. Sieve No. 100.*		
Are the grit facilities checked daily?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the manufacturer's O&M manual.*		
What is the general condition of the grit removal facilities?	*Grit Unit – Good.* *Grit Washer – Good.*		
What are the most common problems the operator has had with the grit removal facilities?	*Grit being washed out of the unit. Clogging of grit pumps.*		
What are the maintenance needs for the grit remover?	1) *Grit pumps need rebuilt/rehabilitated.* 2) *Re-install cover on gear drive of grit collector.* 3) *Panel box for grit collector needs replaced with powder coated aluminum.* 4) *Repair concrete base for grit pump #1.* 5) *Repair or replace lighting throughout pretreatment area.* 6) *Replace lighting panel boxes with powder coated aluminum.*		

Process C-1

ACTIVATED SLUDGE PROCESS
(Treatment Train No. 1)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.0 MGD	No. of Blowers:	3
Current ADF:	0.695 MGD	Type:	Centrifugal
Peak Flow:	4.0 MGD	Size:	100 hp
Type of Process:	Complete Mix	Capacity:	2,200 cfm each
No. of Basins:	1	Pressure :	7.0 psig
Basin Volume:	0.462 MG	Aeration Rate:	6.27 cfm/1,000 gal.
Detention Time:	5.5 hr.	Type of Diffusers:	Coarse Bubble
MLSS Concentration:	4,000 mg/L	No. of Diffusers:	128
Solids Retention: Time	5.5 days	No. of RAS Pumps:	1
F/M Ratio:	0.1 – 0.2	Type of Pump:	Air Lift
Recirculation Rate:	100%	Pump Capacity:	1,388 gpm

NOTE: The wastewater treatment facility has a common influent force main and pretreatment structure with a fine bar screen and grit chamber, and two separate treatment trains. One treatment train has conventional activated sludge, and the other has the Carrousel™ process.

QUESTION	YES	NO	N/A
What is the color of the biomass?			
Black ( ) Dark Brown ( ) Light Brown (**X**) Other ( )			
What is the odor of the biomass?	X		
Septic ( ) Earthy (**X**) Musty ( ) Other ( )			
Is there foam in the air bay?	X		
Is there an excessive amount of foam in the air bay?		X	
What is the condition of the foam?			
Light, Crisp (**X**) Thick, Dark ( ) Thick, Stiff ( ) Heavy, White ( ) Other ( )			
Is the process operating in its design mode?	X		
Is more than one type of aerator used?		X	
What types of aeration is/are used?	*Coarse bubble air diffusion.*		
What types of diffusers are used?	*Walker Process "Duosparg" Assembly.*		

How many diffusers are in the air bay?	*128*		
What is the capacity of each diffuser?	*22.6 scfm*		
What is the design efficiency of the coarse bubble diffusers?	*8 – 10%*		
Where are the diffusers located?	*Throughout the single aeration basin.*		
Are the diffusers operable?	X		
Are the diffusers cleaned on a regular basis?	X		
Are tank contents mixed thoroughly?	X		
Does mixing appear excessive?		X	
Does there appear to be dead spots in aeration tank?		X	
What type of RAS pumps are used?	*Air Lift Design*		
Are the RAS pumps variable speed?			X
Are the RAS pumps operating properly?	X		
Is there a backup pump?		X	
Is the backup pump operable?			X
What is the average down time?	*Minimal*		
Are the pumps operated equally?			X
Is there a flow measurement device for the RAS system?		X	
Does the aeration basin have a foam control system?		X	
Is there a scum collection system?	X		
Is the scum collection system operating properly?	X		
Is there an excessive accumulation of scum?		X	
Is process operation computer controlled?		X	
Is the blower room adequately ventilated?	X		
Are the blowers operating as specified?	X		
Is there a backup unit?	X		
Is the backup unit operable?	X		
Are the blowers used equally?	X		
Are blowers provided with inlet air filters?	X		
Are the filters adequate for type of aeration provided?	X		
Are the filters checked and maintained regularly?	X		
Is there an alarm system for the blowers? If yes, is the alarm system working? ***Yes.***	X		
What conditions are monitored?	*Blower Surge*		
Are the blowers remotely monitored?		X	
Is there a generator available for emergency operation?	X		
Are there leaks in the air piping?		X	
Is the pressure monitored in the air piping?	X		
Are the pressure gauges operable?	X		
Are the facilities checked each shift?	X		
Is the DO checked each shift?	X		
What average DO concentration is maintained?	*Aeration is staged to create an anoxic zone for denitrification. Generally, DO is 1.0 to 2.0 mg/L.*		
Does the activated sludge process have an alarm system?		X	
Is the process remotely monitored?		X	

Is there short-circuiting in the air bay?		X	
Is the aeration tank are provided with adequate safety features?	X		
Are ear plugs available?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the manufacturer's O&M manual.*		
What is the general condition of the aeration basin?	*Good*		
What is the general condition of the blowers?	*Good*		
What is the general condition of the diffusers?	*Good*		
What is the general condition of the RAS pumps and other mechanical equipment?	*Good*		
What are the most common problems the operator has had with the conventional activated sludge system, RAS pumps, and blowers?	*Foaming and lightning strikes*		
What are the maintenance needs for the conventional activated sludge process?	*None at this time.*		

Process C-2

ACTIVATED SLUDGE PROCESS
(Treatment Train No. 2)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.5 MGD	Type of Pump:	Centrifugal
Current ADF:	??? MGD	Pump Size:	20 hp
Peak Flow:	5.0 MGD	Pump Capacity:	350-1,400 gpm each
Type of Process:	Carrousel™	RAS Concentration:	0.5 – 1.0 %
No. of Basins:	2	No. of Mechanical Aerators:	2
Detention Time:	9.6 hr.	Size of Aerators:	75 hp
MLSS Concentration:	4,000 mg/L	No. of Diffusers:	128
Solids Retention: Time	8–9 days	Oxygen Transfer Rate:	Up to 315 lbs-O_2/hr.
F/M Ratio:	0.1 – 0.2	Recirculation Rate:	60 - 100%

QUESTION	YES	NO	N/A
What is the color of the biomass?			
Black ( ) Dark Brown ( ) Light Brown (**X**) Other ( )			
What is the odor of the biomass?	X		
Septic ( ) Earthy (**X**) Musty ( ) Other ( )			
Is there foam in the air bay?	X		
Is there an excessive amount of foam in the air bay?		X	
What is the condition of the foam?			
Light, Crisp ( ) Thick, Dark ( ) Tan, Thick, Stiff (**X**) Heavy, White ( ) Other ( )			
Is the process operating in its design mode?	X		
Is more than one type of aerator used?		X	
How many mechanical aerators are in each air bay?	*One*		
Is there a backup mechanical aerator?		X	
Are diffusers used with a mechanical aerator in the same air bay?		X	
Are tank contents mixed thoroughly?	X		
Does the mixing appear excessive?		X	
Does there appear to be dead spots in aeration tank?		X	
What is the type of RAS pumps?	*Centrifugal*		

Are the RAS pumps variable speed?	X		
If yes, what type of variable speed device is used?	*VFD*		
Are the RAS pumps operating properly?	X		
Is there a backup pump?	X		
Is the backup pump operable?	X		
What is the average down time?	*Minimal*		
Are the pumps operated equally?	X		
Is the pump station adequately ventilated?	X		
Is there a flow measurement device for the RAS system?	X		
If yes, what type?	*Magnetic Flow Meter*		
If yes, is the flow measurement device operable?	X		
How often are the devices calibrated?	*According to the manufacturer's O&M manual.*		
Are flow records maintained for the RAS system?	X		
If yes, are the flow records adequate for the RAS system?	X		
Do the aeration basins have a foam control system?	X		
If yes, what type of system?	*Water Spray*		
If yes, is the system operable?	X		
Is yes, is the system used?	X		
Is there a scum collection system?		X	
Is there an excessive accumulation of scum?		X	
For multiple basins, is the flow distributed equally among the basins?	X		
How is the flow distributed?	*Weir Gates*		
Are the sludge characteristics different in the various basins?		X	
Is the process operation computer controlled?		X	
Is there a generator available for emergency operation?	X		
Is the process checked each shift?	X		
Is the DO checked each shift?	X		
What average DO concentration is maintained?	*DO concentration at outlet is regulated to 0.1 mg/L to promote denitrification.*		
Have process monitoring stations been established?	X		
If yes, are samples routinely collected at the process monitoring stations?	X		
Are process evaluations conducted on a regularly scheduled basis?	X		
Are process operating parameters determined at least daily?	X		
Are the process operations altered in response to changes in the flow characteristics and the weather?	X		
Does the process have an alarm system?	X		
Is the process remotely monitored?	X		
What conditions are monitored?	*Low aerator gear drive oil level failure*		
Is there short-circuiting in the air bays?		X	
Is the process area provided with adequate safety features?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		

How often is maintenance scheduled?	*According to the manufacturer's O&M manual.*
What is the general condition of the aeration basins?	*Good*
Water is the general condition of the mechanical surface aerators?	*Good*
What is the general condition of the RAS pumps and other mechanical equipment?	*Good*
What are the most common problems the operators have had with the activated sludge system?	*Accumulation of grease*
What are the maintenance needs for the Carrousel™ activated sludge process?	1) *Repair the concrete damage at the NW corner of the East aeration effluent splitter box.* 2) *Repair or replace sprayers/misters for foam control.* 3) *Install safety life rings at the Carrousel™ aeration basin.*

Process D-1

SECONDARY CLARIFIERS
(Treatment Train No. 1)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.0 MGD	Surface Area:	5,345 sq. ft.
Current ADF:	0.695 MGD	Surface Loading Rate:	274 gpd/ft^2
Peak Flow:	4.0 MGD	Weir Length:	260 ft.
Type:	Circular	Weir Overflow Rate:	7,717 gpd/ft.
Diameter:	82.5 ft.	Type of Sludge Pumps:	Air Lift
Depth:	11.5 ft.	No. of Pumps:	1
No. of Tanks:	1	Sludge Withdrawal Rate :	1,388 gpm
Tank Volume:	460,000 gal.	Detention Time:	5.5 hr.

QUESTION	YES	NO	N/A
Is chemical addition used?		X	
Doe the influent baffle system accomplish its purpose?	X		
Is there a scum collection system?	X		
Is the scum collection system operating properly?	X		
Is the scum collection system used?	X		
Is there an excessive accumulation of scum?		X	
Is the scum handling system checked daily?	X		
Where is the collected scum discharged?	*Aerobic Digester*		
Is this handling method satisfactory?	X		
What type of sludge collection system is used?	*Dual collector with full radius rake arms and plow blades (scrapers).*		
How many sludge collection units are in each tank?	*One*		
Is the sludge collection system operating properly?	X		
Is the sludge blanket well defined?	X		
Does the sludge collection system show any signs of mechanical failure?		X	
Does the sludge collection system remove sludge evenly from the clarifier?	X		
How does the sludge return operate?	*A single air lift pump returns sludge to the activated sludge process.*		

Is the sludge return automatic?	X		
Is the sludge return continuous?	X		
Can the sludge return rate be varied?	X		
Is the recirculation rate variable?	X		
Is the settlability of the sludge good?	X		
What factors affect the settlability of the sludge?	*Temperature, MLSS Concentrations, Wastewater Characteristics*		
Does the tank surface indicate improper sludge withdrawals?		X	
What type of pumps are used for the WAS?	*The RAS Air Lift Pump is used to waste sludge to the aerobic digester. The WAS flow is diverted using a solenoid valve which is controlled with a timer.*		
Are the WAS pumps variable speed?			X
Are the WAS pumps operating properly?	X		
Is there a backup pump?		X	
What is the average down time?	*Minimal*		
Are the pumps operated equally?			X
Is there a flow measurement device for the WAS system?		X	
How often is the device calibrated?	*WAS flow is estimated*		
Are flow records maintained for the WAS system?	X		
Are the flow records adequate?	X		
Does the effluent baffle system accomplish its purpose?	X		
Are the effluent weirs level?	X		
Are the effluent weirs kept clean?	X		
Are there settleable solids in the effluent?		X	
If multiple units are used, is the flow distributed evenly?			X
Does the clarifier show signs of short circuiting and/or overloading?		X	
Is there an alarm system for the clarifier and scum collection system?		X	
Is the secondary clarifier remotely monitored?		X	
Is the secondary clarifier checked daily?	X		
Is the secondary clarifier monitored routinely?	X		
Are operating records adequate?	X		
Are there adequate safety provisions?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the O&M Manual*		
What is the general condition of the mechanical equipment?	*Fair to Good*		
What is the general condition of the scum collection system?	*Fair to Good*		
What are the most common problems the operators have had with the clarifiers?	*None*		
What are the maintenance needs for the secondary clarifier?	*None at this time*		

Process D-2

SECONDARY CLARIFIERS
(Treatment Train No. 2)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.0 MGD	Surface Area:	3,318 sq. ft./tank
Current ADF:	1.9 MGD	Surface Loading Rate:	377 gpd/ft^2
Peak Flow:	5.0 MGD	Weir Length:	205 ft./tank
Type:	Circular	Weir Overflow Rate:	6,122 gpd/ft.
Diameter:	65 ft.	Sludge Withdrawal Rate:	350-1,400 gpm
Depth:	12 ft.	No. of Tanks:	2
Tank Volume:	300,000 gal./tank	Detention Time:	5.7 hr.

QUESTION	YES	NO	N/A
Is chemical addition used?		X	
Doe the influent baffle system accomplish its purpose?	X		
Is there a scum collection system?	X		
Is the scum collection system operating properly?	X		
Is the scum collection system used?	X		
Is there an excessive accumulation of scum?		X	
Is the scum handling system checked daily?	X		
Where is the collected scum discharged?	*Aerobic Digester*		
Is this handling method satisfactory?	X		
What type of sludge collection system is used?	*Dual collector with full radium rake arms and plow blades (scrapers)*		
How many sludge collection units are in each tank?	*One*		
Is the sludge collection system operating properly?	X		
Is the sludge blanket well defined?	X		
Does the sludge collection system show any signs of mechanical failure?		X	
Does the sludge collection system remove sludge evenly from the clarifier?	X		
How does the sludge return operate?	*Pumped back to the activated sludge process*		
Is the sludge return automatic?	X		
Is the sludge return continuous?	X		

Can the sludge return rate be varied?	X		
Is the recirculation rate variable?	X		
Is the settlability of the sludge good?	X		
What factors affect the settlability of the sludge?	*Temperature, MLSS Concentrations, Wastewater Characteristics*		
Does the tank surface indicate improper sludge withdrawals?		X	
What type of pumps are used for the WAS?	*The RAS pumps are used to waste sludge to the aerobic digester. Operators use motorized valves to divert the flow to the digester.*		
Are the WAS pumps variable speed?			X
Are the WAS pumps operating properly?	X		
Is there a backup pump?	X		
What is the average down time?	*Minimal*		
Are the pumps operated equally?	X		
Is there a flow measurement device for the WAS system?	X		
If yes, what type?	*Doppler Flow Meter*		
If yes, is the flow measurement device operable?	X		
How often is the device calibrated?	*According to the manufacturer's O&M manual.*		
Are flow records maintained for the WAS system?	X		
Are the flow records adequate?	X		
Does the effluent baffle system accomplish its purpose?	X		
Are the effluent weirs level?	X		
Are the effluent weirs kept clean?	X		
Are there settleable solids in the effluent?		X	
If multiple units are used, is the flow distributed evenly?	X		
Does the clarifier show signs of short circuiting and/or overloading?		X	
Is there an alarm system for the clarifier and scum collection system?	X		
If yes, is the alarm system working?	X		
What conditions are monitored?	*Torque overload*		
Are the secondary clarifiers remotely monitored?	X		
Is the secondary clarifier checked daily?	X		
Is the secondary clarifier monitored routinely?	X		
Are operating records adequate?	X		
Are there adequate safety provisions?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the O&M Manual*		
What is the general condition of the mechanical equipment?	*Good*		
What is the general condition of the scum collection system?	*Good*		
What are the most common problems the operators have had with the clarifiers?	*Grease/Scum Accumulation*		
What are the maintenance needs for the secondary clarifier?	1) *Replace RAS flowmeter*		

	due to defective analog output. 2) *Purchase a new WAS valve actuator as a spare, as parts are no longer available for the existing obsolete actuator.* 3) *Install safety life rings at each clarifier.* 4) *Scum pit pumps need replaced. Grinder pumps have become ineffective with the scum to be pumped.*

Process E-1

FILTERS
(Treatment Train No. 1)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.25 MGD	Surface Area:	100 sq. ft./filter
Peak Flow:	4.5 MGD	Surface Loading Rate:	3.2 gpm/ft^2
Current ADF:	2.6 MGD	Design Peak:	6.4 gpm/ft^2
Peak Flow:	4.3 MGD	Backwash Rate:	10 gpm/ft^2
Minimum Flow:	0.1 MGD	Backwash Cycle:	Continuous
Type of Filter:	Dyna-Sand	No. of Compressors:	2
No. of Filter Units:	5	Size:	20 hp
No. of Modules per Filter Unit:	2	Capacity:	77 scfm
Type of Media:	Sand/Anthracite	Operating Pressure:	110 psi
Media Depth:	40 in.	Air Use:	5 scfm/filter

QUESTION	YES	NO	N/A
Is the process operating in its design mode?	X		
Are multiple units used?	X		
If yes, is the flow distributed evenly?	X		
Do the units show signs of short circuiting?		X	
Do the filters appear to be overloaded?		X	
Do the filters appear to be clogged?		X	
Does it appear that the media is leaking into the filter effluent?		X	
Are the filters inspected on a regular basis?	X		
Are the filters cleaned periodically?	X		
Is the media replaced periodically?	X		
Is there a chemical feed system?	X		
Is the chemical feed system operating?	X		
Is the chemical feed system used?	X		
Why is chemical addition used?	*Chemical feed system is designed to improve the removal of suspended solids. The system is not currently being used.*		

Is chemical addition necessary to meet the effluent standards for TSS or turbidity?		X	
What chemical is used?	*Aluminum sulfate or polymer. No chemical is currently in use.*		
Is there a rapid-mix chamber for chemical addition?		X	
Is a polymer feed system used for chemical addition?	X		
If yes, what type?	*Stranco Polyblend*		
Is the polymer feed system in operating condition?	X		
Is there a backup polymer feed system?		X	
Is wash water provided?		X	
If not, how is the wash water provided?	*Reclaimed Water*		
Are the filters backwashed continuously?	X		
Is the backwash system operating properly?	X		
Is the backwash system used?	X		
If yes, is there a backup backwash system?		X	
Is compressed air used?	X		
If yes, describe the compressor?	*Rotary screw type design*		
Is the compressor operable?	X		
Is the compressor used?	X		
What are the operating conditions?	*77 scfm @ 110 psig*		
Why is compressed air used?	*To operate the backwash system*		
Does the air compressor have adequate capacity?	X		
Is there a backup air compressor?	X		
Is the backup air compressor operable?	X		
Are the air compressors used equally?	X		
Is the incoming air filtered?	X		
If yes, are the inlet filters changed regularly?	X		
Are the air compressors equipped with silencers?	X		
Is there an air dryer?	X		
Is the air dryer operable?	X		
Is the air dryer used?	X		
Does the air receiver tank have a condensate trap and drain?	X		
If yes, is condensate drained from the tank regularly?	X		
Where is the condensate discharged?	*Floor drain which is connected to the plant sewer system.*		
Are there any leaks in the air piping?		X	
Is backwash water returned to the process stream?	X		
If yes, where?	*Preliminary treatment structure*		
Is there a backwash holding facility?		X	
If not, how is the backwash water handled?	*Backwash water flows by gravity from the filters to the plant lift station, which pumps it to the preliminary treatment structure.*		
Is there a bypass for the filters?	X		

Are the filters covered?		X	
If no, are there problems with algae growth?		X	
If yes, is the filter facility properly ventilated?			X
Is the mechanical room for the filters properly ventilated?	X		
Is the facility properly and adequately lighted?	X		
Is a generator available for emergency operation?	X		
Do the filters operate automatically?	X		
Are the filter controls computer operated?		X	
If no, how?	*Mechanical setpoints*		
Does the facility have an alarm system?	X		
If yes, is the alarm system working?	X		
What alarm conditions are monitored?	*Filter Failure – high water level* *Filter Failure – low water level (clogged filter cell)*		
Are the filters monitored remotely?		X	
What effluent water quality parameters are continuously monitored?	*pH, Turbidity, and Chlorine Residual*		
Are these parameters remotely monitored?	X		
If yes, where?	*Operations Building*		
Do these monitors have alarms?	X		
If yes, what type?	*Audible/Printer/Auto-Dialer*		
Are the facilities checked once per shift?	X		
Are there adequate safety provisions?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the O&M Manual*		
What is the average down time for the filters and air compressor?	*Minimal*		
What is the overall condition of the filters?	*Excellent*		
What is the general condition of the air compressor?	*Good*		
What are the most common problems the operator has had with the filters and appurtenances?	*Splitting flow equally between the two trains of filters*		
What are the maintenance needs for the filters?	*None*		

Process E-2

FILTERS
(Treatment Train No. 2)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.25 MGD	Surface Area:	100 sq. ft./filter
Peak Flow:	4.5 MGD	Surface Loading Rate:	3.2 gpm/ft^2
Current ADF:	2.6 MGD	Design Peak:	6.4 gpm/ft^2
Peak Flow:	4.3 MGD	Backwash Rate:	10 gpm/ft^2
Minimum Flow:	0.1 MGD	Backwash Cycle:	Continuous
Type of Filter:	Dyna-Sand	No. of Compressors:	2
No. of Filter Units:	5	Size:	20 hp
No. of Modules per Filter Unit:	2	Capacity:	77 scfm
Type of Media:	Sand/Anthracite	Operating Pressure:	110 psi
Media Depth:	40 in.	Air Use:	5 scfm/filter

QUESTION	YES	NO	N/A
Is the process operating in its design mode?	X		
Are multiple units used?	X		
If yes, is the flow distributed evenly?	X		
Do the units show signs of short circuiting?		X	
Do the filters appear to be overloaded?		X	
Do the filters appear to be clogged?		X	
Does it appear that the media is leaking into the filter effluent?		X	
Are the filters inspected on a regular basis?	X		
Are the filters cleaned periodically?	X		
Is the media replaced periodically?	X		
Is there a chemical feed system?	X		
Is the chemical feed system operating?	X		
Is the chemical feed system used?	X		
Why is chemical addition used?	*Chemical feed system is designed to improve the removal of suspended solids. The system is not currently being used.*		

Is chemical addition necessary to meet the effluent standards for TSS or turbidity?		X	
What chemical is used?	*Aluminum sulfate or polymer. No chemical is currently in use.*		
Is there a rapid-mix chamber for chemical addition?		X	
Is a polymer feed system used for chemical addition?	X		
If yes, what type?	*Stranco Polyblend*		
Is the polymer feed system in operating condition?	X		
Is there a backup polymer feed system?		X	
Is wash water provided?		X	
If not, how is the wash water provided?	*Reclaimed Water*		
Are the filters backwashed continuously?	X		
Is the backwash system operating properly?	X		
Is the backwash system used?	X		
If yes, is there a backup backwash system?		X	
Is compressed air used?	X		
If yes, describe the compressor?	*Rotary screw type design*		
Is the compressor operable?	X		
Is the compressor used?	X		
What are the operating conditions?	*77 scfm @ 110 psig*		
Why is compressed air used?	*To operate the backwash system*		
Does the air compressor have adequate capacity?	X		
Is there a backup air compressor?	X		
Is the backup air compressor operable?	X		
Are the air compressors used equally?	X		
Is the incoming air filtered?	X		
If yes, are the inlet filters changed regularly?	X		
Are the air compressors equipped with silencers?	X		
Is there an air dryer?	X		
Is the air dryer operable?	X		
Is the air dryer used?	X		
Does the air receiver tank have a condensate trap and drain?	X		
If yes, is condensate drained from the tank regularly?	X		
Where is the condensate discharged?	*Floor drain which is connected to the plant sewer system.*		
Are there any leaks in the air piping?		X	
Is backwash water returned to the process stream?	X		
If yes, where?	*Preliminary treatment structure*		
Is there a backwash holding facility?		X	
If not, how is the backwash water handled?	*Backwash water flows by gravity from the filters to the plant lift station, which pumps it to the preliminary treatment structure.*		
Is there a bypass for the filters?	X		

Are the filters covered?		X	
If no, are there problems with algae growth?		X	
If yes, is the filter facility properly ventilated?			X
Is the mechanical room for the filters properly ventilated?	X		
Is the facility properly and adequately lighted?	X		
Is a generator available for emergency operation?	X		
Do the filters operate automatically?	X		
Are the filter controls computer operated?		X	
If no, how?	*Mechanical setpoints*		
Does the facility have an alarm system?	X		
If yes, is the alarm system working?	X		
What alarm conditions are monitored?	*Filter Failure – high water level* *Filter Failure – low water level (clogged filter cell)*		
Are the filters monitored remotely?		X	
What effluent water quality parameters are continuously monitored?	*pH, Turbidity, and Chlorine Residual*		
Are these parameters remotely monitored?	X		
If yes, where?	*Operations Building*		
Do these monitors have alarms?	X		
If yes, what type?	*Audible/Printer/Auto-Dialer*		
Are the facilities checked once per shift?	X		
Are there adequate safety provisions?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the O&M Manual*		
What is the average down time for the filters and air compressor?	*Minimal*		
What is the overall condition of the filters?	*Excellent*		
What is the general condition of the air compressor?	*Good*		
What are the most common problems the operator has had with the filters and appurtenances?	*Splitting flow equally between the two trains of filters*		
What are the maintenance needs for the filters?	*None*		

Process F-1

CHLORINE CONTACT TANKS
(Treatment Train No. 1)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.25 MGD	Tank Volume:	44,000 gal./each
Current ADF:	0.695 MGD	Tank Depth:	6.7 feet
Peak Flow:	4.5 MGD	No. of Mixing Chambers:	2
		Chamber Volume:	1,500 gal./each
Contact Time: (at peak flow)	28 min.	Chamber Detention Time:	29-58 sec.
Typical Chlorine Dose:	8-12 mg/L	No. of Mixers:	2
Average Chlorine Residual:	1.4-2.5 mg/L	Mixer Hp:	2

Type of Chlorination System: Liquid Sodium Hypochlorite

QUESTION	YES	NO	N/A
Are disinfection standards being met?	X		
Is there a backup chlorination unit?	X		
Is the contact basin adequately baffled to minimize short circuiting?	X		
Is the contact tank covered?		X	
If the tank is open, what provisions have been made for algae control?	*Shock treatment with dry, granular chlorine and routine cleaning*		
Is the chlorine introduced into the contact tank with an injector at a single entry point?	X		
Have provisions been made for mechanical mixing in the basin design?	X		
Is the mixer operable?	X		
Is the mixer used?	X		
Is there a backup mixer?	X		
Is the backup mixer operable?	X		
Is there a separate mixing chamber?	X		
Is the mixing chamber used?	X		
Is there a bypass?		X	
Is the plant equipped with automatic chlorine leak detectors and audible alarms in critical areas?	X		
Are the leak detectors operable?	X		

Are the leak detectors and audible alarms checked regularly?	X		
Is the chlorine residual monitored automatically?	X		
Does the chlorine residual monitor have an alarm system?	X		
What conditions are monitored?	*Low and high chlorine residual*		
Is the chlorine residual remotely monitored?	X		
How is the chlorine feed controlled?	*Flow Proportioning*		
Are other chemicals added besides chlorine?		X	
Are the facilities checked once per shift?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the manufacturer's O&M manual*		
Have proper safety procedures been established?	X		
Have adequate safety measures been implemented?	X		
Are safety goggles available in the chlorination building?		X	
Have the operators been trained using the safety procedures and equipment?	X		
Are the safety precautions used?	X		
Is a respirator available near the chlorine storage area?	X		
Is the respirator operable?	X		
Is the respirator inspected regularly?	X		
Are operating records adequate?	X		
What is the general condition of the chlorine contact tanks?	*Good*		
What are the most common problems the operator has had with the chlorine contact tanks?	*Algae growth*		
What are the maintenance needs for the chlorine contact tanks?	1) *Re-epoxy coat the contact chambers.* 2) *Replace fiberglass monitoring equipment buildings.*		

Process F-2

CHLORINE CONTACT TANKS
(Treatment Train No. 2)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	2.25 MGD	Tank Volume:	44,000 gal./each
Current ADF:	1.9 MGD	Tank Depth:	6.7 feet
Peak Flow:	4.5 MGD	No. of Mixing Chambers:	2
		Chamber Volume:	1,500 gal./each
Contact Time: (at peak flow)	28 min.	Chamber Detention Time:	29-58 sec.
Typical Chlorine Dose:	8-12 mg/L	No. of Mixers:	2
Average Chlorine Residual:	1.4-2.5 mg/L	Mixer Hp:	2

Type of Chlorination System: Liquid Sodium Hypochlorite

QUESTION	YES	NO	N/A
Are disinfection standards being met?	X		
Is there a backup chlorination unit?	X		
Is the contact basin adequately baffled to minimize short circuiting?	X		
Is the contact tank covered?		X	
If the tank is open, what provisions have been made for algae control?	*Shock treatment with dry, granular chlorine and routine cleaning*		
Is the chlorine introduced into the contact tank with an injector at a single entry point?	X		
Have provisions been made for mechanical mixing in the basin design?	X		
Is the mixer operable?	X		
Is the mixer used?	X		
Is there a backup mixer?	X		
Is the backup mixer operable?	X		
Is there a separate mixing chamber?	X		
Is the mixing chamber used?	X		
Is there a bypass?		X	
Is the plant equipped with automatic chlorine leak detectors and audible alarms in critical areas?	X		
Are the leak detectors operable?	X		

Are the leak detectors and audible alarms checked regularly?	X		
Is the chlorine residual monitored automatically?	X		
Does the chlorine residual monitor have an alarm system?	X		
What conditions are monitored?	*Low and high chlorine residual*		
Is the chlorine residual remotely monitored?	X		
How is the chlorine feed controlled?	*Flow Proportioning*		
Are other chemicals added besides chlorine?		X	
Are the facilities checked once per shift?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance scheduled?	*According to the manufacturer's O&M manual*		
Have proper safety procedures been established?	X		
Have adequate safety measures been implemented?	X		
Are safety goggles available in the chlorination building?		X	
Have the operators been trained using the safety procedures and equipment?	X		
Are the safety precautions used?	X		
Is a respirator available near the chlorine storage area?	X		
Is the respirator operable?	X		
Is the respirator inspected regularly?	X		
Are operating records adequate?	X		
What is the general condition of the chlorine contact tanks?	*Good*		
What are the most common problems the operator has had with the chlorine contact tanks?	*Algae growth*		
What are the maintenance needs for the chlorine contact tanks?	*Re-epoxy coat the contact chambers*		

Process G

RECLAIMED WATER TRANSFER PUMP STATION

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	4.5 MGD	No. of Pumps:	6
Current ADF:	2.6 MGD	Type of Pump:	Vertical Turbine
Peak Flow:	8.0 MGD	Pump Size:	3 @ 20 hp 3 @ 20 hp
Operating Head:	42-44 ft.	Pump Capacity:	1,400 gpm/each

QUESTION	YES	NO	N/A
Are the pumps operable?	X		
Is there a backup pump?	X		
Is the backup pump operable?	X		
Is the backup pump operated regularly?	X		
Are the pumps variable speed?		X	
If a constant speed station, does it affect the operation of downstream facilities when each pump is activated?		X	
Are the pumps operated equally?	X		
Are control systems operable?	X		
Are the pumps remotely monitored?	X		
Does the facility have an alarm system?	X		
Is the alarm system working?	X		
What conditions are monitored?	*High Water Level; Pump Failure*		
Does the wet well have a level indicating system?	X		
Is the system operable?	X		
What type of system is used?	*Submersible Pressure transducer*		
What conditions are monitored?	*Lead pump water level; Lag pump water levels; Alarm for high water level*		
Is there an emergency generator?	X		
Is the emergency generator operable?	X		
Does the emergency generator have sufficient capacity?	X		
Does the pumping station have a bypass?	X		
If yes, how does it operate?	*Excess reclaimed water automatically overflows a weir structure and is diverted to the reuse water holding ponds by gravity flow*		
Is the bypass operable?	X		

Is the bypass used?	X		
If yes, can the bypass be disinfected?			X
If the reclaimed water is of unacceptable quality, can the flow be diverted to the emergency holding ponds?	X		
How is the flow discharged to the emergency holding ponds?	*Gravity*		
Can the water be returned from the emergency holding ponds to the treatment plant?	X		
Can the wet well and pumps be isolated for maintenance?	X		
Does this affect the capacity of the pump station?		X	
Is there equal division of flow to each pumping unit?	X		
What residual is maintained in the reclaimed water sent to the reclaimed water storage tanks?	*>1.0 mg/L*		
Does the station have proper ventilation?	X		
Are there adequate safety provisions?	X		
Is the pump station checked daily?	X		
Are adequate spare parts available?	X		
What is the average down time for a pump?	*Minimal*		
Is the maintenance program adequate?	X		
How frequent is maintenance scheduled?	*According to the manufacturer's O&M manual*		
What is the overall condition of the pump station?	*Good*		
What is the overall condition of the pumps?	*Good*		
What are the most common problems the operator has had with the chlorine contact tanks?	*Lightning strikes*		
What are the maintenance needs for the chlorine contact tanks?	*PLC controls need to be re-located into an air conditioned environment and the HMI replaced*		

Process H

RECLAIMED WATER STORAGE TANKS

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

No. of Tanks: 3 MGD Tank Diameter 2 @ 85 ft.
1 @ 120 ft.

Type: Prestressed Concrete

Storage Volume: 2 @ 1 MG/tank
1 @ 2 MG/tank

QUESTION	YES	NO	N/A
Are the control systems and mechanical equipment operable?	X		
Does the tanks have a level indicating system?	X		
Is the backup pump operable?	X		
What type of level indicating system is used?	*Calibrated Pressure Sensor; Ultrasonic*		
Does the facility have an alarm system?	X		
Is it operable?	X		
What conditions are monitored?	*High water level; Low water level*		
Are the storage tanks remotely monitored?	X		
If yes, how?	*Level transmitters send a signal to the PLC in the Reclaimed Water Pump Station MCC room, which re-transmits the signal to the SCADA system*		
Are the transmitters operable?	X		
How frequently are they calibrated?	*According to the manufacturer's O&M manual.*		
Are the tank valves operable?	X		
Does the storage tanks have a bypass?	X		
Can the bypass flow be chlorinated?		X	
Are there provisions to chlorinate the reclaimed water inside the storage tanks?		X	
Do the storage tanks have lightning protection?	X		
If yes, what type?	*Lightning strikes between the rods*		
Are there adequate safety provisions?	X		
Are the storage tanks checked daily?	X		
Are there adequate spare parts for the control system, level indicator, valves and mechanical equipment?		X	
How often is maintenance scheduled?	*According to the*		

	manufacturer's O&M manual.		
Is the maintenance program adequate?	X		
What is the general condition of the storage tanks?	*Good*		
What are the most common problems the operator has had with the storage tank facility?	*Lightning strikes*		
What are the maintenance needs for the reclaimed water storage tanks?	1) *Inspect the structural integrity of the tanks on a regular basis.* 2) *Replace the level sensing pressure transmitters on GST #1 & #2 with ultrasonic transmitters.*		

Process I

RECLAIMED WATER PUMP STATION

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow: 4.0 MGD

Current ADF: 2.6 MGD

Peak Flow: 15.552 MGD

No. of Pumps: 6

Type of Pumps: Vertical Turbine

Operating Head: 4 @ 252 ft.
2 @ 234 ft.

Pump Size: 4 @ 125 hp
2 @ 200 hp

Pump Capacity: 4 @ 1,400 gpm
2 @ 2,600 gpm

QUESTION	YES	NO	N/A
Are the reuse pumps operable?	X		
Is there a backup reuse pump?	X		
Is the backup reuse pump operable?	X		
Is the backup reuse pump exercised regularly?	X		
Are the reuse pumps variable speed?	X		
Are the reuse pumps operated equally?	X		
Is there equal division of flow to each pump?	X		
Does the reuse pump station have an alarm system?	X		
Is the alarm system working?	X		
What alarm conditions are monitored?	*Low discharge pressure; Reuse pump failure; High pressure in the distribution system*		
Is the reuse system remotely monitored?	X		
Is there an emergency generator?	X		
Is the emergency generator operable?	X		
Does it have sufficient capacity?			X
Does the reuse pump station have a portable pump connection?		X	
Does the reuse pump station have a bypass?	X		
If yes, describe?	*Reclaimed water can be discharged to the reclaimed water holding ponds*		
If yes, can the bypass flow be disinfected?	X		

Can the reuse pumps be isolated for maintenance?	X		
Does this affect the capacity or operation of the reuse pump station?		X	
Are adequate spare parts available?	X		
Is the reuse pump station properly ventilated?	X		
Are there adequate safety provisions?	X		
Water is the average down time for the reuse pumps?	*Minimal*		
Is the maintenance program adequate?	X		
How frequent is maintenance scheduled?	*According to the manufacturer's O&M manual*		
What is the overall condition of the reuse pump station?	*Good – Excellent*		
What is the overall condition of the reuse pumps?	*Good – Excellent*		
What are the most common problems the operator has experienced with the reuse pump station?	*Lightning strikes*		
What are the maintenance needs for the reuse pump station?	*Institute a valve exercise program*		

Process J

RECLAIMED WATER DISTRIBUTION SYSTEM

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

QUESTION	YES	NO	N/A
What type(s) of application is being used?	*Public Access Irrigation*		
What level of treatment is being provided?	*Secondary with Tertiary Filtration*		
What level of disinfection is being provided?	*High level disinfection per FDEP Permit Requirements*		
What is the permitted capacity of the reclaimed water distribution system?	*19.8 MGD AADF*		
Is there a FDEP-approved cross connection control program covering the areas served by reclaimed water?	X		
If yes, please describe.	*The cross connection control program is applicable within the entire utility service area for both potable and reclaimed water applications.*		
Is the reclaimed water system inspected on a regular basis?	X		
Does the utility inspect all new connections to the reclaimed water distribution system?	X		
Does the utility inspect existing connections to the system?	X		
Is there an approved industrial pretreatment program in place?	X		
Who has approved the industrial pretreatment program?	*Florida Department of Environmental Protection*		
Is the industrial pretreatment program enforced?	X		
Are there industrial discharges to the collection system?	X		
Who is the Industrial Pretreatment Coordinator?	*Mr. Al Fisher*		
Is there a FDEP-approved operating protocol that is available to the operators?	X		
Is the operating protocol updated annually?	X		
What are the setpoints in the protocol for the following?			
Turbidity Warning Level	*2.8 NTU*		
Turbidity Level for Pump Shut Down	*3.0 NTU*		
Chlorine Residual Warning Level	*1.2 mg/L*		
Chlorine Residual Level for Pump Shut Down	*1.0 mg/L*		
Are the operators familiar with the operating protocol?	X		
Do the operators use the protocol to control the reclaimed water distribution system facility and to make judgments on the quality of the reclaimed water being produced?	X		
Is the 5.0 mg/L TSS limit met at all times for reclaimed water sent to the reclaimed water system?	X		

Are the high level disinfection criteria for fecal coliforms met at all times for reclaimed water sent to the distribution system?	X		
Has a case presented itself where turbidity or chlorine residuals violate the limits set in the operating protocol?	X		
If turbidity or chlorine residuals violate the limits set in the operating protocol, where is reclaimed water of unacceptable quality diverted?	*To a permitted alternative discharge system consisting of reuse holding ponds and approved sprayfield irrigation sites. Water from the substandard holding ponds is recirculated to the treatment plant for retreatment to public access reuse standards.*		
Are continuous monitoring devices provided for measuring turbidity (after filter/before chlorination) and chlorine residual (after chlorine contact tanks)?	X		
Are the devices operable and used for control of the facilities?	X		
Are the filters in operation and in good repair?	X		
Are chemical addition facilities available and in good repair?	X		
If yes, what chemical(s) can be added?	*Aluminum Sulfate or Polymer*		
Is chemical addition currently being used?		X	
Can the high level disinfection criteria be met without chemical addition?	X		
Is effluent from the filters and chlorine contact tank very clear?	X		
Are turbidity measurements consistent with the appearance of the reclaimed water?	X		
Are system storage facilities provided for the reclaimed water of acceptable quality?	X		
If yes, describe the storage facilities.	*Two – 1 MG Prestressed Concrete Storage tanks; One – 2 MG Prestressed Concrete Storage Tank*		
If yes, what is the total capacity of the storage facilities.	*4 MG*		
Are the system storage facilities used?	X		
Are the system storage facilities fully operational?	X		
Are the system storage facilities used for temporary storage of reclaimed water?	X		
Is reclaimed water released to the system storage and reuse system only during periods when an operator is present?	X		
Is a plant operator on site 24 hours/day?		X	
If no, what is the on-site coverage provided by a plant operator?	*16 hours/day. SCADA monitoring with an afterhours on call operator for 8 hours/day*		
Is automatic control and flow diversion provided?	X		

Is the control and flow diversion systems operational?	X		
Where is reclaimed water of unacceptable quality diverted?	*To the upper holding ponds for recirculation to the treatment plant for retreatment*		
What is the capacity of the substandard water holding ponds?	*9 MG*		
What is the capacity of the reclaimed water holding ponds?	*16 MG*		
Are the reuse holding ponds lined?	X		
Are these temporary storage facilities used?	X		
Are these temporary storage facilities fully operational?	X		
Can the inferior water be returned to the plant for additional treatment and disinfection?	X		
If yes, are the facilities that return the inferior water to the treatment facilities operational and in use?	*Yes. Substandard water is returned to the treatment facility via diesel pump through the drying beds underdrain system to remove algae prior to treatment.*		
Are there provisions for wet weather discharge?	X		
If yes, describe the facilities.	*Lined reuse holding ponds*		
Are the wet weather facilities operational?	X		
Are the wet weather facilities used?	X		
What is the capacity of the wet weather storage facilities?	*16 MG*		
Is there a uniform system for color coding and/or marking reclaimed water pipes?	X		
Are the reclaimed water pipes and appurtenances appropriately marked and color coded?	X		
Are advisory signs posted to alert the public that reclaimed water is being used?	X		
Are there illegal surface water discharge points?		X	
Is there evidence of abuse of the system such as severe ponding or significant run-off from the site?		X	
Are low trajectory nozzles used within 100 feet of outdoor public eating, drinking, or bathing facilities?	X		
Is the reclaimed water applied within 75 feet of potable water supply wells?		X	
Are distribution systems and pumps operational?	X		
Are ground water monitoring facilities provided?	X		
If yes, is ground water monitoring performed regularly?	X		
If yes, how frequently is monitoring performed?	*Quarterly*		
Are background, intermediate, and compliance wells provided?	X		
If yes, are these wells monitored on a regular basis?	X		
Are the monitoring wells properly identified?	X		
Are the monitoring wells operational?	X		
Is there evidence of potential ground water problems at the intermediate wells?		X	
Are above ground hose bibs present on the reclaimed water lines?		X	

Have there been public complaints about aerosol drift, odors or other nuisance conditions?		X	
Are there adequate safety provisions?	X		
Are adequate spare parts available?	X		
Water is the average down time for the reclaimed water distribution system?	*Down time varies according to the specific type of problem. Average down time is minimal.*		
Is the maintenance program adequate for the reclaimed water distribution system?	X		
How frequently is maintenance scheduled?	*According to the manufacturer's O&M Manual*		
What is the overall condition of the reclaimed water distribution system?	*Good*		
What is the overall condition of the storage and wet weather facilities?	*Good*		
What are the most common problems the operator has had with the reclaimed water distribution system?	*Pressure fluctuations in the system.*		

Process K

RECLAIMED WATER HOLDING PONDS

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

No. of Basins:	2	Holding Capacity:	8 MG/each
Total Area:	5.5 acres	Total Wet Weather Storage Capacity:	16 MG
Depth:	10 ft.	Chlorine Residual:	>1.0 mg/L
Freeboard:	3 ft.	Maximum Operating Level:	81.0 MSL

QUESTION	YES	NO	N/A
Does the capacity of the treatment facility exceed 0.1 MGD?	X		
Is secondary treatment provided?	X		
Is high level disinfection provided?	X		
Is filtration provided?	X		
Does the concentration of total nitrogen exceed 10 mg/L at the point of entry to the reclaimed water distribution system?		X	
Are the reuse holding ponds lined?	X		
If yes, is there evidence that the reclaimed water holding ponds are leaking?		X	
Are piping, controls, and pump facilities operational?	X		
Do the reclaimed water holding ponds have adequate capacity?	X		
Are the reclaimed water holding ponds used?	X		
Are ground water monitoring facilities provided?	X		
Is yes, is monitoring performed regularly?	X		
If yes, are there background, intermediate, and compliance wells?	X		
Are the monitoring wells adequately marked?	X		
Are the monitoring wells operational?	X		
Are the monitoring wells adequately protected and secured?	X		
Are there any violations of ground water standards?		X	
Is there evidence of potential ground water quality problems at the intermediate wells?		X	
Is there evidence of seepage through the berms?		X	
Is there evidence of discharge over the tops of the berms?		X	
Are the berms eroded?		X	
Are the berms well maintained?	X		
Are the berms grassed for erosion control?	X		
Is there an irrigation system for the berms?		X	

Are there problems with animals or birds?		X	
Are there animal burrows in the berms?		X	
Is there vegetative control?	X		
Is there a mosquito control program?		X	
Are there mosquito problems?		X	
Is an emergency overflow provided?	X		
Is the emergency overflow operational?	X		
Where does the emergency overflow discharge?	*Adjacent depression in Sprayfield 5 South (low lying area)*		
Have provisions been made to handle water of unacceptable quality?	X		
If yes, what provisions have been made?	*Discharge to effluent holding ponds for recirculation back to the treatment plant*		
Are there provisions for wet weather discharges?	X		
If yes, how many days are provided?	*>10 days system wide*		
Is the wet weather storage capacity adequate?	X		
Is the wet weather storage used?	X		
Is the wet weather storage volume maintained or mandated in the Operating Permit?	X		
Are adequate setback distances provided from the wetted area to the property lines or buildings?	X		
Are adequate setback distances provided to potable water supply wells, Class I waters, and Class II waters?	X		
Are transmission facilities located at least 100 feet from public water supply wells?	X		
Are the reclaimed water holding ponds enclosed with a fence or other means to prevent public access?	X		
Are warning or advisory signs posted?		X	
If no, why?	*The reclaimed water holding ponds are located adjacent to the water reclamation facility. Warning signs are posted on the perimeter fence for the entire site.*		
Are there public complaints about odors, excessive ground water mounding, or other nuisance conditions?		X	
Is adequate freeboard provided?	X		
Is there an alarm system?		X	
Is the reclaimed water holding pond remotely monitored?		X	
Are operating records adequate?	X		
Are there adequate safety provisions?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the reclaimed water holding ponds?	*Good*		

What are the most common problems the operator has had with the reclaimed water holding ponds?	*Duckweed build-up*
What are the maintenance needs for the reuse holding ponds?	*None*
Comments	*In addition to the ponds at the WRF, the City has use of 20 MG of storage at the Rock Springs Ridge Golf Course, 8.4 MG of storage at the Zellwood Station Golf Course, and the 83 MG NW Reclaimed Water Reservoir at the City's NW Recreation Center.*

Process L

RECYCLE PUMP STATION

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	1.0 MGD	No. of Strainers:	1
Peak Flow:	2.0 MGD	Type:	Vertical
No. of Pumps:	2	Capacity:	850 gpm
Type of Pump:	Submersible	Operating Pressure Range:	25-150 psig
Pump Size:	25 hp	Opening Size:	0.01 inch
Capacity:	700 gpm		

QUESTION	YES	NO	N/A
Are the pumps operable?	X		
Is there a backup pump?	X		
Is the backup pump operable?	X		
Is the backup pump exercised regularly?	X		
Are the pumps variable speed?		X	
If a constant speed station, does it affect the operation of downstream facilities when each pump is activated?		X	
Are the pumps operated equally?	X		
Are the control systems operable?	X		
Does the facility have an alarm system?	X		
Is the alarm system working?	X		
What conditions are monitored?	*Low water level; High discharge pressure*		
Are the pumps remotely monitored?		X	
Does the wet well have a level indicating system?	X		
Is the system operable?	X		
What type of system is used?	*Float Balls*		
What conditions are monitored?	*High and Low Water Levels*		
Does the recycle pump station have a strainer or filter?	X		
Is the strainer or filter operable?	X		
Is the strainer or filter used?	X		
What is the function of the strainer or filter?	*Remove algae from the reclaimed water*		
Does the strainer or filter have a backwash feature?	X		
Does the backwash cycle operate automatically?	X		
Does the pump station have a portable pump connection?		X	

If not, how is a portable pump accommodated for emergencies?	*The suction line is dropped into the wet well*		
Is a portable pump available?	X		
Is the portable operable?	X		
Does the portable pump have sufficient capacity?	X		
Does the pumping station have a bypass?	X		
Can the wet well and pumps be isolated for maintenance?	X		
Does this affect the capacity of the pump station?		X	
Is there equal division of flow to each pump?	X		
Are there chlorination facilities?		X	
Does the station have proper ventilation?	X		
Are there adequate safety provisions?	X		
Is the pump station checked daily?	X		
What is the average down time for a pump?	*Minimal*		
What is the average down time for the strainer or filter?	*Minimal*		
Is the maintenance program adequate?	X		
How frequent is maintenance scheduled?	*According to the manufacturer's O&M Manual*		
Are adequate spare parts available?	X		
What is the overall condition of the recycle pump station?	*Good*		
What is the overall condition of the recycle pumps and strainer?	*Good*		
What are the most common problems the operators have experienced with the recycle pump station?	*None*		
What are the maintenance needs for the recycle pump station?	1) *Replace 6" flowmeter on pump station.*		

Process M

EFFLUENT HOLDING PONDS

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

No. of Basins: 2

Total Area: 3.74 acres

Depth: 8.5 ft.

Freeboard: 2 ft.

Holding Capacity: 9 MG

Total Wet Weather Storage Capacity: 9 MG

Chlorine Residual: >0.5 mg/L

Maximum Operating Level: 104.0 MSL

QUESTION	YES	NO	N/A
Does the capacity of the treatment facility exceed 0.1 MGD?	X		
Is secondary treatment provided?	X		
Is basic disinfection provided?	X		
Is filtration provided?		X	
Does the concentration of total nitrogen exceed 10 mg/L?	X		
Are the holding ponds lined?	X		
If yes, is there evidence that the effluent water holding ponds are leaking?		X	
Are the effluent holding ponds operational?	X		
Are the effluent holding ponds used?	X		
Do the effluent holding ponds have adequate capacity?	X		
Are ground water monitoring facilities provided?	X		
Is yes, is monitoring performed regularly?	X		
If yes, are there background, intermediate, and compliance wells?	X		
Are the monitoring wells adequately marked?	X		
Are the monitoring wells operational?	X		
Are the monitoring wells adequately protected and secured?	X		
Are there any violations of ground water standards?		X	
Is there evidence of potential ground water quality problems at the intermediate wells?		X	
Is there evidence of seepage through the berms?		X	
Is there evidence of discharge over the tops of the berms?		X	
Are the berms eroded?		X	
Are the berms well maintained?	X		
Are the berms grassed for erosion control?	X		
Is there an irrigation system for the berms?		X	
Are there problems with animals or birds?		X	
Are there animal burrows in the berms?		X	

Is vegetation controlled in the effluent holding ponds and on the berms?	X		
Is there a mosquito control program?		X	
Are there mosquito problems?		X	
Is an emergency overflow provided?		X	
Is the emergency overflow operational?			X
Are there features that allow a reduction in setback distances?	X		
If yes, what?	*Class I Reliability*		
Are adequate setback distances provided from the wetted area to the property line or buildings?	X		
Are adequate setback distances provided to potable water supply wells, Class I waters, and Class II water?	X		
Are transmission facilities located at least 100 feet from public water supply wells?	X		
Are the effluent holding ponds enclosed with a fence or other means to prevent public access?	X		
Are warning or advisory signs posted?	X		
If no, why?	*The effluent holding ponds are located adjacent to the wastewater treatment plant. Warning signs are posted on the perimeter fence for the entire site and not just the ponds.*		
Are there public complaints about odors, excessive ground water mounding, or other nuisance conditions?		X	
Is wet weather storage provided?	X		
If yes, how many days of storage capacity are provided at design flow?	*9 days*		
Is wet weather storage capacity adequate?	X		
Is the wet weather storage used?	X		
Is the wet weather storage volume maintained as defined in the Operating Permit?	X		
Is adequate freeboard provided?	X		
Is the overall storage capacity adequate?	X		
Is there an alarm system?		X	
Are the effluent holding ponds remotely monitored?		X	
Are the operating records adequate?	X		
Are there adequate safety provisions?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the effluent holding ponds?	*Good*		
What are the most common problems the operator has had with the effluent holding ponds?	*None*		

Process N

IRRIGATION PUMP STATION

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow: 2.0 MGD

Pump Size: 3 @ 75 hp
1 @ 100 hp

Peak Flow: 4.0 MGD

Capacity: 2 @ 700 gpm
1 @ 1000 gpm
1 @ 1520 gpm

Type of Pumps: Centrifugal

No. of Pumps: 4

QUESTION	YES	NO	N/A
Are the pumps operable?	X		
Is there a backup pump?	X		
Is the backup pump operable?	X		
Is the backup pump exercised regularly?	X		
Are the pumps variable speed?		X	
If a constant speed station, does it affect the operation of downstream facilities when each pump is activated?		X	
Are the pumps operated equally?		X	
If no, how?	*Two pumps serve as backups*		
Are the controls systems operable?	X		
Does the facility have an alarm system?		X	
Are the pumps remotely monitored?		X	
Does the wet well have a level indicating system?		X	
Does the pumping station have a portable pump connection?		X	
Does the pumping station have a bypass?		X	
Can the pumps be isolated for maintenance?	X		
Does this affect the capacity of the pump station?		X	
Is there equal division of flow to each pump?	X		
Are there chlorination facilities?		X	
Does the station have proper ventilation?	X		
Are there adequate safety provisions?	X		
Is the pump station checked daily?	X		
What is the average down time for a pump?	*Minimal*		
Is the maintenance program adequate?	X		
How frequent is maintenance scheduled?	*According to the manufacturer's O&M Manual*		
Are adequate spare parts available?	X		
What is the overall condition of the irrigation pump station?	*Good*		
What is the overall condition of the pumps?	*Good*		
What are the most common problems the operators have	*None*		

experienced with the irrigation pump station?	
What are the maintenance needs for the irrigation pump station?	*None at this time*

Process O-1

AEROBIC DIGESTER
(Treatment Train No. 1)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	42,000 gpd	No. of Digester Tanks:	1
Avg. Daily Flow:	17,000 gpd	Tank Depth:	15 feet
Type of Sludge:	WAS	Tank Volume:	462,000 gal.
Feed Solids Concentration:	0.5 – 1.0 %	Hydraulic Detention Time:	12-15 days
Avg. VSS Loading Rate:	0.036 lb/ft^3/day	Solids Retention Time:	15-18 days
Avg. VSS Destruction Rate:	Variable lb/ft^3/day	Avg. Solids Concentration:	1 – 1.5 %
No. of Diffusers:	144	Type of Mixing:	Coarse Bubble Aeration
Avg. DO Concentration	>2.0 mg/L		

QUESTION	YES	NO	N/A
What is the color of the biomass?			
Black ( ) Dark Brown (**X**) Light Brown ( ) Other ( )			
What is the odor of the biomass?	X		
Septic ( ) Earthy (**X**) Musty ( ) Other ( )			
Is there an excessive amount of foam?		X	
Is there a foaming problem?		X	
What is the condition of the foam?			
Light, Crisp (**X**) Thick, Dark ( ) Thick, Stiff ( ) Heavy, White ( ) Other ( )			
Is the process operating in its design mode?	X		
Is adequate freeboard provided?	X		
Is influent sludge pumping automatic?	X		
Is sludge added continuously?		X	
If no, how often is sludge added?	*Sludge pumping is controlled with an automatic solenoid valve. Influent sludge pumping is performed in a batch method, once per shift.*		
How long do the pumps run each time?	*80 minutes per shift*		

What type of aeration equipment is used?	*Coarse bubble diffusers*		
Are the diffusers operating properly?	X		
Do the air diffusers require frequent cleaning?		X	
Are the contents of the tank well mixed?	X		
Does there appear to be dead spots in the aerobic digester?		X	
Is the blower room adequately ventilated?	X		
Are the blowers operating as specified?	X		
Is there a standby blower?	X		
Is the standby blower operable?	X		
Is the standby blower exercised regularly?	X		
Are the blowers used equally?	X		
Are the blowers provided with inlet air filters?	X		
Are the filters adequate?	X		
Are the filters checked and maintained regularly?	X		
Is there an alarm system for the blowers?	X		
Is the alarm system working?	X		
What conditions are monitored?	*Blower Surge*		
Are the blowers remotely monitored?		X	
Is an emergency generator available?	X		
Are there leaks in the air piping?		X	
Is the DO checked each shift?	X		
Is pure oxygen used?		X	
Is the digester a batch operated system?	X		
How is the digester operated?	*Fill, empty cycle*		
What type of flow exists in the tanks?	*Complete Mix*		
Are the residuals thickened in the digester?	X		
Is sludge withdrawn daily or on a regular basis?	X		
Is sludge withdrawn continuously?		X	
If no, how often?	*As needed*		
Is sludge withdrawal automatic?		X	
Is there a portable pump connection?		X	
Is a portable pump available?	X		
Is the portable pump operable?	X		
What is the VSS reduction?	*Variable*		
What is the solids concentration of the digested sludge?	*0.7 – 1.5%*		
What volume (average) of sludge is removed daily?	*Up to 40,000 gal. is removed on a regular basis for dewatering and disposal through the belt filter press*		
Is sludge recycled back to the aerobic digester?		X	
Is the digester covered?		X	
Is the digester heated?		X	
Is the digester insulated?		X	
Is a constant temperature maintained in the digester?		X	
What is the temperature in the digester?	*20° – 38° C*		
Are there any odor problems?		X	
Are there provisions for pH adjustment?	X		

Is pH adjustment necessary?		X	
How often is pH adjustment necessary?	*Rarely*		
What chemical is used for pH adjustment?	*Lime*		
What is the chemical dose?	*Variable*		
Is the aerobic digester supernated?	X		
Is the aerobic digester supernated on a regular basis?	X		
What is the volume of supernated flow?	*Variable. Typically 20,000 to 30,000 gal.*		
What is the typical quality of the supernatant?	*TSS: 50-200 mg/L*		
Where is the supernatant discharged?	*To the head of the aeration basin*		
Are there multiple digester units?		X	
Does the unit show signs of short circuiting?		X	
Does the process show signs of overloading?		X	
Is there an alarm system for the digester?		X	
Is the digester remotely monitored?		X	
Are operating records adequate?	X		
Are there adequate safety features?	X		
Is the digester adequately lighted?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the aerobic digester?	*Good*		
What is the general condition of the blowers?	*Good*		
What are the most common problems the operators have had with the aerobic digester and blowers?	*None*		
What are the maintenance needs for the aerobic digester?	*None at this time*		

Process O-2

AEROBIC DIGESTER
(Treatment Train No. 2)

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

Design Flow:	54,000 gpd	No. of Digester Tanks:	1
Avg. Daily Flow:	48,000 gpd	Tank Depth:	17 feet
Type of Sludge:	WAS	Tank Volume:	432,000 gal.
Feed Solids Concentration:	0.5 – 1.0 %	Hydraulic Detention Time:	9-12 days
Avg. VSS Loading Rate:	0.06 lb/ft^3/day	Solids Retention Time:	12-15 days
Avg. VSS Destruction Rate:	Variable lb/ft^3/day	Avg. Solids Concentration:	0.7 – 1.0 %
No. of Mixers:	2	Type of Mixing:	Self-Aspirating Submersible
Avg. DO Concentration	<1.0 mg/L	Mixer Size:	40 hp
Mixer Capacity:	435 scfm each		

QUESTION	YES	NO	N/A
What is the color of the biomass?			
Black ( ) | Dark Brown (**X**) | Light Brown ( ) | Other ( )			
What is the odor of the biomass?	X		
Septic ( ) | Earthy (**X**) | Musty ( ) | Other ( )			
Is there an excessive amount of foam?	X		
Is there a foaming problem?	X		
What is the condition of the foam?			
Light, Crisp ( ) | Thick, Dark (**X**) | Thick, Stiff ( ) | Heavy, White ( ) | Other ( )			
Is the process operating in its design mode?	X		
Is adequate freeboard provided?	X		
Is influent sludge pumping automatic?	X		
Is sludge added continuously?		X	
If no, how often is sludge added?	*Sludge pumping is controlled with an automatic solenoid valve. Influent sludge pumping*		

	is performed in a batch method, once per shift.		
How long do the pumps run each time?	*80 minutes per shift*		
What type of aeration equipment is used?	*Submersible Self-Aspirating Aerators*		
Are the contents of the tank well mixed?		X	
If no, why?	*Mixing appears to occur only around the aerators. Good DO levels are observed around the aerators. This middle of the tank does not appear to be adequately mixed.*		
Are the aerators operable?	X		
Are the aerators used?	X		
Does there appear to be dead spots in aerobic digester?	X		
Is the digester adequately ventilated?	X		
Is there a standby aerator?		X	
Are the aerators used equally?	X		
Are the aerators provided with inlet air filters?			X
Is there an alarm system for the aerators?	X		
Is the alarm system working?	X		
What conditions are monitored?	*High water level*		
Are the aerators remotely monitored?		X	
Is an emergency generator available?	X		
Is the DO checked each shift?	X		
Is pure oxygen used?		X	
Is the digester a batch operated system?	X		
How is the digester operated?	*Using a fill/empty cycle*		
What type of flow exists in the tanks?	*Complete Mix*		
Are the residuals thickened in the digester?	X		
Is sludge withdrawn daily or on a regular basis?	X		
Is sludge withdrawn continuously?		X	
If no, how often?	*3-5 withdrawals per week*		
Is sludge withdrawal automatic?		X	
What volume (average) of sludge is removed daily?	*Up to 50,000 gal. is removed on a regular basis for dewatering and disposal through the belt filter press*		
How is sludge transferred to the drying beds?	*Gravity Flow*		
Is there a portable pump connection?	X		
Is a portable pump available?	X		
Is the portable pump operable?	X		
What is the VSS reduction?	*Variable*		
What is the solids concentration of the digested sludge?	*0.7 – 1.0 %*		
Is sludge recycled back to the aerobic digester?		X	
Is the digester heated?		X	
Is the digester insulated?		X	
Is the digester covered?		X	

Is a constant temperature maintained in the digester?		X	
What is the temperature in the digester?	*20° – 38° C*		
Are there any odor problems?		X	
Are there provisions for pH adjustment?	X		
Is pH adjustment necessary?		X	
How often is pH adjustment necessary?	*Rarely*		
What chemical is used for pH adjustment?	*Lime*		
What is the chemical dose?	*Variable*		
Is the aerobic digester supernated?	X		
Is the aerobic digester supernated on a regular basis?	X		
What is the volume of supernated flow?	*Variable. Typically 40,000 to 60,000 gal.*		
What is the typical quality of the supernatant?	*TSS: 50-200 mg/L*		
Where is the supernatant discharged?	*Plant lift station*		
Are there multiple digester units?		X	
Does the unit show signs of short circuiting?		X	
Does the process show signs of overloading?		X	
Is there an alarm system for the digester?		X	
Is the digester remotely monitored?		X	
Are operating records adequate?	X		
Are there adequate safety features?	X		
Is the digester adequately lighted?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the aerobic digester?	*Good*		
What is the general condition of the blowers?	*Good*		
What are the most common problems the operators have had with the aerobic digester and blowers?	*Foaming; Maintaining adequate DO throughout the tank; Adequate mixing throughout the tank*		
What are the maintenance needs for the aerobic digester?	*None at this time*		

Process P

BIOSOLIDS DRYING BEDS

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

No. of Beds:	20	Design Flow:	12,000 gpd/bed
Drying Area:	800 ft^2/bed	Typical Drying Time:	10-20 days
Solids Loading Rate:	1.9 $lb/ft^2/day$	Cake Solids:	20-50 %
Maximum Solids Loading Rate:	2.5 $lb/ft^2/day$	Type of Media:	Sand

NOTE: The drying beds serve as a backup dewatering system for the belt filter press.

QUESTION	YES	NO	N/A
Are the residuals digested before being applied to the drying beds?	X		
What types of residuals are applied to the drying beds?	*Aerobically digested waste activated sludge*		
What is the concentration of the residuals applied to the drying beds?	*0.7 – 1.0%*		
What is the solids concentration of the dewatered residuals?	*>20%*		
What is the typical drying time required?	*10-20 days*		
What type of media is used?	*Sand*		
Are there problems with flies or other insects?		X	
Are there problems with weeds?	X		
If yes, have measures been taken to control weeds?	X		
If yes, what measures have been implemented?	*Dewatered biosolids are removed promptly. Weeds are removed on a regular basis. Beds are routinely maintained.*		
Is there an underdrain system?	X		
Are there provisions to return the filtrate to the treatment plant?	X		
If yes, where is the filtrate discharged?	*To the plant lift station*		
Are vehicles and equipment operated on permanent treadways?		X	
Are access roads available?	X		
Where are the access roads?	*Between and around each drying bed*		
Are splash plates in place where residuals are applied to the	X		

beds?			
Are partitions between and around the bed tight to prevent residuals flowing from one compartment to another or outside the beds?	X		
Are residuals distributed evenly on the drying beds?	X		
Are there dry residuals remaining in the drying beds?		X	
Are the dewatered residuals removed from the drying beds and hauled away promptly for proper disposal?	X		
Are dry residuals stacked around drying beds where run-off may enter navigable waters?		X	
Is the drying time excessive?		X	
Is the filtrate from the drying beds returned to the front of the treatment plant?	X		
Are the drying beds checked daily for proper operation?	X		
Is there an alarm system?		X	
Are operating records adequate?	X		
Are there adequate safety provisions?	X		
Are the drying beds properly maintained?	X		
Is the sand replaced and re-graded on a regular basis?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the drying beds?	*Good*		
What are the most common problems that the operator has had with the drying beds?	*Removing weeds*		
What are the maintenance needs of the drying beds?	*Replenishment of sand*		
Comments	*The drying beds serve as an emergency backup system for the belt filter press. The drying beds are used periodically to maintain proper operating conditions for the wastewater treatment plant.*		

Process Q

BELT FILTER PRESS

Operation & Maintenance Performance Evaluation
City of Apopka Water Reclamation Facility

No. of Units:	1	Polymer Use:	8-12 lbs/ton
Size:	2.2 meters	Type of Wash Water Pump:	Centrifugal
Type of Sludge:	WAS	Size:	15 hp
Design Flow:	41,000 gpd	Flow Rate::	100 gpm
Current ADF:	40,000 gpd	No. of Sludge Feed Pumps:	2
Hydraulic Loading Rate:	200 gpm	Type:	Disc-Flo/Centrifugal
Feed Solids Conc.:	0.7 – 1.5 %	Pump Size:	10 hp
Solids Loading Rate:	1,000 lb/hr	Pump Capacity:	50 – 200 gpm
Solids Recovery Rate:	95 %	Cake Solids:	11 – 15 %

QUESTION	YES	NO	N/A
What is the percent solids in the discharge cake?	*11 – 15%*		
Are there settleable solids in the filtrate?		X	
How often does the belt filter press run?	*4 – 6 hrs./day, 3 – 5 days/week*		
Is the operation of the unit automatic?	X		
Are flow meters provided for the influent?	X		
Does the press show signs of overloading?		X	
Does the press show signs of excessive wear?		X	
Is chemical feed automatic?	X		
What are the types of conditioning chemical(s) used?	*Cationic Polymer*		
What type of polymer feed system is used?	*Stranco Polyblend Polymer Feed System*		
What amount of polymer is fed?	*9-12 lbs. of polymer per dry ton of biosolids*		
Are the wash water pumps automatic?	X		
Is adequate wash water flow provided?	X		
What is the wash water pressure?	*85 – 120 psi*		
Is there a backup wash water pump?	X		

If yes, is the backup pump operable?		X	
Are the pumps operated equally?	X		
Do the sludge feed pumps for the digester operate automatically?	X		
Are the sludge feed pumps variable speed?	X		
Is there a backup sludge feed pump?	X		
If yes, is the backup sludge feed pump operable?	X		
Are the feed pumps used equally?	X		
Is the belt adequately cleaned?	X		
Is the belt cleaned evenly across its width?	X		
Does the belts show signs of clogging?		X	
Are chemicals used to help clean the belts?		X	
Do the belts show signs of wear?	X		
Have the belts been replaced?		X	
Are the belts replaced on a regular basis?	X		
Is there a belt tracking system?	X		
Is the belt tracking system operable?	X		
Is an in-line mixer used?	X		
If yes, is the in-line mixer effective?	X		
Is the general housekeeping satisfactory?	X		
Is there an alarm system?	X		
Is the alarm system operable?		X	
What conditions can be monitored?	*ON/OFF Status; Belt Misalignment (excessive skew); Belt Breakage; Emergency Stop; Sludge Cake Loss; Low Hydraulic Pressure*		
Is the belt filter press remotely monitored?		X	
Is there a conveyor system to transfer the sludge cake to the hauling trucks?	X		
Is the conveyor system operable?	X		
What are the components of the conveyor system?	*Cake Collector Conveyor; Cake Elevator Conveyor; Reversible Shuttle Conveyor*		
Does the conveyor system drop or lose sludge cake?		X	
Does the reversible shuttle conveyor evenly distribute the sludge cake in the truck trailer?		X	
Do the conveyor belts have sidewalls?		X	
If no, are full length, adjustable skirt boards used?	X		
Is the conveyor system reliable?	X		
Can the conveyor system feed more than one truck?		X	
Is the building adequately ventilated?	X		
Is the building adequately lighted?		X	
Is the wash water contained adequately?	X		
Are there adequate safety features?	X		
Does the belt filter press have an emergency trip cord?	X		
If yes, is the trip cord operable?	X		
If yes, is the trip cord used?	X		

Are operating records adequate?	X		
Are adequate spare parts available?	X		
Is the maintenance program adequate?	X		
How often is maintenance done?	*According to the manufacturer's O&M Manual*		
What is the general condition of the belt filter press and sludge pumps?	*Good*		
What is the general condition of the conveyor system?	*Good*		
What is the general condition of the building?	*Good*		
What are the most common problems the operators have had with the belt filter press, sludge feed pumps and the conveyor system?	*Sludge Pumps Clogging*		
What are the maintenance needs for the belt filter press, sludge feed pumps, conveyor and building?	*Repair and/or replace lighting; Repair gutter down spout*		
Comments:	*The belt filter press is scheduled to receive a complete rehabilitation in February 2012*		

APPENDIX B

2015 APOPKA WASTEWATER SYSTEM INVENTORY WORKSHEET

(Volume II Appendices on CD in pocket on inside back cover)

System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Asset Description	Expected Useful Life	Conditon	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Number	**Identifier**								
1	BFpb-6	Belt Press Polymer Blend Pump Unit	10	Poor, Needs Replacement/Refurbishing	5	Standard Maintenance	10	14	0
2	BLef-1	Blower Room Exhaust Fan #1, Southeast	20	Fair	4	Standard Maintenance	20	26	0
3	BLef-2	Blower Room Exhaust Fan #2, Southwest	20	Fair	4	Standard Maintenance	20	26	0
4	BLef-3	Blower Room Exhaust Fan #3, Northwest	20	Fair	4	Standard Maintenance	20	26	0
5	BLef-4	Blower Room Exhaust Fan #4, Northeast	20	Fair	4	Standard Maintenance	20	26	0
6	BLGENspf-1	Generator Room Supply Fan	20	Fair	4	Standard Maintenance	20	26	0
7	COef-1	Exhaust Fan #1	20	Fair	4	Standard Maintenance	20	26	2
8	COefcp-1	Exhaust Fan #1 Control Panel	20	Fair	3	Standard Maintenance	20	26	2
9	ECCwsp-1	East Contact Chamber Sample Pump, West	5	Fair	4	Maintenance Free	5	7	0
10	EFsp-1	East Filter Sample Pump	5	Good	1	Maintenance Free	5	3	2
11	JDPSdarv-5	Discharge Air Release Valve	10	Good	1	Maintenance Free	10	9	1
12	JDPSlptvss-1	Panel LP-1 TVSS	10	Good	1	Maintenance Free	10	9	1
13	JDPSparv-2	Pump #2 Air Release Valve	10	Good	1	Maintenance Free	10	9	1

System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Asset Description	Expected Useful Life	Conditon	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
14	JDPSparv-3	Pump #3 Air Release Valve	10	Good	1	Maintenance Free	10	9	1
15	PBU	Polymer Blending Unit	20	Fair	3	Standard Maintenance	20	26	2
16	REdisth-18-arv-1	Reuse 18" Dist. Header ARV #1	20	Fair	3	Standard Maintenance	20	26	2
17	REdisth-18-arv-2	Reuse 18" Dist. Header ARV #2	20	Fair	3	Standard Maintenance	20	26	2
18	REpuarv-1-1	Reuse Pump #1 ARV #1	10	Good	1	Standard Maintenance	10	8	2
19	REpuarv-1-2	Reuse Pump #1 ARV #2	10	Good	1	Standard Maintenance	10	8	2
20	REpuarv-2-1	Reuse Pump #2 ARV #1	10	Good	1	Standard Maintenance	10	8	2
21	REpuarv-2-2	Reuse Pump #2 ARV #2	10	Good	1	Standard Maintenance	10	8	2
22	REpuarv-3-1	Reuse Pump #3 ARV #1	10	Good	1	Standard Maintenance	10	8	2
23	REpuarv-3-2	Reuse Pump #3 ARV #2	10	Good	1	Standard Maintenance	10	8	2
24	REpuarv-4-1	Reuse Pump #4 ARV #1	10	Good	1	Standard Maintenance	10	8	2
25	REpuarv-4-2	Reuse Pump #4 ARV #2	10	Good	1	Standard Maintenance	10	8	2
26	RErp-2	Reuse Recycle Pump #2	20	Good, Pump/Motor were rebuilt on 03/08/2006	1	Standard Maintenance	20	26	1
27	SFpm-6	Sprayfield Pump Rm. Sump Pump	20	Good	1	Maintenance Free	20	Unknown	2
28	SFpr-1	Sprayfield Pump Room	40	Poor, Needs to be refurbished	5	0	40	43	0
29	SPef-1	Sample Pump, East Filter #1	5	Good	1	Maintenance Free	5	3	2
30	TRplos-1	Transfer Pump #1 Lockout Switc	20	Fair	4	Standard Maintenance	20	26	0
31	TRplos-2	Transfer Pump #2 Lockout Switc	20	Fair	4	Standard Maintenance	20	26	0

System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Asset Description	Expected Useful Life	Conditon	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
32	TRplos-3	Transfer Pump #3 Lockout Switc	20	Fair	4	Standard Maintenance	20	26	0
33	TRpm-9	Transfer Pump Motor #3	20	Good, Motor was rebuilt on 01/24/2012	1	Standard Maintenance	20	26	2

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
Lift Station Physical Strucuture:							
LS001	30	Fair	3	Standard Maintenance	30	29	1
LS002	30	Fair	3	Standard Maintenance/ Repaired floor on wet well	30	32	0
LS003	30	Fair	3	Standard Maintenance	30	28	2
LS004	30	Good	3	Standard Maintenance	30	27	3
LS005	30	Fair	3	Standard Maintenance	30	28	2
LS005A	30	Fair	3	Standard Maintenance/ Repaired wet well floor	30	23	7
LS006	30	Good	3	Standard Maintenance	30	28	2
LS007	30	Good	3	Standard Maintenance	30	29	1
LS008	30	Good	3	Standard Maintenance	30	28	2
LS009	30	Poor	5	Standard Maintenance	30	27	3
LS009A	30	Poor	4	Standard Maintenance	30	25	5
LS010	30	Good	3	Standard Maintenance	30	27	3
LS011	30	Poor	4	Standard Maintenance	30	37	0
LS012	30	Good	3	Standard Maintenance	30	16	14
LS013	30	Poor	4	Standard Maintenance	30	30	0
LS014	30	Good	1	Standard Maintenance	30	14	16
LS015	30	Good	3	Standard Maintenance	30	21	9
LS016	30	Poor	4	Standard Maintenance	30	64	0
LS017	30	Good	3	Standard Maintenance	30	44	0
LS018	30	Good	3	Standard Maintenance	30	61	0
LS019	30	Good	3	Standard Maintenance	30	31	0
LS020	30	Fair	3	Standard Maintenance	30	29	1
LS021	30	Fair	3	Standard Maintenance	30	27	3
LS021A	30	Fair	3	Standard Maintenance	30	24	6
LS022	30	Fair	3	Standard Maintenance	30	31	0
LS023	30	Fair	3	Standard Maintenance	30	33	0
LS024	30	Good	3	Standard Maintenance	30	31	0
LS025	30	Poor	4	Standard Maintenance	30	41	0
LS026	30	Poor	4	Standard Maintenance	30	23	7
LS027	30	Fair	3	Standard Maintenance	30	36	0
LS028	30	Fair	3	Standard Maintenance	30	43	0
LS029	30	Poor	4	Standard Maintenance	30	41	0
LS030	30	Fair	3	Standard Maintenance	30	28	2
LS031	30	Fair	3	Standard Maintenance	30	43	0
LS032	30	Fair	3	Standard Maintenance	30	43	0
LS034	30	Good	3	Standard Maintenance	30	25	5
LS035	30	Good	3	Standard Maintenance	30	31	0
LS036	30	Good	3	Standard Maintenance	30	34	0
LS037	30	Fair	3	Standard Maintenance	30	28	2
LS038	30	Poor	4	Standard Maintenance	30	38	0
LS039	30	Fair	3	Standard Maintenance	30	32	0
LS040	30	Good	3	Standard Maintenance	30	35	0
LS041	30	Good	3	Standard Maintenance	30	23	7
LS042	30	Good	3	Standard Maintenance	30	22	8
LS043	30	Good	3	Standard Maintenance	30	22	8

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS044	30	Good	3	Standard Maintenance	30	23	7
LS045	30	Good	3	Standard Maintenance	30	20	10
LS046	30	Good	1	Standard Maintenance	30	15	15
LS047	30	Good	3	Standard Maintenance	30	19	11
LS048	30	Good	3	Standard Maintenance	30	18	12
LS049	30	Good	3	Standard Maintenance	30	18	12
LS050	30	Good	3	Standard Maintenance	30	17	13
LS051	30	Good	3	Standard Maintenance	30	17	13
LS052	30	Good	1	Standard Maintenance	30	14	16
LS053	30	Good	3	Standard Maintenance	30	16	14
LS054	30	Good	3	Standard Maintenance	30	16	14
LS055	30	Good	3	Standard Maintenance	30	16	14
LS056	30	Good	1	Standard Maintenance	30	15	15
LS057	30	Good	1	Standard Maintenance	30	15	15
LS058	30	Good	1	Standard Maintenance	30	13	17
LS059	30	Good	1	Standard Maintenance	30	14	16
LS060	30	Good	3	Standard Maintenance	30	Unknown	Unknown
LS061	30	Good	1	Standard Maintenance	30	13	17
LS062	30	Good	1	Standard Maintenance	30	13	17
LS063	30	Good	1	Standard Maintenance	30	13	17
LS064	30	Good	1	Standard Maintenance	30	13	17
LS065	30	Good	1	Standard Maintenance	30	14	16
LS066	30	Good	1	Standard Maintenance	30	12	18
LS067	30	Good	1	Standard Maintenance	30	13	17
LS068	30	Good	1	Standard Maintenance	30	12	18
LS069	30	Good	1	Standard Maintenance	30	11	19
LS070	30	Good	1	Standard Maintenance	30	13	17
LS071	30	Good	1	Standard Maintenance	30	9	21
LS072	30	Good	1	Standard Maintenance	30	13	17
LS073	30	Good	1	Standard Maintenance	30	12	18
LS074	30	Good	1	Standard Maintenance	30	12	18
LS075	30	Good	1	Standard Maintenance	30	12	18
LS076	30	Good	1	Standard Maintenance	30	11	19
LS077	30	Good	1	Standard Maintenance	30	13	17
LS078	30	Good	1	Standard Maintenance	30	10	20
LS079	30	Good	1	Standard Maintenance	30	12	18
LS080	30	Good	1	Standard Maintenance	30	9	21
LS081	30	Good	1	Standard Maintenance	30	9	21
LS082	30	Good	3	Standard Maintenance	30	Unknown	Unknown
LS083	30	Good	3	Standard Maintenance	30	16	14
LS084	30	Good	3	Standard Maintenance	30	16	14
LS085	30	Good	1	Standard Maintenance	30	12	18
LS086	30	Good	1	Standard Maintenance	30	10	20
LS087	30	Good	1	Standard Maintenance	30	9	21
LS088	30	Good	1	Standard Maintenance	30	9	21
LS089	30	Good	1	Standard Maintenance	30	9	21
LS090	30	Good	1	Standard Maintenance	30	8	22
LS091	30	Good	1	Standard Maintenance	30	8	22
LS092	30	Good	1	Standard Maintenance	30	9	21
LS093	30	Good	1	Standard Maintenance	30	9	21
LS094	30	Good	3	Standard Maintenance	30	16	14
LS095	30	Good	1	Standard Maintenance	30	9	21
LS096	30	Good	1	Standard Maintenance	30	9	21
LS097	30	Good	1	Standard Maintenance	30	6	24
LS098	30	Good	1	Standard Maintenance	30	8	22
LS099	30	Good	1	Standard Maintenance	30	9	21

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS100	30	Good	1	Standard Maintenance	30	2	28
LS101	30	Good	1	Standard Maintenance	30	10	20
LS102	30	Good	1	Standard Maintenance	30	8	22
LS103	30	Good	1	Standard Maintenance	30	7	23
LS104	30	Good	1	Standard Maintenance	30	7	23
LS105	30	Good	1	Standard Maintenance	30	6	24
LS106	30	Good	1	Standard Maintenance	30	5	25
LS107	30	Good	1	Standard Maintenance	30	9	21
LS108	30	Good	1	Standard Maintenance	30	5	25
LS109	30	Good	1	Standard Maintenance	30	5	25
LS110	30	Good	1	Standard Maintenance	30	3	27
LS111	30	Good	1	Standard Maintenance	30	3	27
LS112	30	Good	1	Standard Maintenance	30	2	28
LS113	30	Good	1	Standard Maintenance	30	2	28
LS114	30	Good	1	Standard Maintenance	30	1	29
LS115	30	Good	1	Standard Maintenance	30	0	30
LS116	30	Good	1	Standard Maintenance	30	0	30

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Lift Station Forcemains:									
LS001	Ductile	4"	50	Good	1		50	29	21
LS002	HDPE	6"	100	Good	1	Installed base plates and anchor FM to wall, Repaired floor in 2014	100	32	68
LS003	Ductile	4"	50	Fair	3		50	28	22
LS004	HDPE	6"	100	Good	1		100	27	73
LS005	Unknown	6"	Unknown	Unknown	Unknown		Unknown	28	Unknown
LS005A	HDPE	6"	100	Good	1	Replaced 6" FM with HDPE pipe and Installed base plates in 2014	100	23	77
LS006	HDPE	4"	100	Good	1		100	28	72
LS007	Ductile	6"	50	Fair	3		50	29	21
LS008	HDPE	6"	100	Good	1		100	28	72
LS009	HDPE	6"	100	Good	1		100	27	73
LS009A	HDPE	6"	100	Good	1		100	25	75
LS010	HDPE	6"	100	Good	1		100	27	73
LS011	HDPE	4"	100	Good	1		100	37	63
LS012	HDPE	4"	100	Good	1	Forcemains repiped, 4" x 20' long each, July/2012	100	16	84
LS013	HDPE	4"	100	Good	1		100	30	70
LS014	Certalock	6"	100	Good	1		100	14	86
LS015	Ductile	4"	50	Good	1		50	21	29
LS016	HDPE	4"	100	Fair	3		100	64	36
LS017	Ductile	12", 14", 16",18"	50	Fair	3		50	44	6
LS018	HDPE	6"	100	Fair	3	Bottom of the wet well was filled with fast setting concrete to fill voids, Three feet of fiber glass was added to finish sealing wet well, Oct/2012	100	61	39
LS019	Ductile	6"	50	Fair	3		50	31	19
LS020	HDPE	6"	100	Good	1	Forcemains repiped 6" x 20' long each, July/2012	100	29	71
LS021	Ductile	6"	50	Fair	3		50	27	23
LS021A	HDPE	6"	100	Good	1	Forcemains repiped 6" x 18' long each, March/2013	100	24	76
LS022	Ductile	4"	50	Fair	3		50	31	19
LS023	HDPE	4"	100	Good	1	Replaced 4" FM with HDPE in Dec/2014	100	33	67
LS024	Ductile	4"	50	Fair	3		50	31	19
LS025	HDPE	6"	100	Good	1		100	41	59

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LS026	HDPE	4"	100	Good	1	Replaced ductile FM with HDPE and Installed base plates in March/2015	100	23	77
LS027	Ductile	4"	50	Good	1		50	23	27
LS028	Ductile	6"	50	Fair	3		50	36	14
LS029	HDPE	8"	100	Good	1	Forcemains repiped 10" x 20' long each, Aug/2012	100	43	57
LS030	HDPE	8"	100	Good	1	Forcemains repiped 8", 2013	100	41	59
LS031	HDPE	6"	100	Good	1	Add 6" bypass tee and Replaced 6" ductile FM with HDPE in July/2015	100	28	72
LS032	HDPE	6"	100	Good	1		100	43	57
LS034	HDPE	4"	100	Good	1		100	25	75
LS035	Ductile	6"	50	Fair	3		50	31	19
LS036	HDPE	4"	100	Good	1	Forcemains repiped 4" x 16' long each, Jan/2013	100	34	66
LS037	Ductile	4"	50	Poor	5		50	28	22
LS038	Ductile	4"	50	Fair	3		50	38	12
LS039	Ductile	6"	50	Fair	3		50	32	18
LS040	Ductile	6"	50	Fair	3		50	35	15
LS041	HDPE	6"	100	Good	1		100	23	77
LS042	Ductile	4"	50	Good	1		50	22	28
LS043	Ductile	6"	50	Good	1		50	22	28
LS044	HDPE	4"	100	Good	1		100	23	77
LS045	Ductile	4"	50	Good	1		50	20	30
LS046	Ductile	4"	50	Good	1		50	15	35
LS047	Ductile	4"	50	Good	1		50	19	31
LS048	Ductile	4"	50	Good	1		50	18	32
LS049	Ductile	10"	50	Good	1		50	18	32
LS050	HDPE	6"	100	Good	1		100	17	83
LS051	HDPE	8"	100	Good	1	Repiped, 8" X18' long, Each floor voids were filled with fast setting concrete, March/2012	100	17	83
LS052	Ductile	4"	50	Good	1		50	14	36
LS053	Ductile	6"	50	Good	1		50	16	34
LS054	HDPE	4"	100	Good	1		100	16	84
LS055	Ductile	4"	50	Good	1		50	16	34
LS056	Ductile	4"	50	Good	1		50	15	35
LS057	HDPE	8"	100	Good	1		100	15	85
LS058	Ductile	4"	50	Good	1		50	13	37
LS059	Ductile	4"	50	Good	1		50	14	36
LS060	HDPE	6"	100	Unknown	Unknown		100	Unknown	Unknown
LS061	Ductile	4"	50	Good	1		50	13	37
LS062	Ductile	4"	50	Good	1		50	13	37
LS063	HDPE	4"	100	Good	1	Replaced 4" FM with HDPE in 2014	100	13	87
LS064	Ductile	4"	50	Good	1		50	13	37
LS065	HDPE	6"	100	Good	1		100	14	86
LS066	HDPE	6"	100	Good	1		100	12	88

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LS067	HDPE	8"	100	Good	1		100	13	87
LS068	PVC	4"	50	Good	3		20	12	8
LS069	HDPE	4"	100	Good	1		100	11	89
LS070	Ductile	4"	50	Good	1		50	13	37
LS071	Ductile	4"	50	Good	1		50	9	41
LS072	HDPE	4"	100	Good	1		100	13	87
LS073	HDPE	12"	100	Good	1		100	12	88
LS074	HDPE	4"	100	Good	1		100	12	88
LS075	HDPE	4"	100	Good	1		100	12	88
LS076	HDPE	6"	100	Good	1		100	11	89
LS077	Certalock	12"	100	Good	1		100	13	87
LS078	HDPE	4"	100	Good	1		100	10	90
LS079	HDPE	6"	100	Good	1		100	12	88
LS080	HDPE	8"	100	Good	1		100	9	91
LS081	HDPE	6"	100	Good	1		100	9	91
LS082	HDPE	8"	100	Unknown	Unknown		100	Unknown	Unknown
LS083	HDPE	8"	100	Good	1		100	16	84
LS084	HDPE	4"	100	Good	1		100	16	84
LS085	HDPE	6"	100	Good	1	Forcemains repiped on Pump#1 side, 8" x 5', May/2012	100	12	88
LS086	HDPE	4"	100	Good	1		100	10	90
LS087	HDPE	4"	100	Good	1		100	9	91
LS088	HDPE	4"	100	Good	1		100	9	91
LS089	HDPE	4"	100	Good	1		100	9	91
LS090	HDPE	4"	100	Good	1		100	8	92
LS091	HDPE	4"	100	Good	1		100	8	92
LS092	HDPE	6"	100	Good	1		100	9	91
LS093	HDPE	6"	100	Good	1		100	9	91
LS094	HDPE	4"	100	Good	1		100	16	84
LS095	HDPE	6"	100	Good	1		100	9	91
LS096	HDPE	6"	100	Good	1		100	9	91
LS097	HDPE	4"	100	Good	1		100	6	94
LS098	HDPE	4"	100	Good	1		100	8	92
LS099	HDPE	4"	100	Good	1		100	9	91
LS100	HDPE	4"	100	Good	1		100	2	98
LS101	HDPE	4"	100	Good	1		100	10	90
LS102	HDPE	2"	100	Good	1		100	8	92
LS103	HDPE	8"	100	Good	1	Added tow 45 Angle and Sleeve on FM in March/2015	100	7	93
LS104	HDPE	4"	100	Good	1		100	7	93
LS105	HDPE	4"	100	Good	1		100	6	94
LS106	HDPE	4"	100	Good	1		100	5	95
LS107	HDPE	4"	100	Good	1		100	9	91
LS108	HDPE	4"	100	Good	1		100	5	95
LS109	HDPE	4"	100	Good	1		100	5	95
LS110	HDPE	4"	100	Good	1		100	3	97
LS111	HDPE	4"	100	Good	1		100	3	97
LS112	HDPE	4"	100	Good	1		100	2	98
LS113	HDPE	4"	100	Good	1		100	2	98
LS114	HDPE	4"	100	Good	1		100	1	99
LS115	HDPE	4"	100	Good	1		100	0	100
LS116	HDPE	4"	100	Good	1		100	0	100

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Asset		Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Lift Station Pumps:							
LS001sp-1	Submersible Pump, 10 hp.	20	1	PM (2010)	20	0	20
LS001sp-2	Submersible Pump, 10 hp.	20	1		20	5	15
LS002sp-1	Submersible Pump, 47 hp.	20	5	Rewind Stator (2007)	20	27	0
LS002sp-2	Submersible Pump, 47 hp.	20	5		20	32	0
LS003sp-1	Submersible Pump, 20 hp.	20	5		20	28	0
LS003sp-2	Submersible Pump, 20 hp.	20	5	Repair shaft/PM (2006), Fix Meg Bad/PM (2010), PM (2012)	20	23	0
LS004sp-1	Submersible Pump, 20 hp.	20	5	PM (2010)	20	22	0
LS004sp-2	Submersible Pump, 20 hp.	20	5		20	27	0
LS005Asp-1	Submersible Pump, 10 hp.	20	5	Fix Meg Bad/ Rewind (2013), PM/ Fix pump (2015)	20	23	0
LS005Asp-2	Submersible Pump, 10 hp.	20	5	Fix Meg Bad/ Rewind (2013), PM/Repair Volute (2015)	20	23	0
LS005sp-1	Submersible Pump, 20 hp.	20	5		20	23	0
LS005sp-2	Submersible Pump, 20 hp.	20	5	Repair volute and cord/ PM (2008)	20	18	2
LS006sp-1	Submersible Pump, 5 hp.	20	5		20	28	0
LS006sp-2	Submersible Pump, 5 hp.	20	5	PM (2013)	20	23	0
LS007sp-1	Submersible Pump, 5 hp.	20	5	PM (2010), PM (2013)	20	24	0
LS007sp-2	Submersible Pump, 5 hp.	20	5		20	29	0
LS008sp-1	Submersible Pump, 5 hp.	20	5	PM/ Repair lifting bail (2012)	20	23	0
LS008sp-2	Submersible Pump, 5 hp.	20	5	PM (2008)	20	23	0
LS009sp-1	Submersible Pump, 47 hp.	20	5	Repair IMP/ Manufacture sleeve for volute gap (2008), Fix Meg Bad/Rewind (2012), Fix Meg Bad/Rewind (2014)	20	24	0
LS009sp-2	Submersible Pump, 47 hp.	20	5	Fix Meg Bad/ Rewind (2009), Fix Meg Bad and Tripping breaker (2010)	20	23	0
LS009Asp-1	Submersible Pump, 3 hp.	20	5	PM/New Impeller (2008)	20	20	0
LS009Asp-2	Submersible Pump, 3 hp.	20	5		20	25	0
LS010sp-1	Submersible Pump, 47 hp.	20	5	PM (2006)	20	22	0
LS010sp-2	Submersible Pump, 47 hp.	20	5	PM (2014)	20	22	0

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Asset		Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS011sp-1	Submersible Pump, 3 hp.	20	5		20	37	0
LS011sp-2	Submersible Pump, 3 hp.	20	5		20	37	0
LS012sp-1	Submersible Pump, 25 hp.	20	3	PM (2015)	20	11	9
LS012sp-2	Submersible Pump, 25 hp.	20	5		20	16	4
LS013sp-1	Submersible Pump, 2.3 hp.	20	5	PM (2007)	20	25	0
LS013sp-2	Submersible Pump, 5 hp.	20	5	Replace 3HP pump (2010)	20	30	0
LS014sp-1	Submersible Pump, 15 hp.	20	1	Rewind Stator (2008)	20	9	11
LS014sp-2	Submersible Pump, 15 hp.	20	1	Fix Meg Bad/ Rewind (2008)	20	9	11
LS015sp-1	Submersible Pump, 5 hp.	20	5	PM (2014), PM/ Fix Meg Low (2015)	20	16	4
LS015sp-2	Submersible Pump, 5 hp.	20	5		20	21	0
LS016sp-1	Submersible Pump, 5 hp.	20	5		20	64	0
LS016sp-2	Submersible Pump, 5 hp.	20	5	Fix Meg Bad/Rewind (2015)	20	59	0
LS017p-1	Pump Motor, 50 hp.	20	5	Repair Bearing (2010)	20	39	0
LS017p-2	Pump Motor, 25 hp.	20	1	PM (2008)	20	0	20
LS017p-3	Pump Motor, 25 hp.	20	1	PM/ Fix vertical pump (2006), Repair Bearing (2008), Replaced New Motor and Pump (2012)	20	0	20
LS017p-4	Pump Motor, 25 hp.	20	1	Rebuilt Pump (2006), PM (2007), Repair Shaft (2008), Replaced New Motor and Pump (2009)	20	1	19
LS018sp-1	Submersible Pump, 10 hp.	20	5	PM (2007)	20	56	0
LS018sp-2	Submersible Pump, 10 hp.	20	5	PM/ Fix Meg Low (2009), Fix Meg Low/ Repair Pump (2012)	20	56	0
LS019sp-1	Submersible Pump, 10 hp.	20	5	PM/Fix Wear Rings (2008)	20	26	0
LS019sp-2	Submersible Pump, 10 hp.	20	5	PM/Fix Meg Low (2009), Fix Meg Bad/Rewind (2014)	20	26	0
LS020sp-1	Submersible Pump, 47 hp.	20	5	Fix Meg Low/ Replace Power Cord (2015)	20	24	0
LS020sp-2	Submersible Pump, 47 hp.	20	5	Fix Meg Bad/ PM (2009)	20	24	0

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LS021sp-1	Submersible Pump, 20 hp.	20	5	Repair Stator (2006), PM/ Replace Wear Plate (2008), Fix Meg Low (2013)	20	23	0
LS021sp-2	Submersible Pump, 20 hp.	20	5	Fix Meg Low/PM (2009)	20	23	0
LS021Asp-1	Submersible Pump, 10 hp.	20	5	PM/ Replace Cord (2008)	20	19	1
LS021Asp-2	Submersible Pump, 10 hp.	20	5	PM/ Replace Cord (2008), Fix Meg Bad (2014)	20	19	1
LS022sp-1	Submersible Pump, 7.5 hp	20	1	Replace Old KSB Pump (2009), PM (2013), Repair Pump (2014)	20	1	19
LS022sp-2	Submersible Pump, 7.5 hp	20	5	PM (2013)	20	26	0
LS023sp-1	Submersible Pump, 9.4 hp.	20	5	PM (2009), Fix Meg Bad (2014), Fix Meg Bad/Rewind (2015)	20	28	0
LS023sp-2	Submersible Pump, 9.4 hp.	20	5		20	33	0
LS024sp-1	Submersible Pump, 10 hp.	20	5	PM (2009), Fix Meg Low/ PM (2014)	20	26	0
LS024sp-2	Submersible Pump, 10 hp.	20	5	PM (2007)	20	26	0
LS025sp-1	Submersible Pump, 15 hp.	20	5	Fix Meg Bad/Rewind (2012)	20	36	0
LS025sp-2	Submersible Pump, 15 hp.	20	5	Fix Meg Bad/Rewind (2013)	20	36	0
LS026sp-1	Submersible Pump, 5 hp.	20	5	Fix Meg Low (2010), Fix Meg Bad/ Rewind (2014)	20	18	2
LS026sp-2	Submersible Pump, 5 hp.	20	5	Fix Meg Low/ Replace New Wear Ring/ PM (2010), Fix Meg Bad/Rewind (2015)	20	18	2
LS027sp-1	Submersible Pump, 2.3 hp.	20	5	Fix Meg Bad/ PM (2011)	20	31	0
LS027sp-2	Submersible Pump, 2.3 hp.	20	5	PM (2013), Fix Meg Bad/ Rewind (2014)	20	31	0
LS028sp-1	Submersible Pump, 5 hp.	20	5	PM (2009)	20	38	0
LS028sp-2	Submersible Pump, 5 hp.	20	5	PM (2009)	20	38	0

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LS029sp-1	Submersible Pump, 88 hp.	20	5	Repair Volute/PM (2008), PM/Repair Volute (2009), Fix Meg Bad (2013)	20	36	0
LS029sp-2	Submersible Pump, 88 hp.	20	5	Repair Volute/ PM (2008), Fix Meg Bad (2011), Fix Meg Bad (2013)	20	36	0
LS030sp-1	Submersible Pump, 10 hp.	20	5	Fix Meg Low/ PM (2009)	20	23	0
LS030sp-2	Submersible Pump, 10 hp.	20	5	Fix Meg Low/ Replace Wear Ring (2010), Fix Impeller Sphere Pump (2015), Fix Meg Bad/ Rewind (2015)	20	23	0
LS031sp-1	Submersible Pump, 10 hp.	20	1	Repacled Pump with new pump (2008)	20	2	18
LS031sp-2	Submersible Pump, 10 hp.	20	1		20	7	13
LS032sp-1	Submersible Pump, 10 hp.	20	5	PM (2007), PM/ Repair Impeller (2011), Fix Meg Bad/ Rewind (2013)	20	38	0
LS032sp-2	Submersible Pump, 10 hp.	20	5	Fix Meg Low/ Replace Wear Ring (2007), Fix Impeller Sphere Pump (2013), Fix Meg Bad/ Rewind (2013)	20	38	0
LS034sp-1	Submersible Pump, 5 hp.	20	5		20	25	0
LS034sp-2	Submersible Pump, 5 hp.	20	5		20	25	0
LS035sp-1	Submersible Pump, 9.4 hp.	20	5		20	31	0
LS035sp-2	Submersible Pump, 9.4 hp.	20	5		20	31	0
LS036sp-1	Submersible Pump, 7.5 hp	20	1	Fix Meg Bad/ PM (2010)	20	0	20
LS036sp-2	Submersible Pump, 7.5 hp	20	1	PM (2008)	20	0	20
LS037sp-1	Submersible Pump, 3.2 hp.	20	5	PM (2007), PM (2010)	20	23	0
LS037sp-2	Submersible Pump, 3.2 hp.	20	5	PM (2010)	20	23	0
LS038sp-1	Submersible Pump, 7.5 hp	20	5	PM (2010)	20	33	0
LS038sp-2	Submersible Pump, 7.5 hp	20	5	PM (2010)	20	33	0
LS039sp-1	Submersible Pump, 20 hp.	20	5	PM (2010)	20	27	0
LS039sp-2	Submersible Pump, 20 hp.	20	5	PM (2010)	20	27	0

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LS040sp-1	Submersible Pump, 25 hp.	20	5	PM (2007), PM (2011), Fix Meg Bad/ Rewind (2013)	20	30	0
LS040sp-2	Submersible Pump, 25 hp.	20	5	PM (2010)	20	30	0
LS041sp-1	Submersible Pump, 14.8 hp.	20	5	Fix Meg Low/ PM/ Replace Cord (2011), Fix Meg Bad/ Rewind (2013), Fig Meg Bad/ Rewind (2013), Fig Meg Bad/ Rewind (2015)	20	18	2
LS041sp-2	Submersible Pump, 14.1 hp	20	5	Rewind (2009), Fix Meg Bad/ Rewind (2013), Fix Meg Bad/ Rewind (2014)	20	18	2
LS042sp-1	Submersible Pump, 5 hp.	20	5	PM (2010)	20	17	3
LS042sp-2	Submersible Pump, 5 hp.	20	5	PM (2010)	20	17	3
LS043sp-1	Submersible Pump, 10 hp.	20	5	Replace Cord/ PM (2008), PM (2010), PM (2012)	20	17	3
LS043sp-2	Submersible Pump, 10 hp.	20	5	PM (2010)	20	17	3
LS044sp-1	Submersible Pump, 15 hp.	20	5	PM (2008, PM (2011), PM (2015)	20	18	2
LS044sp-2	Submersible Pump, 15 hp.	20	5	PM (2011)	20	18	2
LS045sp-1	Submersible Pump, 10 hp.	20	3	PM (2011)	20	15	5
LS045sp-2	Submersible Pump, 10 hp.	20	3	PM (2011)	20	15	5
LS046sp-1	Submersible Pump, 5 hp.	20	1	PM (2011), Fix Meg Bad/ Rewind (2015)	20	10	10
LS046sp-2	Submersible Pump, 5 hp.	20	1	PM (2011)	20	10	10
LS047sp-1	Submersible Pump, 3.2 hp.	20	3	PM (2009), Fix Impeller Wear Ring/PM (2012)	20	14	6
LS047sp-2	Submersible Pump, 3.2 hp.	20	3	PM (2007)	20	14	6
LS048sp-1	Submersible Pump, 5 hp.	20	5		20	18	2
LS048sp-2	Submersible Pump, 10 hp.	20	3	PM (2009)	20	13	7
LS049sp-1	Submersible Pump, 30 hp.	20	3	Fix Meg Bad/ PM (2009), PM/ Vibration Check (2014)	20	13	7
LS049sp-2	Submersible Pump, 30 hp.	20	3	PM (2009)	20	13	7
LS050sp-1	Submersible Pump, 15 hp.	20	3	Fix Meg Low/ PM (2010)	20	12	8
LS050sp-2	Submersible Pump, 15 hp.	20	3	Fix Meg Low/ PM (2010)	20	12	8
LS051sp-1	Submersible Pump, 30 hp.	20	5		20	17	3

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LS051sp-2	Submersible Pump, 30 hp.	20	3	Fix Meg Bad/ PM/ Bore out hole for flusher (2010), Check Breaker/ Motor Meg (2010), Check Motor Meg/ Cord (2010), Check Motor Meg (2014), Check Impeller (2015)	20	12	8
LS052sp-1	Submersible Pump, 20 hp.	20	1	Upgrade Pump (2009), Repair Shaft (2009), Fix Meg Bad/PM (2011)	20	0	20
LS052sp-2	Submersible Pump, 20 hp.	20	1	New Pump (2009), Check Impeller (2010), Upgrade to 23 HP (2014)	20	0	20
LS053sp-1	Submersible Pump, 20 hp.	20	5		20	16	4
LS053sp-2	Submersible Pump, 20 hp.	20	5		20	16	4
LS054sp-1	Submersible Pump, 20 hp.	20	1		20	6	14
LS054sp-2	Submersible Pump, 20 hp.	20	1	Fix Meg Bad/ Rewind (2015)	20	1	19
LS055sp-1	Submersible Pump, 5 hp.	20	5		20	16	4
LS055sp-2	Submersible Pump, 5 hp.	20	5		20	16	4
LS056sp-1	Submersible Pump, 10 hp.	20	3		20	15	5
LS056sp-2	Submersible Pump, 10 hp.	20	1	PM/ Replace New Lifting Bail (2011)	20	10	10
LS057sp-1	Submersible Pump, 88 hp.	20	1	Fix Meg Bad/ Rewind (2013)	20	10	10
LS057sp-2	Submersible Pump, 88 hp.	20	3		20	15	5
LS058sp-1	Submersible Pump, 5 hp.	20	1	Manufacture Wear Ring/ PM (2007), Fix Water in Stator/ PM (2008)	20	8	12
LS058sp-2	Submersible Pump, 5 hp.	20	1	Replace Cord/ PM (2007)	20	8	12
LS059sp-1	Submersible Pump, 5 hp.	20	3		20	14	6
LS059sp-2	Submersible Pump, 5 hp.	20	3		20	14	6
LS060sp-1	Submersible Pump, 47 hp.	20	Unknown	PM (2009), Fix Meg Bad/ Rewind (2015)	20	Unknown	Unknown
LS060sp-2	Submersible Pump, 47 hp.	20	Unknown		20	Unknown	Unknown
LS061sp-1	Submersible Pump, 15 hp.	20	3		20	13	7
LS061sp-2	Submersible Pump, 15 hp.	20	3		20	13	7
LS062sp-1	Submersible Pump, 15 hp.	20	1	Fix Meg Low/ PM (2010)	20	8	12

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LS062sp-2	Submersible Pump, 15 hp.	20	1	Fix Meg Low/ PM (2010), Repair Impeller/ PM (2013)	20	8	12
LS063sp-1	Submersible Pump, 15 hp.	20	1	PM (2007), Fix Meg Low/ PM (2010)	20	8	12
LS063sp-2	Submersible Pump, 15 hp.	20	1	Fix Meg Low/ PM (2010)	20	8	12
LS064sp-1	Submersible Pump, 5 hp.	20	3		20	13	7
LS064sp-2	Submersible Pump, 5 hp.	20	3		20	13	7
LS065sp-1	Submersible Pump, 47 hp.	20	3		20	14	6
LS065sp-2	Submersible Pump, 47 hp.	20	1	Repair Guide Bracket (2009)	20	9	11
LS066sp-1	Submersible Pump, 30 hp.	20	1	PM (2009), Check Water Jacket/PM (2012), Check Motor Meg (2012), Check Volute (2013), Check Vibration/ PM (2015)	20	7	13
LS066sp-2	Submersible Pump, 30 hp.	20	1	Check Motor Meg (2012)	20	7	13
LS067sp-1	Submersible Pump, 60 hp.	20	1	Repair Rail Guide/ PM (2008), Check Motor Meg (2010), PM/ Replace Rubber Face on Volute (2014)	20	8	12
LS067sp-2	Submersible Pump, 60 hp.	20	1	Meg Low/ Replace Cord (2012), PM/ Replace Rubber Face on Volute (2015)	20	8	12
LS068sp-1	Submersible Pump, 5 hp.	20	1	Check Impeller (2014)	20	7	13
LS068sp-2	Submersible Pump, 5 hp.	20	3		20	12	8
LS069sp-1	Submersible Pump, 15 hp.	20	3		20	11	9
LS069sp-2	Submersible Pump, 15 hp.	20	1	PM (2012)	20	6	14
LS070sp-1	Submersible Pump, 15 hp.	20	1	PM (2013)	20	9	11
LS070sp-2	Submersible Pump, 15 hp.	20	1	Fix Meg Bad/ Rewind (2013)	20	9	11
LS071sp-1	Submersible Pump, 20 hp.	20	1	Check Moter Meg (2014)	20	4	16
LS071sp-2	Submersible Pump, 20 hp.	20	1		20	9	11
LS072sp-1	Submersible Pump, 20 hp.	20	3		20	13	7
LS072sp-2	Submersible Pump, 20 hp.	20	3		20	13	7

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS073sp-1	Submersible Pump, 88 hp.	20	1	PM (2011), Check Motor Meg (2014)	20	7	13
LS073sp-2	Submersible Pump, 88 hp.	20	1	Check Bolts on Volute (2011)	20	7	13
LS074sp-1	Submersible Pump, 7.5 hp	20	3		20	12	8
LS074sp-2	Submersible Pump, 7.5 hp	20	1	PM/ Replace Power Cord (2015)	20	7	13
LS075sp-1	Submersible Pump, 5 hp.	20	1	Fix Meg Bad/ PM (2011), PM (2015)	20	7	13
LS075sp-2	Submersible Pump, 5 hp.	20	3		20	12	8
LS076sp-1	Submersible Pump, 20 hp.	20	3		20	11	9
LS076sp-2	Submersible Pump, 20 hp.	20	1	PM (2015)	20	6	14
LS077sp-1	Submersible Pump, 90 hp.	20	1	Fix Meg Bad (2007), Fix Meg Bad (2009), Fix Meg Low/ PM (2010), Check Volute/ PM (2011), Check Impeller/PM (2013)	20	8	12
LS077sp-2	Submersible Pump, 85 hp.	20	1	Repair Volute (2009), Fix Meg Low/ PM (2010), Replace pump with Pump#3	20	8	12
LS077sp-3	Submersible Pump, 90 hp.	20	Unknown	Check Motor Meg (2014), Change to be Pump#2	20	Unknown	Unknown
LS078sp-1	Submersible Pump, 10 hp.	20	1		20	10	10
LS078sp-2	Submersible Pump, 10 hp.	20	1		20	10	10
LS079sp-1	Submersible Pump, 10 hp.	20	3		20	12	8
LS079sp-2	Submersible Pump, 10 hp.	20	3		20	12	8
LS080sp-1	Submersible Pump, 69 hp.	20	1	PM (2015)	20	4	16
LS080sp-2	Submersible Pump, 69 hp.	20	1	Check Meg Low (2013)	20	4	16
LS081sp-1	Submersible Pump, 47 hp.	20	1	PM/ Check Vibration (2013)	20	4	16
LS081sp-2	Submersible Pump, 47 hp.	20	1	Check PM (2012)	20	4	16
LS082sp-1	Submersible Pump, 47 hp.	20	Unknown		20	Unknown	Unknown
LS082sp-2	Submersible Pump, 47 hp.	20	Unknown		20	Unknown	Unknown
LS083sp-1	Submersible Pump, 47 hp.	20	3	PM (2010)	20	11	9
LS083sp-2	Submersible Pump, 47 hp.	20	5		20	16	4
LS084sp-1	Submersible Pump, 15 hp.	20	5		20	16	4
LS084sp-2	Submersible Pump, 15 hp.	20	5		20	16	4
LS085sp-1	Submersible Pump, 47 hp.	20	3		20	12	8
LS085sp-2	Submersible Pump, 47 hp.	20	3		20	12	8
LS086sp-1	Submersible Pump, 20 hp.	20	1		20	10	10
LS086sp-2	Submersible Pump, 20 hp.	20	1	Check Motor Meg (2010)	20	5	15

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Asset		Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS087sp-1	Submersible Pump, 10 hp.	20	1		20	9	11
LS087sp-2	Submersible Pump, 10 hp.	20	1		20	9	11
LS088sp-1	Submersible Pump, 5 hp.	20	1		20	9	11
LS088sp-2	Submersible Pump, 5 hp.	20	1		20	9	11
LS089sp-1	Submersible Pump, 20 hp.	20	1		20	9	11
LS089sp-2	Submersible Pump, 20 hp.	20	1		20	9	11
LS090sp-1	Submersible Pump, 47 hp.	20	1		20	8	12
LS090sp-2	Submersible Pump, 47 hp.	20	1		20	8	12
LS091sp-1	Submersible Pump, 5 hp.	20	1		20	8	12
LS091sp-2	Submersible Pump, 5 hp.	20	1		20	8	12
LS092sp-1	Submersible Pump, 30 hp.	20	1		20	9	11
LS092sp-2	Submersible Pump, 30 hp.	20	1		20	9	11
LS093sp-1	Submersible Pump, 47 hp.	20	1	PM (2011), Check Vibration/ PM (2014)	20	4	16
LS093sp-2	Submersible Pump, 47 hp.	20	1		20	9	11
LS094sp-1	Submersible Pump, 15 hp.	20	3	Check Motor Meg (2015)	20	11	9
LS094sp-2	Submersible Pump, 15 hp.	20	5		20	16	4
LS095sp-1	Submersible Pump, 58 hp.	20	1		20	9	11
LS095sp-2	Submersible Pump, 58 hp.	20	1	Fix Meg Bad/ PM (2010)	20	4	16
LS096sp-1	Submersible Pump, 20 hp.	20	1	PM (2015)	20	4	16
LS096sp-2	Submersible Pump, 20 hp.	20	1		20	9	11
LS097sp-1	Submersible Pump, 7.5 hp	20	1		20	6	14
LS097sp-2	Submersible Pump, 7.5 hp	20	1		20	6	14
LS098sp-1	Submersible Pump, 15 hp.	20	1		20	8	12
LS098sp-2	Submersible Pump, 15 hp.	20	1		20	8	12
LS099sp-1	Submersible Pump, 20 hp.	20	1		20	9	11
LS099sp-2	Submersible Pump, 20 hp.	20	1		20	9	11
LS100sp-1	Submersible Pump, 20 hp.	20	1		20	2	18
LS100sp-2	Submersible Pump, 20 hp.	20	1		20	2	18
LS101sp-1	Submersible Pump, 18.5 hp.	20	1		20	10	10
LS101sp-2	Submersible Pump, 18.5 hp.	20	1		20	10	10
LS102sp-1	Submersible Pump, 4.18 hp.	20	1		20	8	12
LS102sp-2	Submersible Pump, 4.18 hp.	20	1		20	8	12
LS103sp-1	Submersible Pump, 47 hp.	20	1		20	7	13
LS103sp-2	Submersible Pump, 47 hp.	20	1		20	7	13
LS104sp-1	Submersible Pump, 20 hp.	20	1		20	7	13
LS104sp-2	Submersible Pump, 20 hp.	20	1		20	7	13
LS105sp-1	Submersible Pump, 15 hp.	20	1		20	6	14
LS105sp-2	Submersible Pump, 15 hp.	20	1		20	6	14
LS106sp-1	Submersible Pump, 17 hp.	20	1		20	5	15
LS106sp-2	Submersible Pump, 17 hp.	20	1		20	5	15
LS107sp-1	Submersible Pump, 10 hp.	20	1		20	9	11
LS107sp-2	Submersible Pump, 10 hp.	20	1		20	9	11
LS108sp-1	Submersible Pump, 29 hp.	20	1		20	5	15
LS108sp-2	Submersible Pump, 29 hp.	20	1		20	5	15
LS109sp-1	Submersible Pump, 20 hp.	20	1		20	5	15
LS109sp-2	Submersible Pump, 20 hp.	20	1		20	5	15
LS110sp-1	Submersible Pump, 5 hp.	20	1		20	3	17
LS110sp-2	Submersible Pump, 5 hp.	20	1		20	3	17
LS111sp-1	Submersible Pump, 7.5 hp	20	1		20	3	17
LS111sp-2	Submersible Pump, 7.5 hp	20	1		20	3	17

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Asset		Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS112sp-1	Submersible Pump, 5 hp.	20	1		20	2	18
LS112sp-2	Submersible Pump, 5 hp.	20	1		20	2	18
LS113sp-1	Submersible Pump, 16.8 hp.	20	1		20	2	18
LS113sp-2	Submersible Pump, 16.8 hp.	20	1		20	2	18
LS114sp-1	Submersible Pump, 5 hp.	20	1		20	1	19
LS114sp-2	Submersible Pump, 5 hp.	20	1		20	1	19
LS115sp-1	Unknown	Unknown	1		20	0	20
LS115sp-2	Unknown	Unknown	1		20	0	20
LS116sp-1	Submersible Pump, 10 hp.	10	1		20	0	20
LS116sp-2	Submersible Pump, 10 hp.	10	1		20	0	20

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
Lift Station Check Valves:							
LS001	20	Fair	3		20	29	0
LS002	20	Fair	3		20	32	0
LS003	20	Fair	3		20	27	0
LS004	20	Fair	3		20	27	0
LS005	20	Good	1		20	28	0
LS005A	20	Fair	3		20	23	0
LS006	20	Good	1		20	11	9
LS007	20	Good	1		20	9	11
LS008	20	Good	1		20	13	7
LS009	20	Good	1		20	19	1
LS009A	20	Fair	3		20	26	0
LS010	20	Good	1		20	7	13
LS011	20	Good	1		20	12	8
LS012	20	Good	1		20	16	4
LS013	20	Fair	3		20	21	0
LS014	20	Fair	3		20	14	6
LS015	20	Good	1		20	21	0
LS016	20	Good	1		20	14	6
LS017#1	20	Fair	3		20	23	0
LS017#2	20	Fair	3		20	23	0
LS017#3	20	Fair	3		20	22	0
LS017#4	20	Fair	3		20	22	0
LS018	20	Fair	3		20	7	13
LS019	20	Fair	3		20	31	0
LS020	20	Fair	3		20	12	8
LS021	20	Fair	3		20	19	1
LS021A	20	Good	1		20	4	16
LS022	20	Good	1		20	14	6
LS023	20	Fair	3		20	33	0
LS024	20	Good	1		20	11	9
LS025	20	Good	1		20	17	3
LS026	20	Good	1		20	14	6
LS027	20	Fair	3		20	36	0
LS028	20	Poor	5		20	20	0
LS029	20	Good	1		20	4	16
LS030	20	Good	1		20	4	16
LS031	20	Good	1	Replaced check valve in July/2015	20	1	19
LS032	20	Fair	3		20	22	0
LS034	20	Good	1		20	14	6
LS035	20	Good	1		20	11	9
LS036	20	Good	1		20	13	7
LS037	20	Fair	3		20	29	0
LS038	20	Poor	5		20	47	0
LS039	20	Poor	5		20	34	0
LS040	20	Good	1		20	17	3
LS041	20	Fair	3		20	24	0
LS042	20	Fair	3		20	23	0
LS043	20	Fair	3		20	23	0
LS044	20	Fair	3		20	24	0
LS045	20	Good	1		20	9	11
LS046	20	Good	1		20	14	6

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS047	20	Good	1		20	20	0
LS048	20	Good	1		20	18	2
LS049	20	Good	1		20	18	2
LS050	20	Good	1		20	17	3
LS051	20	Good	1		20	4	16
LS052	20	Good	1		20	14	6
LS053	20	Good	1		20	18	2
LS054	20	Good	1		20	14	6
LS055	20	Good	1		20	16	4
LS056	20	Good	1		20	15	5
LS057	20	Fair	3		20	17	3
LS058	20	Good	1		20	15	5
LS059	20	Good	1		20	15	5
LS060	20	Fair	3		20	15	5
LS061	20	Good	1		20	12	8
LS062	20	Good	1		20	14	6
LS063	20	Good	1		20	13	7
LS064	20	Good	1		20	14	6
LS065	20	Good	1		20	14	6
LS066	20	Good	1		20	14	6
LS067	20	Good	1		20	14	6
LS068	20	Good	1		20	12	8
LS069	20	Good	1		20	11	9
LS070	20	Good	1		20	13	7
LS071	20	Good	1		20	9	11
LS072	20	Good	1		20	13	7
LS073	20	Fair	3		20	12	8
LS074	20	Good	1		20	12	8
LS075	20	Good	1		20	12	8
LS076	20	Good	1		20	12	8
LS077#1	20	Fair	3		20	12	8
LS077#2	20	Fair	3		20	12	8
LS077#3	20	Fair	3		20	12	8
LS078	20	Good	1		20	12	8
LS079	20	Good	1		20	11	9
LS080	20	Good	1		20	9	11
LS081	20	Good	1		20	14	6
LS082	20	Good	1		20	10	10
LS083	20	Fair	3		20	16	4
LS084	20	Good	1		20	11	9
LS085	20	Good	1		20	12	8
LS086	20	Good	1		20	11	9
LS087	20	Good	1		20	11	9
LS088	20	Good	1		20	10	10
LS089	20	Good	1		20	11	9
LS090	20	Good	1		20	9	11
LS091	20	Good	1		20	10	10
LS092	20	Good	1		20	9	11
LS093	20	Good	1		20	9	11
LS094	20	Good	1		20	9	11
LS095	20	Good	1		20	9	11
LS096	20	Good	1		20	9	11
LS097	20	Good	1		20	7	13
LS098	20	Good	1		20	11	9
LS099	20	Good	1		20	9	11
LS100	20	Good	1		20	2	18

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS101	20	Good	1		20	10	10
LS102	20	Good	1		20	10	10
LS103	20	Good	1		20	9	11
LS104	20	Good	1		20	9	11
LS105	20	Good	1		20	7	13
LS106	20	Good	1		20	6	14
LS107	20	Good	1		20	9	11
LS108	20	Good	1		20	8	12
LS109	20	Good	1		20	11	9
LS110	20	Good	1		20	9	11
LS111	20	Good	1		20	2	18
LS112	20	Good	1		20	9	11
LS113	20	Good	1		20	8	12
LS114	20	Good	1		20	3	17
LS115	20	Good	1		20	0	20
LS116	20	Good	1		20	2	18

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
Lift Station Isolation Valves:							
LS001	20	Good	1		20	29	0
LS002	20	Fair	3		20	32	0
LS003	20	Good	1		20	28	0
LS004	20	Good	1		20	27	0
LS005	20	Fair	3		20	28	0
LS005A	20	Good	1		20	23	0
LS006	20	Good	1		20	28	0
LS007	20	Good	1		20	29	0
LS008	20	Good	1		20	28	0
LS009	20	Fair	3		20	27	0
LS009A	20	Good	1		20	25	0
LS010	20	Poor	5		20	27	0
LS011	20	Poor	5		20	37	0
LS012	20	Good	1		20	16	4
LS013	20	Good	1		20	30	0
LS014	20	Good	1		20	14	6
LS015	20	Good	1		20	21	0
LS016	20	Good	1		20	64	0
LS017#1 Gate Valve	20	Poor	5		20	46	0
LS017#1 Plug Valve	20	Poor	5		20	46	0
LS017#2 Gate Valve	20	Poor	5		20	43	0
LS017#2 Plug Valve	20	Poor	5		20	43	0
LS017#3 Gate Valve	20	Poor	5		20	47	0
LS017#3 Plug Valve	20	Fair	3		20	47	0
LS017#4 Gate Valve	20	Poor	5		20	44	0
LS017#4 Plug Valve	20	Good	1		20	44	0
LS018	20	Poor	5		20	61	0
LS019	20	Good	1		20	31	0
LS020	20	Good	1		20	29	0
LS021	20	Good	1		20	27	0
LS021A	20	Good	1		20	24	0
LS022	20	Good	1		20	31	0
LS023	20	Good	1		20	33	0
LS024	20	Good	1		20	31	0
LS025	20	Fair	3		20	41	0
LS026	20	Good	1		20	23	0
LS027	20	Poor	5		20	36	0
LS028	20	Poor	5		20	43	0
LS029	20	Good	1		20	41	0
LS030	20	Fair	3		20	28	0
LS031	20	Good	1		20	43	0
LS032	20	Good	1		20	43	0
LS034	20	Good	1		20	25	0
LS035	20	Good	1		20	31	0
LS036	20	Good	1		20	34	0
LS037	20	Good	1		20	28	0
LS038	20	Poor	5		20	38	0
LS039	20	Fair	3		20	32	0
LS040	20	Good	1		20	35	0
LS041	20	Good	1		20	23	0
LS042	20	Good	1		20	22	0
LS043	20	Good	1		20	22	0

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS044	20	Good	1		20	23	0
LS045	20	Good	1		20	20	0
LS046	20	Good	1		20	15	5
LS047	20	Good	1		20	19	1
LS048	20	Good	1		20	18	2
LS049	20	Good	1		20	18	2
LS050	20	Good	1		20	17	3
LS051	20	Poor	5		20	17	3
LS052	20	Good	1		20	14	6
LS053	20	Good	1		20	16	4
LS054	20	Good	1		20	16	4
LS055	20	Good	1		20	16	4
LS056	20	Good	1		20	15	5
LS057	20	Good	1		20	15	5
LS058	20	Good	1		20	13	7
LS059	20	Good	1		20	14	6
LS060	20	Good	1		20	N/A	N/A
LS061	20	Good	1		20	13	7
LS062	20	Good	1		20	13	7
LS063	20	Good	1		20	13	7
LS064	20	Good	1		20	13	7
LS065	20	Good	1		20	14	6
LS066	20	Good	1		20	12	8
LS067	20	Good	1		20	13	7
LS068	20	Good	1		20	12	8
LS069	20	Good	1		20	11	9
LS070	20	Good	1		20	13	7
LS071	20	Good	1		20	9	11
LS072	20	Good	1		20	13	7
LS073	20	Fair	3		20	12	8
LS074	20	Good	1		20	12	8
LS075	20	Good	1		20	12	8
LS076	20	Good	1		20	11	9
LS077#1	20	Fair	3		20	13	7
LS077#2	20	Fair	3		20	13	7
LS077#3	20	Fair	3		20	13	7
LS078	20	Good	1		20	10	10
LS079	20	Good	1		20	12	8
LS080	20	Good	1		20	9	11
LS081	20	Good	1		20	9	11
LS082	20	Good	1		20	10	10
LS083	20	Fair	3		20	16	4
LS084	20	Good	1		20	16	4
LS085	20	Good	1		20	12	8
LS086	20	Good	1		20	10	10
LS087	20	Good	1		20	9	11
LS088	20	Good	1		20	9	11
LS089	20	Good	1		20	9	11
LS090	20	Good	1		20	10	10
LS091	20	Good	1		20	8	12
LS092	20	Good	1		20	9	11
LS093	20	Good	1		20	9	11
LS094	20	Good	1		20	16	4
LS095	20	Good	1		20	9	11
LS096	20	Good	1		20	9	11
LS097	20	Good	1		20	6	14

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
LS098	20	Good	1		20	8	12
LS099	20	Good	1		20	9	11
LS100	20	Good	1		20	2	18
LS101	20	Good	1		20	10	10
LS102	20	Good	1		20	8	12
LS103	20	Good	1		20	10	10
LS104	20	Good	1		20	7	13
LS105	20	Good	1		20	7	13
LS106	20	Good	1		20	5	15
LS107	20	Good	1		20	9	11
LS108	20	Good	1		20	5	15
LS109	20	Good	1		20	5	15
LS110	20	Good	1		20	3	17
LS111	20	Good	1		20	3	17
LS112	20	Good	1		20	2	18
LS113	20	Good	1		20	2	18
LS114	20	Good	1		20	1	19
LS115	20	Good	1		20	0	20
LS116	20	Good	1		20	0	20

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Asset	Asset Type	Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Lift Station Electrical Systems:								
LS001	Control Panel	20	Fair,need replaced in 4yrs	3		20	29	4
LS002	Control Panel	20	Fair,need replaced in 3yrs	3		20	Unknown	3
LS003	Control Panel	20	Fair,need replaced in 4yrs	3		20	27	4
LS004	Control Panel	20	Fair,need updated in 5yrs	3		20	26	5
LS005	Control Panel	20	Poor ,needs updated 2yrs	5		20	27	2
LS005A	Control Panel	20	Good	1		20	23	0
LS005A	GEN-SET Engine	20	Fair	3		20	23	0
LS006	Control Panel	20	Good	1		20	Unknown	Unknown
LS007	Control Panel	20	Good	1		20	28	0
LS008	Control Panel	20	Good	1		20	28	0
LS009	Control Panel	20	Good		Replaced in 2010	20	5	15
LS009A	Control Panel	20	Good	1		20	25	0
LS010	Control Panel	20	Need replacing due to gases	5		20	29	0
LS011	Control Panel	20	Good	1	Replaced in 2003	20	12	8
LS012	Control Panel	20	Good	1		20	16	4
LS013	Control Panel	20	Poor, needs updated 1yr	5		20	Unknown	1
LS014	Control Panel	20	Fair, 4yrs	3		20	15	5
LS015	Control Panel	20	Good	1		20	21	0
LS016	Control Panel	20	Good	1		20	21	0
LS017	Control Panel	20	Good	1		20	Unknown	Unknown
LS017#1	VFD	20	Poor/needs replace with new one	5		20	Unknown	Unknown
LS017#2	VFD	20	Good	1		20	0	20
LS017#3	VFD	20	Good	1		20	Unknown	Unknown
LS017#4	VFD	20	Good	1		20	Unknown	Unknown
LS017	GEN-SET Engine	20	Poor	5		20	44	0
LS018	Control Panel	20	Fair,6yrs	3		20	Unknown	6
LS019	Control Panel	20	Good	1	Replaced in 2014	20	1	19
LS020	Control Panel	20	Poor,2yrs	5		20	Unknown	2
LS021	Control Panel	20	Good	1		20	28	0
LS021A	Control Panel	20	Poor,2yrs	5		20	24	2
LS022	Control Panel	20	Good	1		20	Unknown	Unknown
LS023	Control Panel	20	Good	1		20	11	9
LS024	Control Panel	20	Good	1	Replaced in 2004	20	11	9
LS025	Control Panel	20	1yr left due to gases	5		20	17	1
LS026	Control Panel	20	2yrs left,needs updated	5		20	Unknown	2
LS027	Control Panel	20	Poor, Update required soon	5		20	Unknown	1
LS028	Control Panel	20	Poor, needs updated soon	5		20	Unknown	1
LS029	Control Panel	20	Updated in 1995/ 1yr left Due to Gases Corrision	5		20	20	0
LS029	GEN-SET Engine	20	Poor	5		20	41	0
LS030	Control Panel	20	Poor,needs updated within 2yrs	5		20	29	0

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Asset	Asset Type	Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS031	Control Panel	20	Good	1	Replaced in 2014	20	1	19
LS032	Control Panel	20	Good	1	Replaced in 2014	20	1	19
LS034	Control Panel	20	Good	1		20	21	0
LS035	Control Panel	20	Good	1		20	21	0
LS036	Control Panel	20	Good	1	Replaced in 2009	20	6	14
LS037	Control Panel	20	Fair,4yrs	3		20	29	4
LS038	Control Panel	20	Fair,10 YRS left	3		20	Unknown	10
LS039	Control Panel	20	Poor,3-5 yrs of life left	5		20	31	4
LS040	Control Panel	20	Good	1		20	21	0
LS041	Control Panel	20	Fair,2yrs	3		20	Unknown	2
LS042	Control Panel	20	Good	1		20	22	0
LS043	Control Panel	20	Fair	3		20	Unknown	Unknown
LS044	Control Panel	20	Good	1		20	16	4
LS045	Control Panel	20	Good	1		20	21	0
LS046	Control Panel	20	Good	1		20	20	0
LS047	Control Panel	20	Poor	5		20	19	1
LS048	Control Panel	20	Good	1		20	Unknown	Unknown
LS049	Control Panel	20	Fair	3		20	Unknown	Unknown
LS050	Control Panel	20	Good	1		20	17	3
LS051	Control Panel	20	Poor, needs replaced 1yr due to gases	5		20	17	1
LS052	Control Panel	20	Good	1		20	Unknown	Unknown
LS053	Control Panel	20	Good	1		20	15	5
LS054	Control Panel	20	Good	1		20	14	6
LS055	Control Panel	20	Good	1		20	15	5
LS056	Control Panel	20	Good	1		20	15	5
LS057	Control Panel	20	Good	1		20	14	6
LS058	Control Panel	20	Good	1		20	13	7
LS059	Control Panel	20	Good	1		20	13	7
LS060	Control Panel	20	Poor, needs replace in 1 to 2 yrs due to Gases corroded components	5		20	13	2
LS061	Control Panel	20	Good	1		20	13	7
LS062	Control Panel	20	Good	1		20	13	7
LS063	Control Panel	20	Good	1		20	13	7
LS064	Control Panel	20	Good	1		20	13	7
LS065	Control Panel	20	Good	1		20	13	7
LS066	Control Panel	20	Good	1		20	12	8
LS067	Control Panel	20	Poor,3-5 yrs of life left	5		20	12	4
LS067	GEN-SET Engine	20	Fair	3		20	13	7
LS068	Control Panel	20	Good	1		20	13	7
LS069	Control Panel	20	Good	1		20	12	8
LS070	Control Panel	20	Fair	3		20	12	8
LS071	Control Panel	20	Good	1		20	11	9
LS072	Control Panel	20	Good	1		20	11	9
LS073	Control Panel	20	Fair	3		20	Unknown	Unknown
LS073	GEN-SET Engine	20	Fair	3		20	12	8
LS074	Control Panel	20	Good	1		20	Unknown	Unknown
LS075	Control Panel	20	Good	1		20	Unknown	Unknown
LS076	Control Panel	20	Good	1		20	11	9
LS077	Control Panel	20	Good	1		20	Unknown	Unknown
LS077	GEN-SET Engine	20	Fair	3		20	13	7
LS077#1	VFD	20	Good	1		20	Unknown	Unknown
LS077#2	VFD	20	Good	1		20	0	20
LS077#3	VFD	20	Good	1		20	2	18
LS078	Control Panel	20	Good	1		20	10	10
LS079	Control Panel	20	Good	1		20	10	10

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Asset	Asset Type	Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
LS080	Control Panel	20	Good	1		20	9	11
LS081	Control Panel	20	Good	1		20	9	11
LS082	Control Panel	20	Fair	3		20	10	10
LS082	GEN-SET Engine	20	Fair	3		20	Unknown	Unknown
LS083	Control Panel	20	Poor,gases corroding panel	5		20	9	1
LS084	Control Panel	20	Good	1		20	10	10
LS085	Control Panel	20	Good	1		20	10	10
LS086	Control Panel	20	Good	1		20	10	10
LS087	Control Panel	20	Good	1		20	10	10
LS088	Control Panel	20	Good	1		20	8	12
LS089	Control Panel	20	Good	1		20	9	11
LS090	Control Panel	20	Good	1		20	9	11
LS091	Control Panel	20	Good	1		20	8	12
LS092	Control Panel	20	Good	1		20	9	11
LS093	Control Panel	20	Good	1		20	8	12
LS094	Control Panel	20	Good	1		20	8	12
LS095	Control Panel	20	Good	1		20	Unknown	Unknown
LS095	GEN-SET Engine	20	Fair	3		20	9	11
LS096	Control Panel	20	Good	1		20	8	12
LS097	Control Panel	20	Good	1		20	6	14
LS098	Control Panel	20	Good	1		20	8	12
LS099	Control Panel	20	Good	1		20	8	12
LS100	Control Panel	20	Good	1		20	2	18
LS101	Control Panel	20	Good	1		20	8	12
LS102	Control Panel	20	Good	1		20	8	12
LS103	Control Panel	20	Good	1		20	8	12
LS104	Control Panel	20	Good	1		20	4	16
LS105	Control Panel	20	Good	1		20	7	13
LS106	Control Panel	20	Good	1		20	6	14
LS107	Control Panel	20	Good	1		20	8	12
LS108	Control Panel	20	Good	1		20	8	12
LS109	Control Panel	20	Good	1		20	5	15
LS110	Control Panel	20	Good	1		20	3	17
LS111	Control Panel	20	Good	1		20	2	18
LS112	Control Panel	20	Good	1		20	2	18
LS113	Control Panel	20	Good	1		20	2	18
LS114	Control Panel	20	Good	1		20	1	19
LS115	Control Panel	20	Good	1		20	0	20
LS116	Control Panel	20	Good	1		20	0	20
Portable GEN#1	GEN-SET Engine	20	Unknown	Unknown		20	Unknown	Unknown
Portable GEN#2	GEN-SET Engine	20	Unknown	Unknown		20	Unknown	Unknown
Portable GEN#3	GEN-SET Engine	20	Unknown	Unknown		20	Unknown	Unknown

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Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Distribution Forcemains:	**Material**	**Diameter (Inches)**							
1	PVC	4	50	Good	1		55	9	46
2	HDPE	4	100	Good	1		100	9	91
3	PVC	6	50	Good	1		55	9	46
4	PVC	20	50	Unknown	Unknown		55	Unknown	Unknown
5	PVC	12	50	Good	1		55	10	45
6	PVC	12	50	Good	1		55	10	45
7	PVC	12	50	Good	1		55	10	45
8	PVC	6	50	Good	1		55	10	45
9	PVC	12	50	Good	1		55	10	45
10	HDPE	4	100	Good	1		100	8	92
11	PVC	4	50	Good	1		55	11	44
12	PVC	12	50	Good	1		55	13	42
13	PVC	12	50	Good	1		55	10	45
14	HDPE	8	100	Good	1		100	10	90
15	PVC	12	50	Good	1		55	10	45
16	PVC	8	50	Good	1		55	22	33
17	PVC	8	50	Good	1		55	22	33
18	PVC	12	50	Good	1		55	14	41
19	HDPE	6	100	Good	1		100	11	89
20	HDPE	4	100	Good	1		100	11	89
21	HDPE	4	100	Good	1		100	10	90
22	DIP	30	50	Unknown	Unknown		50	Unknown	Unknown
23	PVC	20	50	Good	1		55	13	42
24	PVC	20	50	Poor	5		55	Unknown	0
25	PVC	20	50	Poor	5		55	Unknown	0
26	HDPE	12	100	Good	1		100	10	90
27	PVC	20	50	Good	1		55	13	37
28	PVC	6	50	Good	1		55	13	37
29	PVC	20	50	Good	1		55	13	37
30	PVC	8	50	Good	1		55	13	37
31	PVC	20	50	Unknown	Unknown		55	Unknown	Unknown
32	DIP	30	50	Unknown	Unknown		50	Unknown	Unknown
33	DIP	30	50	Unknown	Unknown		50	Unknown	Unknown
34	DIP	24	50	Unknown	Unknown		50	Unknown	Unknown
35	DIP	30	50	Unknown	Unknown		50	Unknown	Unknown
36	PVC	6	50	Good	1		55	28	27
37	PVC	8	50	Good	1		55	18	37
38	PVC	6	50	Good	1		55	11	44
39	PVC	6	50	Unknown	Unknown		55	Unknown	Unknown
40	PVC	12	50	Unknown	Unknown		55	Unknown	Unknown
41	PVC	12	50	Unknown	Unknown		55	Unknown	Unknown
42	PVC	4	50	Good	1		55	28	27
43	PVC	4	50	Good	1		55	22	33
44	PVC	8	50	Good	1		55	20	35
45	PVC	8	50	Good	1		55	20	35
46	PVC	8	50	Good	1		55	9	46
47	DIP	20	50	Fair	3		50	26	24

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Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
48	DIP	20	50	Good	1		50	18	32
49	DIP	20	50	Fair	3		50	26	24
50	DIP	20	50	Fair	3		50	26	24
51	DIP	20	50	Fair	3		50	26	24
52	DIP	20	50	Fair	3		50	26	24
53	PVC	4	50	Good	1		55	12	43
54	PVC	8	50	Good	1		55	28	27
55	PVC	12	50	Fair	3		55	30	25
56	PVC	12	50	Good	1		55	18	37
57	PVC	8	50	Good	1		55	18	37
58	PVC	12	50	Good	1		55	18	37
59	DIP	18	50	Good	1		50	18	32
60	PVC	12	50	Good	1		55	18	37
61	DIP	18	50	Good	1		50	18	32
62	PVC	8	50	Good	1		55	18	37
63	PVC	8	50	Good	1		55	18	37
64	DIP	18	50	Good	1		50	18	32
65	PVC	8	50	Good	1		55	18	37
66	PVC	8	50	Good	1		55	18	37
67	DIP	18	50	Good	1		50	18	32
68	PVC	8	50	Good	1		55	18	37
69	DIP	18	50	Good	1		50	18	32
70	PVC	8	50	Good	1		55	18	37
71	DIP	18	50	Good	1		50	18	32
72	DIP	16	50	Good	1		50	18	32
73	DIP	18	50	Good	1		50	18	32
74	PVC	8	50	Good	1		55	18	37
75	DIP	14	50	Good	1		50	18	32
76	DIP	14	50	Good	1		50	18	32
77	PVC	4	50	Good	1		55	22	33
78	CAS	18	75	Fair	3		75	44	31
79	CAS	18	75	Fair	3		75	44	31
80	CAS	18	75	Good	1		75	23	52
81	PVC	6	50	Good	1		55	16	39
82	PVC	4	50	Good	1		55	28	27
83	PVC	8	50	Good	1		55	25	30
84	PVC	6	50	Fair	3		55	41	14
85	PVC	12	50	Fair	3		55	30	25
86	PVC	12	50	Fair	3		55	30	25
87	PVC	4	50	Good	1		55	11	44
88	PVC	2	50	Poor	5		55	Unknown	0
89	PVC	12	50	Good	1		55	29	26
90	PVC	12	50	Fair	3		55	29	21
91	PVC	4	50	Poor	5		55	Unknown	0
92	PVC	3	50	Poor	5		55	Unknown	0
93	PVC	3	50	Good	1		55	27	28
94	PVC	6	50	Good	1		55	23	32
95	PVC	8	50	Fair	3		55	30	25
96	PVC	8	50	Good	1		55	16	39
97	PVC	20	50	Good	1		55	13	42
98	PVC	12	50	Good	1		55	15	40
99	PVC	6	50	Good	1		55	15	40

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Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
100	PVC	12	50	Good	1		55	15	40
101	PVC	8	50	Good	1		55	15	40
102	PVC	12	50	Good	1		55	15	40
103	PVC	12	50	Good	1		55	15	40
104	PVC	6	50	Good	1		55	12	43
105	PVC	6	50	Good	1		55	12	43
106	PVC	6	50	Good	1		55	1	54
107	PVC	6	50	Good	1		55	16	39
108	PVC	8	50	Good	1		55	24	31
109	PVC	6	50	Good	1		55	27	28
110	PVC	12	50	Good	1		55	25	30
111	DIP	16	50	Fair	3		50	25	25
112	PVC	8	50	Fair	3		55	31	24
113	PVC	6	50	Good	1		55	9	46
114	PVC	6	50	Good	1		55	9	46
115	PVC	6	50	Good	1		55	15	40
116	PVC	6	50	Good	1		55	12	43
117	PVC	10	50	Good	1		55	12	43
119	PVC	12	50	Good	1		55	17	38
120	PVC	12	50	Good	1		55	17	38
121	PVC	12	50	Good	1		55	17	38
122	PVC	12	50	Good	1		55	17	38
123	PVC	12	50	Good	1		55	17	38
124	PVC	4	50	Good	1		55	13	42
125	PVC	4	50	Good	1		55	13	42
126	PVC	10	50	Good	1		55	16	39
127	PVC	10	50	Good	1		55	16	39
128	PVC	10	50	Good	1		55	16	39
129	PVC	10	50	Good	1		55	15	40
130	PVC	6	50	Unknown	Unknown		55	Unknown	Unknown
131	PVC	8	50	Unknown	Unknown		55	Unknown	Unknown
132	PVC	4	50	Unknown	Unknown		55	Unknown	Unknown
133	PVC	8	50	Unknown	Unknown		55	Unknown	Unknown
134	PVC	4	50	Unknown	Unknown		55	Unknown	Unknown
135	PVC	8	50	Unknown	Unknown		55	Unknown	Unknown
136	PVC	12	50	Fair	3		55	30	25
137	PVC	8	50	Good	1		55	7	48
138	PVC	4	50	Good	1		55	8	47
139	PVC	8	50	Unknown	Unknown		55	Unknown	Unknown
140	PVC	12	50	Fair	3		55	30	25
141	PVC	10	50	Good	1		55	15	40
142	PVC	10	50	Good	1		55	16	39
143	PVC	10	50	Good	1		55	16	39
144	PVC	4	50	Good	1		55	16	39
145	PVC	12	50	Good	1		55	17	38
146	PVC	12	50	Good	1		55	17	38
147	PVC	12	50	Good	1		55	17	38
148	PVC	4	50	Good	1		55	25	30
149	DIP	16	50	Fair	3		50	25	25
150	PVC	12	50	Good	1		55	17	38
151	PVC	12	50	Good	1		55	17	38
152	PVC	6	50	Fair	3		55	32	23

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Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
153	AC	4	100	Fair	3		100	55	45
154	PVC	4	50	Good	1		55	14	41
155	PVC	4	50	Good	1		55	23	32
156	PVC	6	50	Good	1		55	17	38
157	PVC	6	50	Good	1		55	17	38
158	PVC	8	50	Good	1		55	17	38
159	PVC	12	50	Good	1		55	17	38
160	PVC	6	50	Good	1		55	17	38
161	PVC	12	50	Good	1		55	17	38
162	PVC	12	50	Good	1		55	17	38
163	AC	8	100	Fair	3		100	55	45
164	AC	6	100	Fair	3		100	55	45
165	Unknown	4	Unknown	Unknown	Unknown		Unknown	Unknown	Unknown
166	CAS	6	75	Fair	3		Unknown	64	11
167	PVC	12	50	Fair	1		Unknown	18	37
168	HDPE	12	100	Good	1		Unknown	9	91
169	HDPE	12	100	Good	1		Unknown	9	91
170	PVC	6	50	Good	1		Unknown	10	45
171	PVC	6	50	Good	1		Unknown	10	45
172	PVC	8	50	Good	1		Unknown	9	46
173	Unknown	8	Unknown	Unknown	Unknown		Unknown	9	41
174	PVC	12	50	Unknown	Unknown		Unknown	Unknown	Unknown
175	PVC	6	50	Good	1		Unknown	9	46
176	Unknown	4	Unknown	Unknown	Unknown		Unknown	31	19
177	Unknown	4	Unknown	Unknown	Unknown		Unknown	8	42
178	PVC	4	50	Unknown	1		Unknown	9	41
179	PVC	6	50	Unknown	1		Unknown	5	45
180	PVC	8	50	Unknown	1		Unknown	9	41
181	PVC	8	50	Unknown	1		Unknown	9	41
182	PVC	8	50	Unknown	1		Unknown	9	41
183	PVC	4	50	Unknown	1		Unknown	9	41
184	PVC	4	50	Good	1		55	8	42
185	PVC	6	50	Good	1		55	9	41
186	PVC	4	50	Good	1		55	8	42
187	PVC	4	50	Good	1		55	8	42
188	PVC	12	50	Good	1		55	8	42
189	PVC	6	50	Good	1		55	8	42
190	PVC	3	50	Good	1		55	8	42
191	PVC	2.5	50	Poor	5		55	Unknown	0
192	PVC	4	50	Good	1		55	9	41
193	Unknown	8	Unknown	Unknown	Unknown		Unknown	7	43
194	Unknown	4	Unknown	Unknown	Unknown		Unknown	7	43
195	Unknown	8	Unknown	Unknown	Unknown		Unknown	7	43
196	PVC	4	50	Good	1		55	10	40
197	PVC	4	50	Good	1		55	7	43
198	PVC	4	50	Good	1		55	7	43
199	HDPE	4	100	Good	1		100	7	93
200	HDPE	4	100	Good	1		100	7	93
201	HDPE	4	100	Good	1		100	7	93
202	PVC	4	50	Good	1		55	6	44
203	PVC	4	50	Good	1		55	24	26
204	PVC	2	50	Poor	5		55	Unknown	0

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Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
205	PVC	8	50	Good	1		55	9	41
206	PVC	4	50	Good	1		55	8	42
207	PVC	4	50	Good	1		55	9	41
208	PVC	4	50	Fair	3		55	29	21
209	PVC	8	50	Fair	3		55	25	25
210	PVC	8	50	Good	1		55	17	33
211	PVC	10	50	Fair	3		55	29	21
212	PVC	4	50	Fair	3		55	37	13
213	PVC	4	50	Good	1		55	16	34
214	PVC	4	50	Fair	3		55	30	20
215	CAS	18	75	Fair	3		75	44	31
216	PVC	6	50	Fair	3		55	31	19
217	PVC	6	50	Good	1		55	14	36
218	PVC	4	50	Fair	3		55	31	19
219	PVC	8	50	Fair	3		55	33	17
220	PVC	6	50	Fair	3		55	31	19
221	CAS	12	75	Fair	3		75	41	34
222	CAS	6	75	Good	1		75	22	53
223	PVC	8	50	Fair	3		55	26	24
224	PVC	10	50	Good	1		55	20	30
225	DIP	14	50	Fair	3		50	41	9
226	PVC	12	50	Good	1		55	20	30
227	PVC	8	50	Fair	3		55	28	22
228	DIP	6	50	Good	1		50	22	28
229	PVC	4	50	Fair	3		55	25	25
230	PVC	6	50	Fair	3		55	31	19
231	PVC	6	50	Fair	3		55	32	18
232	PVC	8	50	Fair	3		55	27	23
234	PVC	6	50	Good	1		55	22	28
235	PVC	4	50	Good	1		55	20	30
236	PVC	4	50	Good	1		55	20	30
237	PVC	4	50	Good	1		55	19	31
238	PVC	4	50	Unknown	Unknown		55	Unknown	Unknown
239	DIP	16	50	Unknown	Unknown		50	Unknown	Unknown
240	PVC	12	50	Good	1		55	17	33
241	PVC	4	50	Good	1		55	14	36
242	PVC	4	50	Good	1		55	16	34
243	PVC	4	50	Good	1		55	16	34
244	PVC	4	50	Good	1		55	15	35
245	PVC	4	50	Good	1		55	13	37
246	PVC	4	50	Fair	3		55	28	22
247	PVC	12	50	Good	1		55	15	35
248	DIP	16	50	Fair	3		50	25	25
249	PVC	6	50	Good	1		55	23	27
250	PVC	6	50	Good	1		55	13	37
251	PVC	4	50	Good	1		55	13	37
252	PVC	8	50	Good	1		55	14	36
253	PVC	6	50	Good	1		55	12	38
254	PVC	16	50	Good	1		55	13	37
255	PVC	6	50	Good	1		55	11	39
256	PVC	6	50	Good	1		55	13	37
257	PVC	6	50	Good	1		55	11	39

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
258	PVC	4	50	Good	1		55	12	38
259	PVC	4	50	Good	1		55	12	38
260	PVC	20	50	Good	1		55	10	40
261	PVC	4	50	Good	1		55	10	40
262	PVC	6	50	Good	1		55	12	38
263	PVC	4	50	Fair	3		55	28	22
264	PVC	6	50	Good	1		55	9	41
265	PVC	4	50	Good	1		55	5	45
266	PVC	8	50	Good	1		55	9	41
267	PVC	6	50	Good	1		55	10	40
268	PVC	4	50	Good	1		55	9	41
269	PVC	8	50	Fair	3		55	27	23
270	PVC	8	50	Good	1		55	22	28
271	PVC	8	50	Fair	3		55	25	25
272	HDPE	4	100	Good	1		100	8	92
273	PVC	4	50	Good	1		55	9	41
274	PVC	4	50	Good	1		55	9	41
275	PVC	4	50	Good	1		55	9	41
276	PVC	4	50	Good	1		55	9	41
277	PVC	4	50	Fair	3		55	34	16
278	PVC	4	50	Good	1		55	5	45
279	PVC	6	50	Good	1		55	14	36
280	PVC	12	50	Good	1		55	17	33
281	PVC	12	50	Good	1		55	17	33
282	PVC	8	50	Good	1		55	15	35
283	PVC	4	50	Good	1		55	8	42
284	PVC	6	50	Good	1		55	14	36
285	Unknown	6	Unknown	Unknown	Unknown		Unknown	5	45
287	PVC	12	50	Good	1		55	5	45
289	PVC	6	50	Good	1		55	5	45
290	HDPE	4	100	Good	1		100	Unknown	Unknown
291	PVC	12	50	Good	1		55	10	40
292	Unknown	Unknown	Unknown	Unknown	Unknown		Unknown	Unknown	Unknown
293	HDPE	12	100	Good	1		100	9	91
294	PVC	12	50	Good	1		55	10	40
295	HDPE	4	100	Good	1		100	5	95
296	PVC	12	50	Good	1		55	10	40
297	PVC	6	50	Good	1		55	9	41
298	PVC	12	50	Good	1		55	10	40
299	PVC	12	50	Good	1		55	10	40
300	Unknown	4	Unknown	3	Fair		Unknown	5	45
301	Unknown	4	Unknown	3	Fair		Unknown	5	45
302	PVC	4	50	Good	1		55	5	45
303	PVC	8	50	Good	1		55	6	44
306	HDPE	4	100	Good	1		100	6	94
308	HDPE	4	100	Good	1		100	6	94
310	HDPE	4	100	Good	1		100	6	94
312	PVC	4	50	Good	1		55	6	44
315	HDPE	4	100	Good	1		100	6	94
316	HDPE	4	100	Good	1		100	6	94
319	PVC	4	50	Good	1		55	6	44
321	PVC	4	50	Good	1		55	6	44

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
323	PVC	4	50	Good	1		55	6	44
325	PVC	4	50	Good	1		55	6	44
327	PVC	4	50	Good	1		55	6	44
329	PVC	4	50	Good	1		55	6	44
334	HDPE	4	100	Good	1		100	6	94
336	HDPE	4	100	Good	1		100	6	94
338	PVC	4	50	Good	1		55	6	44
340	PVC	4	50	Good	1		55	6	44
342	PVC	8	50	Good	1		55	6	44
343	PVC	8	50	Good	1		55	6	44
344	PVC	4	50	Good	1		55	7	43
345	PVC	12	50	Poor	5		55	Unknown	0
346	PVC	10	50	Good	1		55	9	41
347	PVC	12	50	Good	1		55	5	45
348	PVC	6	50	Good	1		55	8	42
349	HDPE	4	100	Good	1		100	6	94
350	PVC	8	50	Good	1		55	5	45
351	PVC	4	50	Good	1		55	12	38
352	PVC	12	50	Good	1		55	4	46
353	PVC	12	50	Good	1		55	4	46
354	PVC	12	50	Good	1		55	12	38
355	DIP	18	50	Good	1		50	18	32
356	PVC	8	50	Good	1		55	12	38
357	DIP	18	50	Good	1		50	18	32
358	HDPE	4	100	Good	1		100	6	94
359	Unknown	2	Unknown	3	Fair		Unknown	6	44
360	HDPE	4	100	Good	1		100	4	96
361	HDPE	2	100	Good	1		100	4	96
362	Unknown	4	Unknown	3	Fair		Unknown	4	46
363	HDPE	2	100	Good	1		100	4	96
364	DIP	6	50	Good	1		50	23	27
365	PVC	4	50	Good	1		55	4	46
366	PVC	4	50	Good	1		55	9	41
367	PVC	4	50	Good	1		55	9	41
368	Unknown	4	Unknown	3	Fair		Unknown	3	47
369	PVC	10	50	Good	1		55	2	48
370	PVC	6	50	Good	1		55	2	48
371	Unknown	6	Unknown	Unknown	Unknown		Unknown	Unknown	Unknown
372	Unknown	4	Unknown	4	Fair		Unknown	36	14
373	Unknown	4	Unknown	3	Fair		Unknown	3	47
374	Unknown	2	Unknown	3	Fair		Unknown	3	47
375	PVC	4	50	Unknown	1		55	9	46
376	PVC	4	50	Unknown	1		55	9	46
377	HDPE	4	100	Unknown	1		100	4	96
378	HDPE	4	100	Unknown	1		100	2	98
379	HDPE	4	100	Good	1		100	2	98
380	HDPE	4	100	Good	1		100	2	98
381	HDPE	4	100	Good	1		100	2	98
382	HDPE	2	100	Good	1		100	2	98
383	PVC	12	50	Good	1		55	17	38
395	PVC	12	50	Good	1		55	3	52
400	HDPE	4	100	Good	1		100	3	97

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
401	HDPE	3	100	Good	1		100	3	97
402	HDPE	2	100	Good	1		100	4	96
403	HDPE	2	100	Good	1		100	4	96
404	HDPE	6	100	Good	1		100	3	97
405	HDPE	6	100	Good	1		100	3	97
406	HDPE	4	100	Good	1		100	3	97
407	HDPE	6	100	Good	1		100	3	97
408	HDPE	4	100	Good	1		100	3	97
409	PVC	6	50	Good	1		55	5	50
411	PVC	3	50	Good	1		55	3	52
412	PVC	8	50	Good	1		55	6	49
413	PVC	4	50	Good	1		55	9	46
414	PVC	1.5	50	Good	1		55	10	45
415	PVC	8	50	Good	1		55	7	48
416	PVC	8	50	Good	1		55	7	48
417	PVC	8	50	Good	1		55	7	48
418	PVC	2	50	Good	1		55	2	53
419	PVC	4	50	Good	1		55	2	53
420	PVC	20	50	Unknown	Unknown		55	Unknown	Unknown
421	PVC	4	50	Good	1		55	2	53
422	PVC	4	50	Good	1		55	2	53
423	PVC	4	50	Good	1		55	2	53
424	PVC	6	50	Good	1		55	12	43
425	PVC	6	50	Good	1		55	12	43
426	PVC	6	50	Good	1		55	12	43
428	PVC	4	50	Good	1		55	6	49
431	PVC	8	50	Good	1		55	28	27
432	PVC	8	50	Good	1		55	5	50
433	PVC	8	50	Good	1		55	4	51
434	HDPE	1.5	100	Good	1		100	6	94
435	PVC	12	50	Good	1		55	10	45
436	PVC	4	50	Good	1		55	10	45
437	PVC	6	50	Good	1		55	10	45
438	PVC	12	50	Good	1		55	10	45
439	HDPE	3	100	Good	1		100	9	91
440	PVC	3	50	Good	1		55	9	46
441	HDPE	4	100	Good	1		100	9	91
442	HDPE	6	100	Good	1		100	2	98
443	HDPE	4	100	Good	1		100	2	98
444	PVC	16	50	Good	1		55	3	52
445	PVC	6	50	Good	1		55	3	52
446	PVC	16	50	Good	1		55	3	52
447	PVC	6	50	Good	1		55	3	52
448	Unknown	4	Unknown	3	Fair		Unknown	8	42
449	PVC	4	50	Unknown	1		55	2	53
450	HDPE	4	100	Unknown	1		100	5	95
451	PVC	8	50	Unknown	1		55	17	38
452	DIP	30	50	Unknown	1		50	8	42
453	PVC	4	50	Unknown	1		55	2	53
454	PVC	12	50	Unknown	1		55	4	51
455	PVC	10	50	Unknown	1		55	2	53
456	PVC	6	50	Good	1		55	2	53

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Service History	Adjusted Useful Life	Age	Remaining Useful Life
457	PVC	4	50	Good	1		55	9	46
458	PVC	4	50	Good	1		55	3	52
459	PVC	4	50	Good	1		55	3	52
460	BS	2	Unknown	Good	1		Unknown	3	Unknown
461	PVC	4	50	Unknown	Unknown		55	Unknown	Unknown
462	PVC	4	50	Unknown	1		55	9	46
463	PVC	6	50	Unknown	1		55	1	54
464	PVC	6	50	Unknown	1		55	1	54
465	DIP	18	50	Unknown	1		50	18	32
466	PVC	6	50	Unknown	1		55	1	54
467	PVC	6	50	Unknown	1		55	1	54
468	PVC	6	50	Good	1		55	1	54
469	PVC	6	50	Good	1		55	1	54
470	PVC	6	50	Good	1		55	1	54
471	PVC	6	50	Good	1		55	1	54
472	HDPE	1.5	100	Good	1		100	1	99
473	HDPE	4	100	Good	1		100	1	99
474	HDPE	4	100	Good	1		100	1	99
475	CAS	18	75	Fair	3		75	44	31
476	PVC	4	50	Fair	1		55	7	48
477	PVC	8	50	Good	1		55	9	46
478	PVC	2	50	Good	1		55	9	46
479	PVC	2	50	Good	1		55	9	46
480	PVC	8	50	Good	1		55	9	46
481	PVC	6	50	Good	1		55	22	33
482	PE	4	100	Good	1		100	1	99
483	PVC	4	50	Unknown	Unknown		55	Unknown	Unknown
484	PVC	6	50	Unknown	Unknown		55	Unknown	Unknown
485	HDPE	4	100	Good	1		100	5	95
486	HDPE	4	100	Good	1		100	6	94
488	PVC	4	50	Good	1		55	0	55
489	PVC	4	50	Good	1		55	0	55
490	PVC	4	50	Good	1		55	0	55
491	PVC	2	50	Good	1		55	0	55
492	HDPE	4	100	Good	1		100	6	94
493	HDPE	4	100	Good	1		100	6	94
494	PVC	4	50	Good	1		55	6	49
495	PVC	8	50	Good	1		55	6	49
496	PVC	8	50	Unknown	Unknown		55	Unknown	Unknown
497	PVC	6	50	Good	1		55	0	55
498	PVC	4	50	Good	1		55	0	55
499	DIP	6	50	Good	1		50	0	50
500	PVC	2	50	Good	1		55	2	53
501	PVC	4	50	Good	1		55	25	30
502	PVC	4	50	Good	1		55	0	55
503	PVC	8	50	Fair	3		55	35	20
504	PVC	12	50	Good	1		55	10	45
505	PVC	8	50	Good	1		55	5	50
506	HDPE	2	100	Good	1		100	4	96
507	PVC	4	50	Good	1		55	0	55
508	PVC	4	50	Good	1		55	0	55

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
Control Valves:							
1	20	Poor	5		10	26	0
2	20	Poor	5		10	26	0
3	20	Poor	5		10	26	0
4	20	Good	1		10	13	7
5	20	Good	1		10	13	7
6	20	Good	1		10	9	11
7	20	Good	1		10	9	11
8	20	Unknown	Unknown		10	Unknown	Unknown
9	20	Good	1		10	10	10
10	20	Good	1		10	10	10
11	20	Good	1		10	10	10
12	20	Good	1		10	10	10
13	20	Good	1		10	10	10
14	20	Good	1		10	10	10
15	20	Good	1		10	13	7
16	20	Good	1		10	13	7
17	20	Good	1		10	13	7
18	20	Good	1		10	13	7
19	20	Unknown	Unknown		10	Unknown	Unknown
20	20	Unknown	Unknown		10	Unknown	Unknown
21	20	Unknown	Unknown		10	Unknown	Unknown
22	20	Good	1		10	11	9
23	20	Good	1		10	11	9
24	20	Good	1		10	11	9
25	20	Good	1		10	11	9
26	20	Good	1		10	11	9
27	20	Good	1		10	9	11
28	20	Good	1		10	9	11
29	20	Good	1		10	12	8
30	20	Good	1		10	9	11
31	20	Good	1		10	10	10
32	20	Good	1		10	10	10
33	20	Good	1		10	9	11
34	20	Good	1		10	8	12
35	20	Good	1		10	9	11
36	20	Good	1		10	9	11
37	20	Good	1		10	9	11
38	20	Good	1		10	5	15
39	20	Good	1		10	5	15
40	20	Good	1		10	5	15
41	20	Poor	5		10	24	0
42	20	Poor	5		10	25	0
43	20	Fair	3		10	17	3
44	20	Fair	3		10	17	3
45	20	Fair	3		10	17	3
46	20	Fair	3		10	17	3
47	20	Fair	3		10	17	3
48	20	Fair	3		10	17	3
49	20	Fair	3		10	17	3
50	20	Fair	3		10	17	3
51	20	Poor	5		10	44	0
52	20	Poor	5		10	44	0

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
53	20	Fair	3		10	16	4
54	20	Fair	3		10	16	4
55	20	Fair	3		10	16	4
56	20	Good	1		10	14	6
57	20	Fair	3		10	16	4
58	20	Fair	3		10	15	5
59	20	Fair	3		10	15	5
60	20	Fair	3		10	15	5
61	20	Poor	5		10	28	0
62	20	Poor	5		10	41	0
63	20	Poor	5		10	41	0
64	20	Good	1		10	13	7
65	20	Good	1		10	14	6
66	20	Good	1		10	14	6
67	20	Poor	5		10	25	0
68	20	Good	1		10	12	8
69	20	Poor	5		10	25	0
70	20	Poor	5		10	25	0
71	20	Poor	5		10	26	0
72	20	Poor	5		10	26	0
73	20	Poor	5		10	26	0
74	20	Poor	5		10	20	0
75	20	Good	1		10	9	11
76	20	Good	1		10	9	11
77	20	Good	1		10	8	12
78	20	Good	1		10	8	12
79	20	Good	1		10	8	12
80	20	Good	1		10	8	12
81	20	Good	1		10	8	12
82	20	Good	1		10	8	12
83	20	Good	1		10	7	13
84	20	Poor	5		10	22	0
85	20	Good	1		10	13	7
86	20	Fair	3		10	18	2
87	20	Good	1		10	13	7
88	20	Good	1		10	13	7
89	20	Good	1		10	13	7
90	20	Good	1		10	13	7
91	20	Fair	3		10	15	5
92	20	Fair	3		10	15	5
93	20	Fair	3		10	18	2
94	20	Fair	3		10	18	2
95	20	Fair	3		10	18	2
96	20	Poor	5		10	23	0
97	20	Poor	5		10	23	0
98	20	Good	1		10	13	7
99	20	Poor	5		10	35	0
100	20	Good	1		10	12	8
101	20	Good	1		10	9	11
102	20	Good	1		10	9	11
103	20	Good	1		10	10	10
104	20	Good	1		10	7	13
105	20	Good	1		10	5	15
106	20	Good	1		10	9	11
107	20	Good	1		10	5	15

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Condition**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
108	20	Good	1		10	5	15
109	20	Good	1		10	5	15
110	20	Good	1		10	9	11
111	20	Good	1		10	10	10
112	20	Good	1		10	10	10
113	20	Good	1		10	10	10
114	20	Good	1		10	10	10
115	20	Good	1		10	10	10
116	20	Good	1		10	10	10
117	20	Unknown	Unknown		10	Unknown	Unknown
118	20	Good	1		10	10	10
119	20	Good	1		10	10	10
120	20	Good	1		10	10	10
121	20	Good	1		10	5	15
122	20	Good	1		10	5	15
124	20	Good	1		10	4	16
125	20	Good	1		10	3	17
126	20	Good	1		10	8	12
127	20	Good	1		10	3	17
128	20	Good	1		10	3	17
129	20	Good	1		10	8	12
130	20	Good	1		10	12	8
131	20	Good	1		10	10	10
132	20	Good	1		10	2	18
133	20	Good	1		10	3	17
134	20	Good	1		10	8	12
135	20	Good	1		10	2	18
136	20	Good	1		10	2	18
137	20	Good	1		10	2	18
138	20	Good	1		10	2	18
139	20	Good	1		10	3	17
140	20	Good	1		10	1	19
141	20	Good	1		10	1	19
142	20	Good	1		10	1	19
143	20	Good	1		10	1	19
144	20	Good	1		10	9	11
145	20	Good	1		10	1	19
148	20	Good	1		10	5	15
149	20	Good	1		10	6	14
150	20	Good	1		10	6	14
151	20	Good	1		10	6	14
152	20	Poor	5		10	29	0
153	20	Poor	5		10	29	0

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
System Valves:							
1	20	Unknown	Unknown		10	Unknown	Unknown
2	20	Poor	5		10	30	0
3	20	Poor	5		10	30	0
4	20	Poor	5		10	26	0
5	20	Poor	5		10	26	0
6	20	Good	1		10	13	7
7	20	Poor	5		10	27	0
8	20	Good	1		10	11	9
9	20	Fair	3		10	15	5
10	20	Good	1		10	9	11
11	20	Good	1		10	11	9
12	20	Good	1		10	13	7
13	20	Poor	5		10	28	0
14	20	Poor	5		10	28	0
15	20	Good	1		10	10	10
16	20	Good	1		10	10	10
17	20	Good	1		10	10	10
18	20	Good	1		10	10	10
19	20	Good	1		10	10	10
20	20	Good	1		10	10	10
21	20	Good	1		10	10	10
22	20	Good	1		10	10	10
23	20	Good	1		10	10	10
24	20	Good	1		10	11	9
25	20	Good	1		10	13	7
26	20	Good	1		10	13	7
27	20	Good	1		10	13	7
28	20	Unknown	Unknown		10	Unknown	Unknown
29	20	Unknown	Unknown		10	Unknown	Unknown
30	20	Unknown	Unknown		10	Unknown	Unknown
31	20	Unknown	Unknown		10	Unknown	Unknown
32	20	Unknown	Unknown		10	Unknown	Unknown
33	20	Good	1		10	13	7
34	20	Poor	5		10	35	0
35	20	Unknown	Unknown		10	Unknown	Unknown
36	20	Unknown	Unknown		10	Unknown	Unknown
37	20	Good	1		10	10	10
38	20	Good	1		10	10	10
39	20	Unknown	Unknown		10	Unknown	Unknown
40	20	Unknown	Unknown		10	Unknown	Unknown
41	20	Unknown	Unknown		10	Unknown	Unknown
42	20	Good	1		10	10	10
43	20	Good	1		10	10	10
44	20	Good	1		10	11	9
45	20	Good	1		10	11	9
46	20	Good	1		10	12	8
47	20	Good	1		10	9	11
48	20	Good	1		10	9	11
49	20	Good	1		10	9	11
50	20	Good	1		10	9	11
51	20	Good	1		10	9	11
52	20	Good	1		10	9	11

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
53	20	Good	1		10	9	11
54	20	Good	1		10	10	10
55	20	Good	1		10	10	10
56	20	Good	1		10	9	11
57	20	Good	1		10	11	9
58	20	Good	1		10	11	9
59	20	Good	1		10	9	11
60	20	Good	1		10	9	11
61	20	Good	1		10	9	11
62	20	Good	1		10	8	12
63	20	Good	1		10	9	11
64	20	Good	1		10	9	11
65	20	Good	1		10	9	11
66	20	Good	1		10	9	11
67	20	Good	1		10	9	11
68	20	Good	1		10	9	11
69	20	Good	1		10	9	11
70	20	Good	1		10	9	11
71	20	Good	1		10	9	11
72	20	Good	1		10	6	14
73	20	Good	1		10	9	11
74	20	Good	1		10	8	12
75	20	Good	1		10	9	11
76	20	Good	1		10	5	15
77	20	Good	1		10	5	15
78	20	Good	1		10	5	15
79	20	Good	1		10	5	15
80	20	Poor	5		10	25	0
81	20	Poor	5		10	25	0
82	20	Poor	5		10	25	0
83	20	Poor	5		10	25	0
84	20	Poor	5		10	55	0
85	20	Poor	5		10	55	0
86	20	Fair	3		10	17	3
87	20	Fair	3		10	17	3
88	20	Fair	3		10	17	3
89	20	Fair	3		10	17	3
90	20	Fair	3		10	17	3
91	20	Fair	3		10	17	3
92	20	Fair	3		10	17	3
93	20	Fair	3		10	17	3
94	20	Fair	3		10	17	3
95	20	Fair	3		10	17	3
96	20	Fair	3		10	17	3
97	20	Fair	3		10	17	3
98	20	Fair	3		10	17	3
99	20	Fair	3		10	17	3
100	20	Fair	3		10	17	3
101	20	Fair	3		10	17	3
102	20	Fair	3		10	17	3
103	20	Fair	3		10	17	3
104	20	Fair	3		10	17	3
105	20	Fair	3		10	17	3
106	20	Fair	3		10	17	3
107	20	Good	1		10	14	6

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
108	20	Good	1		10	14	6
109	20	Fair	3		10	17	3
110	20	Fair	3		10	17	3
111	20	Poor	5		10	44	0
112	20	Fair	3		10	15	5
113	20	Fair	3		10	16	4
114	20	Fair	3		10	15	5
115	20	Unknown	Unknown		10	Unknown	Unknown
116	20	Unknown	Unknown		10	Unknown	Unknown
117	20	Fair	3		10	16	4
118	20	Fair	3		10	16	4
119	20	Fair	3		10	16	4
120	20	Fair	3		10	16	4
121	20	Fair	3		10	15	5
122	20	Poor	5		10	20	0
123	20	Good	1		10	13	7
124	20	Good	1		10	14	6
125	20	Poor	5		10	25	0
126	20	Good	1		10	13	7
127	20	Fair	3		10	17	3
128	20	Fair	3		10	17	3
129	20	Fair	3		10	17	3
130	20	Good	1		10	12	8
131	20	Good	1		10	12	8
132	20	Good	1		10	12	8
133	20	Poor	5		10	25	0
134	20	Fair	3		10	16	4
135	20	Good	1		10	12	8
136	20	Good	1		10	12	8
137	20	Poor	5		10	31	0
138	20	Poor	5		10	31	0
139	20	Poor	5		10	26	0
140	20	Poor	5		10	26	0
141	20	Poor	5		10	26	0
142	20	Poor	5		10	20	0
143	20	Fair	3		10	16	4
144	20	Fair	3		10	16	4
145	20	Good	1		10	8	12
146	20	Good	1		10	8	12
147	20	Good	1		10	8	12
148	20	Good	1		10	8	12
149	20	Good	1		10	8	12
150	20	Good	1		10	8	12
151	20	Good	1		10	8	12
152	20	Good	1		10	8	12
153	20	Good	1		10	8	12
154	20	Good	1		10	8	12
155	20	Good	1		10	8	12
156	20	Good	1		10	8	12
157	20	Good	1		10	8	12
158	20	Good	1		10	8	12
159	20	Good	1		10	8	12
160	20	Good	1		10	8	12
161	20	Good	1		10	8	12
162	20	Good	1		10	8	12

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
163	20	Good	1		10	7	13
164	20	Good	1		10	7	13
165	20	Good	1		10	7	13
166	20	Good	1		10	7	13
167	20	Good	1		10	8	12
168	20	Good	1		10	9	11
169	20	Good	1		10	13	7
170	20	Fair	3		10	18	2
171	20	Good	1		10	13	7
172	20	Good	1		10	13	7
173	20	Good	1		10	13	7
174	20	Good	1		10	13	7
175	20	Good	1		10	13	7
176	20	Good	1		10	13	7
177	20	Good	1		10	12	8
178	20	Good	1		10	12	8
179	20	Fair	3		10	15	5
180	20	Fair	3		10	15	5
181	20	Fair	3		10	15	5
182	20	Fair	3		10	15	5
183	20	Fair	3		10	15	5
184	20	Fair	3		10	15	5
185	20	Fair	3		10	15	5
186	20	Fair	3		10	15	5
187	20	Fair	3		10	15	5
188	20	Fair	3		10	15	5
189	20	Fair	3		10	15	5
190	20	Fair	3		10	15	5
191	20	Fair	3		10	18	2
192	20	Fair	3		10	18	2
193	20	Fair	3		10	18	2
194	20	Fair	3		10	18	2
195	20	Fair	3		10	18	2
196	20	Fair	3		10	18	2
197	20	Fair	3		10	18	2
198	20	Fair	3		10	18	2
199	20	Fair	3		10	18	2
200	20	Poor	5		10	23	0
201	20	Poor	5		10	30	0
202	20	Poor	5		10	30	0
203	20	Poor	5		10	30	0
204	20	Poor	5		10	30	0
205	20	Poor	5		10	30	0
206	20	Poor	5		10	30	0
207	20	Poor	5		10	30	0
208	20	Poor	5		10	30	0
209	20	Poor	5		10	30	0
210	20	Poor	5		10	23	0
211	20	Good	1		10	13	7
212	20	Good	1		10	13	7
213	20	Poor	5		10	35	0
214	20	Good	1		10	9	11
215	20	Good	1		10	9	11
216	20	Good	1		10	9	11
217	20	Unknown	Unknown		10	Unknown	Unknown

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
218	20	Good	1		10	9	11
219	20	Good	1		10	7	13
220	20	Good	1		10	7	13
221	20	Good	1		10	7	13
222	20	Good	1		10	7	13
223	20	Good	1		10	7	13
224	20	Good	1		10	10	10
225	20	Good	1		10	7	13
226	20	Good	1		10	7	13
227	20	Good	1		10	7	13
228	20	Good	1		10	7	13
229	20	Good	1		10	7	13
230	20	Poor	5		10	24	0
231	20	Good	1		10	8	12
232	20	Good	1		10	9	11
233	20	Good	1		10	9	11
234	20	Good	1		10	9	11
235	20	Good	1		10	9	11
236	20	Unknown	Unknown		10	Unknown	Unknown
237	20	Good	1		10	5	15
239	20	Good	1		10	9	11
240	20	Good	1		10	9	11
241	20	Unknown	Unknown		10	Unknown	Unknown
242	20	Good	1		10	5	15
243	20	Good	1		10	5	15
244	20	Good	1		10	5	15
245	20	Good	1		10	5	15
247	20	Good	1		10	5	15
248	20	Good	1		10	5	15
249	20	Good	1		10	5	15
251	20	Good	1		10	5	15
252	20	Good	1		10	5	15
253	20	Good	1		10	5	15
254	20	Good	1		10	5	15
255	20	Good	1		10	5	15
256	20	Good	1		10	5	15
257	20	Unknown	Unknown		10	Unknown	Unknown
258	20	Good	1		10	10	10
259	20	Good	1		10	10	10
260	20	Good	1		10	10	10
261	20	Good	1		10	10	10
262	20	Good	1		10	10	10
263	20	Good	1		10	10	10
264	20	Good	1		10	10	10
265	20	Good	1		10	10	10
266	20	Good	1		10	5	15
267	20	Good	1		10	5	15
268	20	Fair	3		10	18	2
269	20	Fair	3		10	18	2
272	20	Good	1		10	6	14
274	20	Good	1		10	6	14
275	20	Good	1		10	6	14
276	20	Good	1		10	6	14
277	20	Good	1		10	6	14
278	20	Good	1		10	6	14

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
279	20	Good	1		10	6	14
280	20	Good	1		10	6	14
281	20	Good	1		10	6	14
282	20	Good	1		10	6	14
283	20	Good	1		10	6	14
284	20	Good	1		10	6	14
285	20	Good	1		10	6	14
286	20	Good	1		10	6	14
287	20	Good	1		10	6	14
288	20	Good	1		10	6	14
289	20	Good	1		10	6	14
290	20	Good	1		10	6	14
291	20	Good	1		10	6	14
292	20	Good	1		10	6	14
293	20	Good	1		10	6	14
295	20	Good	1		10	4	16
296	20	Good	1		10	4	16
297	20	Good	1		10	4	16
298	20	Good	1		10	4	16
299	20	Fair	3		10	18	2
300	20	Fair	3		10	18	2
301	20	Good	1		10	6	14
302	20	Good	1		10	6	14
303	20	Good	1		10	6	14
304	20	Good	1		10	4	16
305	20	Good	1		10	4	16
306	20	Good	1		10	4	16
307	20	Good	1		10	4	16
308	20	Good	1		10	3	17
309	20	Good	1		10	3	17
310	20	Good	1		10	7	13
311	20	Good	1		10	3	17
312	20	Good	1		10	3	17
313	20	Good	1		10	3	17
314	20	Good	1		10	3	17
315	20	Good	1		10	2	18
316	20	Good	1		10	2	18
317	20	Good	1		10	2	18
318	20	Good	1		10	3	17
319	20	Good	1		10	3	17
320	20	Good	1		10	3	17
321	20	Good	1		10	3	17
322	20	Good	1		10	3	17
323	20	Good	1		10	3	17
324	20	Good	1		10	7	13
325	20	Good	1		10	2	18
326	20	Good	1		10	6	14
327	20	Good	1		10	6	14
328	20	Good	1		10	4	16
329	20	Good	1		10	6	14
330	20	Good	1		10	10	10
331	20	Good	1		10	10	10
332	20	Good	1		10	10	10
333	20	Good	1		10	9	11
334	20	Good	1		10	2	18

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
335	20	Good	1		10	2	18
336	20	Good	1		10	2	18
337	20	Good	1		10	3	17
338	20	Good	1		10	3	17
339	20	Good	1		10	3	17
340	20	Good	1		10	3	17
341	20	Good	1		10	3	17
342	20	Good	1		10	3	17
343	20	Good	1		10	3	17
344	20	Good	1		10	3	17
345	20	Good	1		10	3	17
346	20	Good	1		10	2	18
347	20	Good	1		10	2	18
348	20	Good	1		10	2	18
349	20	Good	1		10	5	15
350	20	Good	1		10	8	12
351	20	Good	1		10	8	12
352	20	Good	1		10	2	18
353	20	Good	1		10	2	18
354	20	Good	1		10	2	18
355	20	Good	1		10	2	18
356	20	Good	1		10	2	18
357	20	Good	1		10	2	18
358	20	Good	1		10	3	17
359	20	Good	1		10	3	17
360	20	Good	1		10	3	17
361	20	Good	1		10	9	11
362	20	Good	1		10	1	19
363	20	Good	1		10	1	19
364	20	Good	1		10	1	19
365	20	Good	1		10	1	19
366	20	Good	1		10	1	19
367	20	Good	1		10	1	19
368	20	Good	1		10	1	19
369	20	Good	1		10	14	6
370	20	Unknown	Unknown		10	Unknown	Unknown
371	20	Good	1		10	5	15
372	20	Good	1		10	0	20
373	20	Good	1		10	0	20
374	20	Good	1		10	0	20
375	20	Good	1		10	0	20
376	20	Good	1		10	6	14
377	20	Good	1		10	6	14
378	20	Good	1		10	6	14
379	20	Good	1		10	6	14
380	20	Good	1		10	6	14
381	20	Good	1		10	6	14
382	20	Good	1		10	6	14
383	20	Good	1		10	6	14
384	20	Good	1		10	6	14
385	20	Good	1		10	6	14
386	20	Good	1		10	6	14
387	20	Good	1		10	0	20
388	20	Good	1		10	2	18
389	20	Poor	5		10	29	0

Apopka Phase I Wastewater Utility System Inventory Worksheet							
Date Worksheet Completed/Updated: 10/30/15							
Asset	**Expected Useful Life**	**Conditon**	**Condition (1 - 5) (Good = 1,Fair=3, Poor =5)**	**Service History**	**Adjusted Useful Life**	**Age**	**Remaining Useful Life**
390	20	Poor	5		10	29	0
391	20	Poor	5		10	29	0
392	20	Poor	5		10	26	0

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
Reclaimed mains ID:	Material	Diameter (Inches)							
1375	PVC	12	50	Good	1		55	10	45
1376	PVC	12	50	Good	1		55	10	45
1377	PVC	6	50	Good	1		55	10	45
1378	PVC	6	50	Good	1		55	10	45
1379	PVC	6	50	Good	1		55	10	45
1380	PVC	6	50	Good	1		55	10	45
1381	PVC	6	50	Good	1		55	10	45
1382	PVC	6	50	Good	1		55	10	45
1383	PVC	6	50	Good	1		55	10	45
1384	PVC	6	50	Good	1		55	10	45
1385	PVC	12	50	Good	1		55	10	45
1386	PVC	12	50	Good	1		55	10	45
1387	PVC	12	50	Good	1		55	10	45
1388	PVC	10	50	Good	1		55	10	45
1389	PVC	10	50	Good	1		55	10	45
1390	PVC	12	50	Good	1		55	10	45
1391	PVC	6	50	Good	1		55	9	46
1392	PVC	6	50	Good	1		55	9	46
1393	PVC	6	50	Good	1		55	9	46
1394	PVC	6	50	Good	1		55	9	46
1395	PVC	4	50	Good	1		55	9	46
1397	PVC	6	50	Good	1		55	9	46
1398	PVC	6	50	Good	1		55	9	46
1399	PVC	4	50	Good	1		55	9	46
1400	PVC	6	50	Good	1		55	9	46
1401	PVC	12	50	Good	1		55	9	46
1402	PVC	8	50	Good	1		55	9	46
1403	PVC	6	50	Good	1		55	9	46
1404	PVC	6	50	Good	1		55	9	46
1405	PVC	6	50	Good	1		55	9	46
1406	PVC	6	50	Good	1		55	9	46
1407	PVC	6	50	Good	1		55	9	46
1408	PVC	6	50	Good	1		55	9	46
1409	PVC	6	50	Good	1		55	9	46
1410	PVC	6	50	Good	1		55	9	46
1411	PVC	6	50	Good	1		55	9	46
1412	PVC	8	50	Good	1		55	9	46
1413	PVC	6	50	Good	1		55	9	46
1414	PVC	4	50	Good	1		55	9	46
1415	PVC	6	50	Good	1		55	9	46
1416	PVC	4	50	Good	1		55	9	46
1417	PVC	6	50	Good	1		55	9	46
1418	PVC	4	50	Good	1		55	9	46
1420	PVC	8	50	Good	1		55	9	46
1421	PVC	4	50	Good	1		55	9	46
1422	PVC	4	50	Good	1		55	9	46
1423	PVC	4	50	Good	1		55	9	46

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1424	PVC	4	50	Good	1		55	9	46
1425	PVC	4	50	Good	1		55	9	46
1426	PVC	6	50	Good	1		55	9	46
1427	PVC	4	50	Good	1		55	9	46
1428	PVC	4	50	Good	1		55	9	46
1429	PVC	4	50	Good	1		55	9	46
1433	PVC	6	50	Good	1		55	9	46
1434	PVC	12	50	Good	1		55	9	46
1436	PVC	8	50	Good	1		55	9	46
1437	PVC	12	50	Good	1		55	10	45
1438	PVC	10	50	Good	1		55	12	43
1439	PVC	8	50	Good	1		55	11	44
1440	PVC	8	50	Good	1		55	11	44
1441	PVC	8	50	Good	1		55	11	44
1442	PVC	8	50	Good	1		55	11	44
1443	PVC	8	50	Good	1		55	11	44
1444	PVC	8	50	Good	1		55	11	44
1445	PVC	4	50	Good	1		55	9	46
1446	PVC	12	50	Good	1		55	9	46
1447	PVC	12	50	Good	1		55	9	46
1448	PVC	6	50	Good	1		55	9	46
1449	PVC	12	50	Good	1		55	9	46
1450	PVC	6	50	Good	1		55	9	46
1452	PVC	12	50	Good	1		55	9	46
1453	PVC	6	50	Good	1		55	9	46
1455	PVC	6	50	Good	1		55	10	45
1456	PVC	12	50	Good	1		55	10	45
1457	PVC	12	50	Good	1		55	10	45
1458	PVC	6	50	Good	1		55	10	45
1459	PVC	4	50	Good	1		55	10	45
1460	PVC	12	50	Good	1		55	10	45
1461	PVC	6	50	Good	1		55	10	45
1462	PVC	12	50	Good	1		55	10	45
1463	PVC	12	50	Good	1		55	10	45
1464	PVC	12	50	Good	1		55	10	45
1465	PVC	12	50	Good	1		55	10	45
1466	PVC	6	50	Good	1		55	10	45
1467	PVC	12	50	Good	1		55	10	45
1468	PVC	30	50	Good	1		55	10	45
1469	PVC	30	50	Good	1		55	10	45
1470	PVC	6	50	Good	1		55	10	45
1471	PVC	6	50	Good	1		55	10	45
1472	PVC	6	50	Good	1		55	10	45
1473	PVC	4	50	Good	1		55	10	45
1474	PVC	6	50	Good	1		55	10	45
1475	PVC	6	50	Good	1		55	10	45
1476	PVC	6	50	Good	1		55	10	45
1477	PVC	30	50	Good	1		55	10	45
1478	PVC	12	50	Good	1		55	10	45
1480	PVC	12	50	Good	1		55	10	45
1481	PVC	8	50	Good	1		55	24	31

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1482	PVC	8	50	Good	1		55	24	31
1483	DIP	20	50	Good	1		50	23	27
1485	PVC	6	50	Good	1		55	12	43
1486	PVC	6	50	Good	1		55	12	43
1487	PVC	6	50	Good	1		55	16	39
1488	PVC	12	50	Good	1		55	18	37
1489	PVC	8	50	Good	1		55	24	31
1490	PVC	4	50	Good	1		55	23	32
1491	PVC	6	50	Good	1		55	12	43
1492	PVC	6	50	Good	1		55	12	43
1493	PVC	6	50	Good	1		55	12	43
1494	PVC	6	50	Good	1		55	12	43
1495	PVC	6	50	Good	1		55	12	43
1496	PVC	6	50	Good	1		55	12	43
1497	PVC	6	50	Good	1		55	12	43
1498	PVC	6	50	Good	1		55	12	43
1499	PVC	10	50	Good	1		55	10	45
1500	PVC	10	50	Good	1		55	10	45
1501	PVC	8	50	Good	1		55	10	45
1502	PVC	10	50	Good	1		55	10	45
1503	PVC	10	50	Good	1		55	11	44
1504	PVC	10	50	Good	1		55	11	44
1505	PVC	10	50	Good	1		55	11	44
1506	PVC	10	50	Good	1		55	11	44
1507	PVC	10	50	Good	1		55	11	44
1508	PVC	4	50	Good	1		55	11	44
1509	PVC	1	50	Good	1		55	11	44
1510	PVC	1	50	Good	1		55	11	44
1511	PVC	1	50	Good	1		55	11	44
1512	PVC	1	50	Good	1		55	11	44
1513	PVC	1	50	Good	1		55	11	44
1514	PVC	1	50	Good	1		55	11	44
1515	PVC	1	50	Good	1		55	11	44
1516	PVC	1	50	Good	1		55	11	44
1517	PVC	1	50	Good	1		55	11	44
1518	PVC	1	50	Good	1		55	11	44
1519	PVC	1	50	Good	1		55	11	44
1520	PVC	1	50	Good	1		55	11	44
1521	PVC	1	50	Good	1		55	11	44
1522	PVC	1	50	Good	1		55	11	44
1523	PVC	1	50	Good	1		55	11	44
1524	PVC	1	50	Good	1		55	11	44
1525	PVC	1	50	Good	1		55	11	44
1526	PVC	1	50	Good	1		55	11	44
1527	PVC	1	50	Good	1		55	11	44
1528	PVC	1	50	Good	1		55	11	44
1529	PVC	1	50	Good	1		55	11	44
1530	PVC	1	50	Good	1		55	11	44
1531	PVC	1	50	Good	1		55	11	44
1532	PVC	1	50	Good	1		55	11	44
1533	PVC	1	50	Good	1		55	11	44

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1534	PVC	1	50	Good	1		55	11	44
1535	PVC	1	50	Good	1		55	11	44
1536	PVC	1	50	Good	1		55	11	44
1537	PVC	1	50	Good	1		55	11	44
1538	PVC	1	50	Good	1		55	11	44
1539	PVC	1	50	Good	1		55	11	44
1540	PVC	1	50	Good	1		55	11	44
1541	PVC	1	50	Good	1		55	11	44
1542	PVC	1	50	Good	1		55	11	44
1543	PVC	1	50	Good	1		55	11	44
1544	PVC	1	50	Good	1		55	11	44
1545	PVC	1	50	Good	1		55	11	44
1546	PVC	1	50	Good	1		55	11	44
1547	PVC	1	50	Good	1		55	11	44
1548	PVC	1	50	Good	1		55	11	44
1549	PVC	1	50	Good	1		55	11	44
1550	PVC	1	50	Good	1		55	11	44
1551	PVC	1	50	Good	1		55	11	44
1552	PVC	1	50	Good	1		55	11	44
1553	PVC	1	50	Good	1		55	11	44
1554	PVC	1	50	Good	1		55	11	44
1555	PVC	1	50	Good	1		55	11	44
1556	PVC	6	50	Good	1		55	11	44
1558	PVC	4	50	Good	1		55	11	44
1559	PVC	6	50	Good	1		55	11	44
1560	PVC	6	50	Good	1		55	11	44
1561	PVC	6	50	Good	1		55	11	44
1562	PVC	6	50	Good	1		55	11	44
1563	PVC	8	50	Good	1		55	13	42
1564	PVC	8	50	Good	1		55	15	40
1565	PVC	8	50	Good	1		55	13	42
1566	PVC	8	50	Good	1		55	13	42
1567	PVC	12	50	Good	1		55	13	42
1568	DIP	24	50	Good	1		50	23	27
1569	DIP	24	50	Good	1		50	23	27
1570	DIP	14	50	Good	1		50	23	27
1571	DIP	8	50	Good	1		50	23	27
1572	DIP	8	50	Good	1		50	23	27
1573	DIP	12	50	Good	1		50	23	27
1574	DIP	12	50	Good	1		50	23	27
1575	DIP	12	50	Good	1		50	23	27
1576	DIP	8	50	Good	1		50	23	27
1577	DIP	12	50	Good	1		50	23	27
1578	DIP	14	50	Good	1		50	23	27
1579	DIP	14	50	Good	1		50	23	27
1580	DIP	20	50	Good	1		50	23	27
1581	DIP	20	50	Good	1		50	23	27
1582	DIP	20	50	Good	1		50	23	27
1583	DIP	20	50	Good	1		50	23	27
1584	DIP	20	50	Good	1		50	23	27
1585	DIP	14	50	Good	1		50	23	27

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1586	DIP	20	50	Good	1		50	23	27
1587	DIP	12	50	Good	1		50	23	27
1588	DIP	20	50	Good	1		50	23	27
1589	DIP	20	50	Good	1		50	23	27
1590	DIP	14	50	Good	1		50	23	27
1591	DIP	24	50	Good	1		50	23	27
1592	PVC	6	50	Good	1		55	11	44
1593	PVC	6	50	Good	1		55	11	44
1594	PVC	10	50	Good	1		55	11	44
1595	PVC	10	50	Good	1		55	11	44
1596	PVC	10	50	Good	1		55	11	44
1597	PVC	6	50	Good	1		55	11	44
1598	PVC	8	50	Good	1		55	11	44
1599	PVC	12	50	Good	1		55	11	44
1601	PVC	12	50	Good	1		55	11	44
1602	PVC	6	50	Good	1		55	11	44
1603	PVC	12	50	Good	1		55	11	44
1604	PVC	12	50	Good	1		55	11	44
1605	PVC	8	50	Good	1		55	15	40
1606	PVC	6	50	Good	1		55	11	44
1607	PVC	12	50	Good	1		55	11	44
1608	PVC	8	50	Good	1		55	12	43
1609	PVC	8	50	Good	1		55	12	43
1610	PVC	8	50	Good	1		55	12	43
1611	PVC	8	50	Good	1		55	12	43
1612	PVC	8	50	Good	1		55	12	43
1613	PVC	8	50	Good	1		55	12	43
1614	PVC	8	50	Good	1		55	12	43
1615	PVC	8	50	Good	1		55	12	43
1616	PVC	8	50	Good	1		55	12	43
1617	PVC	8	50	Good	1		55	12	43
1618	PVC	8	50	Good	1		55	12	43
1619	PVC	8	50	Good	1		55	12	43
1620	PVC	8	50	Good	1		55	12	43
1621	PVC	10	50	Good	1		55	12	43
1622	PVC	10	50	Good	1		55	12	43
1623	PVC	10	50	Good	1		55	12	43
1624	PVC	10	50	Good	1		55	12	43
1625	PVC	6	50	Good	1		55	12	43
1626	PVC	10	50	Good	1		55	12	43
1627	PVC	10	50	Good	1		55	12	43
1628	PVC	10	50	Good	1		55	12	43
1629	PVC	6	50	Good	1		55	12	43
1630	PVC	6	50	Good	1		55	12	43
1631	PVC	6	50	Good	1		55	12	43
1632	PVC	6	50	Good	1		55	12	43
1633	PVC	6	50	Good	1		55	12	43
1634	PVC	6	50	Good	1		55	12	43
1635	PVC	6	50	Good	1		55	12	43
1636	PVC	6	50	Good	1		55	12	43
1637	PVC	6	50	Good	1		55	12	43

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1638	PVC	6	50	Good	1		55	12	43
1639	PVC	8	50	Good	1		55	12	43
1640	PVC	6	50	Good	1		55	12	43
1641	PVC	6	50	Good	1		55	12	43
1642	PVC	6	50	Good	1		55	12	43
1643	PVC	6	50	Good	1		55	12	43
1644	PVC	6	50	Good	1		55	12	43
1645	PVC	6	50	Good	1		55	12	43
1646	PVC	6	50	Good	1		55	12	43
1647	PVC	6	50	Good	1		55	12	43
1648	PVC	6	50	Good	1		55	9	46
1649	PVC	6	50	Good	1		55	9	46
1650	PVC	6	50	Good	1		55	12	43
1651	PVC	6	50	Good	1		55	12	43
1652	PVC	6	50	Good	1		55	12	43
1653	DIP	30	50	Good	1		50	12	38
1654	DIP	30	50	Good	1		50	12	38
1655	PVC	12	50	Good	1		55	12	43
1656	PVC	3	50	Good	1		55	13	42
1657	PVC	1	50	Good	1		55	12	43
1658	PVC	1	50	Good	1		55	12	43
1659	PVC	1	50	Good	1		55	12	43
1660	PVC	1	50	Good	1		55	12	43
1661	PVC	1	50	Good	1		55	12	43
1662	PVC	1	50	Good	1		55	12	43
1663	PVC	1	50	Good	1		55	12	43
1664	PVC	1	50	Good	1		55	12	43
1665	PVC	1	50	Good	1		55	12	43
1666	PVC	1	50	Good	1		55	12	43
1667	PVC	1	50	Good	1		55	12	43
1668	PVC	1	50	Good	1		55	12	43
1669	PVC	1	50	Good	1		55	12	43
1670	PVC	1	50	Good	1		55	12	43
1671	PVC	1	50	Good	1		55	12	43
1672	PVC	1	50	Good	1		55	12	43
1673	PVC	1	50	Good	1		55	12	43
1674	PVC	1	50	Good	1		55	12	43
1675	PVC	1	50	Good	1		55	12	43
1676	PVC	1	50	Good	1		55	12	43
1677	PVC	1	50	Good	1		55	12	43
1678	PVC	1	50	Good	1		55	12	43
1679	PVC	1	50	Good	1		55	12	43
1680	PVC	1	50	Good	1		55	12	43
1681	PVC	1	50	Good	1		55	12	43
1682	PVC	1	50	Good	1		55	12	43
1683	PVC	1	50	Good	1		55	12	43
1684	PVC	1	50	Good	1		55	12	43
1685	PVC	1	50	Good	1		55	12	43
1686	PVC	1	50	Good	1		55	12	43
1687	PVC	1	50	Good	1		55	12	43
1688	PVC	1	50	Good	1		55	12	43

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1689	PVC	1	50	Good	1		55	12	43
1690	PVC	1	50	Good	1		55	12	43
1691	PVC	1	50	Good	1		55	12	43
1692	PVC	1	50	Good	1		55	12	43
1693	PVC	1	50	Good	1		55	12	43
1694	PVC	1	50	Good	1		55	12	43
1695	PVC	1	50	Good	1		55	12	43
1696	PVC	1	50	Good	1		55	12	43
1697	PVC	1	50	Good	1		55	12	43
1698	PVC	1	50	Good	1		55	12	43
1699	PVC	1	50	Good	1		55	12	43
1700	PVC	6	50	Good	1		55	12	43
1701	PVC	6	50	Good	1		55	12	43
1702	PVC	6	50	Good	1		55	12	43
1703	PVC	6	50	Good	1		55	12	43
1704	PVC	6	50	Good	1		55	12	43
1705	PVC	6	50	Good	1		55	12	43
1706	PVC	6	50	Good	1		55	12	43
1707	PVC	12	50	Good	1		55	13	42
1708	PVC	12	50	Good	1		55	13	42
1709	PVC	12	50	Good	1		55	13	42
1710	PVC	12	50	Good	1		55	13	42
1711	PVC	6	50	Good	1		55	13	42
1712	PVC	8	50	Good	1		55	13	42
1713	PVC	8	50	Good	1		55	13	42
1714	PVC	6	50	Good	1		55	13	42
1715	PVC	8	50	Good	1		55	13	42
1716	PVC	6	50	Good	1		55	13	42
1717	PVC	6	50	Good	1		55	15	40
1718	PVC	6	50	Good	1		55	18	37
1719	PVC	8	50	Good	1		55	18	37
1720	PVC	4	50	Good	1		55	18	37
1721	PVC	8	50	Good	1		55	18	37
1722	PVC	6	50	Good	1		55	16	39
1723	PVC	4	50	Good	1		55	16	39
1724	PVC	6	50	Good	1		55	16	39
1725	PVC	6	50	Good	1		55	16	39
1726	PVC	4	50	Good	1		55	16	39
1727	PVC	6	50	Good	1		55	16	39
1728	PVC	6	50	Good	1		55	16	39
1729	PVC	6	50	Good	1		55	16	39
1730	PVC	6	50	Good	1		55	15	40
1731	PVC	6	50	Good	1		55	15	40
1732	PVC	6	50	Good	1		55	15	40
1733	PVC	6	50	Good	1		55	18	37
1734	PVC	6	50	Good	1		55	18	37
1735	PVC	6	50	Good	1		55	18	37
1736	PVC	6	50	Good	1		55	18	37
1737	PVC	6	50	Good	1		55	18	37
1738	PVC	6	50	Good	1		55	18	37
1739	PVC	8	50	Good	1		55	15	40

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1740	PVC	8	50	Good	1		55	15	40
1741	PVC	8	50	Good	1		55	15	40
1742	PVC	6	50	Good	1		55	15	40
1743	PVC	4	50	Good	1		55	22	33
1744	PVC	4	50	Good	1		55	22	33
1745	PVC	6	50	Good	1		55	22	33
1746	PVC	4	50	Good	1		55	22	33
1747	PVC	4	50	Good	1		55	22	33
1748	PVC	6	50	Good	1		55	22	33
1749	PVC	4	50	Good	1		55	15	40
1750	PVC	4	50	Good	1		55	15	40
1751	PVC	4	50	Good	1		55	15	40
1752	PVC	4	50	Good	1		55	17	38
1753	PVC	4	50	Good	1		55	17	38
1754	PVC	4	50	Good	1		55	17	38
1755	PVC	6	50	Good	1		55	17	38
1756	PVC	6	50	Good	1		55	17	38
1757	PVC	6	50	Good	1		55	17	38
1758	PVC	6	50	Good	1		55	17	38
1759	PVC	4	50	Good	1		55	17	38
1760	PVC	6	50	Good	1		55	17	38
1761	PVC	6	50	Good	1		55	17	38
1762	PVC	6	50	Good	1		55	17	38
1763	PVC	6	50	Good	1		55	17	38
1764	PVC	6	50	Good	1		55	17	38
1765	PVC	6	50	Good	1		55	17	38
1766	PVC	12	50	Good	1		55	17	38
1767	PVC	12	50	Good	1		55	17	38
1768	PVC	12	50	Good	1		55	16	39
1769	PVC	8	50	Good	1		55	16	39
1770	PVC	12	50	Good	1		55	16	39
1771	PVC	12	50	Good	1		55	16	39
1773	PVC	8	50	Good	1		55	18	37
1774	PVC	8	50	Good	1		55	19	36
1775	PVC	8	50	Good	1		55	19	36
1776	PVC	8	50	Good	1		55	19	36
1777	PVC	8	50	Good	1		55	19	36
1778	PVC	8	50	Good	1		55	24	31
1779	PVC	8	50	Good	1		55	24	31
1780	PVC	8	50	Good	1		55	24	31
1781	PVC	8	50	Good	1		55	24	31
1782	PVC	8	50	Good	1		55	24	31
1783	PVC	8	50	Good	1		55	24	31
1784	PVC	8	50	Good	1		55	24	31
1785	PVC	8	50	Good	1		55	24	31
1786	PVC	8	50	Good	1		55	24	31
1787	PVC	8	50	Good	1		55	24	31
1788	PVC	6	50	Good	1		55	13	42
1789	PVC	6	50	Good	1		55	13	42
1790	PVC	6	50	Good	1		55	13	42
1791	PVC	6	50	Good	1		55	13	42

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1792	PVC	10	50	Good	1		55	13	42
1793	PVC	12	50	Good	1		55	13	42
1794	PVC	12	50	Good	1		55	14	41
1795	PVC	12	50	Good	1		55	14	41
1796	PVC	12	50	Good	1		55	14	41
1797	PVC	6	50	Good	1		55	13	42
1798	PVC	12	50	Good	1		55	13	42
1799	PVC	12	50	Good	1		55	13	42
1800	PVC	6	50	Good	1		55	13	42
1801	PVC	6	50	Good	1		55	13	42
1802	PVC	6	50	Good	1		55	13	42
1803	PVC	12	50	Good	1		55	13	42
1804	PVC	12	50	Good	1		55	13	42
1805	PVC	12	50	Good	1		55	13	42
1806	PVC	6	50	Good	1		55	13	42
1807	PVC	6	50	Good	1		55	13	42
1808	PVC	6	50	Good	1		55	13	42
1809	PVC	6	50	Good	1		55	13	42
1810	PVC	10	50	Good	1		55	13	42
1811	PVC	10	50	Good	1		55	13	42
1812	PVC	10	50	Good	1		55	13	42
1813	PVC	10	50	Good	1		55	13	42
1814	PVC	10	50	Good	1		55	13	42
1815	PVC	10	50	Good	1		55	15	40
1816	PVC	10	50	Good	1		55	15	40
1817	PVC	10	50	Good	1		55	15	40
1818	PVC	10	50	Good	1		55	15	40
1819	PVC	10	50	Good	1		55	15	40
1820	PVC	10	50	Good	1		55	18	37
1821	PVC	12	50	Good	1		55	17	38
1822	PVC	8	50	Good	1		55	17	38
1823	PVC	12	50	Good	1		55	17	38
1824	PVC	12	50	Good	1		55	17	38
1825	PVC	12	50	Good	1		55	17	38
1826	DIP	20	50	Good	1		50	17	33
1827	PVC	12	50	Good	1		55	17	38
1828	DIP	20	50	Good	1		50	17	33
1829	PVC	12	50	Good	1		55	17	38
1830	DIP	20	50	Good	1		50	17	33
1831	PVC	12	50	Good	1		55	17	38
1832	DIP	20	50	Good	1		50	17	33
1833	PVC	12	50	Good	1		55	17	38
1834	DIP	20	50	Good	1		50	17	33
1835	PVC	12	50	Good	1		55	17	38
1836	DIP	20	50	Good	1		50	17	33
1837	PVC	8	50	Good	1		55	19	36
1838	DIP	20	50	Good	1		50	19	31
1839	DIP	20	50	Good	1		50	19	31
1840	DIP	20	50	Good	1		50	19	31
1841	PVC	6	50	Good	1		55	15	40
1842	PVC	6	50	Good	1		55	15	40

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1843	PVC	6	50	Good	1		55	15	40
1844	PVC	4	50	Good	1		55	15	40
1845	PVC	6	50	Good	1		55	15	40
1846	PVC	6	50	Good	1		55	15	40
1847	PVC	4	50	Good	1		55	15	40
1848	PVC	6	50	Good	1		55	15	40
1849	PVC	6	50	Good	1		55	15	40
1850	PVC	6	50	Good	1		55	15	40
1851	PVC	4	50	Good	1		55	15	40
1852	PVC	6	50	Good	1		55	18	37
1853	PVC	14	50	Good	1		55	18	37
1854	PVC	6	50	Good	1		55	18	37
1855	PVC	6	50	Good	1		55	13	42
1856	PVC	6	50	Good	1		55	13	42
1857	PVC	6	50	Good	1		55	13	42
1858	PVC	8	50	Good	1		55	18	37
1859	PVC	14	50	Good	1		55	18	37
1860	PVC	6	50	Good	1		55	13	42
1861	PVC	6	50	Good	1		55	13	42
1862	PVC	12	50	Good	1		55	13	42
1863	PVC	12	50	Good	1		55	13	42
1864	PVC	6	50	Good	1		55	13	42
1865	PVC	6	50	Good	1		55	13	42
1866	PVC	6	50	Good	1		55	13	42
1867	PVC	6	50	Good	1		55	13	42
1868	PVC	6	50	Good	1		55	13	42
1869	PVC	6	50	Good	1		55	13	42
1870	PVC	6	50	Good	1		55	13	42
1871	PVC	6	50	Good	1		55	13	42
1872	PVC	6	50	Good	1		55	13	42
1873	PVC	6	50	Good	1		55	13	42
1874	PVC	6	50	Good	1		55	13	42
1875	PVC	6	50	Good	1		55	13	42
1876	PVC	6	50	Good	1		55	13	42
1877	PVC	8	50	Good	1		55	13	42
1878	PVC	8	50	Good	1		55	13	42
1879	PVC	8	50	Good	1		55	13	42
1880	PVC	8	50	Good	1		55	13	42
1881	PVC	8	50	Good	1		55	13	42
1882	PVC	8	50	Good	1		55	13	42
1883	PVC	8	50	Good	1		55	13	42
1884	PVC	8	50	Good	1		55	13	42
1885	PVC	8	50	Good	1		55	13	42
1886	PVC	8	50	Good	1		55	13	42
1887	PVC	8	50	Good	1		55	13	42
1888	PVC	8	50	Good	1		55	13	42
1889	PVC	8	50	Good	1		55	13	42
1890	PVC	8	50	Good	1		55	13	42
1891	PVC	8	50	Good	1		55	24	31
1892	PVC	4	50	Good	1		55	24	31
1893	PVC	8	50	Good	1		55	24	31

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1894	PVC	4	50	Good	1		55	24	31
1895	PVC	8	50	Good	1		55	24	31
1896	PVC	8	50	Good	1		55	24	31
1897	PVC	4	50	Good	1		55	24	31
1898	PVC	8	50	Good	1		55	24	31
1899	PVC	4	50	Good	1		55	24	31
1900	PVC	8	50	Good	1		55	24	31
1901	PVC	8	50	Good	1		55	13	42
1902	PVC	8	50	Good	1		55	13	42
1903	PVC	8	50	Good	1		55	13	42
1904	PVC	8	50	Good	1		55	13	42
1905	PVC	8	50	Good	1		55	13	42
1906	PVC	4	50	Good	1		55	14	41
1907	PVC	4	50	Good	1		55	14	41
1908	PE	1	100	Good	1		100	17	83
1909	PE	1	100	Good	1		100	17	83
1910	PE	1	100	Good	1		100	17	83
1911	PE	1	100	Good	1		100	17	83
1912	PE	1	100	Good	1		100	17	83
1913	PE	1	100	Good	1		100	17	83
1914	PE	1	100	Good	1		100	17	83
1915	PE	1	100	Good	1		100	17	83
1916	PE	1	100	Good	1		100	17	83
1917	PE	1	100	Good	1		100	17	83
1918	PE	1	100	Good	1		100	17	83
1919	PE	1	100	Good	1		100	17	83
1920	PE	1	100	Good	1		100	17	83
1921	PE	1	100	Good	1		100	17	83
1922	PE	1	100	Good	1		100	17	83
1923	PE	1	100	Good	1		100	17	83
1924	PE	1	100	Good	1		100	17	83
1925	PE	1	100	Good	1		100	17	83
1926	PE	1	100	Good	1		100	17	83
1927	PE	1	100	Good	1		100	17	83
1928	PE	1	100	Good	1		100	17	83
1929	PE	1	100	Good	1		100	17	83
1930	PE	1	100	Good	1		100	17	83
1931	PE	1	100	Good	1		100	17	83
1932	PE	1	100	Good	1		100	17	83
1933	PE	1	100	Good	1		100	17	83
1934	PE	1	100	Good	1		100	17	83
1935	PE	1	100	Good	1		100	17	83
1936	PE	1	100	Good	1		100	17	83
1937	PE	1	100	Good	1		100	17	83
1938	PVC	4	50	Good	1		55	17	38
1939	PVC	4	50	Good	1		55	17	38
1940	PVC	6	50	Good	1		55	17	38
1941	PVC	4	50	Good	1		55	17	38
1942	PVC	4	50	Good	1		55	17	38
1943	PVC	4	50	Good	1		55	17	38
1944	PVC	4	50	Good	1		55	17	38

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1945	PVC	4	50	Good	1		55	17	38
1946	PVC	6	50	Good	1		55	12	43
1947	PVC	4	50	Good	1		55	12	43
1948	PVC	6	50	Good	1		55	15	40
1949	PVC	6	50	Good	1		55	15	40
1950	PVC	6	50	Good	1		55	18	37
1951	PVC	4	50	Good	1		55	17	38
1952	PVC	4	50	Good	1		55	17	38
1953	PVC	4	50	Good	1		55	18	37
1954	PVC	4	50	Good	1		55	18	37
1955	PVC	6	50	Good	1		55	18	37
1956	PVC	8	50	Good	1		55	16	39
1957	PVC	4	50	Good	1		55	16	39
1958	PVC	8	50	Good	1		55	16	39
1959	PVC	8	50	Good	1		55	16	39
1960	PVC	8	50	Good	1		55	16	39
1961	PVC	8	50	Good	1		55	16	39
1962	PVC	8	50	Good	1		55	16	39
1963	PVC	8	50	Good	1		55	16	39
1964	PVC	8	50	Good	1		55	14	41
1965	PVC	6	50	Good	1		55	14	41
1966	PVC	8	50	Good	1		55	14	41
1967	PVC	8	50	Good	1		55	13	42
1968	PVC	8	50	Good	1		55	13	42
1969	PVC	12	50	Good	1		55	13	42
1970	PVC	12	50	Good	1		55	13	42
1971	PVC	8	50	Good	1		55	13	42
1972	PVC	12	50	Good	1		55	13	42
1973	PVC	8	50	Good	1		55	13	42
1974	PVC	12	50	Good	1		55	13	42
1975	PVC	12	50	Good	1		55	13	42
1976	DIP	30	50	Good	1		50	13	37
1977	PVC	6	50	Good	1		55	13	42
1978	PVC	6	50	Good	1		55	13	42
1979	PVC	6	50	Good	1		55	13	42
1981	PVC	6	50	Good	1		55	13	42
1982	PVC	6	50	Good	1		55	13	42
1983	PVC	6	50	Good	1		55	13	42
1984	PVC	6	50	Good	1		55	13	42
1985	PVC	6	50	Good	1		55	13	42
1986	PVC	6	50	Good	1		55	13	42
1987	PVC	6	50	Good	1		55	13	42
1988	PVC	6	50	Good	1		55	13	42
1989	PVC	6	50	Good	1		55	12	43
1990	PE	1	100	Good	1		100	14	86
1991	PE	1	100	Good	1		100	14	86
1992	PE	1	100	Good	1		100	14	86
1993	PE	1	100	Good	1		100	14	86
1994	PE	1	100	Good	1		100	14	86
1995	PE	1	100	Good	1		100	14	86
1996	PE	1	100	Good	1		100	14	86

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
1997	PE	1	100	Good	1		100	14	86
1998	PE	1	100	Good	1		100	14	86
1999	PE	1	100	Good	1		100	14	86
2000	PE	1	100	Good	1		100	14	86
2001	PE	1	100	Good	1		100	14	86
2002	PE	1	100	Good	1		100	14	86
2003	PE	1	100	Good	1		100	14	86
2004	PE	1	100	Good	1		100	14	86
2005	PE	1	100	Good	1		100	14	86
2006	PE	1	100	Good	1		100	14	86
2007	PE	1	100	Good	1		100	14	86
2008	PE	1	100	Good	1		100	14	86
2009	PE	1	100	Good	1		100	14	86
2010	PE	1	100	Good	1		100	14	86
2011	PE	1	100	Good	1		100	14	86
2012	PE	1	100	Good	1		100	14	86
2013	PE	1	100	Good	1		100	14	86
2014	PE	1	100	Good	1		100	14	86
2015	PE	1	100	Good	1		100	14	86
2016	PE	1	100	Good	1		100	14	86
2017	PE	1	100	Good	1		100	14	86
2018	PE	1	100	Good	1		100	14	86
2019	PE	1	100	Good	1		100	14	86
2020	PE	1	100	Good	1		100	14	86
2021	PVC	6	50	Good	1		55	14	41
2022	PVC	8	50	Good	1		55	14	41
2023	PVC	8	50	Good	1		55	14	41
2024	PVC	8	50	Good	1		55	14	41
2025	PVC	6	50	Good	1		55	Unknown	Unknown
2026	PVC	4	50	Good	1		55	Unknown	Unknown
2027	PVC	6	50	Good	1		55	Unknown	Unknown
2028	PVC	6	50	Good	1		55	Unknown	Unknown
2029	PVC	4	50	Good	1		55	Unknown	Unknown
2030	PVC	6	50	Good	1		55	Unknown	Unknown
2031	PVC	6	50	Good	1		55	Unknown	Unknown
2032	PVC	6	50	Good	1		55	Unknown	Unknown
2033	PVC	4	50	Good	1		55	Unknown	Unknown
2034	PVC	6	50	Good	1		55	Unknown	Unknown
2035	PVC	6	50	Good	1		55	Unknown	Unknown
2036	PVC	6	50	Good	1		55	Unknown	Unknown
2037	PVC	6	50	Good	1		55	Unknown	Unknown
2038	PVC	6	50	Good	1		55	Unknown	Unknown
2039	PVC	6	50	Good	1		55	Unknown	Unknown
2040	PVC	6	50	Good	1		55	Unknown	Unknown
2041	PVC	6	50	Good	1		55	Unknown	Unknown
2042	PVC	6	50	Good	1		55	10	45
2043	PVC	4	50	Good	1		55	10	45
2044	PVC	6	50	Good	1		55	10	45
2045	PVC	6	50	Good	1		55	10	45
2046	PVC	6	50	Good	1		55	10	45
2047	PVC	6	50	Good	1		55	10	45

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2048	PVC	6	50	Good	1		55	10	45
2049	PVC	6	50	Good	1		55	10	45
2051	PVC	4	50	Good	1		55	10	45
2052	PVC	6	50	Good	1		55	10	45
2053	PVC	6	50	Good	1		55	10	45
2054	PVC	6	50	Good	1		55	10	45
2055	PVC	8	50	Good	1		55	10	45
2056	PVC	8	50	Good	1		55	10	45
2057	PVC	8	50	Good	1		55	10	45
2058	PVC	4	50	Good	1		55	10	45
2059	PVC	8	50	Good	1		55	10	45
2060	PVC	6	50	Good	1		55	10	45
2061	PVC	6	50	Good	1		55	10	45
2062	PVC	6	50	Good	1		55	10	45
2063	PVC	6	50	Good	1		55	10	45
2064	PVC	6	50	Good	1		55	10	45
2065	PVC	6	50	Good	1		55	10	45
2066	PVC	6	50	Good	1		55	10	45
2067	PVC	6	50	Good	1		55	10	45
2068	PVC	8	50	Good	1		55	10	45
2069	PVC	6	50	Good	1		55	10	45
2070	PVC	12	50	Good	1		55	10	45
2071	PVC	6	50	Good	1		55	10	45
2072	PVC	12	50	Good	1		55	10	45
2073	PVC	8	50	Good	1		55	10	45
2074	PVC	12	50	Good	1		55	10	45
2075	PVC	6	50	Good	1		55	10	45
2076	PVC	6	50	Good	1		55	10	45
2077	PVC	12	50	Good	1		55	10	45
2078	PVC	6	50	Good	1		55	10	45
2079	PVC	6	50	Good	1		55	10	45
2080	PVC	12	50	Good	1		55	10	45
2081	PVC	6	50	Good	1		55	10	45
2082	PVC	12	50	Good	1		55	10	45
2083	PVC	12	50	Good	1		55	10	45
2084	PVC	6	50	Good	1		55	10	45
2085	PVC	6	50	Good	1		55	10	45
2086	PVC	6	50	Good	1		55	10	45
2087	PVC	6	50	Good	1		55	10	45
2088	PVC	6	50	Good	1		55	10	45
2089	PVC	6	50	Good	1		55	10	45
2090	PVC	6	50	Good	1		55	10	45
2091	PVC	6	50	Good	1		55	10	45
2092	PVC	6	50	Good	1		55	10	45
2093	PVC	8	50	Good	1		55	10	45
2094	PVC	4	50	Good	1		55	10	45
2095	PVC	8	50	Good	1		55	10	45
2096	PVC	12	50	Good	1		55	10	45
2097	PVC	12	50	Good	1		55	10	45
2098	PVC	16	50	Good	1		55	10	45
2099	PVC	4	50	Good	1		55	10	45

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2100	PVC	16	50	Good	1		55	10	45
2101	PVC	6	50	Good	1		55	10	45
2102	PVC	4	50	Good	1		55	10	45
2103	PVC	16	50	Good	1		55	10	45
2104	PVC	12	50	Good	1		55	10	45
2105	PVC	6	50	Good	1		55	10	45
2106	PVC	4	50	Good	1		55	10	45
2107	PVC	6	50	Good	1		55	10	45
2108	PVC	4	50	Good	1		55	10	45
2109	PVC	4	50	Good	1		55	10	45
2110	PVC	4	50	Good	1		55	10	45
2111	PVC	12	50	Good	1		55	10	45
2112	PVC	8	50	Good	1		55	10	45
2114	PVC	12	50	Good	1		55	10	45
2115	PVC	12	50	Good	1		55	10	45
2116	PVC	12	50	Good	1		55	9	46
2117	PVC	4	50	Good	1		55	14	41
2118	PVC	4	50	Good	1		55	14	41
2119	PVC	10	50	Good	1		55	14	41
2120	PVC	4	50	Good	1		55	14	41
2121	PVC	6	50	Good	1		55	17	38
2122	PVC	4	50	Good	1		55	15	40
2123	PVC	8	50	Good	1		55	17	38
2124	PVC	8	50	Good	1		55	17	38
2125	PVC	8	50	Good	1		55	17	38
2126	PVC	8	50	Good	1		55	17	38
2127	PVC	8	50	Good	1		55	17	38
2128	PVC	8	50	Good	1		55	17	38
2129	PVC	4	50	Good	1		55	17	38
2130	PVC	8	50	Good	1		55	17	38
2131	PVC	8	50	Good	1		55	17	38
2132	PVC	8	50	Good	1		55	13	42
2133	PVC	8	50	Good	1		55	13	42
2134	PVC	8	50	Good	1		55	13	42
2135	PVC	4	50	Good	1		55	13	42
2136	PVC	4	50	Good	1		55	13	42
2137	PVC	8	50	Good	1		55	13	42
2138	PVC	8	50	Good	1		55	13	42
2139	PVC	8	50	Good	1		55	13	42
2140	PVC	8	50	Good	1		55	13	42
2141	PVC	4	50	Good	1		55	15	40
2142	PVC	4	50	Good	1		55	15	40
2143	PVC	4	50	Good	1		55	15	40
2144	PVC	4	50	Good	1		55	15	40
2145	PVC	4	50	Good	1		55	15	40
2146	PVC	6	50	Good	1		55	15	40
2147	PVC	4	50	Good	1		55	15	40
2148	PVC	6	50	Good	1		55	15	40
2149	PVC	4	50	Good	1		55	15	40
2150	PVC	4	50	Good	1		55	15	40
2151	PVC	4	50	Good	1		55	15	40

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2152	PVC	4	50	Good	1		55	17	38
2153	PVC	4	50	Good	1		55	17	38
2154	PVC	4	50	Good	1		55	17	38
2155	PVC	6	50	Good	1		55	17	38
2156	PVC	6	50	Good	1		55	17	38
2157	PVC	4	50	Good	1		55	17	38
2158	PVC	4	50	Good	1		55	17	38
2159	PE	1	100	Good	1		100	17	83
2160	PE	1	100	Good	1		100	17	83
2161	PVC	4	50	Good	1		55	18	37
2162	PVC	4	50	Good	1		55	18	37
2163	PVC	6	50	Good	1		55	18	37
2164	PVC	4	50	Good	1		55	18	37
2165	PVC	6	50	Good	1		55	18	37
2166	PVC	6	50	Good	1		55	18	37
2167	PVC	6	50	Good	1		55	18	37
2168	PVC	4	50	Good	1		55	18	37
2169	PVC	6	50	Good	1		55	18	37
2170	PVC	4	50	Good	1		55	18	37
2171	PVC	8	50	Good	1		55	18	37
2172	PVC	6	50	Good	1		55	18	37
2173	PVC	10	50	Good	1		55	18	37
2174	PVC	6	50	Good	1		55	18	37
2175	PVC	10	50	Good	1		55	18	37
2176	PVC	10	50	Good	1		55	18	37
2177	PVC	4	50	Good	1		55	18	37
2178	PVC	10	50	Good	1		55	18	37
2179	PVC	6	50	Good	1		55	18	37
2180	PVC	10	50	Good	1		55	18	37
2181	PVC	10	50	Good	1		55	18	37
2182	PVC	6	50	Good	1		55	18	37
2183	PVC	10	50	Good	1		55	18	37
2184	PVC	6	50	Good	1		55	18	37
2185	PVC	10	50	Good	1		55	18	37
2186	PVC	4	50	Good	1		55	18	37
2187	PVC	10	50	Good	1		55	18	37
2188	PVC	4	50	Good	1		55	18	37
2189	PVC	10	50	Good	1		55	18	37
2190	PVC	6	50	Good	1		55	18	37
2191	PVC	10	50	Good	1		55	18	37
2192	PVC	6	50	Good	1		55	18	37
2193	PVC	10	50	Good	1		55	18	37
2194	PVC	4	50	Good	1		55	18	37
2195	PVC	4	50	Good	1		55	18	37
2196	PVC	10	50	Good	1		55	18	37
2197	PVC	6	50	Good	1		55	18	37
2198	PVC	6	50	Good	1		55	18	37
2199	PVC	10	50	Good	1		55	18	37
2200	PVC	4	50	Good	1		55	18	37
2201	PVC	10	50	Good	1		55	18	37
2202	PVC	4	50	Good	1		55	17	38

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2203	PVC	4	50	Good	1		55	18	37
2204	PVC	6	50	Good	1		55	18	37
2205	PVC	12	50	Good	1		55	9	46
2206	PVC	30	50	Good	1		55	9	46
2207	PVC	6	50	Good	1		55	9	46
2208	PVC	12	50	Good	1		55	9	46
2209	PVC	12	50	Good	1		55	11	44
2210	PVC	30	50	Good	1		55	9	46
2211	PVC	30	50	Good	1		55	9	46
2212	PVC	8	50	Good	1		55	9	46
2213	PVC	6	50	Good	1		55	9	46
2214	PVC	6	50	Good	1		55	9	46
2215	PVC	6	50	Good	1		55	9	46
2216	PVC	6	50	Good	1		55	9	46
2217	PVC	4	50	Good	1		55	9	46
2219	PVC	6	50	Good	1		55	9	46
2220	PVC	6	50	Good	1		55	9	46
2221	PVC	6	50	Good	1		55	9	46
2222	PVC	6	50	Good	1		55	9	46
2223	PVC	6	50	Good	1		55	9	46
2225	DIP	8	50	Good	1		50	9	41
2226	DIP	8	50	Good	1		50	9	41
2227	DIP	8	50	Good	1		50	9	41
2228	DIP	8	50	Good	1		50	9	41
2229	DIP	8	50	Good	1		50	9	41
2230	PVC	4	50	Good	1		55	8	47
2231	DIP	8	50	Good	1		50	9	41
2232	DIP	8	50	Good	1		50	9	41
2233	DIP	20	50	Good	1		50	9	41
2234	DIP	20	50	Good	1		50	9	41
2235	PVC	6	50	Good	1		55	9	46
2237	DIP	8	50	Good	1		50	9	41
2238	DIP	10	50	Good	1		50	9	41
2239	DIP	12	50	Good	1		50	9	41
2240	DIP	12	50	Good	1		50	9	41
2241	DIP	8	50	Good	1		50	9	41
2242	DIP	12	50	Good	1		50	9	41
2243	DIP	10	50	Good	1		50	9	41
2244	DIP	10	50	Good	1		50	9	41
2245	DIP	8	50	Good	1		50	9	41
2246	DIP	8	50	Good	1		50	9	41
2247	PVC	6	50	Good	1		55	9	46
2248	DIP	8	50	Good	1		50	9	41
2249	DIP	8	50	Good	1		50	9	41
2250	DIP	8	50	Good	1		50	9	41
2251	DIP	8	50	Good	1		50	9	41
2252	DIP	8	50	Good	1		50	9	41
2253	PVC	6	50	Good	1		55	9	46
2254	PVC	4	50	Good	1		55	9	46
2255	PVC	4	50	Good	1		55	9	46
2256	PVC	4	50	Good	1		55	9	46

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2257	PVC	6	50	Good	1		55	8	47
2258	PVC	6	50	Good	1		55	8	47
2259	PVC	6	50	Good	1		55	8	47
2260	PVC	6	50	Good	1		55	8	47
2261	PVC	6	50	Good	1		55	8	47
2262	PVC	6	50	Good	1		55	8	47
2263	PVC	6	50	Good	1		55	8	47
2264	PVC	6	50	Good	1		55	8	47
2265	PVC	6	50	Good	1		55	8	47
2266	PVC	6	50	Good	1		55	8	47
2267	PVC	8	50	Good	1		55	8	47
2268	PVC	8	50	Good	1		55	8	47
2269	PVC	8	50	Good	1		55	8	47
2270	PVC	8	50	Good	1		55	8	47
2271	PVC	4	50	Good	1		55	8	47
2273	PVC	4	50	Good	1		55	8	47
2274	PVC	4	50	Good	1		55	8	47
2275	PVC	4	50	Good	1		55	8	47
2276	PVC	4	50	Good	1		55	8	47
2277	PVC	6	50	Good	1		55	8	47
2278	PVC	8	50	Good	1		55	8	47
2279	PVC	8	50	Good	1		55	8	47
2280	PVC	8	50	Good	1		55	8	47
2281	PVC	12	50	Good	1		55	8	47
2282	PVC	4	50	Good	1		55	8	47
2283	PVC	30	50	Good	1		55	8	47
2284	PVC	30	50	Good	1		55	8	47
2285	PVC	12	50	Good	1		55	8	47
2286	PVC	30	50	Good	1		55	8	47
2287	PVC	8	50	Good	1		55	8	47
2288	PVC	8	50	Good	1		55	8	47
2289	PVC	8	50	Good	1		55	8	47
2290	PVC	8	50	Good	1		55	8	47
2291	PVC	8	50	Good	1		55	8	47
2292	PVC	6	50	Good	1		55	8	47
2293	PVC	6	50	Good	1		55	8	47
2294	PVC	6	50	Good	1		55	8	47
2295	PVC	6	50	Good	1		55	8	47
2296	PVC	6	50	Good	1		55	8	47
2297	PVC	12	50	Good	1		55	8	47
2298	PVC	12	50	Good	1		55	8	47
2299	PVC	3	50	Good	1		55	7	48
2300	DIP	36	50	Good	1		50	2	48
2301	PVC	12	50	Good	1		55	7	48
2302	PVC	12	50	Good	1		55	7	48
2303	PVC	4	50	Good	1		55	7	48
2304	PVC	4	50	Good	1		55	7	48
2305	PVC	4	50	Good	1		55	7	48
2306	PVC	4	50	Good	1		55	7	48
2307	PVC	4	50	Good	1		55	7	48
2308	PVC	12	50	Good	1		55	7	48

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2309	PVC	12	50	Good	1		55	7	48
2310	PVC	12	50	Good	1		55	7	48
2311	PVC	12	50	Good	1		55	7	48
2312	PVC	12	50	Good	1		55	7	48
2313	PVC	12	50	Good	1		55	7	48
2314	PVC	12	50	Good	1		55	7	48
2315	PVC	12	50	Good	1		55	7	48
2316	PVC	12	50	Good	1		55	7	48
2317	PVC	12	50	Good	1		55	7	48
2318	PVC	12	50	Good	1		55	7	48
2319	PVC	12	50	Good	1		55	7	48
2320	PVC	4	50	Good	1		55	7	48
2321	PVC	4	50	Good	1		55	7	48
2322	PVC	4	50	Good	1		55	7	48
2323	PVC	6	50	Good	1		55	7	48
2324	PVC	6	50	Good	1		55	7	48
2325	PVC	4	50	Good	1		55	7	48
2326	PVC	6	50	Good	1		55	8	47
2327	PVC	4	50	Good	1		55	7	48
2328	PVC	4	50	Good	1		55	7	48
2329	PVC	4	50	Good	1		55	7	48
2330	PVC	6	50	Good	1		55	7	48
2331	PVC	6	50	Good	1		55	7	48
2332	PVC	6	50	Good	1		55	7	48
2333	PVC	6	50	Good	1		55	7	48
2334	PVC	4	50	Good	1		55	7	48
2335	PVC	4	50	Good	1		55	7	48
2336	PVC	6	50	Good	1		55	7	48
2337	PVC	4	50	Good	1		55	7	48
2338	PVC	4	50	Good	1		55	7	48
2339	PVC	4	50	Good	1		55	7	48
2340	PVC	4	50	Good	1		55	7	48
2341	PVC	4	50	Good	1		55	7	48
2342	PVC	4	50	Good	1		55	7	48
2343	PVC	4	50	Good	1		55	7	48
2344	PVC	4	50	Good	1		55	7	48
2345	PVC	20	50	Good	1		55	7	48
2346	PVC	20	50	Good	1		55	7	48
2347	PVC	4	50	Good	1		55	7	48
2348	PVC	4	50	Good	1		55	7	48
2349	PVC	4	50	Good	1		55	7	48
2350	PVC	4	50	Good	1		55	7	48
2351	PVC	4	50	Good	1		55	7	48
2352	PVC	4	50	Good	1		55	7	48
2353	PVC	4	50	Good	1		55	4	51
2354	PVC	4	50	Good	1		55	7	48
2355	PVC	4	50	Good	1		55	7	48
2356	PVC	4	50	Good	1		55	7	48
2357	PVC	4	50	Good	1		55	7	48
2358	PVC	4	50	Good	1		55	7	48
2359	PVC	4	50	Good	1		55	7	48

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2360	PVC	4	50	Good	1		55	7	48
2361	PVC	4	50	Good	1		55	7	48
2362	PVC	4	50	Good	1		55	7	48
2364	PE	1.5	100	Good	1		100	7	93
2365	PVC	6	50	Good	1		55	7	48
2366	PVC	4	50	Good	1		55	6	49
2367	DIP	18	50	Good	1		50	6	44
2368	DIP	16	50	Good	1		50	6	44
2369	PVC	6	50	Good	1		55	7	48
2370	DIP	20	50	Good	1		50	5	45
2371	DIP	18	50	Good	1		50	5	45
2372	DIP	8	50	Good	1		50	5	45
2373	DIP	20	50	Good	1		50	5	45
2374	DIP	8	50	Good	1		50	5	45
2375	PVC	8	50	Good	1		55	Unknown	Unknown
2376	DIP	8	50	Good	1		50	6	44
2377	PVC	12	50	Good	1		55	10	45
2378	PVC	16	50	Good	1		55	9	46
2379	PVC	16	50	Good	1		55	9	46
2380	PVC	16	50	Good	1		55	9	46
2381	PVC	8	50	Good	1		55	6	49
2382	PVC	8	50	Good	1		55	6	49
2383	PVC	8	50	Good	1		55	6	49
2384	PVC	12	50	Good	1		55	14	41
2385	HDPE	4	100	Good	1		100	6	94
2386	PVC	6	50	Good	1		55	9	46
2387	PVC	8	50	Good	1		55	5	50
2388	PVC	6	50	Good	1		55	5	50
2389	PVC	6	50	Good	1		55	5	50
2391	PVC	6	50	Good	1		55	5	50
2392	PVC	12	50	Good	1		55	5	50
2393	PVC	16	50	Good	1		55	5	50
2394	PVC	6	50	Good	1		55	5	50
2395	PVC	6	50	Good	1		55	5	50
2396	PVC	8	50	Good	1		55	5	50
2397	DIP	8	50	Good	1		50	5	45
2398	DIP	24	50	Good	1		50	10	40
2399	PVC	12	50	Good	1		55	8	47
2400	DIP	12	50	Good	1		50	10	40
2401	PVC	12	50	Good	1		55	8	47
2402	DIP	30	50	Good	1		50	10	40
2403	DIP	30	50	Good	1		50	10	40
2404	PVC	18	50	Good	1		55	10	45
2405	DIP	12	50	Good	1		50	10	40
2406	PVC	36	50	Good	1		55	11	44
2407	PVC	30	50	Good	1		55	11	44
2408	PVC	12	50	Good	1		55	10	45
2409	PVC	12	50	Good	1		55	11	44
2410	PVC	12	50	Good	1		55	10	45
2411	DIP	30	50	Good	1		50	10	40
2412	DIP	30	50	Good	1		50	10	40

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2414	PVC	12	50	Good	1		55	10	45
2416	PVC	12	50	Good	1		55	5	50
2417	PVC	6	50	Good	1		55	9	46
2418	PVC	4	50	Good	1		55	9	46
2419	PVC	6	50	Good	1		55	9	46
2420	PVC	6	50	Good	1		55	10	45
2421	PVC	6	50	Good	1		55	9	46
2424	Unknown	2	Unknown	Good	1		Unknown	9	41
2425	Unknown	2	Unknown	Good	1		Unknown	9	41
2426	PVC	6	50	Good	1		55	9	46
2427	PVC	6	50	Good	1		55	9	46
2428	PVC	4	50	Good	1		55	9	46
2429	PVC	6	50	Good	1		55	9	46
2430	PVC	6	50	Good	1		55	5	50
2431	PVC	6	50	Good	1		55	7	48
2432	PVC	6	50	Good	1		55	7	48
2433	PE	2	100	Good	1		100	7	93
2434	PVC	6	50	Good	1		55	7	48
2435	PE	2	100	Good	1		100	7	93
2436	PVC	6	50	Good	1		55	5	50
2437	PVC	4	50	Good	1		55	5	50
2438		2	0	Good	1		0	5	45
2439	PVC	6	50	Good	1		55	9	46
2440	PVC	6	50	Good	1		55	9	46
2441	PVC	6	50	Good	1		55	9	46
2442	PVC	8	50	Good	1		55	9	46
2443	PVC	8	50	Good	1		55	9	46
2444	PVC	8	50	Good	1		55	9	46
2445	PVC	8	50	Good	1		55	10	45
2446	PVC	6	50	Good	1		55	9	46
2451	PVC	6	50	Good	1		55	9	46
2452	PVC	2	50	Good	1		55	9	46
2453	PVC	2	50	Good	1		55	9	46
2454	PVC	2	50	Good	1		55	9	46
2455	PVC	4	50	Good	1		55	9	46
2456	PVC	6	50	Good	1		55	9	46
2457	PVC	6	50	Good	1		55	9	46
2458	PVC	2	50	Good	1		55	5	50
2459	PVC	4	50	Good	1		55	5	50
2460	PVC	4	50	Good	1		55	5	50
2461	PVC	4	50	Good	1		55	7	48
2462	PE	2	100	Good	1		100	7	93
2463	PVC	2	50	Good	1		55	9	46
2464	PVC	8	50	Good	1		55	9	46
2465	PVC	4	50	Good	1		55	7	48
2466	PVC	6	50	Good	1		55	7	48
2467	PE	2	100	Good	1		100	7	93
2468	PE	2	100	Good	1		100	7	93
2469	PVC	6	50	Good	1		55	10	45
2470	PVC	6	50	Good	1		55	7	48
2471	PE	2	100	Good	1		100	7	93

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2472	PVC	6	50	Good	1		55	7	48
2473	PVC	6	50	Good	1		55	9	46
2474	PVC	6	50	Good	1		55	9	46
2475	PVC	4	50	Good	1		55	5	50
2476	PVC	14	50	Good	1		55	18	37
2480	PVC	8	50	Good	1		55	5	50
2481	PVC	4	50	Good	1		55	5	50
2482	PVC	4	50	Good	1		55	5	50
2483	PVC	10	50	Good	1		55	10	45
2484	PVC	10	50	Good	1		55	10	45
2485	PVC	10	50	Good	1		55	9	46
2486	PVC	8	50	Good	1		55	9	46
2487	PVC	8	50	Good	1		55	9	46
2488	PVC	10	50	Good	1		55	5	50
2489	PVC	4	50	Good	1		55	9	46
2492	PVC	8	50	Good	1		55	5	50
2494	PVC	4	50	Good	1		55	9	46
2495	PVC	8	50	Good	1		55	9	46
2496	PVC	12	50	Good	1		55	5	50
2497	PVC	12	50	Good	1		55	5	50
2498	PVC	12	50	Good	1		55	6	49
2499	PVC	1.5	50	Good	1		55	6	49
2501	HDPE	1.5	100	Good	1		100	6	94
2503	HDPE	1.5	100	Good	1		100	6	94
2504	HDPE	6	100	Good	1		100	6	94
2505	HDPE	6	100	Good	1		100	6	94
2509	HDPE	8	100	Good	1		100	6	94
2511	HDPE	8	100	Good	1		100	6	94
2515	PE	1	100	Good	1		100	6	94
2517	HDPE	6	100	Good	1		100	6	94
2519	HDPE	8	100	Good	1		100	6	94
2521	PVC	6	50	Good	1		55	5	50
2523	HDPE	6	100	Good	1		100	5	95
2524	HDPE	12	100	Good	1		100	6	94
2526	PVC	20	50	Good	1		55	7	48
2527	PVC	4	50	Good	1		55	7	48
2528	DIP	30	50	Good	1		50	4	46
2529	DIP	36	50	Good	1		50	2	48
2530	DIP	30	50	Good	1		50	5	45
2531	DIP	30	50	Good	1		50	4	46
2532	DIP	8	50	Good	1		50	4	46
2535	DIP	30	50	Good	1		50	5	45
2537	DIP	30	50	Good	1		50	5	45
2538	DIP	30	50	Good	1		50	5	45
2539	DIP	6	50	Good	1		50	5	45
2540	PVC	4	50	Good	1		55	4	51
2541	PVC	12	50	Good	1		55	4	51
2542	PVC	12	50	Good	1		55	4	51
2543	PE	8	100	Good	1		100	4	96
2544	PE	4	100	Good	1		100	4	96
2545	DIP	24	50	Good	1		50	13	37

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2546	DIP	24	50	Good	1		50	13	37
2547	DIP	30	50	Good	1		50	13	37
2548	DIP	24	50	Good	1		50	4	46
2549	PVC	14	50	Good	1		55	18	37
2550	PVC	8	50	Good	1		55	18	37
2551	PVC	14	50	Good	1		55	18	37
2552	PVC	16	50	Good	1		55	4	51
2553	PVC	30	50	Good	1		55	4	51
2554	DIP	36	50	Good	1		50	4	46
2555	DIP	30	50	Good	1		50	4	46
2556	DIP	36	50	Good	1		50	4	46
2557	DIP	36	50	Good	1		50	4	46
2558	PVC	30	50	Good	1		55	10	45
2559	PVC	12	50	Good	1		55	10	45
2560	PVC	6	50	Good	1		55	4	51
2561	PVC	6	50	Good	1		55	11	44
2562	PVC	6	50	Good	1		55	11	44
2563	HDPE	6	100	Good	1		100	4	96
2564	DIP	48	50	Good	1		50	4	46
2565	PVC	12	50	Good	1		55	4	51
2566	HDPE	6	100	Good	1		100	4	96
2567	PVC	6	50	Good	1		55	9	46
2568	DIP	30	50	Good	1		50	12	38
2570	DIP	30	50	Good	1		50	4	46
2571	Unknown	8	Unknown	Good	1		Unknown	4	46
2572	PVC	8	50	Good	1		55	9	46
2574	PVC	6	50	Good	1		55	3	52
2575	PVC	8	50	Good	1		55	15	40
2576	PVC	6	50	Good	1		55	3	52
2577	PVC	4	50	Good	1		55	3	52
2580	PVC	8	50	Good	1		55	Unknown	Unknown
2581	PVC	4	50	Good	1		55	3	52
2582	PVC	4	50	Good	1		55	3	52
2583	PVC	4	50	Good	1		55	3	52
2585	PVC	4	50	Good	1		55	3	52
2586	PVC	4	50	Good	1		55	3	52
2587	PVC	4	50	Good	1		55	3	52
2588	PVC	4	50	Good	1		55	3	52
2589	PVC	4	50	Good	1		55	3	52
2590	PVC	4	50	Good	1		55	3	52
2592	PVC	4	50	Good	1		55	3	52
2593	PVC	6	50	Good	1		55	3	52
2595	PVC	4	50	Good	1		55	3	52
2596	PVC	6	50	Good	1		55	3	52
2597	PVC	4	50	Good	1		55	3	52
2598	DIP	30	50	Good	1		50	3	47
2603	DIP	30	50	Good	1		50	3	47
2604	PVC	6	50	Good	1		55	5	50
2605	PVC	12	50	Good	1		55	7	48
2606	PVC	6	50	Good	1		55	4	51
2607	PVC	6	50	Good	1		55	4	51

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2608	PVC	4	50	Good	1		55	4	51
2609	PVC	12	50	Good	1		55	7	48
2610	PVC	4	50	Good	1		55	4	51
2611	PVC	4	50	Good	1		55	4	51
2612	PVC	4	50	Good	1		55	4	51
2613	PVC	6	50	Good	1		55	9	46
2614	PVC	12	50	Good	1		55	7	48
2615	PVC	6	50	Good	1		55	4	51
2616	PVC	6	50	Good	1		55	4	51
2617	PVC	6	50	Good	1		55	4	51
2618	PVC	4	50	Good	1		55	4	51
2621	PVC	4	50	Good	1		55	4	51
2622	PVC	4	50	Good	1		55	4	51
2623	PVC	4	50	Good	1		55	4	51
2624	PVC	4	50	Good	1		55	4	51
2625	PVC	4	50	Good	1		55	4	51
2626	PVC	4	50	Good	1		55	4	51
2627	PVC	4	50	Good	1		55	4	51
2628	PVC	4	50	Good	1		55	4	51
2629	PVC	4	50	Good	1		55	4	51
2630	PVC	4	50	Good	1		55	4	51
2631	PVC	4	50	Good	1		55	4	51
2632	PVC	4	50	Good	1		55	4	51
2633	PVC	12	50	Good	1		55	7	48
2634	PVC	4	50	Good	1		55	4	51
2635	PVC	4	50	Good	1		55	4	51
2636	PVC	4	50	Good	1		55	4	51
2637	PVC	4	50	Good	1		55	4	51
2638	PVC	4	50	Good	1		55	7	48
2639	PVC	4	50	Good	1		55	4	51
2640	PVC	4	50	Good	1		55	7	48
2641	PVC	6	50	Good	1		55	4	51
2642	PVC	4	50	Good	1		55	4	51
2643	PVC	4	50	Good	1		55	4	51
2644	PVC	4	50	Good	1		55	4	51
2645	PVC	4	50	Good	1		55	4	51
2646	PVC	4	50	Good	1		55	4	51
2647	PVC	6	50	Good	1		55	4	51
2648	PVC	4	50	Good	1		55	4	51
2649	PVC	6	50	Good	1		55	4	51
2650	PVC	6	50	Good	1		55	4	51
2651	PVC	6	50	Good	1		55	3	52
2652	DIP	20	50	Good	1		50	23	27
2653	DIP	20	50	Good	1		50	23	27
2654	DIP	30	50	Good	1		50	5	45
2655	HDPE	30	100	Good	1		100	5	95
2656	HDPE	4	100	Good	1		100	6	94
2657	PVC	8	50	Good	1		55	Unknown	Unknown
2658	DIP	20	50	Good	1		50	10	40
2659	DIP	20	50	Good	1		50	10	40
2660	DIP	20	50	Good	1		50	10	40

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2661	DIP	20	50	Good	1		50	10	40
2662	DIP	20	50	Good	1		50	10	40
2663	DIP	20	50	Good	1		50	10	40
2664	DIP	16	50	Good	1		50	10	40
2665	DIP	36	50	Good	1		50	10	40
2666	DIP	36	50	Good	1		50	10	40
2667	DIP	36	50	Good	1		50	10	40
2668	DIP	36	50	Good	1		50	10	40
2669	DIP	36	50	Good	1		50	10	40
2670	DIP	36	50	Good	1		50	10	40
2671	DIP	24	50	Good	1		50	10	40
2672	DIP	36	50	Good	1		50	10	40
2673	DIP	36	50	Good	1		50	10	40
2674	DIP	24	50	Good	1		50	10	40
2675	DIP	16	50	Good	1		50	10	40
2676	DIP	16	50	Good	1		50	10	40
2677	DIP	16	50	Good	1		50	10	40
2678	DIP	36	50	Good	1		50	10	40
2679	DIP	36	50	Good	1		50	10	40
2680	DIP	36	50	Good	1		50	10	40
2681	DIP	8	50	Good	1		50	10	40
2682	DIP	8	50	Good	1		50	10	40
2683	DIP	8	50	Good	1		50	10	40
2684	DIP	8	50	Good	1		50	10	40
2685	DIP	16	50	Good	1		50	10	40
2686	DIP	24	50	Good	1		50	18	32
2687	DIP	24	50	Good	1		50	18	32
2688	DIP	16	50	Good	1		50	18	32
2689	DIP	24	50	Good	1		50	18	32
2690	DIP	24	50	Good	1		50	11	39
2691	DIP	24	50	Good	1		50	18	32
2692	DIP	24	50	Good	1		50	11	39
2693	DIP	24	50	Good	1		50	11	39
2694	DIP	16	50	Good	1		50	11	39
2695	DIP	24	50	Good	1		50	11	39
2696	DIP	16	50	Good	1		50	11	39
2697	PVC	4	50	Good	1		55	7	48
2698	PVC	2	50	Good	1		55	7	48
2699	PVC	12	50	Good	1		55	11	44
2700	PVC	3	50	Good	1		55	11	44
2701	PVC	16	50	Good	1		55	4	51
2702	PVC	30	50	Good	1		55	10	45
2703	DIP	24	50	Good	1		50	13	37
2704	PVC	30	50	Good	1		55	13	42
2705	PVC	16	50	Good	1		55	13	42
2706	PVC	12	50	Good	1		55	13	42
2707	PVC	14	50	Good	1		55	18	37
2708	PVC	14	50	Good	1		55	18	37
2709	PE	1.5	100	Good	1		100	7	93
2710	DIP	18	50	Good	1		50	23	27
2711	DIP	30	50	Good	1		50	4	46

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2712	PVC	8	50	Good	1		55	2	53
2713	PVC	8	50	Good	1		55	2	53
2714	PVC	8	50	Good	1		55	2	53
2715	PVC	8	50	Good	1		55	2	53
2716	PVC	8	50	Good	1		55	2	53
2717	PVC	8	50	Good	1		55	2	53
2718	PVC	8	50	Good	1		55	2	53
2719	PVC	8	50	Good	1		55	2	53
2720	PVC	8	50	Good	1		55	2	53
2721	PVC	8	50	Good	1		55	2	53
2722	PVC	8	50	Good	1		55	2	53
2723	PVC	12	50	Good	1		55	12	43
2724	PVC	8	50	Good	1		55	2	53
2725	PVC	8	50	Good	1		55	2	53
2726	PVC	8	50	Good	1		55	2	53
2727	PVC	8	50	Good	1		55	2	53
2728	PVC	8	50	Good	1		55	2	53
2729	PVC	8	50	Good	1		55	2	53
2730	PVC	8	50	Good	1		55	2	53
2731	PVC	8	50	Good	1		55	2	53
2732	PVC	8	50	Good	1		55	2	53
2733	PVC	8	50	Good	1		55	2	53
2734	PVC	8	50	Good	1		55	2	53
2735	PVC	8	50	Good	1		55	2	53
2736	PVC	8	50	Good	1		55	2	53
2737	DIP	20	50	Good	1		50	23	27
2739	DIP	14	50	Good	1		50	23	27
2741	DIP	20	50	Good	1		50	23	27
2742	DIP	20	50	Good	1		50	23	27
2743	DIP	20	50	Good	1		50	23	27
2744	PVC	6	50	Good	1		55	18	37
2745	DIP	20	50	Good	1		50	23	27
2746	DIP	20	50	Good	1		50	23	27
2747	PVC	10	50	Good	1		55	18	37
2748	PVC	6	50	Good	1		55	13	42
2749	PVC	8	50	Good	1		55	Unknown	Unknown
2750	PVC	8	50	Good	1		55	10	45
2751	PVC	6	50	Good	1		55	Unknown	Unknown
2752	PVC	6	50	Good	1		55	10	45
2753	PVC	8	50	Good	1		55	18	37
2754	PVC	8	50	Good	1		55	18	37
2755	PVC	6	50	Good	1		55	12	43
2756	PVC	6	50	Good	1		55	Unknown	Unknown
2757	PVC	12	50	Good	1		55	9	46
2758	PVC	6	50	Good	1		55	9	46
2759	PVC	6	50	Good	1		55	9	46
2760	PVC	6	50	Good	1		55	9	46
2761	PVC	6	50	Good	1		55	4	51
2762	PVC	12	50	Good	1		55	9	46
2763	PVC	6	50	Good	1		55	9	46
2764	PVC	6	50	Good	1		55	9	46

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2765	PVC	6	50	Good	1		55	9	46
2766	PVC	6	50	Good	1		55	9	46
2767	PVC	8	50	Good	1		55	9	46
2768	PVC	6	50	Good	1		55	9	46
2769	PVC	6	50	Good	1		55	9	46
2770	PVC	6	50	Good	1		55	9	46
2771	PVC	6	50	Good	1		55	3	52
2772	PVC	6	50	Good	1		55	3	52
2773	PVC	4	50	Good	1		55	3	52
2774	PVC	6	50	Good	1		55	13	42
2775	PVC	6	50	Good	1		55	13	42
2777	PVC	6	50	Good	1		55	9	46
2778	PVC	6	50	Good	1		55	9	46
2779	PVC	6	50	Good	1		55	7	48
2782	DIP	8	50	Good	1		50	4	46
2783	PVC	6	50	Good	1		55	2	53
2784	PVC	6	50	Good	1		55	2	53
2785	PVC	6	50	Good	1		55	2	53
2786	PVC	4	50	Good	1		55	2	53
2788	PVC	4	50	Good	1		55	2	53
2789	PVC	4	50	Good	1		55	2	53
2791	PVC	4	50	Good	1		55	2	53
2792	PVC	4	50	Good	1		55	2	53
2793	PVC	4	50	Good	1		55	2	53
2794	PVC	4	50	Good	1		55	2	53
2795	PVC	4	50	Good	1		55	2	53
2796	PVC	4	50	Good	1		55	2	53
2797	PVC	12	50	Good	1		55	7	48
2798	PVC	12	50	Good	1		55	5	50
2799	DIP	36	50	Good	1		50	10	40
2800	DIP	36	50	Good	1		50	10	40
2802	PVC	12	50	Good	1		55	10	45
2803	PVC	30	50	Good	1		55	10	45
2804	PVC	12	50	Good	1		55	10	45
2805	DIP	36	50	Good	1		50	2	48
2806	PVC	8	50	Good	1		55	2	53
2807	PVC	16	50	Good	1		55	2	53
2808	DIP	16	50	Good	1		50	2	48
2811	DIP	16	50	Good	1		50	2	48
2830	DIP	16	50	Good	1		50	2	48
2832	DIP	16	50	Good	1		50	2	48
2833	DIP	16	50	Good	1		50	2	48
2834	HDPE	16	100	Good	1		100	2	98
2836	PVC	16	50	Good	1		55	2	53
2837	HDPE	16	100	Good	1		100	2	98
2839	PVC	16	50	Good	1		55	2	53
2841	HDPE	16	100	Good	1		100	2	98
2843	PVC	16	50	Good	1		55	Unknown	Unknown
2844	HDPE	16	100	Good	1		100	2	98
2845	PVC	16	50	Good	1		55	2	53
2846	HDPE	16	100	Good	1		100	Unknown	Unknown

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2847	PVC	16	50	Good	1		55	2	53
2849	HDPE	16	100	Good	1		100	Unknown	Unknown
2851	PVC	16	50	Good	1		55	2	53
2852	HDPE	16	100	Good	1		100	2	98
2853	PVC	16	50	Good	1		55	2	53
2855	HDPE	16	100	Good	1		100	2	98
2856	PVC	16	50	Good	1		55	Unknown	Unknown
2858	HDPE	16	100	Good	1		100	Unknown	Unknown
2859	PVC	16	50	Good	1		55	Unknown	Unknown
2860	HDPE	16	100	Good	1		100	Unknown	Unknown
2861	PVC	16	50	Good	1		55	Unknown	Unknown
2862	HDPE	16	100	Good	1		100	2	98
2863	PVC	16	50	Good	1		55	2	53
2864	HDPE	16	100	Good	1		100	Unknown	Unknown
2865	PVC	16	50	Good	1		55	2	53
2867	HDPE	16	100	Good	1		100	2	98
2868	PVC	16	50	Good	1		55	2	53
2869	HDPE	16	100	Good	1		100	2	98
2871	PVC	16	50	Good	1		55	2	53
2872	HDPE	16	100	Good	1		100	2	98
2873	PVC	16	50	Good	1		55	2	53
2874	HDPE	16	100	Good	1		100	Unknown	Unknown
2875	PVC	16	50	Good	1		55	2	53
2877	HDPE	16	100	Good	1		100	Unknown	Unknown
2879	PVC	16	50	Good	1		55	2	53
2881	HDPE	16	100	Good	1		100	Unknown	Unknown
2882	PVC	16	50	Good	1		55	2	53
2883	HDPE	16	100	Good	1		100	2	98
2884	PVC	16	50	Good	1		55	2	53
2885	HDPE	16	100	Good	1		100	2	98
2886	PVC	16	50	Good	1		55	2	53
2889	HDPE	16	100	Good	1		100	2	98
2890	PVC	16	50	Good	1		55	2	53
2891	HDPE	16	100	Good	1		100	2	98
2892	PVC	16	50	Good	1		55	2	53
2893	HDPE	16	100	Good	1		100	2	98
2894	PVC	16	50	Good	1		55	2	53
2895	HDPE	16	100	Good	1		100	2	98
2896	PVC	16	50	Good	1		55	2	53
2897	HDPE	16	100	Good	1		100	2	98
2898	PVC	16	50	Good	1		55	2	53
2899	HDPE	16	100	Good	1		100	2	98
2900	PVC	16	50	Good	1		55	2	53
2901	HDPE	16	100	Good	1		100	2	98
2902	PVC	16	50	Good	1		55	2	53
2903	HDPE	16	100	Good	1		100	2	98
2904	PVC	16	50	Good	1		55	2	53
2905	HDPE	16	100	Good	1		100	2	98
2908	DIP	12	50	Good	1		50	2	48
2911	DIP	20	50	Good	1		50	8	42
2912	PVC	4	50	Good	1		55	2	53

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Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2913	PVC	6	50	Good	1		55	2	53
2914	PVC	8	50	Good	1		55	Unknown	Unknown
2915	PVC	6	50	Good	1		55	Unknown	Unknown
2916	PVC	6	50	Good	1		55	2	53
2917	PVC	6	50	Good	1		55	2	53
2918	PVC	6	50	Good	1		55	2	53
2919	PVC	4	50	Good	1		55	2	53
2920	PVC	6	50	Good	1		55	2	53
2921	PVC	4	50	Good	1		55	2	53
2923	PVC	4	50	Good	1		55	2	53
2924	PVC	4	50	Good	1		55	2	53
2925	PVC	6	50	Good	1		55	2	53
2926	PVC	6	50	Good	1		55	2	53
2927	PVC	6	50	Good	1		55	2	53
2928	PVC	6	50	Good	1		55	2	53
2930	PVC	6	50	Good	1		55	2	53
2931	PVC	6	50	Good	1		55	2	53
2932	PVC	8	50	Good	1		55	9	46
2933	PVC	4	50	Good	1		55	9	46
2934	PVC	8	50	Good	1		55	9	46
2936	PVC	4	50	Good	1		55	9	46
2937	PVC	4	50	Good	1		55	9	46
2938	PVC	12	50	Good	1		55	1	54
2939	PVC	6	50	Good	1		55	1	54
2940	PVC	6	50	Good	1		55	1	54
2941	PVC	6	50	Good	1		55	1	54
2942	PVC	8	50	Good	1		55	1	54
2943	PVC	4	50	Good	1		55	1	54
2944	DIP	20	50	Good	1		50	1	49
2945	PVC	6	50	Good	1		55	5	50
2949	Unknown	0	0	Good	1		0	Unknown	Unknown
2950	PVC	6	50	Good	1		55	5	50
2951	PVC	6	50	Good	1		55	5	50
2952	PVC	6	50	Good	1		55	9	46
2953	PVC	6	50	Good	1		55	9	46
2954	PVC	4	50	Good	1		55	2	53
2956	PVC	4	50	Good	1		55	2	53
2957	PVC	4	50	Good	1		55	2	53
2958	PVC	6	50	Good	1		55	2	53
2959	PVC	8	50	Good	1		55	1	54
2960	PVC	8	50	Good	1		55	1	54
2964	PVC	8	50	Good	1		55	1	54
2966	PVC	8	50	Good	1		55	1	54
2969	PVC	6	50	Good	1		55	1	54
2970	PVC	6	50	Good	1		55	1	54
2971	PVC	6	50	Good	1		55	1	54
2972	PVC	12	50	Good	1		55	1	54
2973	PVC	12	50	Good	1		55	1	54
2974	PVC	12	50	Good	1		55	1	54
2975	PVC	12	50	Good	1		55	1	54
2976	PVC	10	50	Good	1		55	1	54

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
2977	PVC	10	50	Good	1		55	10	45
2978	PVC	2	50	Good	1		55	1	54
2979	PVC	12	50	Good	1		55	1	54
2980	PVC	2	50	Good	1		55	0	55
2981	PVC	8	50	Good	1		55	0	55
2982	PVC	6	50	Good	1		55	0	55
2983	PVC	6	50	Good	1		55	0	55
2984	PVC	6	50	Good	1		55	0	55
2985	PVC	12	50	Good	1		55	Unknown	Unknown
2986	PVC	4	50	Good	1		55	0	55
2987	PVC	4	50	Good	1		55	0	55
2988	PVC	4	50	Good	1		55	0	55
2989	PVC	4	50	Good	1		55	0	55
2990	PVC	6	50	Good	1		55	0	55
2991	PVC	4	50	Good	1		55	0	55
2992	PVC	4	50	Good	1		55	0	55
2993	PVC	8	50	Good	1		55	6	49
2994	PVC	12	50	Good	1		55	6	49
2996	PVC	12	50	Good	1		55	6	49
2997	PVC	12	50	Good	1		55	6	49
2998	PVC	12	50	Good	1		55	6	49
2999	PVC	12	50	Good	1		55	6	49
3000	PVC	12	50	Good	1		55	6	49
3001	PVC	12	50	Good	1		55	6	49
3002	PVC	12	50	Good	1		55	6	49
3003	PVC	12	50	Good	1		55	13	42
3004	PVC	4	50	Good	1		55	7	48
3005	PVC	20	50	Good	1		55	Unknown	Unknown
3006	PVC	8	50	Good	1		55	0	55
3007	PVC	6	50	Good	1		55	0	55
3008	PVC	6	50	Good	1		55	0	55
3009	PVC	6	50	Good	1		55	0	55
3010	PVC	6	50	Good	1		55	0	55
3011	PVC	6	50	Good	1		55	0	55
3012	PVC	6	50	Good	1		55	0	55
3013	PVC	6	50	Good	1		55	0	55
3014	PVC	6	50	Good	1		55	0	55
3015	PVC	6	50	Good	1		55	0	55
3016	PVC	6	50	Good	1		55	0	55
3017	PVC	6	50	Good	1		55	0	55
3018	PVC	12	50	Good	1		55	13	42
3020	DIP	12	50	Good	1		50	8	42
3021	PVC	6	50	Good	1		55	9	46
3022	PVC	6	50	Good	1		55	9	46
3023	PVC	8	50	Good	1		55	9	46
3024	PVC	20	50	Good	1		55	0	55
3025	PVC	36	50	Good	1		55	0	55
3026	DIP	48	50	Good	1		50	0	50
3027	DIP	36	50	Good	1		50	0	50
3028	DIP	20	50	Good	1		50	0	50
3029	DIP	36	50	Good	1		50	0	50

Apopka Phase I Wastewater Utility System Inventory Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Expected Useful Life	Condition (1 - 5) (Good = 1,Fair=3, Poor =5)	Condition	Service History	Adjusted Useful Life	Age	Remaining Useful Life
3031	DIP	48	50	Good	1		50	0	50
3032	PVC	8	50	Good	1		55	0	55

APPENDIX C

2015 ASSET CONDITION INSPECTION PHOTOS

(Volume II Appendices on CD in pocket on inside back cover)

Updated Date 9/29/2015

Lift Station:	LS005	**Description:**	Lift Station #5	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1987	**Width (ft):**	10'
Location:	1611 South Lake Pleasant, Piedmont Park	**Inv Elevation:**	82.0IN 75.00BOTTOM	**Depth (ft):**	12' 5"
Invert Size:	(A)10"	**Invert Depth:**	(A) 4' 9"	**Invert Location:**	(A) E
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**		**Condition:**	
Valve	6" Dezurik	**Install Date:**		**Condition:**	
Comments:					
Equipment:	LS005sp-1	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS005	**Model Number:**	3152.180	**Serial Number:**	8970448
Manufacturer	FLTGT	**HP:**	20	**Impeller**	454
Comments:					
Equipment:	LS005sp-2	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS005	**Model Number:**	3152.180	**Serial Number:**	8970450
Manufacturer	FLTGT	**HP:**	20	**Impeller**	454
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Quality Controls (SAS)
Panel Serial Number:	12-87-18	**Install Date:**	1/15/1988	**Panel Condition:**	Bad, needs updates in 2 yrs
Disconnect Make:	No Disconnect	**Disconnect Part 1:**		**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

Updated Picture

Updated Date 9/29/2015

Lift Station:	LS009	**Description:**	Lift Station #9	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1988	**Width (ft):**	11'
Location:	Palm Key Apartments, 700 Piedmont Wekiva	**Inv Elevation:**	Inv. El. 66.11 W	**Depth (ft):**	25'
Invert Size:	(A) 6" (B) 8" (C) 6"	**Invert Depth:**	(A) 4' 6" (B) 18' (C) 4' 8"	**Invert Location:**	(A) E (B) W (C) NW
Discharge FM size:	6"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy/ 1996	**Install Date:**	01/01/1996	**Condition:**	Fair
Valve	Dezurik/ 9070164	**Install Date:**	01/01/1996	**Condition:**	Fair
Comments:	Lift station physical structure condition is poor				
Equipment:	LS009sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/2014
Assembly	LS009	**Model Number:**	3201.180	**Serial Number:**	8560157
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS009sp-2	**Equip Type**	Submersible Pump	**Install Date:**	4/23/2010
Assembly	LS009	**Model Number:**	3201.180	**Serial Number:**	8571015
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Riley and Co.
Panel Serial Number:		**Install Date:**	1/1/2010	**Panel Condition:**	Good
Disconnect Make:		**Disconnect Part 1:**		**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

Updated Picture

Updated Date 9/29/2015

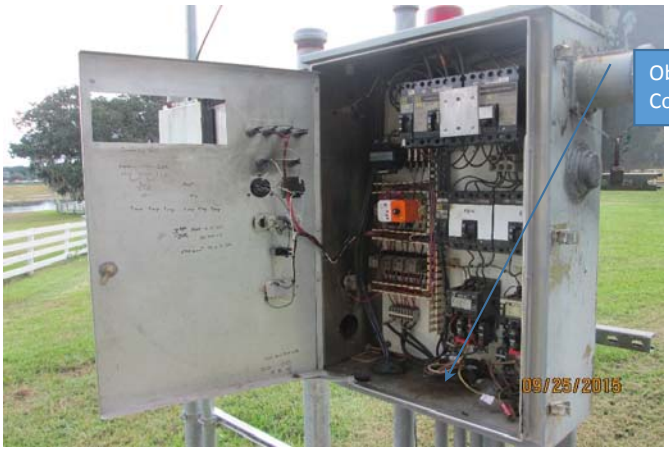
Lift Station:	LS010	**Description:**	Lift Station #10	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1988	**Width (ft):**	10'
Location:	833 South Orange Blossom Trail	**Inv Elevation:**	Inv. El. 83.50 NE	**Depth (ft):**	11'
Invert Size:	(A)8" (B) 8"	**Invert Depth:**	(A) 3'4" (B) 3'4"	**Invert Location:**	(A)NE (B)SE
Discharge FM size:	6"	**FM Type**	HDPE	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Good**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Poor**
Comments:					
Equipment:	LS010sp-1	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS005	**Model Number:**	3201	**Serial Number:**	8571018
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS010sp-2	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS010	**Model Number:**	3201	**Serial Number:**	8571019
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	86-135	**Install Date:**	8/13/1986	**Panel Condition:**	Bad, needs replacing
Disconnect Make:	SQD	**Disconnect Part 1:**	NB-425/Fuses, TR400R	**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

Updated Picture

Updated Date 9/29/2015

Lift Station:	LS013	**Description:**	Lift Station #13	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1985	**Width (ft):**	6'
Location:	834 East Main Street	**Inv Elevation:**		**Depth (ft):**	14'5"
Invert Size:	(A) 8"	**Invert Depth:**	(A) 5'3"	**Invert Location:**	(A) SE
Discharge FM size:	6"	**FM Type**	HDPE	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Good**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Poor**
Comments:					
Equipment:	LS013sp-1	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS013	**Model Number:**	3085.181	**Serial Number:**	N/A
Manufacturer	FLTGT	**HP:**	2.3	**Impeller**	434
Comments:					
Equipment:	LS013sp-2	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS013	**Model Number:**	3102.180.1585	**Serial Number:**	8670790
Manufacturer	FLTGT	**HP:**	5	**Impeller**	435
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Quality Controls (SAS)
Panel Serial Number:	01-87-11	**Install Date:**	1/1/1987	**Panel Condition:**	Bad, needs updated in 1 yr
Disconnect Make:	No Disconnect	**Disconnect Part 1:**		**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

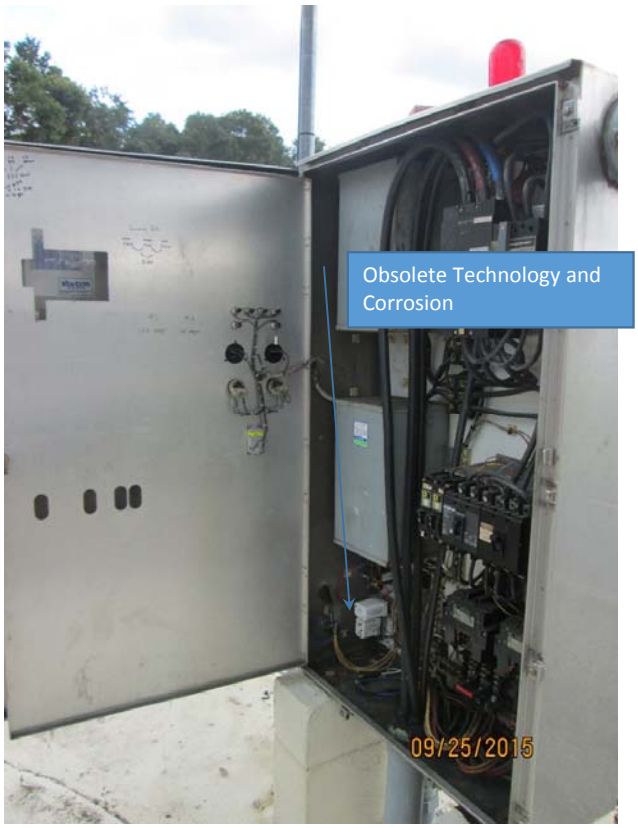
Updated Picture



Updated Date 9/29/2015

Lift Station:	LS017	**Description:**	Lift Station #17	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1971	**Width (ft):**	40' x 23'
Location:	131 North Forest Avenue	**Inv Elevation:**	102	**Depth (ft):**	20'
Invert Size:	(A) 24"	**Invert Depth:**	(A) 7'	**Invert Location:**	(A) E
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Bad**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Bad**
Comments:	Valve in bad condition				
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Bad**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Bad**
Comments:	Valve in bad condition				
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Bad**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Bad**
Comments:	Valve in bad condition				
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	**Poor**
Check Valve	Clow Kennedy	**Install Date:**	**01/01/2008**	**Condition:**	**Bad**
Valve	6" Dezurik	**Install Date:**		**Condition:**	**Bad**
Comments:	Valve in bad condition				
Equipment:	LS017p-1	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS017	**Model Number:**	3201	**Serial Number:**	8571018
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS017p-2	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS017	**Model Number:**	3201	**Serial Number:**	8571019
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS017p-3	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS017	**Model Number:**	3201	**Serial Number:**	8571018
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS017p-4	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS017	**Model Number:**	3201	**Serial Number:**	8571019
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	86-135	**Install Date:**	8/13/1986	**Panel Condition:**	Bad, needs replacing
Disconnect Make:	SQD	**Disconnect Part 1:**	NB-425/Fuses, TR400R	**Disconnect Part 2:**	
Equipment:	LS017gen-1	**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	1/1/1972
Comments:	No Generator				

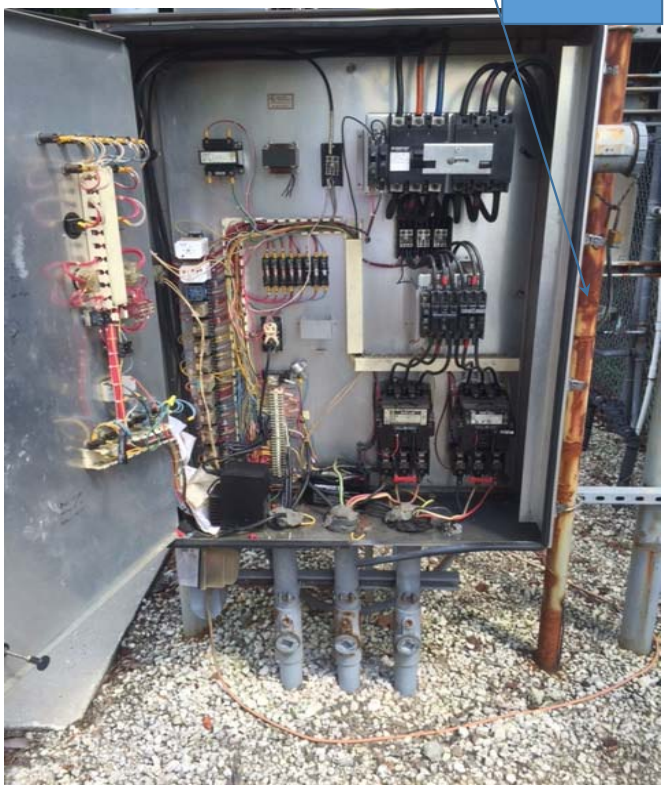
Updated Picture



Updated Date 9/29/2015

Lift Station:	LS025	**Description:**	Lift Station #25	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1974	**Width (ft):**	6'
Location:	Orange North Apartments	**Inv Elevation:**	105.11 INV 98.56 BOTTOM	**Depth (ft):**	12' 5"
Invert Size:	(A) 8"	**Invert Depth:**	(A) 7'1"	**Invert Location:**	(A)W
Discharge FM size:	6"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	American/ 1998	**Install Date:**	01/01/1998	**Condition:**	Good
Valve	6" Milliken	**Install Date:**	01/01/1974	**Condition:**	Fair
Comments:					
Equipment:	LS025sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1974
Assembly	LS025	**Model Number:**	3104	**Serial Number:**	9840092
Manufacturer	FLTGT	**HP:**	15	**Impeller**	434
Comments:					
Equipment:	LS025sp-2	**Equip Type**	Submersible Pump	**Install Date:**	
Assembly	LS025	**Model Number:**	3104	**Serial Number:**	9840093
Manufacturer	FLTGT	**HP:**	15	**Impeller**	434
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Protrol panels inc.
Panel Serial Number:	Drawing # I-035-95R2	**Install Date:**	1/27/1998	**Panel Condition:**	1yr left due to gases
Disconnect Make:	General Electric	**Disconnect Part 1:**	TF225CS	**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

Updated Picture



Updated Date 9/29/2015

Lift Station:	LS028	**Description:**	Lift Station #28	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1972	**Width (ft):**	8'
Location:	Errol Estates Golf Course	**Inv Elevation:**	59.36SW 59.27NW 51.82 BOT	**Depth (ft):**	18' 4"
Invert Size:	(A)10"(B)10"(C)8"	**Invert Depth:**	(A)11'(B)11'2"(C)6'	**Invert Location:**	(A)SW(B)N(C)NW
Discharge FM size:	6"	**FM Type**	Ductile	**FM Condition:**	Fair
Check Valve	Clow Kennedy/ 1995	**Install Date:**	01/01/1995	**Condition:**	Poor
Valve	Unknown	**Install Date:**	01/01/1972	**Condition:**	Poor
Comments:					
Equipment:	LS028sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1972
Assembly	LS028	**Model Number:**	M# 3101.180	**Serial Number:**	032105
Manufacturer	FLTGT	**HP:**	5	**Impeller**	431
Comments:					
Equipment:	LS028sp-2	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1972
Assembly	LS028	**Model Number:**	M# 3101.180	**Serial Number:**	032104
Manufacturer	FLTGT	**HP:**	5	**Impeller**	431
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	94-227	**Install Date:**	Unknown	**Panel Condition:**	Poor, needs updated soon
Disconnect Make:	No Disconnect	**Disconnect Part 1:**		**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

Updated Picture

Updated Date 9/29/2015

Lift Station:	LS029	**Description:**	Lift Station #29	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1974	**Width (ft):**	8'
Location:	Errols Hills Golf Course	**Inv Elevation:**	53.69S 53.25N 45.0 BOTTOM	**Depth (ft):**	23' 7"
Invert Size:	(A)24"(B)8"(C)6"	**Invert Depth:**	(A)18'2"(B)16'8"(C)8'	**Invert Location:**	(A)N(B)S(C)E
Discharge FM size:	8"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy/ 2011	**Install Date:**	01/01/2011	**Condition:**	Good
Valve	10" Dezurik	**Install Date:**	01/01/1974	**Condition:**	Good
Comments:					
Equipment:	LS029sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1974
Assembly	LS029	**Model Number:**	KRTK150-325/624UG	**Serial Number:**	116521
Manufacturer	KSB	**HP:**	88	**Impeller**	
Comments:	Pump in poor condition				
Equipment:	LS029sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1974
Assembly	LS029	**Model Number:**	KRTK150-325/624UG	**Serial Number:**	
Manufacturer	KSB	**HP:**	88	**Impeller**	
Comments:	Pump in poor condition				
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	Drawing # Q13491	**Install Date:**	1/1/1995	**Panel Condition:**	Updated in 1995/ 1yr left Due to Gases Corrision
Disconnect Make:	SQD	**Disconnect Part 1:**	HU365	**Disconnect Part 2:**	
Equipment:	LS029gen-1	**Equip Type**	Generator	**Manufacturer:**	Onan
Model Number:	125.ODYD-15R	**Serial Number:**	1274007100	**Install Date:**	1/1/1974
Comments:	125 KW				
Equipment:	LS029gen-2	**Equip Type**	Generator	**Manufacturer:**	Allis Chalmers
Model Number:	11000	**Serial Number:**		**Install Date:**	1/1/1974
Comments:	125 KW				

Updated Picture

Updated Date 9/29/2015

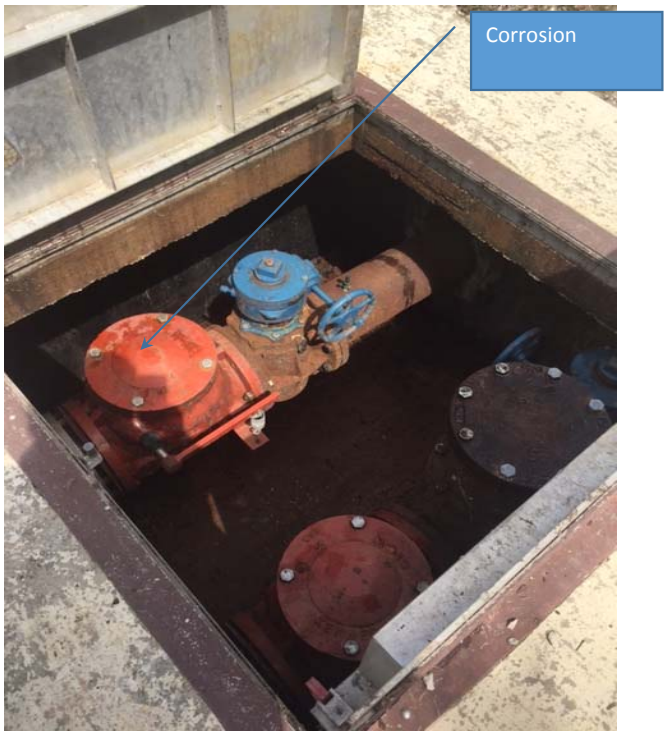
Lift Station:	LS030	**Description:**	Lift Station #30	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1987	**Width (ft):**	6'
Location:	Greenbrook Villas	**Inv Elevation:**	Inv. El. 94.62 E & W	**Depth (ft):**	18' 4"
Invert Size:	(A)10"	**Invert Depth:**	(A)13'2"	**Invert Location:**	(A)W
Discharge FM size:	8"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy	**Install Date:**	01/01/2011	**Condition:**	Good
Valve	8" Dezurik	**Install Date:**	01/01/1987	**Condition:**	Fair
Comments:					
Equipment:	LS030sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1987
Assembly	LS030	**Model Number:**	M#3127.180.8002	**Serial Number:**	8640483
Manufacturer	FLTGT	**HP:**	10	**Impeller**	445
Comments:	Pump in poor condition				
Equipment:	LS030sp-2	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1987
Assembly	LS030	**Model Number:**	M#3127.180.8002	**Serial Number:**	8640482
Manufacturer	FLTGT	**HP:**	10	**Impeller**	445
Comments:	Pump in poor condition				
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	86-278	**Install Date:**	12/26/1986	**Panel Condition:**	Bad,need updated within 2yrs
Disconnect Make:	ITE	**Disconnect Part 1:**	NR423(fuses OT100)	**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator				

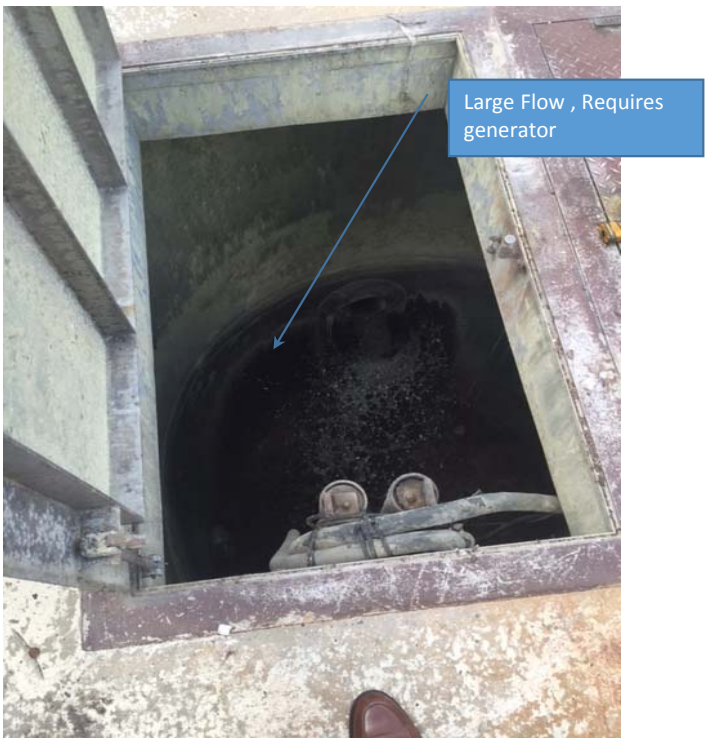
Updated Picture

Updated Date 9/29/2015

Lift Station:	LS051	**Description:**	Lift Station #51	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1998	**Width (ft):**	8'
Location:	University of Florida - IFAS	**Inv Elevation:**	Unknown	**Depth (ft):**	17'
Invert Size:	(A)8"(B)10"(C)8"	**Invert Depth:**	(A)7'6"(B)7'6"(C)10'6"	**Invert Location:**	(A)N(B)W(C)S
Discharge FM size:	8"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy/ 2011	**Install Date:**	01/01/2011	**Condition:**	Good
Valve	8" Dezurik/ *P#2 side	**Install Date:**	01/01/1998	**Condition:**	Poor, needs replacement
Comments:					
Equipment:	LS051sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1998
Assembly	LS051	**Model Number:**	M# 3140.180	**Serial Number:**	9710090
Manufacturer	FLTGT	**HP:**	30	**Impeller**	443
Comments:					
Equipment:	LS051sp-2	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1998
Assembly	LS051	**Model Number:**	M# 3140.180	**Serial Number:**	9710093
Manufacturer	FLTGT	**HP:**	30	**Impeller**	443
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	ITT Flygt
Panel Serial Number:	06-98-26	**Install Date:**	10/22/1998	**Panel Condition:**	Poor, needs replaced 1yr due to gases
Disconnect Make:	SQD	**Disconnect Part 1:**	Breaker,KAL36125	**Disconnect Part 2:**	
Equipment:		**Equip Type**		**Manufacturer:**	
Model Number:		**Serial Number:**		**Install Date:**	
Comments:	No Generator but need one				

Updated Picture





Updated Date 9/29/2015

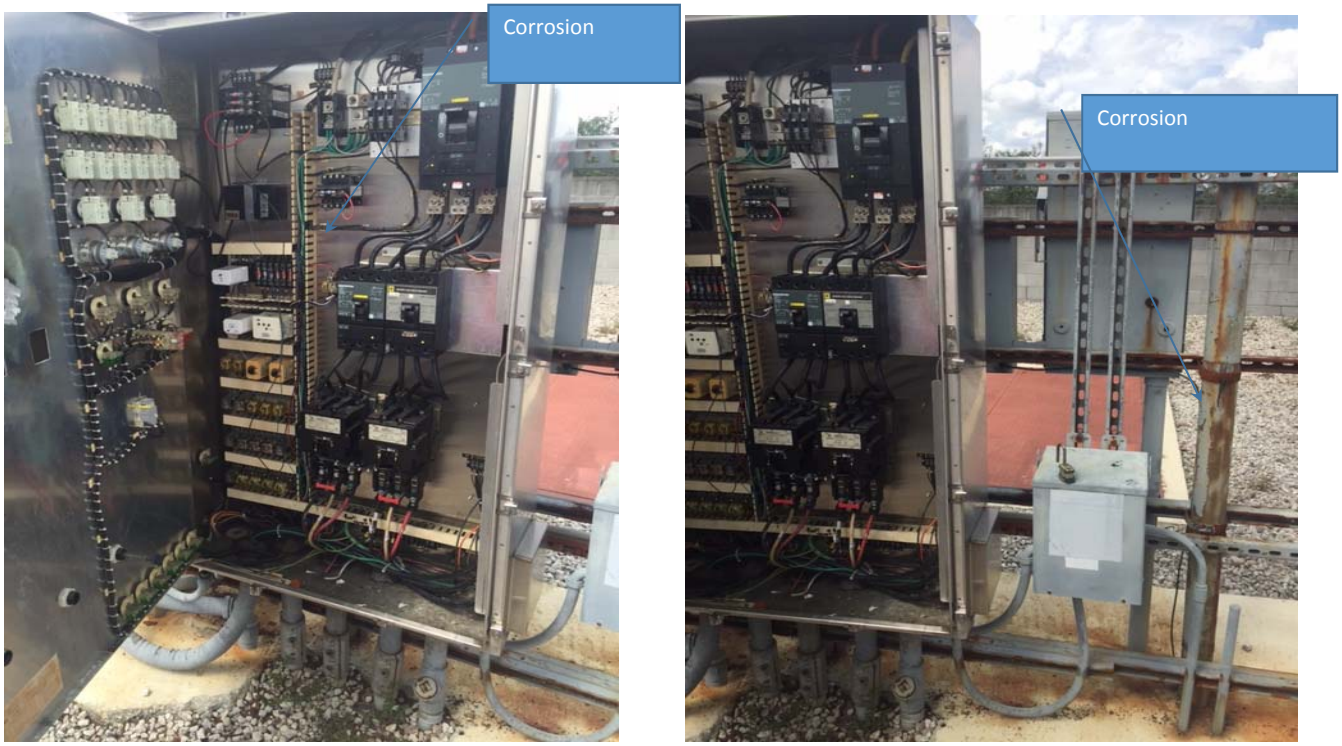
Lift Station:	LS060	**Description:**	Lift Station #60	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1998	**Width (ft):**	10'
Location:	NW side of Bubbalou's BBQ	**Inv Elevation:**	Unknown	**Depth (ft):**	12' 7"
Invert Size:		**Invert Depth:**		**Invert Location:**	
Discharge FM size:	6"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy/ 2000	**Install Date:**	01/01/2000	**Condition:**	Fair
Valve	Clow	**Install Date:**	01/01/1998	**Condition:**	Good
Comments:					
Equipment:	LS060sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1998
Assembly	LS051	**Model Number:**	M# 3201.180	**Serial Number:**	0240039
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	LS060sp-2	**Equip Type**	Submersible Pump	**Install Date:**	1/1/1998
Assembly	LS051	**Model Number:**	M# 3201.180	**Serial Number:**	0240040
Manufacturer	FLTGT	**HP:**	47	**Impeller**	452
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Ellis K Phelps
Panel Serial Number:	05-02-39	**Install Date:**	9/9/2002	**Panel Condition:**	Poor, needs replace in 1 to 2 yrs due to Gases corroded components
Disconnect Make:	SQD	**Disconnect Part 1:**	#1-HU-364RB	**Disconnect Part 2:**	#2-KA225RB/breakerKAL36200
Equipment:	LS060gen-1	**Equip Type**	Generator	**Manufacturer:**	Onan
Model Number:	100 DGDB-5566932	**Serial Number:**	HD20404675	**Install Date:**	
Comments:	100 KW				
Equipment:	LS060gen-2	**Equip Type**	Generator	**Manufacturer:**	Cummins
Model Number:	6BT5.9G6	**Serial Number:**	46244987	**Install Date:**	
Comments:	100 KW				

Updated Picture

Updated Date 9/29/2015

Lift Station:	LS067	**Description:**	Lift Station #67	**Department:**	WasteWater Collections
Equip Type:	Lift Station	**Install Date:**	1/1/1998	**Width (ft):**	12'
Location:	Dewar Nurseries/greenhouses	**Inv Elevation:**	81.10 IN 73.00 BOT	**Depth (ft):**	14' 6"
Invert Size:	(A)20"	**Invert Depth:**	(A)7.52'	**Invert Location:**	(A)NW
Discharge FM size:	8"	**FM Type**	HDPE	**FM Condition:**	Good
Check Valve	Clow Kennedy/ 2001	**Install Date:**	01/01/2001	**Condition:**	Good
Valve	Clow	**Install Date:**	01/01/2002	**Condition:**	Good
Comments:					
Equipment:	LS067sp-1	**Equip Type**	Submersible Pump	**Install Date:**	1/1/2002
Assembly	LS067	**Model Number:**	M# 150DLFU6454	**Serial Number:**	29605-1-1
Manufacturer	Ebara	**HP:**	60	**Impeller**	443
Comments:					
Equipment:	LS067sp-2	**Equip Type**	Submersible Pump	**Install Date:**	1/1/2002
Assembly	LS067	**Model Number:**	M# 150DLFU6454	**Serial Number:**	29605-1-2
Manufacturer	Ebara	**HP:**	60	**Impeller**	443
Comments:					
Equipment:	Electrical Panel	**Equip Type**	Electrical Panel	**Manufacturer:**	Stacon
Panel Serial Number:	06-98-26	**Install Date:**	6/2/2003	**Panel Condition:**	Poor,3-5 yrs of life left
Disconnect Make:	Siemens	**Disconnect Part 1:**	#1-HF364R/fuses,FLSR200 ID	**Disconnect Part 2:**	#2-HF364R
Equipment:	LS067gen-1	**Equip Type**	Generator	**Manufacturer:**	Onan
Model Number:		**Serial Number:**	150 DGFA-5600683	**Install Date:**	1/1/2002
Comments:	150 KW				
Equipment:	LS067gen-2	**Equip Type**	Generator	**Manufacturer:**	Cummins
Model Number:		**Serial Number:**	6CTA8.3-G2	**Install Date:**	1/1/2002
Comments:	150 KW				

Updated Picture



APPENDIX D

2015 ASSET PRIORITIZATION WORKSHEET

(Volume II Appendices on CD in pocket on inside back cover)

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Asset Description	Remaining Useful Life	Importance (1 = Mandatory, 5 = Needed for service with redundancy)	Redundancy	Priority (1 is high)
Number	**Identifier**					
1	BFpb-6	Belt Press Polymer Blend Pump Unit	0	1	No	1
2	BLef-1	Blower Room Exhaust Fan #1, Southeast	0	1	No	1
3	BLef-2	Blower Room Exhaust Fan #2, Southwest	0	1	No	1
4	BLef-3	Blower Room Exhaust Fan #3, Northwest	0	1	No	1
5	BLef-4	Blower Room Exhaust Fan #4, Northeast	0	1	No	1
6	BLGENspf-1	Generator Room Supply Fan	0	1	No	1
7	COef-1	Exhaust Fan #1	2	1	No	1
15	PBU	Polymer Blending Unit	2	1	No	1
16	REdisth-18-arv-1	Reuse 18" Dist. Header ARV #1	2	1	No	1
17	REdisth-18-arv-2	Reuse 18" Dist. Header ARV #2	2	1	No	1
8	COefcp-1	Exhaust Fan #1 Control Panel	2	1	No	1
11	JDPSdarv-5	Discharge Air Release Valve	1	1	No	1
12	JDPSlptvss-1	Panel LP-1 TVSS	1	1	No	1
13	JDPSparv-2	Pump #2 Air Release Valve	1	1	No	1

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Asset Description	Remaining Useful Life	Importance (1 = Mandatory, 5 = Needed for service with redundancy)	Redundancy	Priority (1 is high)
14	JDPSparv-3	Pump #3 Air Release Valve	1	1	No	1
18	REpuarv-1-1	Reuse Pump #1 ARV #1	2	1	No	1
19	REpuarv-1-2	Reuse Pump #1 ARV #2	2	1	No	1
20	REpuarv-2-1	Reuse Pump #2 ARV #1	2	1	No	1
21	REpuarv-2-2	Reuse Pump #2 ARV #2	2	1	No	1
22	REpuarv-3-1	Reuse Pump #3 ARV #1	2	1	No	1
23	REpuarv-3-2	Reuse Pump #3 ARV #2	2	1	No	1
24	REpuarv-4-1	Reuse Pump #4 ARV #1	2	1	No	1
25	REpuarv-4-2	Reuse Pump #4 ARV #2	2	1	No	1
27	SFpm-6	Sprayfield Pump Rm. Sump Pump	2	1	No	1
29	SPef-1	Sample Pump, East Filter #1	2	1	No	1
28	SFpr-1	Sprayfield Pump Room	0	3	No	2
9	ECCwsp-1	East Contact Chamber Sample Pump, West	0	1	Yes	2
30	TRplos-1	Transfer Pump #1 Lockout Switc	0	1	Yes	2
31	TRplos-2	Transfer Pump #2 Lockout Switc	0	1	Yes	2
32	TRplos-3	Transfer Pump #3 Lockout Switc	0	1	Yes	2
26	RErp-2	Reuse Recycle Pump #2	1	1	Yes	2
10	EFsp-1	East Filter Sample Pump	2	1	Yes	2
33	TRpm-9	Transfer Pump Motor #3	2	1	Yes	2

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
Lift Station Physical Strucuture:				
LS009*	3	Critical to service	Duplex Lift Station	1
LS016*	0	Critical to service	Duplex Lift Station	1
LS038*	0	Critical to service	Duplex Lift Station	1
LS025	0	Critical to service	Duplex Lift Station	1
LS029	0	Critical to service	Duplex Lift Station	1
LS011	0	Critical to service	Duplex Lift Station	1
LS013	0	Critical to service	Duplex Lift Station	1
LS028	0	Critical to service	Duplex Lift Station	1
LS031	0	Critical to service	Duplex Lift Station	1
LS032	0	Critical to service	Duplex Lift Station	1
LS027	0	Critical to service	Duplex Lift Station	1
LS023	0	Critical to service	Duplex Lift Station	1
LS002	0	Critical to service	Duplex Lift Station	1
LS039	0	Critical to service	Duplex Lift Station	1
LS022	0	Critical to service	Duplex Lift Station	1
LS001	1	Critical to service	Duplex Lift Station	1
LS020	1	Critical to service	Duplex Lift Station	1
LS003	2	Critical to service	Duplex Lift Station	1
LS005	2	Critical to service	Duplex Lift Station	1
LS030	2	Critical to service	Duplex Lift Station	1
LS037	2	Critical to service	Duplex Lift Station	1
LS018	0	Critical to service	Duplex Lift Station	1
LS017	0	Critical to service	Quadplex Lift Station	1
LS040	0	Critical to service	Duplex Lift Station	1
LS036	0	Critical to service	Duplex Lift Station	1
LS019	0	Critical to service	Duplex Lift Station	1
LS024	0	Critical to service	Duplex Lift Station	1
LS035	0	Critical to service	Duplex Lift Station	1
LS007	1	Critical to service	Duplex Lift Station	1
LS006	2	Critical to service	Duplex Lift Station	1
LS008	2	Critical to service	Duplex Lift Station	1
LS009	3	Critical to service	Duplex Lift Station	3
LS009A	5	Critical to service	Duplex Lift Station	3
LS021	3	Critical to service	Duplex Lift Station	3
LS004	3	Critical to service	Duplex Lift Station	3
LS010	3	Critical to service	Duplex Lift Station	3
LS034	5	Critical to service	Duplex Lift Station	3
LS021A	6	Critical to service	Duplex Lift Station	4
LS005A	7	Critical to service	Duplex Lift Station	4
LS041	7	Critical to service	Duplex Lift Station	4
LS044	7	Critical to service	Duplex Lift Station	4
LS042	8	Critical to service	Duplex Lift Station	4
LS043	8	Critical to service	Duplex Lift Station	4
LS015	9	Critical to service	Duplex Lift Station	4
LS045	10	Critical to service	Duplex Lift Station	4
LS047	11	Critical to service	Duplex Lift Station	4
LS048	12	Critical to service	Duplex Lift Station	4
LS049	12	Critical to service	Duplex Lift Station	4
LS050	13	Critical to service	Duplex Lift Station	4
LS051	13	Critical to service	Duplex Lift Station	4
LS012	14	Critical to service	Duplex Lift Station	4
LS053	14	Critical to service	Duplex Lift Station	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS054	14	Critical to service	Duplex Lift Station	4
LS055	14	Critical to service	Duplex Lift Station	4
LS083	14	Critical to service	Duplex Lift Station	4
LS084	14	Critical to service	Duplex Lift Station	4
LS094	14	Critical to service	Duplex Lift Station	4
LS046	15	Critical to service	Duplex Lift Station	4
LS056	15	Critical to service	Duplex Lift Station	4
LS057	15	Critical to service	Duplex Lift Station	4
LS014	16	Critical to service	Duplex Lift Station	4
LS052	16	Critical to service	Duplex Lift Station	4
LS059	16	Critical to service	Duplex Lift Station	4
LS065	16	Critical to service	Duplex Lift Station	4
LS058	17	Critical to service	Duplex Lift Station	4
LS061	17	Critical to service	Duplex Lift Station	4
LS062	17	Critical to service	Duplex Lift Station	4
LS063	17	Critical to service	Duplex Lift Station	4
LS064	17	Critical to service	Duplex Lift Station	4
LS067	17	Critical to service	Duplex Lift Station	4
LS070	17	Critical to service	Duplex Lift Station	4
LS072	17	Critical to service	Duplex Lift Station	4
LS077	17	Critical to service	Triplex Lift Station	4
LS066	18	Critical to service	Duplex Lift Station	4
LS068	18	Critical to service	Duplex Lift Station	4
LS073	18	Critical to service	Duplex Lift Station	4
LS074	18	Critical to service	Duplex Lift Station	4
LS075	18	Critical to service	Duplex Lift Station	4
LS079	18	Critical to service	Duplex Lift Station	4
LS085	18	Critical to service	Duplex Lift Station	4
LS069	19	Critical to service	Duplex Lift Station	4
LS076	19	Critical to service	Duplex Lift Station	4
LS078	20	Critical to service	Duplex Lift Station	4
LS086	20	Critical to service	Duplex Lift Station	4
LS101	20	Critical to service	Duplex Lift Station	4
LS071	21	Critical to service	Duplex Lift Station	4
LS080	21	Critical to service	Duplex Lift Station	4
LS081	21	Critical to service	Duplex Lift Station	4
LS087	21	Critical to service	Duplex Lift Station	4
LS088	21	Critical to service	Duplex Lift Station	4
LS089	21	Critical to service	Duplex Lift Station	4
LS092	21	Critical to service	Duplex Lift Station	4
LS093	21	Critical to service	Duplex Lift Station	4
LS095	21	Critical to service	Duplex Lift Station	4
LS096	21	Critical to service	Duplex Lift Station	4
LS099	21	Critical to service	Duplex Lift Station	4
LS107	21	Critical to service	Duplex Lift Station	4
LS090	22	Critical to service	Duplex Lift Station	4
LS091	22	Critical to service	Duplex Lift Station	4
LS098	22	Critical to service	Duplex Lift Station	4
LS102	22	Critical to service	Duplex Lift Station	4
LS103	23	Critical to service	Duplex Lift Station	4
LS104	23	Critical to service	Duplex Lift Station	4
LS097	24	Critical to service	Duplex Lift Station	4
LS105	24	Critical to service	Duplex Lift Station	4
LS106	25	Critical to service	Duplex Lift Station	4
LS108	25	Critical to service	Duplex Lift Station	4
LS109	25	Critical to service	Duplex Lift Station	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS110	27	Critical to service	Duplex Lift Station	4
LS111	27	Critical to service	Duplex Lift Station	4
LS100	28	Critical to service	Duplex Lift Station	4
LS112	28	Critical to service	Duplex Lift Station	4
LS113	28	Critical to service	Duplex Lift Station	4
LS114	29	Critical to service	Duplex Lift Station	4
LS115	30	Critical to service	Duplex Lift Station	4
LS116	30	Critical to service	Duplex Lift Station	4
LS060	N/A	Critical to service	Duplex Lift Station	4
LS082	N/A	Critical to service	Duplex Lift Station	4

* Staff recommendation for priority treatment

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Lift Station Forcemains:						
LS015*	Ductile	4"	29	Critical to service	Duplex	4
LS028*	Ductile	6"	14	Critical to service	Duplex	4
LS037*	Ductile	4"	22	Critical to service	Duplex	4
LS017	Ductile	12", 14", 16",18"	6	Critical to service	Quadplex	4
LS068	PVC	4"	8	Critical to service	Duplex	4
LS038	Ductile	4"	12	Critical to service	Duplex	4
LS040	Ductile	6"	15	Critical to service	Duplex	4
LS039	Ductile	6"	18	Critical to service	Duplex	4
LS019	Ductile	6"	19	Critical to service	Duplex	4
LS022	Ductile	4"	19	Critical to service	Duplex	4
LS024	Ductile	4"	19	Critical to service	Duplex	4
LS035	Ductile	6"	19	Critical to service	Duplex	4
LS001	Ductile	4"	21	Critical to service	Duplex	4
LS007	Ductile	6"	21	Critical to service	Duplex	4
LS003	Ductile	4"	22	Critical to service	Duplex	4
LS021	Ductile	6"	23	Critical to service	Duplex	4
LS027	Ductile	4"	27	Critical to service	Duplex	4
LS042	Ductile	4"	28	Critical to service	Duplex	4
LS043	Ductile	6"	28	Critical to service	Duplex	4
LS045	Ductile	4"	30	Critical to service	Duplex	4
LS047	Ductile	4"	31	Critical to service	Duplex	4
LS048	Ductile	4"	32	Critical to service	Duplex	4
LS049	Ductile	10"	32	Critical to service	Duplex	4
LS053	Ductile	6"	34	Critical to service	Duplex	4
LS055	Ductile	4"	34	Critical to service	Duplex	4
LS046	Ductile	4"	35	Critical to service	Duplex	4
LS056	Ductile	4"	35	Critical to service	Duplex	4
LS016	HDPE	4"	36	Critical to service	Duplex	4
LS052	Ductile	4"	36	Critical to service	Duplex	4
LS059	Ductile	4"	36	Critical to service	Duplex	4
LS058	Ductile	4"	37	Critical to service	Duplex	4
LS061	Ductile	4"	37	Critical to service	Duplex	4
LS062	Ductile	4"	37	Critical to service	Duplex	4
LS064	Ductile	4"	37	Critical to service	Duplex	4
LS070	Ductile	4"	37	Critical to service	Duplex	4
LS018	HDPE	6"	39	Critical to service	Duplex	4
LS071	Ductile	4"	41	Critical to service	Duplex	4
LS029	HDPE	8"	57	Critical to service	Duplex	4
LS032	HDPE	6"	57	Critical to service	Duplex	4
LS025	HDPE	6"	59	Critical to service	Duplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS030	HDPE	8"	59	Critical to service	Duplex	4
LS011	HDPE	4"	63	Critical to service	Duplex	4
LS036	HDPE	4"	66	Critical to service	Duplex	4
LS023	HDPE	4"	67	Critical to service	Duplex	4
LS002	HDPE	6"	68	Critical to service	Duplex	4
LS013	HDPE	4"	70	Critical to service	Duplex	4
LS020	HDPE	6"	71	Critical to service	Duplex	4
LS006	HDPE	4"	72	Critical to service	Duplex	4
LS008	HDPE	6"	72	Critical to service	Duplex	4
LS031	HDPE	6"	72	Critical to service	Duplex	4
LS004	HDPE	6"	73	Critical to service	Duplex	4
LS009	HDPE	6"	73	Critical to service	Duplex	4
LS010	HDPE	6"	73	Critical to service	Duplex	4
LS009A	HDPE	6"	75	Critical to service	Duplex	4
LS034	HDPE	4"	75	Critical to service	Duplex	4
LS021A	HDPE	6"	76	Critical to service	Duplex	4
LS005A	HDPE	6"	77	Critical to service	Duplex	4
LS026	HDPE	4"	77	Critical to service	Duplex	4
LS041	HDPE	6"	77	Critical to service	Duplex	4
LS044	HDPE	4"	77	Critical to service	Duplex	4
LS050	HDPE	6"	83	Critical to service	Duplex	4
LS051	HDPE	8"	83	Critical to service	Duplex	4
LS012	HDPE	4"	84	Critical to service	Duplex	4
LS054	HDPE	4"	84	Critical to service	Duplex	4
LS083	HDPE	8"	84	Critical to service	Duplex	4
LS084	HDPE	4"	84	Critical to service	Duplex	4
LS094	HDPE	4"	84	Critical to service	Duplex	4
LS057	HDPE	8"	85	Critical to service	Duplex	4
LS014	Certalock	6"	86	Critical to service	Duplex	4
LS065	HDPE	6"	86	Critical to service	Duplex	4
LS063	HDPE	4"	87	Critical to service	Duplex	4
LS067	HDPE	8"	87	Critical to service	Duplex	4
LS072	HDPE	4"	87	Critical to service	Duplex	4
LS077	Certalock	12" x 3	87	Critical to service	Triplex	4
LS066	HDPE	6"	88	Critical to service	Duplex	4
LS073	HDPE	12"	88	Critical to service	Duplex	4
LS074	HDPE	4"	88	Critical to service	Duplex	4
LS075	HDPE	4"	88	Critical to service	Duplex	4
LS079	HDPE	6"	88	Critical to service	Duplex	4
LS085	HDPE	6"	88	Critical to service	Duplex	4
LS069	HDPE	4"	89	Critical to service	Duplex	4
LS076	HDPE	6"	89	Critical to service	Duplex	4
LS078	HDPE	4"	90	Critical to service	Duplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS086	HDPE	4"	90	Critical to service	Duplex	4
LS101	HDPE	4"	90	Critical to service	Duplex	4
LS080	HDPE	8"	91	Critical to service	Duplex	4
LS081	HDPE	6"	91	Critical to service	Duplex	4
LS087	HDPE	4"	91	Critical to service	Duplex	4
LS088	HDPE	4"	91	Critical to service	Duplex	4
LS089	HDPE	4"	91	Critical to service	Duplex	4
LS092	HDPE	6"	91	Critical to service	Duplex	4
LS093	HDPE	6"	91	Critical to service	Duplex	4
LS095	HDPE	6"	91	Critical to service	Duplex	4
LS096	HDPE	6"	91	Critical to service	Duplex	4
LS099	HDPE	4"	91	Critical to service	Duplex	4
LS107	HDPE	4"	91	Critical to service	Duplex	4
LS090	HDPE	4"	92	Critical to service	Duplex	4
LS091	HDPE	4"	92	Critical to service	Duplex	4
LS098	HDPE	4"	92	Critical to service	Duplex	4
LS102	HDPE	2"	92	Critical to service	Duplex	4
LS103	HDPE	8"	93	Critical to service	Duplex	4
LS104	HDPE	4"	93	Critical to service	Duplex	4
LS097	HDPE	4"	94	Critical to service	Duplex	4
LS105	HDPE	4"	94	Critical to service	Duplex	4
LS106	HDPE	4"	95	Critical to service	Duplex	4
LS108	HDPE	4"	95	Critical to service	Duplex	4
LS109	HDPE	4"	95	Critical to service	Duplex	4
LS110	HDPE	4"	97	Critical to service	Duplex	4
LS111	HDPE	4"	97	Critical to service	Duplex	4
LS100	HDPE	4"	98	Critical to service	Duplex	4
LS112	HDPE	4"	98	Critical to service	Duplex	4
LS113	HDPE	4"	98	Critical to service	Duplex	4
LS114	HDPE	4"	99	Critical to service	Duplex	4
LS115	HDPE	4"	100	Critical to service	Duplex	4
LS116	HDPE	4"	100	Critical to service	Duplex	4
LS005	Unknown	6"	Unknown	Critical to service	Duplex	4
LS060	HDPE	6"	Unknown	Critical to service	Duplex	4
LS082	HDPE	8"	Unknown	Critical to service	Duplex	4

* Staff recommendation for priority treatment

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Lift Station Pumps:					
LS005Asp-1*	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS005Asp-2*	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS017p-1*	Pump Motor, 50 hp.	0	Critical to service	Quadplex	2
LS030sp-1*	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS030sp-2*	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS002sp-1	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS002sp-2	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS003sp-1	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS003sp-2	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS004sp-1	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS004sp-2	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS005sp-1	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS006sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS006sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS007sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS007sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS008sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS008sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS009sp-1	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS009sp-2	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS009Asp-1	Submersible Pump, 3 hp.	0	Critical to service	Duplex	2
LS009Asp-2	Submersible Pump, 3 hp.	0	Critical to service	Duplex	2
LS010sp-1	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS010sp-2	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS011sp-1	Submersible Pump, 3 hp.	0	Critical to service	Duplex	2
LS011sp-2	Submersible Pump, 3 hp.	0	Critical to service	Duplex	2
LS013sp-1	Submersible Pump, 2.3 hp.	0	Critical to service	Duplex	2
LS013sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS015sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS016sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS016sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS018sp-1	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS018sp-2	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS019sp-1	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS019sp-2	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS020sp-1	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS020sp-2	Submersible Pump, 47 hp.	0	Critical to service	Duplex	2
LS021sp-1	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS021sp-2	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS022sp-2	Submersible Pump, 7.5 hp	0	Critical to service	Duplex	2
LS023sp-1	Submersible Pump, 9.4 hp.	0	Critical to service	Duplex	2
LS023sp-2	Submersible Pump, 9.4 hp.	0	Critical to service	Duplex	2
LS024sp-1	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS024sp-2	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS025sp-1	Submersible Pump, 15 hp.	0	Critical to service	Duplex	2
LS025sp-2	Submersible Pump, 15 hp.	0	Critical to service	Duplex	2
LS027sp-1	Submersible Pump, 2.3 hp.	0	Critical to service	Duplex	2
LS027sp-2	Submersible Pump, 2.3 hp.	0	Critical to service	Duplex	2
LS028sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS028sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS029sp-1	Submersible Pump, 88 hp.	0	Critical to service	Duplex	2
LS029sp-2	Submersible Pump, 88 hp.	0	Critical to service	Duplex	2
LS032sp-1	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS032sp-2	Submersible Pump, 10 hp.	0	Critical to service	Duplex	2
LS034sp-1	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS034sp-2	Submersible Pump, 5 hp.	0	Critical to service	Duplex	2
LS035sp-1	Submersible Pump, 9.4 hp.	0	Critical to service	Duplex	2
LS035sp-2	Submersible Pump, 9.4 hp.	0	Critical to service	Duplex	2
LS037sp-1	Submersible Pump, 3.2 hp.	0	Critical to service	Duplex	2
LS037sp-2	Submersible Pump, 3.2 hp.	0	Critical to service	Duplex	2
LS038sp-1	Submersible Pump, 7.5 hp	0	Critical to service	Duplex	2
LS038sp-2	Submersible Pump, 7.5 hp	0	Critical to service	Duplex	2
LS039sp-1	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS039sp-2	Submersible Pump, 20 hp.	0	Critical to service	Duplex	2
LS040sp-1	Submersible Pump, 25 hp.	0	Critical to service	Duplex	2
LS040sp-2	Submersible Pump, 25 hp.	0	Critical to service	Duplex	2
LS021Asp-1	Submersible Pump, 10 hp.	1	Critical to service	Duplex	2
LS021Asp-2	Submersible Pump, 10 hp.	1	Critical to service	Duplex	2
LS005sp-2	Submersible Pump, 20 hp.	2	Critical to service	Duplex	2
LS026sp-1	Submersible Pump, 5 hp.	2	Critical to service	Duplex	2
LS026sp-2	Submersible Pump, 5 hp.	2	Critical to service	Duplex	2
LS041sp-1	Submersible Pump, 14.8 hp.	2	Critical to service	Duplex	2
LS041sp-2	Submersible Pump, 14.1 hp	2	Critical to service	Duplex	2
LS044sp-1	Submersible Pump, 15 hp.	2	Critical to service	Duplex	2
LS044sp-2	Submersible Pump, 15 hp.	2	Critical to service	Duplex	2
LS048sp-1	Submersible Pump, 5 hp.	2	Critical to service	Duplex	2
LS042sp-1	Submersible Pump, 5 hp.	3	Critical to service	Duplex	3
LS042sp-2	Submersible Pump, 5 hp.	3	Critical to service	Duplex	3
LS043sp-1	Submersible Pump, 10 hp.	3	Critical to service	Duplex	3
LS043sp-2	Submersible Pump, 10 hp.	3	Critical to service	Duplex	3
LS051sp-1	Submersible Pump, 30 hp.	3	Critical to service	Duplex	3
LS012sp-2	Submersible Pump, 25 hp.	4	Critical to service	Duplex	3
LS015sp-1	Submersible Pump, 5 hp.	4	Critical to service	Duplex	3
LS053sp-1	Submersible Pump, 20 hp.	4	Critical to service	Duplex	3
LS053sp-2	Submersible Pump, 20 hp.	4	Critical to service	Duplex	3
LS055sp-1	Submersible Pump, 5 hp.	4	Critical to service	Duplex	3
LS055sp-2	Submersible Pump, 5 hp.	4	Critical to service	Duplex	3
LS083sp-2	Submersible Pump, 47 hp.	4	Critical to service	Duplex	3
LS084sp-1	Submersible Pump, 15 hp.	4	Critical to service	Duplex	3

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS084sp-2	Submersible Pump, 15 hp.	4	Critical to service	Duplex	3
LS094sp-2	Submersible Pump, 15 hp.	4	Critical to service	Duplex	3
LS045sp-1	Submersible Pump, 10 hp.	5	Critical to service	Duplex	3
LS045sp-2	Submersible Pump, 10 hp.	5	Critical to service	Duplex	3
LS056sp-1	Submersible Pump, 10 hp.	5	Critical to service	Duplex	3
LS057sp-2	Submersible Pump, 88 hp.	5	Critical to service	Duplex	3
LS047sp-1	Submersible Pump, 3.2 hp.	6	Critical to service	Duplex	4
LS047sp-2	Submersible Pump, 3.2 hp.	6	Critical to service	Duplex	4
LS059sp-1	Submersible Pump, 5 hp.	6	Critical to service	Duplex	4
LS059sp-2	Submersible Pump, 5 hp.	6	Critical to service	Duplex	4
LS065sp-1	Submersible Pump, 47 hp.	6	Critical to service	Duplex	4
LS048sp-2	Submersible Pump, 10 hp.	7	Critical to service	Duplex	4
LS049sp-1	Submersible Pump, 30 hp.	7	Critical to service	Duplex	4
LS049sp-2	Submersible Pump, 30 hp.	7	Critical to service	Duplex	4
LS061sp-1	Submersible Pump, 15 hp.	7	Critical to service	Duplex	4
LS061sp-2	Submersible Pump, 15 hp.	7	Critical to service	Duplex	4
LS064sp-1	Submersible Pump, 5 hp.	7	Critical to service	Duplex	4
LS064sp-2	Submersible Pump, 5 hp.	7	Critical to service	Duplex	4
LS072sp-1	Submersible Pump, 20 hp.	7	Critical to service	Duplex	4
LS072sp-2	Submersible Pump, 20 hp.	7	Critical to service	Duplex	4
LS050sp-1	Submersible Pump, 15 hp.	8	Critical to service	Duplex	4
LS050sp-2	Submersible Pump, 15 hp.	8	Critical to service	Duplex	4
LS051sp-2	Submersible Pump, 30 hp.	8	Critical to service	Duplex	4
LS068sp-2	Submersible Pump, 5 hp.	8	Critical to service	Duplex	4
LS074sp-1	Submersible Pump, 7.5 hp	8	Critical to service	Duplex	4
LS075sp-2	Submersible Pump, 5 hp.	8	Critical to service	Duplex	4
LS079sp-1	Submersible Pump, 10 hp.	8	Critical to service	Duplex	4
LS079sp-2	Submersible Pump, 10 hp.	8	Critical to service	Duplex	4
LS085sp-1	Submersible Pump, 47 hp.	8	Critical to service	Duplex	4
LS085sp-2	Submersible Pump, 47 hp.	8	Critical to service	Duplex	4
LS012sp-1	Submersible Pump, 25 hp.	9	Critical to service	Duplex	4
LS069sp-1	Submersible Pump, 15 hp.	9	Critical to service	Duplex	4
LS076sp-1	Submersible Pump, 20 hp.	9	Critical to service	Duplex	4
LS083sp-1	Submersible Pump, 47 hp.	9	Critical to service	Duplex	4
LS094sp-1	Submersible Pump, 15 hp.	9	Critical to service	Duplex	4
LS046sp-1	Submersible Pump, 5 hp.	10	Critical to service	Duplex	4
LS046sp-2	Submersible Pump, 5 hp.	10	Critical to service	Duplex	4
LS056sp-2	Submersible Pump, 10 hp.	10	Critical to service	Duplex	4
LS057sp-1	Submersible Pump, 88 hp.	10	Critical to service	Duplex	4
LS078sp-1	Submersible Pump, 10 hp.	10	Critical to service	Duplex	4
LS078sp-2	Submersible Pump, 10 hp.	10	Critical to service	Duplex	4
LS086sp-1	Submersible Pump, 20 hp.	10	Critical to service	Duplex	4
LS101sp-1	Submersible Pump, 18.5 hp.	10	Critical to service	Duplex	4
LS101sp-2	Submersible Pump, 18.5 hp.	10	Critical to service	Duplex	4
LS014sp-1	Submersible Pump, 15 hp.	11	Critical to service	Duplex	4
LS014sp-2	Submersible Pump, 15 hp.	11	Critical to service	Duplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS065sp-2	Submersible Pump, 47 hp.	11	Critical to service	Duplex	4
LS070sp-1	Submersible Pump, 15 hp.	11	Critical to service	Duplex	4
LS070sp-2	Submersible Pump, 15 hp.	11	Critical to service	Duplex	4
LS071sp-2	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS087sp-1	Submersible Pump, 10 hp.	11	Critical to service	Duplex	4
LS087sp-2	Submersible Pump, 10 hp.	11	Critical to service	Duplex	4
LS088sp-1	Submersible Pump, 5 hp.	11	Critical to service	Duplex	4
LS088sp-2	Submersible Pump, 5 hp.	11	Critical to service	Duplex	4
LS089sp-1	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS089sp-2	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS092sp-1	Submersible Pump, 30 hp.	11	Critical to service	Duplex	4
LS092sp-2	Submersible Pump, 30 hp.	11	Critical to service	Duplex	4
LS093sp-2	Submersible Pump, 47 hp.	11	Critical to service	Duplex	4
LS095sp-1	Submersible Pump, 58 hp.	11	Critical to service	Duplex	4
LS096sp-2	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS099sp-1	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS099sp-2	Submersible Pump, 20 hp.	11	Critical to service	Duplex	4
LS107sp-1	Submersible Pump, 10 hp.	11	Critical to service	Duplex	4
LS107sp-2	Submersible Pump, 10 hp.	11	Critical to service	Duplex	4
LS058sp-1	Submersible Pump, 5 hp.	12	Critical to service	Duplex	4
LS058sp-2	Submersible Pump, 5 hp.	12	Critical to service	Duplex	4
LS062sp-1	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS062sp-2	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS063sp-1	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS063sp-2	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS067sp-1	Submersible Pump, 60 hp.	12	Critical to service	Duplex	4
LS067sp-2	Submersible Pump, 60 hp.	12	Critical to service	Duplex	4
LS077sp-1	Submersible Pump, 90 hp.	12	Critical to service	Triplex	4
LS077sp-2	Submersible Pump, 85 hp.	12	Critical to service	Triplex	4
LS077sp-3	Submersible Pump, 90 hp.	12	Critical to service	Triplex	4
LS090sp-1	Submersible Pump, 47 hp.	12	Critical to service	Duplex	4
LS090sp-2	Submersible Pump, 47 hp.	12	Critical to service	Duplex	4
LS091sp-1	Submersible Pump, 5 hp.	12	Critical to service	Duplex	4
LS091sp-2	Submersible Pump, 5 hp.	12	Critical to service	Duplex	4
LS098sp-1	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS098sp-2	Submersible Pump, 15 hp.	12	Critical to service	Duplex	4
LS102sp-1	Submersible Pump, 4.18 hp.	12	Critical to service	Duplex	4
LS102sp-2	Submersible Pump, 4.18 hp.	12	Critical to service	Duplex	4
LS031sp-2	Submersible Pump, 10 hp.	13	Critical to service	Duplex	4
LS066sp-1	Submersible Pump, 30 hp.	13	Critical to service	Duplex	4
LS066sp-2	Submersible Pump, 30 hp.	13	Critical to service	Duplex	4
LS068sp-1	Submersible Pump, 5 hp.	13	Critical to service	Duplex	4
LS073sp-1	Submersible Pump, 88 hp.	13	Critical to service	Duplex	4
LS073sp-2	Submersible Pump, 88 hp.	13	Critical to service	Duplex	4
LS074sp-2	Submersible Pump, 7.5 hp	13	Critical to service	Duplex	4
LS075sp-1	Submersible Pump, 5 hp.	13	Critical to service	Duplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS103sp-1	Submersible Pump, 47 hp.	13	Critical to service	Duplex	4
LS103sp-2	Submersible Pump, 47 hp.	13	Critical to service	Duplex	4
LS104sp-1	Submersible Pump, 20 hp.	13	Critical to service	Duplex	4
LS104sp-2	Submersible Pump, 20 hp.	13	Critical to service	Duplex	4
LS054sp-1	Submersible Pump, 20 hp.	14	Critical to service	Duplex	4
LS069sp-2	Submersible Pump, 15 hp.	14	Critical to service	Duplex	4
LS076sp-2	Submersible Pump, 20 hp.	14	Critical to service	Duplex	4
LS097sp-1	Submersible Pump, 7.5 hp	14	Critical to service	Duplex	4
LS097sp-2	Submersible Pump, 7.5 hp	14	Critical to service	Duplex	4
LS105sp-1	Submersible Pump, 15 hp.	14	Critical to service	Duplex	4
LS105sp-2	Submersible Pump, 15 hp.	14	Critical to service	Duplex	4
LS001sp-2	Submersible Pump, 10 hp.	15	Critical to service	Duplex	4
LS086sp-2	Submersible Pump, 20 hp.	15	Critical to service	Duplex	4
LS106sp-1	Submersible Pump, 17 hp.	15	Critical to service	Duplex	4
LS106sp-2	Submersible Pump, 17 hp.	15	Critical to service	Duplex	4
LS108sp-1	Submersible Pump, 29 hp.	15	Critical to service	Duplex	4
LS108sp-2	Submersible Pump, 29 hp.	15	Critical to service	Duplex	4
LS109sp-1	Submersible Pump, 20 hp.	15	Critical to service	Duplex	4
LS109sp-2	Submersible Pump, 20 hp.	15	Critical to service	Duplex	4
LS071sp-1	Submersible Pump, 20 hp.	16	Critical to service	Duplex	4
LS080sp-1	Submersible Pump, 69 hp.	16	Critical to service	Duplex	4
LS080sp-2	Submersible Pump, 69 hp.	16	Critical to service	Duplex	4
LS081sp-1	Submersible Pump, 47 hp.	16	Critical to service	Duplex	4
LS081sp-2	Submersible Pump, 47 hp.	16	Critical to service	Duplex	4
LS093sp-1	Submersible Pump, 47 hp.	16	Critical to service	Duplex	4
LS095sp-2	Submersible Pump, 58 hp.	16	Critical to service	Duplex	4
LS096sp-1	Submersible Pump, 20 hp.	16	Critical to service	Duplex	4
LS110sp-1	Submersible Pump, 5 hp.	17	Critical to service	Duplex	4
LS110sp-2	Submersible Pump, 5 hp.	17	Critical to service	Duplex	4
LS111sp-1	Submersible Pump, 7.5 hp	17	Critical to service	Duplex	4
LS111sp-2	Submersible Pump, 7.5 hp	17	Critical to service	Duplex	4
LS031sp-1	Submersible Pump, 10 hp.	18	Critical to service	Duplex	4
LS100sp-1	Submersible Pump, 20 hp.	18	Critical to service	Duplex	4
LS100sp-2	Submersible Pump, 20 hp.	18	Critical to service	Duplex	4
LS112sp-1	Submersible Pump, 5 hp.	18	Critical to service	Duplex	4
LS112sp-2	Submersible Pump, 5 hp.	18	Critical to service	Duplex	4
LS113sp-1	Submersible Pump, 16.8 hp.	18	Critical to service	Duplex	4
LS113sp-2	Submersible Pump, 16.8 hp.	18	Critical to service	Duplex	4
LS017p-4	Pump Motor, 25 hp.	19	Critical to service	Quadplex	4
LS022sp-1	Submersible Pump, 7.5 hp	19	Critical to service	Duplex	4
LS054sp-2	Submersible Pump, 20 hp.	19	Critical to service	Duplex	4
LS114sp-1	Submersible Pump, 5 hp.	19	Critical to service	Duplex	4
LS114sp-2	Submersible Pump, 5 hp.	19	Critical to service	Duplex	4
LS001sp-1	Submersible Pump, 10 hp.	20	Critical to service	Duplex	4
LS017p-2	Pump Motor, 25 hp.	20	Critical to service	Quadplex	4
LS017p-3	Pump Motor, 25 hp.	20	Critical to service	Quadplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset		Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
LS036sp-1	Submersible Pump, 7.5 hp	20	Critical to service	Duplex	4
LS036sp-2	Submersible Pump, 7.5 hp	20	Critical to service	Duplex	4
LS052sp-1	Submersible Pump, 20 hp.	20	Critical to service	Duplex	4
LS052sp-2	Submersible Pump, 20 hp.	20	Critical to service	Duplex	4
LS115sp-1	Unknown	20	Critical to service	Duplex	4
LS115sp-2	Unknown	20	Critical to service	Duplex	4
LS116sp-1	Submersible Pump, 10 hp.	20	Critical to service	Duplex	4
LS116sp-2	Submersible Pump, 10 hp.	20	Critical to service	Duplex	4
LS060sp-1	Submersible Pump, 47 hp.	Unknown	Critical to service	Duplex	4
LS060sp-2	Submersible Pump, 47 hp.	Unknown	Critical to service	Duplex	4
LS082sp-1	Submersible Pump, 47 hp.	Unknown	Critical to service	Duplex	4
LS082sp-2	Submersible Pump, 47 hp.	Unknown	Critical to service	Duplex	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
Lift Station Check Valves:				
LS028	0	Critical to service	No Redundancy	1
LS038	0	Critical to service	No Redundancy	1
LS039	0	Critical to service	No Redundancy	1
LS001	0	Critical to service	No Redundancy	1
LS002	0	Critical to service	No Redundancy	1
LS003	0	Critical to service	No Redundancy	1
LS004	0	Critical to service	No Redundancy	1
LS005A	0	Critical to service	No Redundancy	1
LS009A	0	Critical to service	No Redundancy	1
LS013	0	Critical to service	No Redundancy	1
LS017#1	0	Critical to service	No Redundancy	1
LS017#2	0	Critical to service	No Redundancy	1
LS017#3	0	Critical to service	No Redundancy	1
LS017#4	0	Critical to service	No Redundancy	1
LS019	0	Critical to service	No Redundancy	1
LS023	0	Critical to service	No Redundancy	1
LS027	0	Critical to service	No Redundancy	1
LS032	0	Critical to service	No Redundancy	1
LS037	0	Critical to service	No Redundancy	1
LS041	0	Critical to service	No Redundancy	1
LS042	0	Critical to service	No Redundancy	1
LS043	0	Critical to service	No Redundancy	1
LS044	0	Critical to service	No Redundancy	1
LS005	0	Critical to service	No Redundancy	1
LS015	0	Critical to service	No Redundancy	1
LS047	0	Critical to service	No Redundancy	1
LS021	1	Critical to service	No Redundancy	1
LS009	1	Critical to service	No Redundancy	1
LS048	2	Critical to service	No Redundancy	1
LS049	2	Critical to service	No Redundancy	1
LS053	2	Critical to service	No Redundancy	1
LS057	3	Critical to service	No Redundancy	3
LS025	3	Critical to service	No Redundancy	3
LS040	3	Critical to service	No Redundancy	3
LS050	3	Critical to service	No Redundancy	3
LS083	4	Critical to service	No Redundancy	3
LS012	4	Critical to service	No Redundancy	3
LS055	4	Critical to service	No Redundancy	3
LS060	5	Critical to service	No Redundancy	3

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS056	5	Critical to service	No Redundancy	3
LS058	5	Critical to service	No Redundancy	3
LS059	5	Critical to service	No Redundancy	3
LS014	6	Critical to service	No Redundancy	4
LS016	6	Critical to service	No Redundancy	4
LS022	6	Critical to service	No Redundancy	4
LS026	6	Critical to service	No Redundancy	4
LS034	6	Critical to service	No Redundancy	4
LS046	6	Critical to service	No Redundancy	4
LS052	6	Critical to service	No Redundancy	4
LS054	6	Critical to service	No Redundancy	4
LS062	6	Critical to service	No Redundancy	4
LS064	6	Critical to service	No Redundancy	4
LS065	6	Critical to service	No Redundancy	4
LS066	6	Critical to service	No Redundancy	4
LS067	6	Critical to service	No Redundancy	4
LS081	6	Critical to service	No Redundancy	4
LS008	7	Critical to service	No Redundancy	4
LS036	7	Critical to service	No Redundancy	4
LS063	7	Critical to service	No Redundancy	4
LS070	7	Critical to service	No Redundancy	4
LS072	7	Critical to service	No Redundancy	4
LS020	8	Critical to service	No Redundancy	4
LS073	8	Critical to service	No Redundancy	4
LS077#1	8	Critical to service	No Redundancy	4
LS077#2	8	Critical to service	No Redundancy	4
LS077#3	8	Critical to service	No Redundancy	4
LS011	8	Critical to service	No Redundancy	4
LS061	8	Critical to service	No Redundancy	4
LS068	8	Critical to service	No Redundancy	4
LS074	8	Critical to service	No Redundancy	4
LS075	8	Critical to service	No Redundancy	4
LS076	8	Critical to service	No Redundancy	4
LS078	8	Critical to service	No Redundancy	4
LS085	8	Critical to service	No Redundancy	4
LS006	9	Critical to service	No Redundancy	4
LS024	9	Critical to service	No Redundancy	4
LS035	9	Critical to service	No Redundancy	4
LS069	9	Critical to service	No Redundancy	4
LS079	9	Critical to service	No Redundancy	4
LS084	9	Critical to service	No Redundancy	4
LS086	9	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS087	9	Critical to service	No Redundancy	4
LS089	9	Critical to service	No Redundancy	4
LS098	9	Critical to service	No Redundancy	4
LS109	9	Critical to service	No Redundancy	4
LS082	10	Critical to service	No Redundancy	4
LS088	10	Critical to service	No Redundancy	4
LS091	10	Critical to service	No Redundancy	4
LS101	10	Critical to service	No Redundancy	4
LS102	10	Critical to service	No Redundancy	4
LS007	11	Critical to service	No Redundancy	4
LS045	11	Critical to service	No Redundancy	4
LS071	11	Critical to service	No Redundancy	4
LS080	11	Critical to service	No Redundancy	4
LS090	11	Critical to service	No Redundancy	4
LS092	11	Critical to service	No Redundancy	4
LS093	11	Critical to service	No Redundancy	4
LS094	11	Critical to service	No Redundancy	4
LS095	11	Critical to service	No Redundancy	4
LS096	11	Critical to service	No Redundancy	4
LS099	11	Critical to service	No Redundancy	4
LS103	11	Critical to service	No Redundancy	4
LS104	11	Critical to service	No Redundancy	4
LS107	11	Critical to service	No Redundancy	4
LS110	11	Critical to service	No Redundancy	4
LS112	11	Critical to service	No Redundancy	4
LS108	12	Critical to service	No Redundancy	4
LS113	12	Critical to service	No Redundancy	4
LS018	13	Critical to service	No Redundancy	4
LS010	13	Critical to service	No Redundancy	4
LS097	13	Critical to service	No Redundancy	4
LS105	13	Critical to service	No Redundancy	4
LS106	14	Critical to service	No Redundancy	4
LS021A	16	Critical to service	No Redundancy	4
LS029	16	Critical to service	No Redundancy	4
LS030	16	Critical to service	No Redundancy	4
LS051	16	Critical to service	No Redundancy	4
LS114	17	Critical to service	No Redundancy	4
LS100	18	Critical to service	No Redundancy	4
LS111	18	Critical to service	No Redundancy	4
LS116	18	Critical to service	No Redundancy	4
LS031	19	Critical to service	No Redundancy	4
LS115	20	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
Lift Station Isolation Valves:				
LS010*	0	Critical to service	No Redundancy	1
LS017#1 Gate Valve*	0	Critical to service	No Redundancy	1
LS017#1 Plug Valve*	0	Critical to service	No Redundancy	1
LS017#2 Gate Valve*	0	Critical to service	No Redundancy	1
LS017#2 Plug Valve*	0	Critical to service	No Redundancy	1
LS017#3 Gate Valve*	0	Critical to service	No Redundancy	1
LS017#4 Gate Valve*	0	Critical to service	No Redundancy	1
LS018*	0	Critical to service	No Redundancy	1
LS028*	0	Critical to service	No Redundancy	1
LS001	0	Critical to service	No Redundancy	1
LS002	0	Critical to service	No Redundancy	1
LS003	0	Critical to service	No Redundancy	1
LS004	0	Critical to service	No Redundancy	1
LS005	0	Critical to service	No Redundancy	1
LS005A	0	Critical to service	No Redundancy	1
LS006	0	Critical to service	No Redundancy	1
LS007	0	Critical to service	No Redundancy	1
LS008	0	Critical to service	No Redundancy	1
LS009	0	Critical to service	No Redundancy	1
LS009A	0	Critical to service	No Redundancy	1
LS011	0	Critical to service	No Redundancy	1
LS013	0	Critical to service	No Redundancy	1
LS015	0	Critical to service	No Redundancy	1
LS016	0	Critical to service	No Redundancy	1
LS017#3 Plug Valve	0	Critical to service	No Redundancy	1
LS017#4 Plug Valve	0	Critical to service	No Redundancy	1
LS019	0	Critical to service	No Redundancy	1
LS020	0	Critical to service	No Redundancy	1
LS021	0	Critical to service	No Redundancy	1
LS021A	0	Critical to service	No Redundancy	1
LS022	0	Critical to service	No Redundancy	1
LS023	0	Critical to service	No Redundancy	1
LS024	0	Critical to service	No Redundancy	1
LS025	0	Critical to service	No Redundancy	1
LS026	0	Critical to service	No Redundancy	1
LS027	0	Critical to service	No Redundancy	1
LS029	0	Critical to service	No Redundancy	1
LS030	0	Critical to service	No Redundancy	1
LS031	0	Critical to service	No Redundancy	1

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS032	0	Critical to service	No Redundancy	1
LS034	0	Critical to service	No Redundancy	1
LS035	0	Critical to service	No Redundancy	1
LS036	0	Critical to service	No Redundancy	1
LS037	0	Critical to service	No Redundancy	1
LS038	0	Critical to service	No Redundancy	1
LS039	0	Critical to service	No Redundancy	1
LS040	0	Critical to service	No Redundancy	1
LS041	0	Critical to service	No Redundancy	1
LS042	0	Critical to service	No Redundancy	1
LS043	0	Critical to service	No Redundancy	1
LS044	0	Critical to service	No Redundancy	1
LS045	0	Critical to service	No Redundancy	1
LS047	1	Critical to service	No Redundancy	1
LS048	2	Critical to service	No Redundancy	1
LS049	2	Critical to service	No Redundancy	1
LS050	3	Critical to service	No Redundancy	3
LS051	3	Critical to service	No Redundancy	3
LS012	4	Critical to service	No Redundancy	3
LS053	4	Critical to service	No Redundancy	3
LS054	4	Critical to service	No Redundancy	3
LS055	4	Critical to service	No Redundancy	3
LS083	4	Critical to service	No Redundancy	3
LS084	4	Critical to service	No Redundancy	3
LS094	4	Critical to service	No Redundancy	3
LS046	5	Critical to service	No Redundancy	3
LS056	5	Critical to service	No Redundancy	3
LS057	5	Critical to service	No Redundancy	3
LS014	6	Critical to service	No Redundancy	4
LS052	6	Critical to service	No Redundancy	4
LS059	6	Critical to service	No Redundancy	4
LS065	6	Critical to service	No Redundancy	4
LS058	7	Critical to service	No Redundancy	4
LS061	7	Critical to service	No Redundancy	4
LS062	7	Critical to service	No Redundancy	4
LS063	7	Critical to service	No Redundancy	4
LS064	7	Critical to service	No Redundancy	4
LS067	7	Critical to service	No Redundancy	4
LS070	7	Critical to service	No Redundancy	4
LS072	7	Critical to service	No Redundancy	4
LS077#1	7	Critical to service	No Redundancy	4
LS077#2	7	Critical to service	No Redundancy	4
LS077#3	7	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS066	8	Critical to service	No Redundancy	4
LS068	8	Critical to service	No Redundancy	4
LS073	8	Critical to service	No Redundancy	4
LS074	8	Critical to service	No Redundancy	4
LS075	8	Critical to service	No Redundancy	4
LS079	8	Critical to service	No Redundancy	4
LS085	8	Critical to service	No Redundancy	4
LS069	9	Critical to service	No Redundancy	4
LS076	9	Critical to service	No Redundancy	4
LS078	10	Critical to service	No Redundancy	4
LS082	10	Critical to service	No Redundancy	4
LS086	10	Critical to service	No Redundancy	4
LS090	10	Critical to service	No Redundancy	4
LS101	10	Critical to service	No Redundancy	4
LS103	10	Critical to service	No Redundancy	4
LS071	11	Critical to service	No Redundancy	4
LS080	11	Critical to service	No Redundancy	4
LS081	11	Critical to service	No Redundancy	4
LS087	11	Critical to service	No Redundancy	4
LS088	11	Critical to service	No Redundancy	4
LS089	11	Critical to service	No Redundancy	4
LS092	11	Critical to service	No Redundancy	4
LS093	11	Critical to service	No Redundancy	4
LS095	11	Critical to service	No Redundancy	4
LS096	11	Critical to service	No Redundancy	4
LS099	11	Critical to service	No Redundancy	4
LS107	11	Critical to service	No Redundancy	4
LS091	12	Critical to service	No Redundancy	4
LS098	12	Critical to service	No Redundancy	4
LS102	12	Critical to service	No Redundancy	4
LS104	13	Critical to service	No Redundancy	4
LS105	13	Critical to service	No Redundancy	4
LS097	14	Critical to service	No Redundancy	4
LS106	15	Critical to service	No Redundancy	4
LS108	15	Critical to service	No Redundancy	4
LS109	15	Critical to service	No Redundancy	4
LS110	17	Critical to service	No Redundancy	4
LS111	17	Critical to service	No Redundancy	4
LS100	18	Critical to service	No Redundancy	4
LS112	18	Critical to service	No Redundancy	4
LS113	18	Critical to service	No Redundancy	4
LS114	19	Critical to service	No Redundancy	4
LS115	20	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS116	20	Critical to service	No Redundancy	4
LS060	N/A	Critical to service	No Redundancy	4

* Staff recommendation for priority treatment

Apopka Phase I Wastewater Utility System Prioritization Worksheet					
Date Worksheet Completed/Updated: 10/30/15					
Asset	**Asset Type**	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
Lift Station Electrical Systems:					
LS005A*	Control Panel	0	Critical to service	No Redundancy	1
LS010*	Control Panel	0	Critical to service	No Redundancy	1
LS017*	GEN-SET Engine	0	Critical to service	No Redundancy	1
LS021*	Control Panel	0	Critical to service	No Redundancy	1
LS029*	Control Panel	0	Critical to service	No Redundancy	1
LS029*	GEN-SET Engine	0	Critical to service	No Redundancy	1
LS030*	Control Panel	0	Critical to service	No Redundancy	1
LS005A	GEN-SET Engine	0	Critical to service	No Redundancy	1
LS015	Control Panel	0	Critical to service	No Redundancy	1
LS021	Control Panel	0	Critical to service	No Redundancy	1
LS040	Control Panel	0	Critical to service	No Redundancy	1
LS042	Control Panel	0	Critical to service	No Redundancy	1
LS007	Control Panel	0	Critical to service	No Redundancy	1
LS008	Control Panel	0	Critical to service	No Redundancy	1
LS009A	Control Panel	0	Critical to service	No Redundancy	1
LS016	Control Panel	0	Critical to service	No Redundancy	1
LS034	Control Panel	0	Critical to service	No Redundancy	1
LS035	Control Panel	0	Critical to service	No Redundancy	1
LS045	Control Panel	0	Critical to service	No Redundancy	1
LS046	Control Panel	0	Critical to service	No Redundancy	1
LS013	Control Panel	1	Critical to service	No Redundancy	1
LS025	Control Panel	1	Critical to service	No Redundancy	1
LS027	Control Panel	1	Critical to service	No Redundancy	1
LS028	Control Panel	1	Critical to service	No Redundancy	1
LS047	Control Panel	1	Critical to service	No Redundancy	1
LS051	Control Panel	1	Critical to service	No Redundancy	1
LS083	Control Panel	1	Critical to service	No Redundancy	1
LS005	Control Panel	2	Critical to service	No Redundancy	1
LS020	Control Panel	2	Critical to service	No Redundancy	1
LS021A	Control Panel	2	Critical to service	No Redundancy	1
LS026	Control Panel	2	Critical to service	No Redundancy	1
LS041	Control Panel	2	Critical to service	No Redundancy	1
LS060	Control Panel	2	Critical to service	No Redundancy	1
LS002	Control Panel	3	Critical to service	No Redundancy	3
LS050	Control Panel	3	Critical to service	No Redundancy	3
LS001	Control Panel	4	Critical to service	No Redundancy	3
LS003	Control Panel	4	Critical to service	No Redundancy	3
LS012	Control Panel	4	Critical to service	No Redundancy	3
LS037	Control Panel	4	Critical to service	No Redundancy	3
LS039	Control Panel	4	Critical to service	No Redundancy	3
LS044	Control Panel	4	Critical to service	No Redundancy	3
LS067	Control Panel	4	Critical to service	No Redundancy	3
LS004	Control Panel	5	Critical to service	No Redundancy	3
LS014	Control Panel	5	Critical to service	No Redundancy	3
LS053	Control Panel	5	Critical to service	No Redundancy	3
LS055	Control Panel	5	Critical to service	No Redundancy	3

Apopka Phase I Wastewater Utility System Prioritization Worksheet					
Date Worksheet Completed/Updated: 10/30/15					
Asset	**Asset Type**	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS056	Control Panel	5	Critical to service	No Redundancy	3
LS006	Control Panel	Unknown	Critical to service	No Redundancy	3
LS017	Control Panel	Unknown	Critical to service	No Redundancy	3
LS017#1	VFD	Unknown	Critical to service	No Redundancy	3
LS017#3	VFD	Unknown	Critical to service	No Redundancy	3
LS017#4	VFD	Unknown	Critical to service	No Redundancy	3
LS022	Control Panel	Unknown	Critical to service	No Redundancy	3
LS043	Control Panel	Unknown	Critical to service	No Redundancy	3
LS048	Control Panel	Unknown	Critical to service	No Redundancy	3
LS049	Control Panel	Unknown	Critical to service	No Redundancy	3
LS052	Control Panel	Unknown	Critical to service	No Redundancy	3
LS067	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
LS073	Control Panel	Unknown	Critical to service	No Redundancy	3
LS073	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
LS074	Control Panel	Unknown	Critical to service	No Redundancy	3
LS075	Control Panel	Unknown	Critical to service	No Redundancy	3
LS077	Control Panel	Unknown	Critical to service	No Redundancy	3
LS077	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
LS077#1	VFD	Unknown	Critical to service	No Redundancy	3
LS082	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
LS095	Control Panel	Unknown	Critical to service	No Redundancy	3
LS095	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
Portable GEN#1	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
Portable GEN#2	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
Portable GEN#3	GEN-SET Engine	Unknown	Critical to service	No Redundancy	3
LS018	Control Panel	6	Critical to service	No Redundancy	4
LS054	Control Panel	6	Critical to service	No Redundancy	4
LS057	Control Panel	6	Critical to service	No Redundancy	4
LS058	Control Panel	7	Critical to service	No Redundancy	4
LS059	Control Panel	7	Critical to service	No Redundancy	4
LS061	Control Panel	7	Critical to service	No Redundancy	4
LS062	Control Panel	7	Critical to service	No Redundancy	4
LS063	Control Panel	7	Critical to service	No Redundancy	4
LS064	Control Panel	7	Critical to service	No Redundancy	4
LS065	Control Panel	7	Critical to service	No Redundancy	4
LS068	Control Panel	7	Critical to service	No Redundancy	4
LS011	Control Panel	8	Critical to service	No Redundancy	4
LS066	Control Panel	8	Critical to service	No Redundancy	4
LS069	Control Panel	8	Critical to service	No Redundancy	4
LS070	Control Panel	8	Critical to service	No Redundancy	4
LS023	Control Panel	9	Critical to service	No Redundancy	4
LS024	Control Panel	9	Critical to service	No Redundancy	4
LS071	Control Panel	9	Critical to service	No Redundancy	4
LS072	Control Panel	9	Critical to service	No Redundancy	4
LS076	Control Panel	9	Critical to service	No Redundancy	4
LS038	Control Panel	10	Critical to service	No Redundancy	4
LS078	Control Panel	10	Critical to service	No Redundancy	4
LS079	Control Panel	10	Critical to service	No Redundancy	4
LS082	Control Panel	10	Critical to service	No Redundancy	4
LS084	Control Panel	10	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet					
Date Worksheet Completed/Updated: 10/30/15					
Asset	**Asset Type**	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
LS085	Control Panel	10	Critical to service	No Redundancy	4
LS086	Control Panel	10	Critical to service	No Redundancy	4
LS087	Control Panel	10	Critical to service	No Redundancy	4
LS080	Control Panel	11	Critical to service	No Redundancy	4
LS081	Control Panel	11	Critical to service	No Redundancy	4
LS089	Control Panel	11	Critical to service	No Redundancy	4
LS090	Control Panel	11	Critical to service	No Redundancy	4
LS092	Control Panel	11	Critical to service	No Redundancy	4
LS088	Control Panel	12	Critical to service	No Redundancy	4
LS091	Control Panel	12	Critical to service	No Redundancy	4
LS093	Control Panel	12	Critical to service	No Redundancy	4
LS094	Control Panel	12	Critical to service	No Redundancy	4
LS096	Control Panel	12	Critical to service	No Redundancy	4
LS098	Control Panel	12	Critical to service	No Redundancy	4
LS099	Control Panel	12	Critical to service	No Redundancy	4
LS101	Control Panel	12	Critical to service	No Redundancy	4
LS102	Control Panel	12	Critical to service	No Redundancy	4
LS103	Control Panel	12	Critical to service	No Redundancy	4
LS107	Control Panel	12	Critical to service	No Redundancy	4
LS108	Control Panel	12	Critical to service	No Redundancy	4
LS105	Control Panel	13	Critical to service	No Redundancy	4
LS036	Control Panel	14	Critical to service	No Redundancy	4
LS097	Control Panel	14	Critical to service	No Redundancy	4
LS106	Control Panel	14	Critical to service	No Redundancy	4
LS009	Control Panel	15	Critical to service	No Redundancy	4
LS109	Control Panel	15	Critical to service	No Redundancy	4
LS104	Control Panel	16	Critical to service	No Redundancy	4
LS110	Control Panel	17	Critical to service	No Redundancy	4
LS077#3	VFD	18	Critical to service	No Redundancy	4
LS100	Control Panel	18	Critical to service	No Redundancy	4
LS111	Control Panel	18	Critical to service	No Redundancy	4
LS112	Control Panel	18	Critical to service	No Redundancy	4
LS113	Control Panel	18	Critical to service	No Redundancy	4
LS019	Control Panel	19	Critical to service	No Redundancy	4
LS031	Control Panel	19	Critical to service	No Redundancy	4
LS032	Control Panel	19	Critical to service	No Redundancy	4
LS114	Control Panel	19	Critical to service	No Redundancy	4
LS017#2	VFD	20	Critical to service	No Redundancy	4
LS077#2	VFD	20	Critical to service	No Redundancy	4
LS115	Control Panel	20	Critical to service	No Redundancy	4
LS116	Control Panel	20	Critical to service	No Redundancy	4

* Staff recommendation for priority treatment

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	**Material**	**Diameter (Inches)**				
24	PVC	20	0	Critical to service	No Redundancy	1
25	PVC	20	0	Critical to service	No Redundancy	1
88	PVC	2	0	Critical to service	No Redundancy	1
91	PVC	4	0	Critical to service	No Redundancy	1
92	PVC	3	0	Critical to service	No Redundancy	1
191	PVC	2.5	0	Critical to service	No Redundancy	1
204	PVC	2	0	Critical to service	No Redundancy	1
345	PVC	12	0	Critical to service	No Redundancy	1
4	PVC	20	Unknown	Critical to service	No Redundancy	3
22	DIP	30	Unknown	Critical to service	No Redundancy	3
31	PVC	20	Unknown	Critical to service	No Redundancy	3
32	DIP	30	Unknown	Critical to service	No Redundancy	3
33	DIP	30	Unknown	Critical to service	No Redundancy	3
34	DIP	24	Unknown	Critical to service	No Redundancy	3
35	DIP	30	Unknown	Critical to service	No Redundancy	3
39	PVC	6	Unknown	Critical to service	No Redundancy	3
40	PVC	12	Unknown	Critical to service	No Redundancy	3
41	PVC	12	Unknown	Critical to service	No Redundancy	3
130	PVC	6	Unknown	Critical to service	No Redundancy	3
131	PVC	8	Unknown	Critical to service	No Redundancy	3
132	PVC	4	Unknown	Critical to service	No Redundancy	3
133	PVC	8	Unknown	Critical to service	No Redundancy	3
134	PVC	4	Unknown	Critical to service	No Redundancy	3
135	PVC	8	Unknown	Critical to service	No Redundancy	3
139	PVC	8	Unknown	Critical to service	No Redundancy	3
165	Unknown	4	Unknown	Critical to service	No Redundancy	3
174	PVC	12	Unknown	Critical to service	No Redundancy	3
238	PVC	4	Unknown	Critical to service	No Redundancy	3
239	DIP	16	Unknown	Critical to service	No Redundancy	3
290	HDPE	4	Unknown	Critical to service	No Redundancy	3
292	Unknown	0	Unknown	Critical to service	No Redundancy	3
371	Unknown	6	Unknown	Critical to service	No Redundancy	3
420	PVC	20	Unknown	Critical to service	No Redundancy	3
460	BS	2	Unknown	Critical to service	No Redundancy	3
461	PVC	4	Unknown	Critical to service	No Redundancy	3
483	PVC	4	Unknown	Critical to service	No Redundancy	3
484	PVC	6	Unknown	Critical to service	No Redundancy	3
496	PVC	8	Unknown	Critical to service	No Redundancy	3
225	DIP	14	9	Critical to service	No Redundancy	4
166	CAS	6	11	Critical to service	No Redundancy	4
212	PVC	4	13	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	**Material**	**Diameter (Inches)**				
84	PVC	6	14	Critical to service	No Redundancy	4
372	Unknown	4	14	Critical to service	No Redundancy	4
277	PVC	4	16	Critical to service	No Redundancy	4
219	PVC	8	17	Critical to service	No Redundancy	4
231	PVC	6	18	Critical to service	No Redundancy	4
176	Unknown	4	19	Critical to service	No Redundancy	4
216	PVC	6	19	Critical to service	No Redundancy	4
218	PVC	4	19	Critical to service	No Redundancy	4
220	PVC	6	19	Critical to service	No Redundancy	4
230	PVC	6	19	Critical to service	No Redundancy	4
214	PVC	4	20	Critical to service	No Redundancy	4
503	PVC	8	20	Critical to service	No Redundancy	4
90	PVC	12	21	Critical to service	No Redundancy	4
208	PVC	4	21	Critical to service	No Redundancy	4
211	PVC	10	21	Critical to service	No Redundancy	4
227	PVC	8	22	Critical to service	No Redundancy	4
246	PVC	4	22	Critical to service	No Redundancy	4
263	PVC	4	22	Critical to service	No Redundancy	4
152	PVC	6	23	Critical to service	No Redundancy	4
232	PVC	8	23	Critical to service	No Redundancy	4
269	PVC	8	23	Critical to service	No Redundancy	4
47	DIP	20	24	Critical to service	No Redundancy	4
49	DIP	20	24	Critical to service	No Redundancy	4
50	DIP	20	24	Critical to service	No Redundancy	4
51	DIP	20	24	Critical to service	No Redundancy	4
52	DIP	20	24	Critical to service	No Redundancy	4
112	PVC	8	24	Critical to service	No Redundancy	4
223	PVC	8	24	Critical to service	No Redundancy	4
55	PVC	12	25	Critical to service	No Redundancy	4
85	PVC	12	25	Critical to service	No Redundancy	4
86	PVC	12	25	Critical to service	No Redundancy	4
95	PVC	8	25	Critical to service	No Redundancy	4
111	DIP	16	25	Critical to service	No Redundancy	4
136	PVC	12	25	Critical to service	No Redundancy	4
140	PVC	12	25	Critical to service	No Redundancy	4
149	DIP	16	25	Critical to service	No Redundancy	4
209	PVC	8	25	Critical to service	No Redundancy	4
229	PVC	4	25	Critical to service	No Redundancy	4
248	DIP	16	25	Critical to service	No Redundancy	4
271	PVC	8	25	Critical to service	No Redundancy	4
89	PVC	12	26	Critical to service	No Redundancy	4
203	PVC	4	26	Critical to service	No Redundancy	4
36	PVC	6	27	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
42	PVC	4	27	Critical to service	No Redundancy	4
54	PVC	8	27	Critical to service	No Redundancy	4
82	PVC	4	27	Critical to service	No Redundancy	4
249	PVC	6	27	Critical to service	No Redundancy	4
364	DIP	6	27	Critical to service	No Redundancy	4
431	PVC	8	27	Critical to service	No Redundancy	4
93	PVC	3	28	Critical to service	No Redundancy	4
109	PVC	6	28	Critical to service	No Redundancy	4
228	DIP	6	28	Critical to service	No Redundancy	4
234	PVC	6	28	Critical to service	No Redundancy	4
270	PVC	8	28	Critical to service	No Redundancy	4
83	PVC	8	30	Critical to service	No Redundancy	4
110	PVC	12	30	Critical to service	No Redundancy	4
148	PVC	4	30	Critical to service	No Redundancy	4
224	PVC	10	30	Critical to service	No Redundancy	4
226	PVC	12	30	Critical to service	No Redundancy	4
235	PVC	4	30	Critical to service	No Redundancy	4
236	PVC	4	30	Critical to service	No Redundancy	4
501	PVC	4	30	Critical to service	No Redundancy	4
78	CAS	18	31	Critical to service	No Redundancy	4
79	CAS	18	31	Critical to service	No Redundancy	4
108	PVC	8	31	Critical to service	No Redundancy	4
215	CAS	18	31	Critical to service	No Redundancy	4
237	PVC	4	31	Critical to service	No Redundancy	4
475	CAS	18	31	Critical to service	No Redundancy	4
48	DIP	20	32	Critical to service	No Redundancy	4
59	DIP	18	32	Critical to service	No Redundancy	4
61	DIP	18	32	Critical to service	No Redundancy	4
64	DIP	18	32	Critical to service	No Redundancy	4
67	DIP	18	32	Critical to service	No Redundancy	4
69	DIP	18	32	Critical to service	No Redundancy	4
71	DIP	18	32	Critical to service	No Redundancy	4
72	DIP	16	32	Critical to service	No Redundancy	4
73	DIP	18	32	Critical to service	No Redundancy	4
75	DIP	14	32	Critical to service	No Redundancy	4
76	DIP	14	32	Critical to service	No Redundancy	4
94	PVC	6	32	Critical to service	No Redundancy	4
155	PVC	4	32	Critical to service	No Redundancy	4
355	DIP	18	32	Critical to service	No Redundancy	4
357	DIP	18	32	Critical to service	No Redundancy	4
465	DIP	18	32	Critical to service	No Redundancy	4
16	PVC	8	33	Critical to service	No Redundancy	4
17	PVC	8	33	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
43	PVC	4	33	Critical to service	No Redundancy	4
77	PVC	4	33	Critical to service	No Redundancy	4
210	PVC	8	33	Critical to service	No Redundancy	4
240	PVC	12	33	Critical to service	No Redundancy	4
280	PVC	12	33	Critical to service	No Redundancy	4
281	PVC	12	33	Critical to service	No Redundancy	4
481	PVC	6	33	Critical to service	No Redundancy	4
213	PVC	4	34	Critical to service	No Redundancy	4
221	CAS	12	34	Critical to service	No Redundancy	4
242	PVC	4	34	Critical to service	No Redundancy	4
243	PVC	4	34	Critical to service	No Redundancy	4
44	PVC	8	35	Critical to service	No Redundancy	4
45	PVC	8	35	Critical to service	No Redundancy	4
244	PVC	4	35	Critical to service	No Redundancy	4
247	PVC	12	35	Critical to service	No Redundancy	4
282	PVC	8	35	Critical to service	No Redundancy	4
217	PVC	6	36	Critical to service	No Redundancy	4
241	PVC	4	36	Critical to service	No Redundancy	4
252	PVC	8	36	Critical to service	No Redundancy	4
279	PVC	6	36	Critical to service	No Redundancy	4
284	PVC	6	36	Critical to service	No Redundancy	4
27	PVC	20	37	Critical to service	No Redundancy	4
28	PVC	6	37	Critical to service	No Redundancy	4
29	PVC	20	37	Critical to service	No Redundancy	4
30	PVC	8	37	Critical to service	No Redundancy	4
37	PVC	8	37	Critical to service	No Redundancy	4
56	PVC	12	37	Critical to service	No Redundancy	4
57	PVC	8	37	Critical to service	No Redundancy	4
58	PVC	12	37	Critical to service	No Redundancy	4
60	PVC	12	37	Critical to service	No Redundancy	4
62	PVC	8	37	Critical to service	No Redundancy	4
63	PVC	8	37	Critical to service	No Redundancy	4
65	PVC	8	37	Critical to service	No Redundancy	4
66	PVC	8	37	Critical to service	No Redundancy	4
68	PVC	8	37	Critical to service	No Redundancy	4
70	PVC	8	37	Critical to service	No Redundancy	4
74	PVC	8	37	Critical to service	No Redundancy	4
167	PVC	12	37	Critical to service	No Redundancy	4
245	PVC	4	37	Critical to service	No Redundancy	4
250	PVC	6	37	Critical to service	No Redundancy	4
251	PVC	4	37	Critical to service	No Redundancy	4
254	PVC	16	37	Critical to service	No Redundancy	4
256	PVC	6	37	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
119	PVC	12	38	Critical to service	No Redundancy	4
120	PVC	12	38	Critical to service	No Redundancy	4
121	PVC	12	38	Critical to service	No Redundancy	4
122	PVC	12	38	Critical to service	No Redundancy	4
123	PVC	12	38	Critical to service	No Redundancy	4
145	PVC	12	38	Critical to service	No Redundancy	4
146	PVC	12	38	Critical to service	No Redundancy	4
147	PVC	12	38	Critical to service	No Redundancy	4
150	PVC	12	38	Critical to service	No Redundancy	4
151	PVC	12	38	Critical to service	No Redundancy	4
156	PVC	6	38	Critical to service	No Redundancy	4
157	PVC	6	38	Critical to service	No Redundancy	4
158	PVC	8	38	Critical to service	No Redundancy	4
159	PVC	12	38	Critical to service	No Redundancy	4
160	PVC	6	38	Critical to service	No Redundancy	4
161	PVC	12	38	Critical to service	No Redundancy	4
162	PVC	12	38	Critical to service	No Redundancy	4
253	PVC	6	38	Critical to service	No Redundancy	4
258	PVC	4	38	Critical to service	No Redundancy	4
259	PVC	4	38	Critical to service	No Redundancy	4
262	PVC	6	38	Critical to service	No Redundancy	4
351	PVC	4	38	Critical to service	No Redundancy	4
354	PVC	12	38	Critical to service	No Redundancy	4
356	PVC	8	38	Critical to service	No Redundancy	4
383	PVC	12	38	Critical to service	No Redundancy	4
451	PVC	8	38	Critical to service	No Redundancy	4
81	PVC	6	39	Critical to service	No Redundancy	4
96	PVC	8	39	Critical to service	No Redundancy	4
107	PVC	6	39	Critical to service	No Redundancy	4
126	PVC	10	39	Critical to service	No Redundancy	4
127	PVC	10	39	Critical to service	No Redundancy	4
128	PVC	10	39	Critical to service	No Redundancy	4
142	PVC	10	39	Critical to service	No Redundancy	4
143	PVC	10	39	Critical to service	No Redundancy	4
144	PVC	4	39	Critical to service	No Redundancy	4
255	PVC	6	39	Critical to service	No Redundancy	4
257	PVC	6	39	Critical to service	No Redundancy	4
98	PVC	12	40	Critical to service	No Redundancy	4
99	PVC	6	40	Critical to service	No Redundancy	4
100	PVC	12	40	Critical to service	No Redundancy	4
101	PVC	8	40	Critical to service	No Redundancy	4
102	PVC	12	40	Critical to service	No Redundancy	4
103	PVC	12	40	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
115	PVC	6	40	Critical to service	No Redundancy	4
129	PVC	10	40	Critical to service	No Redundancy	4
141	PVC	10	40	Critical to service	No Redundancy	4
196	PVC	4	40	Critical to service	No Redundancy	4
260	PVC	20	40	Critical to service	No Redundancy	4
261	PVC	4	40	Critical to service	No Redundancy	4
267	PVC	6	40	Critical to service	No Redundancy	4
291	PVC	12	40	Critical to service	No Redundancy	4
294	PVC	12	40	Critical to service	No Redundancy	4
296	PVC	12	40	Critical to service	No Redundancy	4
298	PVC	12	40	Critical to service	No Redundancy	4
299	PVC	12	40	Critical to service	No Redundancy	4
18	PVC	12	41	Critical to service	No Redundancy	4
154	PVC	4	41	Critical to service	No Redundancy	4
173	Unknown	8	41	Critical to service	No Redundancy	4
178	PVC	4	41	Critical to service	No Redundancy	4
180	PVC	8	41	Critical to service	No Redundancy	4
181	PVC	8	41	Critical to service	No Redundancy	4
182	PVC	8	41	Critical to service	No Redundancy	4
183	PVC	4	41	Critical to service	No Redundancy	4
185	PVC	6	41	Critical to service	No Redundancy	4
192	PVC	4	41	Critical to service	No Redundancy	4
205	PVC	8	41	Critical to service	No Redundancy	4
207	PVC	4	41	Critical to service	No Redundancy	4
264	PVC	6	41	Critical to service	No Redundancy	4
266	PVC	8	41	Critical to service	No Redundancy	4
268	PVC	4	41	Critical to service	No Redundancy	4
273	PVC	4	41	Critical to service	No Redundancy	4
274	PVC	4	41	Critical to service	No Redundancy	4
275	PVC	4	41	Critical to service	No Redundancy	4
276	PVC	4	41	Critical to service	No Redundancy	4
297	PVC	6	41	Critical to service	No Redundancy	4
346	PVC	10	41	Critical to service	No Redundancy	4
366	PVC	4	41	Critical to service	No Redundancy	4
367	PVC	4	41	Critical to service	No Redundancy	4
12	PVC	12	42	Critical to service	No Redundancy	4
23	PVC	20	42	Critical to service	No Redundancy	4
97	PVC	20	42	Critical to service	No Redundancy	4
124	PVC	4	42	Critical to service	No Redundancy	4
125	PVC	4	42	Critical to service	No Redundancy	4
177	Unknown	4	42	Critical to service	No Redundancy	4
184	PVC	4	42	Critical to service	No Redundancy	4
186	PVC	4	42	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	**Material**	**Diameter (Inches)**				
187	PVC	4	42	Critical to service	No Redundancy	4
188	PVC	12	42	Critical to service	No Redundancy	4
189	PVC	6	42	Critical to service	No Redundancy	4
190	PVC	3	42	Critical to service	No Redundancy	4
206	PVC	4	42	Critical to service	No Redundancy	4
283	PVC	4	42	Critical to service	No Redundancy	4
348	PVC	6	42	Critical to service	No Redundancy	4
448	Unknown	4	42	Critical to service	No Redundancy	4
452	DIP	30	42	Critical to service	No Redundancy	4
53	PVC	4	43	Critical to service	No Redundancy	4
104	PVC	6	43	Critical to service	No Redundancy	4
105	PVC	6	43	Critical to service	No Redundancy	4
116	PVC	6	43	Critical to service	No Redundancy	4
117	PVC	10	43	Critical to service	No Redundancy	4
193	Unknown	8	43	Critical to service	No Redundancy	4
194	Unknown	4	43	Critical to service	No Redundancy	4
195	Unknown	8	43	Critical to service	No Redundancy	4
197	PVC	4	43	Critical to service	No Redundancy	4
198	PVC	4	43	Critical to service	No Redundancy	4
344	PVC	4	43	Critical to service	No Redundancy	4
424	PVC	6	43	Critical to service	No Redundancy	4
425	PVC	6	43	Critical to service	No Redundancy	4
426	PVC	6	43	Critical to service	No Redundancy	4
11	PVC	4	44	Critical to service	No Redundancy	4
38	PVC	6	44	Critical to service	No Redundancy	4
87	PVC	4	44	Critical to service	No Redundancy	4
202	PVC	4	44	Critical to service	No Redundancy	4
303	PVC	8	44	Critical to service	No Redundancy	4
312	PVC	4	44	Critical to service	No Redundancy	4
319	PVC	4	44	Critical to service	No Redundancy	4
321	PVC	4	44	Critical to service	No Redundancy	4
323	PVC	4	44	Critical to service	No Redundancy	4
325	PVC	4	44	Critical to service	No Redundancy	4
327	PVC	4	44	Critical to service	No Redundancy	4
329	PVC	4	44	Critical to service	No Redundancy	4
338	PVC	4	44	Critical to service	No Redundancy	4
340	PVC	4	44	Critical to service	No Redundancy	4
342	PVC	8	44	Critical to service	No Redundancy	4
343	PVC	8	44	Critical to service	No Redundancy	4
359	Unknown	2	44	Critical to service	No Redundancy	4
5	PVC	12	45	Critical to service	No Redundancy	4
6	PVC	12	45	Critical to service	No Redundancy	4
7	PVC	12	45	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
8	PVC	6	45	Critical to service	No Redundancy	4
9	PVC	12	45	Critical to service	No Redundancy	4
13	PVC	12	45	Critical to service	No Redundancy	4
15	PVC	12	45	Critical to service	No Redundancy	4
153	AC	4	45	Critical to service	No Redundancy	4
163	AC	8	45	Critical to service	No Redundancy	4
164	AC	6	45	Critical to service	No Redundancy	4
170	PVC	6	45	Critical to service	No Redundancy	4
171	PVC	6	45	Critical to service	No Redundancy	4
179	PVC	6	45	Critical to service	No Redundancy	4
265	PVC	4	45	Critical to service	No Redundancy	4
278	PVC	4	45	Critical to service	No Redundancy	4
285	Unknown	6	45	Critical to service	No Redundancy	4
287	PVC	12	45	Critical to service	No Redundancy	4
289	PVC	6	45	Critical to service	No Redundancy	4
300	Unknown	4	45	Critical to service	No Redundancy	4
301	Unknown	4	45	Critical to service	No Redundancy	4
302	PVC	4	45	Critical to service	No Redundancy	4
347	PVC	12	45	Critical to service	No Redundancy	4
350	PVC	8	45	Critical to service	No Redundancy	4
414	PVC	1.5	45	Critical to service	No Redundancy	4
435	PVC	12	45	Critical to service	No Redundancy	4
436	PVC	4	45	Critical to service	No Redundancy	4
437	PVC	6	45	Critical to service	No Redundancy	4
438	PVC	12	45	Critical to service	No Redundancy	4
504	PVC	12	45	Critical to service	No Redundancy	4
1	PVC	4	46	Critical to service	No Redundancy	4
3	PVC	6	46	Critical to service	No Redundancy	4
46	PVC	8	46	Critical to service	No Redundancy	4
113	PVC	6	46	Critical to service	No Redundancy	4
114	PVC	6	46	Critical to service	No Redundancy	4
172	PVC	8	46	Critical to service	No Redundancy	4
175	PVC	6	46	Critical to service	No Redundancy	4
352	PVC	12	46	Critical to service	No Redundancy	4
353	PVC	12	46	Critical to service	No Redundancy	4
362	Unknown	4	46	Critical to service	No Redundancy	4
365	PVC	4	46	Critical to service	No Redundancy	4
375	PVC	4	46	Critical to service	No Redundancy	4
376	PVC	4	46	Critical to service	No Redundancy	4
413	PVC	4	46	Critical to service	No Redundancy	4
440	PVC	3	46	Critical to service	No Redundancy	4
457	PVC	4	46	Critical to service	No Redundancy	4
462	PVC	4	46	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	**Material**	**Diameter (Inches)**				
477	PVC	8	46	Critical to service	No Redundancy	4
478	PVC	2	46	Critical to service	No Redundancy	4
479	PVC	2	46	Critical to service	No Redundancy	4
480	PVC	8	46	Critical to service	No Redundancy	4
138	PVC	4	47	Critical to service	No Redundancy	4
368	Unknown	4	47	Critical to service	No Redundancy	4
373	Unknown	4	47	Critical to service	No Redundancy	4
374	Unknown	2	47	Critical to service	No Redundancy	4
137	PVC	8	48	Critical to service	No Redundancy	4
369	PVC	10	48	Critical to service	No Redundancy	4
370	PVC	6	48	Critical to service	No Redundancy	4
415	PVC	8	48	Critical to service	No Redundancy	4
416	PVC	8	48	Critical to service	No Redundancy	4
417	PVC	8	48	Critical to service	No Redundancy	4
476	PVC	4	48	Critical to service	No Redundancy	4
412	PVC	8	49	Critical to service	No Redundancy	4
428	PVC	4	49	Critical to service	No Redundancy	4
494	PVC	4	49	Critical to service	No Redundancy	4
495	PVC	8	49	Critical to service	No Redundancy	4
409	PVC	6	50	Critical to service	No Redundancy	4
432	PVC	8	50	Critical to service	No Redundancy	4
499	DIP	6	50	Critical to service	No Redundancy	4
505	PVC	8	50	Critical to service	No Redundancy	4
433	PVC	8	51	Critical to service	No Redundancy	4
454	PVC	12	51	Critical to service	No Redundancy	4
80	CAS	18	52	Critical to service	No Redundancy	4
395	PVC	12	52	Critical to service	No Redundancy	4
411	PVC	3	52	Critical to service	No Redundancy	4
444	PVC	16	52	Critical to service	No Redundancy	4
445	PVC	6	52	Critical to service	No Redundancy	4
446	PVC	16	52	Critical to service	No Redundancy	4
447	PVC	6	52	Critical to service	No Redundancy	4
458	PVC	4	52	Critical to service	No Redundancy	4
459	PVC	4	52	Critical to service	No Redundancy	4
222	CAS	6	53	Critical to service	No Redundancy	4
418	PVC	2	53	Critical to service	No Redundancy	4
419	PVC	4	53	Critical to service	No Redundancy	4
421	PVC	4	53	Critical to service	No Redundancy	4
422	PVC	4	53	Critical to service	No Redundancy	4
423	PVC	4	53	Critical to service	No Redundancy	4
449	PVC	4	53	Critical to service	No Redundancy	4
453	PVC	4	53	Critical to service	No Redundancy	4
455	PVC	10	53	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	Material	Diameter (Inches)				
456	PVC	6	53	Critical to service	No Redundancy	4
500	PVC	2	53	Critical to service	No Redundancy	4
106	PVC	6	54	Critical to service	No Redundancy	4
463	PVC	6	54	Critical to service	No Redundancy	4
464	PVC	6	54	Critical to service	No Redundancy	4
466	PVC	6	54	Critical to service	No Redundancy	4
467	PVC	6	54	Critical to service	No Redundancy	4
468	PVC	6	54	Critical to service	No Redundancy	4
469	PVC	6	54	Critical to service	No Redundancy	4
470	PVC	6	54	Critical to service	No Redundancy	4
471	PVC	6	54	Critical to service	No Redundancy	4
488	PVC	4	55	Critical to service	No Redundancy	4
489	PVC	4	55	Critical to service	No Redundancy	4
490	PVC	4	55	Critical to service	No Redundancy	4
491	PVC	2	55	Critical to service	No Redundancy	4
497	PVC	6	55	Critical to service	No Redundancy	4
498	PVC	4	55	Critical to service	No Redundancy	4
502	PVC	4	55	Critical to service	No Redundancy	4
507	PVC	4	55	Critical to service	No Redundancy	4
508	PVC	4	55	Critical to service	No Redundancy	4
19	HDPE	6	89	Critical to service	No Redundancy	4
20	HDPE	4	89	Critical to service	No Redundancy	4
14	HDPE	8	90	Critical to service	No Redundancy	4
21	HDPE	4	90	Critical to service	No Redundancy	4
26	HDPE	12	90	Critical to service	No Redundancy	4
2	HDPE	4	91	Critical to service	No Redundancy	4
168	HDPE	12	91	Critical to service	No Redundancy	4
169	HDPE	12	91	Critical to service	No Redundancy	4
293	HDPE	12	91	Critical to service	No Redundancy	4
439	HDPE	3	91	Critical to service	No Redundancy	4
441	HDPE	4	91	Critical to service	No Redundancy	4
10	HDPE	4	92	Critical to service	No Redundancy	4
272	HDPE	4	92	Critical to service	No Redundancy	4
199	HDPE	4	93	Critical to service	No Redundancy	4
200	HDPE	4	93	Critical to service	No Redundancy	4
201	HDPE	4	93	Critical to service	No Redundancy	4
306	HDPE	4	94	Critical to service	No Redundancy	4
308	HDPE	4	94	Critical to service	No Redundancy	4
310	HDPE	4	94	Critical to service	No Redundancy	4
315	HDPE	4	94	Critical to service	No Redundancy	4
316	HDPE	4	94	Critical to service	No Redundancy	4
334	HDPE	4	94	Critical to service	No Redundancy	4
336	HDPE	4	94	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Distribution Forcemains ID:	**Material**	**Diameter (Inches)**				
349	HDPE	4	94	Critical to service	No Redundancy	4
358	HDPE	4	94	Critical to service	No Redundancy	4
434	HDPE	1.5	94	Critical to service	No Redundancy	4
486	HDPE	4	94	Critical to service	No Redundancy	4
492	HDPE	4	94	Critical to service	No Redundancy	4
493	HDPE	4	94	Critical to service	No Redundancy	4
295	HDPE	4	95	Critical to service	No Redundancy	4
450	HDPE	4	95	Critical to service	No Redundancy	4
485	HDPE	4	95	Critical to service	No Redundancy	4
360	HDPE	4	96	Critical to service	No Redundancy	4
361	HDPE	2	96	Critical to service	No Redundancy	4
363	HDPE	2	96	Critical to service	No Redundancy	4
377	HDPE	4	96	Critical to service	No Redundancy	4
402	HDPE	2	96	Critical to service	No Redundancy	4
403	HDPE	2	96	Critical to service	No Redundancy	4
506	HDPE	2	96	Critical to service	No Redundancy	4
400	HDPE	4	97	Critical to service	No Redundancy	4
401	HDPE	3	97	Critical to service	No Redundancy	4
404	HDPE	6	97	Critical to service	No Redundancy	4
405	HDPE	6	97	Critical to service	No Redundancy	4
406	HDPE	4	97	Critical to service	No Redundancy	4
407	HDPE	6	97	Critical to service	No Redundancy	4
408	HDPE	4	97	Critical to service	No Redundancy	4
378	HDPE	4	98	Critical to service	No Redundancy	4
379	HDPE	4	98	Critical to service	No Redundancy	4
380	HDPE	4	98	Critical to service	No Redundancy	4
381	HDPE	4	98	Critical to service	No Redundancy	4
382	HDPE	2	98	Critical to service	No Redundancy	4
442	HDPE	6	98	Critical to service	No Redundancy	4
443	HDPE	4	98	Critical to service	No Redundancy	4
472	HDPE	1.5	99	Critical to service	No Redundancy	4
473	HDPE	4	99	Critical to service	No Redundancy	4
474	HDPE	4	99	Critical to service	No Redundancy	4
482	PE	4	99	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
Control Valves ID:				
1	0	Critical to service	No Redundancy	1
2	0	Critical to service	No Redundancy	1
3	0	Critical to service	No Redundancy	1
41	0	Critical to service	No Redundancy	1
42	0	Critical to service	No Redundancy	1
51	0	Critical to service	No Redundancy	1
52	0	Critical to service	No Redundancy	1
61	0	Critical to service	No Redundancy	1
62	0	Critical to service	No Redundancy	1
63	0	Critical to service	No Redundancy	1
67	0	Critical to service	No Redundancy	1
69	0	Critical to service	No Redundancy	1
70	0	Critical to service	No Redundancy	1
71	0	Critical to service	No Redundancy	1
72	0	Critical to service	No Redundancy	1
73	0	Critical to service	No Redundancy	1
74	0	Critical to service	No Redundancy	1
84	0	Critical to service	No Redundancy	1
96	0	Critical to service	No Redundancy	1
97	0	Critical to service	No Redundancy	1
99	0	Critical to service	No Redundancy	1
152	0	Critical to service	No Redundancy	1
153	0	Critical to service	No Redundancy	1
86	2	Critical to service	No Redundancy	1
93	2	Critical to service	No Redundancy	1
94	2	Critical to service	No Redundancy	1
95	2	Critical to service	No Redundancy	1
43	3	Critical to service	No Redundancy	3
44	3	Critical to service	No Redundancy	3
45	3	Critical to service	No Redundancy	3
46	3	Critical to service	No Redundancy	3
47	3	Critical to service	No Redundancy	3
48	3	Critical to service	No Redundancy	3
49	3	Critical to service	No Redundancy	3
50	3	Critical to service	No Redundancy	3
53	4	Critical to service	No Redundancy	3
54	4	Critical to service	No Redundancy	3
55	4	Critical to service	No Redundancy	3
57	4	Critical to service	No Redundancy	3
58	5	Critical to service	No Redundancy	3
59	5	Critical to service	No Redundancy	3
60	5	Critical to service	No Redundancy	3
91	5	Critical to service	No Redundancy	3
92	5	Critical to service	No Redundancy	3
8	Unknown	Critical to service	No Redundancy	3
19	Unknown	Critical to service	No Redundancy	3

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
20	Unknown	Critical to service	No Redundancy	3
21	Unknown	Critical to service	No Redundancy	3
117	Unknown	Critical to service	No Redundancy	3
56	6	Critical to service	No Redundancy	4
65	6	Critical to service	No Redundancy	4
66	6	Critical to service	No Redundancy	4
4	7	Critical to service	No Redundancy	4
5	7	Critical to service	No Redundancy	4
15	7	Critical to service	No Redundancy	4
16	7	Critical to service	No Redundancy	4
17	7	Critical to service	No Redundancy	4
18	7	Critical to service	No Redundancy	4
64	7	Critical to service	No Redundancy	4
85	7	Critical to service	No Redundancy	4
87	7	Critical to service	No Redundancy	4
88	7	Critical to service	No Redundancy	4
89	7	Critical to service	No Redundancy	4
90	7	Critical to service	No Redundancy	4
98	7	Critical to service	No Redundancy	4
29	8	Critical to service	No Redundancy	4
68	8	Critical to service	No Redundancy	4
100	8	Critical to service	No Redundancy	4
130	8	Critical to service	No Redundancy	4
22	9	Critical to service	No Redundancy	4
23	9	Critical to service	No Redundancy	4
24	9	Critical to service	No Redundancy	4
25	9	Critical to service	No Redundancy	4
26	9	Critical to service	No Redundancy	4
9	10	Critical to service	No Redundancy	4
10	10	Critical to service	No Redundancy	4
11	10	Critical to service	No Redundancy	4
12	10	Critical to service	No Redundancy	4
13	10	Critical to service	No Redundancy	4
14	10	Critical to service	No Redundancy	4
31	10	Critical to service	No Redundancy	4
32	10	Critical to service	No Redundancy	4
103	10	Critical to service	No Redundancy	4
111	10	Critical to service	No Redundancy	4
112	10	Critical to service	No Redundancy	4
113	10	Critical to service	No Redundancy	4
114	10	Critical to service	No Redundancy	4
115	10	Critical to service	No Redundancy	4
116	10	Critical to service	No Redundancy	4
118	10	Critical to service	No Redundancy	4
119	10	Critical to service	No Redundancy	4
120	10	Critical to service	No Redundancy	4
131	10	Critical to service	No Redundancy	4
6	11	Critical to service	No Redundancy	4
7	11	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
27	11	Critical to service	No Redundancy	4
28	11	Critical to service	No Redundancy	4
30	11	Critical to service	No Redundancy	4
33	11	Critical to service	No Redundancy	4
35	11	Critical to service	No Redundancy	4
36	11	Critical to service	No Redundancy	4
37	11	Critical to service	No Redundancy	4
75	11	Critical to service	No Redundancy	4
76	11	Critical to service	No Redundancy	4
101	11	Critical to service	No Redundancy	4
102	11	Critical to service	No Redundancy	4
106	11	Critical to service	No Redundancy	4
110	11	Critical to service	No Redundancy	4
144	11	Critical to service	No Redundancy	4
34	12	Critical to service	No Redundancy	4
77	12	Critical to service	No Redundancy	4
78	12	Critical to service	No Redundancy	4
79	12	Critical to service	No Redundancy	4
80	12	Critical to service	No Redundancy	4
81	12	Critical to service	No Redundancy	4
82	12	Critical to service	No Redundancy	4
126	12	Critical to service	No Redundancy	4
129	12	Critical to service	No Redundancy	4
134	12	Critical to service	No Redundancy	4
83	13	Critical to service	No Redundancy	4
104	13	Critical to service	No Redundancy	4
149	14	Critical to service	No Redundancy	4
150	14	Critical to service	No Redundancy	4
151	14	Critical to service	No Redundancy	4
38	15	Critical to service	No Redundancy	4
39	15	Critical to service	No Redundancy	4
40	15	Critical to service	No Redundancy	4
105	15	Critical to service	No Redundancy	4
107	15	Critical to service	No Redundancy	4
108	15	Critical to service	No Redundancy	4
109	15	Critical to service	No Redundancy	4
121	15	Critical to service	No Redundancy	4
122	15	Critical to service	No Redundancy	4
148	15	Critical to service	No Redundancy	4
124	16	Critical to service	No Redundancy	4
125	17	Critical to service	No Redundancy	4
127	17	Critical to service	No Redundancy	4
128	17	Critical to service	No Redundancy	4
133	17	Critical to service	No Redundancy	4
139	17	Critical to service	No Redundancy	4
132	18	Critical to service	No Redundancy	4
135	18	Critical to service	No Redundancy	4
136	18	Critical to service	No Redundancy	4
137	18	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
138	18	Critical to service	No Redundancy	4
140	19	Critical to service	No Redundancy	4
141	19	Critical to service	No Redundancy	4
142	19	Critical to service	No Redundancy	4
143	19	Critical to service	No Redundancy	4
145	19	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
System Valves ID:				
2	0	Critical to service	No Redundancy	1
3	0	Critical to service	No Redundancy	1
4	0	Critical to service	No Redundancy	1
5	0	Critical to service	No Redundancy	1
7	0	Critical to service	No Redundancy	1
13	0	Critical to service	No Redundancy	1
14	0	Critical to service	No Redundancy	1
34	0	Critical to service	No Redundancy	1
80	0	Critical to service	No Redundancy	1
81	0	Critical to service	No Redundancy	1
82	0	Critical to service	No Redundancy	1
83	0	Critical to service	No Redundancy	1
84	0	Critical to service	No Redundancy	1
85	0	Critical to service	No Redundancy	1
111	0	Critical to service	No Redundancy	1
122	0	Critical to service	No Redundancy	1
125	0	Critical to service	No Redundancy	1
133	0	Critical to service	No Redundancy	1
137	0	Critical to service	No Redundancy	1
138	0	Critical to service	No Redundancy	1
139	0	Critical to service	No Redundancy	1
140	0	Critical to service	No Redundancy	1
141	0	Critical to service	No Redundancy	1
142	0	Critical to service	No Redundancy	1
200	0	Critical to service	No Redundancy	1
201	0	Critical to service	No Redundancy	1
202	0	Critical to service	No Redundancy	1
203	0	Critical to service	No Redundancy	1
204	0	Critical to service	No Redundancy	1
205	0	Critical to service	No Redundancy	1
206	0	Critical to service	No Redundancy	1
207	0	Critical to service	No Redundancy	1
208	0	Critical to service	No Redundancy	1
209	0	Critical to service	No Redundancy	1
210	0	Critical to service	No Redundancy	1
213	0	Critical to service	No Redundancy	1
230	0	Critical to service	No Redundancy	1
389	0	Critical to service	No Redundancy	1
390	0	Critical to service	No Redundancy	1
391	0	Critical to service	No Redundancy	1
392	0	Critical to service	No Redundancy	1
170	2	Critical to service	No Redundancy	1
191	2	Critical to service	No Redundancy	1
192	2	Critical to service	No Redundancy	1
193	2	Critical to service	No Redundancy	1
194	2	Critical to service	No Redundancy	1

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
195	2	Critical to service	No Redundancy	1
196	2	Critical to service	No Redundancy	1
197	2	Critical to service	No Redundancy	1
198	2	Critical to service	No Redundancy	1
199	2	Critical to service	No Redundancy	1
268	2	Critical to service	No Redundancy	1
269	2	Critical to service	No Redundancy	1
299	2	Critical to service	No Redundancy	1
300	2	Critical to service	No Redundancy	1
86	3	Critical to service	No Redundancy	3
87	3	Critical to service	No Redundancy	3
88	3	Critical to service	No Redundancy	3
89	3	Critical to service	No Redundancy	3
90	3	Critical to service	No Redundancy	3
91	3	Critical to service	No Redundancy	3
92	3	Critical to service	No Redundancy	3
93	3	Critical to service	No Redundancy	3
94	3	Critical to service	No Redundancy	3
95	3	Critical to service	No Redundancy	3
96	3	Critical to service	No Redundancy	3
97	3	Critical to service	No Redundancy	3
98	3	Critical to service	No Redundancy	3
99	3	Critical to service	No Redundancy	3
100	3	Critical to service	No Redundancy	3
101	3	Critical to service	No Redundancy	3
102	3	Critical to service	No Redundancy	3
103	3	Critical to service	No Redundancy	3
104	3	Critical to service	No Redundancy	3
105	3	Critical to service	No Redundancy	3
106	3	Critical to service	No Redundancy	3
109	3	Critical to service	No Redundancy	3
110	3	Critical to service	No Redundancy	3
127	3	Critical to service	No Redundancy	3
128	3	Critical to service	No Redundancy	3
129	3	Critical to service	No Redundancy	3
113	4	Critical to service	No Redundancy	3
117	4	Critical to service	No Redundancy	3
118	4	Critical to service	No Redundancy	3
119	4	Critical to service	No Redundancy	3
120	4	Critical to service	No Redundancy	3
134	4	Critical to service	No Redundancy	3
143	4	Critical to service	No Redundancy	3
144	4	Critical to service	No Redundancy	3
9	5	Critical to service	No Redundancy	3
112	5	Critical to service	No Redundancy	3
114	5	Critical to service	No Redundancy	3
121	5	Critical to service	No Redundancy	3
179	5	Critical to service	No Redundancy	3
180	5	Critical to service	No Redundancy	3

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
181	5	Critical to service	No Redundancy	3
182	5	Critical to service	No Redundancy	3
183	5	Critical to service	No Redundancy	3
184	5	Critical to service	No Redundancy	3
185	5	Critical to service	No Redundancy	3
186	5	Critical to service	No Redundancy	3
187	5	Critical to service	No Redundancy	3
188	5	Critical to service	No Redundancy	3
189	5	Critical to service	No Redundancy	3
190	5	Critical to service	No Redundancy	3
1	Unknown	Critical to service	No Redundancy	3
28	Unknown	Critical to service	No Redundancy	3
29	Unknown	Critical to service	No Redundancy	3
30	Unknown	Critical to service	No Redundancy	3
31	Unknown	Critical to service	No Redundancy	3
32	Unknown	Critical to service	No Redundancy	3
35	Unknown	Critical to service	No Redundancy	3
36	Unknown	Critical to service	No Redundancy	3
39	Unknown	Critical to service	No Redundancy	3
40	Unknown	Critical to service	No Redundancy	3
41	Unknown	Critical to service	No Redundancy	3
115	Unknown	Critical to service	No Redundancy	3
116	Unknown	Critical to service	No Redundancy	3
217	Unknown	Critical to service	No Redundancy	3
236	Unknown	Critical to service	No Redundancy	3
241	Unknown	Critical to service	No Redundancy	3
257	Unknown	Critical to service	No Redundancy	3
370	Unknown	Critical to service	No Redundancy	3
107	6	Critical to service	No Redundancy	4
108	6	Critical to service	No Redundancy	4
124	6	Critical to service	No Redundancy	4
369	6	Critical to service	No Redundancy	4
6	7	Critical to service	No Redundancy	4
12	7	Critical to service	No Redundancy	4
25	7	Critical to service	No Redundancy	4
26	7	Critical to service	No Redundancy	4
27	7	Critical to service	No Redundancy	4
33	7	Critical to service	No Redundancy	4
123	7	Critical to service	No Redundancy	4
126	7	Critical to service	No Redundancy	4
169	7	Critical to service	No Redundancy	4
171	7	Critical to service	No Redundancy	4
172	7	Critical to service	No Redundancy	4
173	7	Critical to service	No Redundancy	4
174	7	Critical to service	No Redundancy	4
175	7	Critical to service	No Redundancy	4
176	7	Critical to service	No Redundancy	4
211	7	Critical to service	No Redundancy	4
212	7	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
46	8	Critical to service	No Redundancy	4
130	8	Critical to service	No Redundancy	4
131	8	Critical to service	No Redundancy	4
132	8	Critical to service	No Redundancy	4
135	8	Critical to service	No Redundancy	4
136	8	Critical to service	No Redundancy	4
177	8	Critical to service	No Redundancy	4
178	8	Critical to service	No Redundancy	4
8	9	Critical to service	No Redundancy	4
11	9	Critical to service	No Redundancy	4
24	9	Critical to service	No Redundancy	4
44	9	Critical to service	No Redundancy	4
45	9	Critical to service	No Redundancy	4
57	9	Critical to service	No Redundancy	4
58	9	Critical to service	No Redundancy	4
15	10	Critical to service	No Redundancy	4
16	10	Critical to service	No Redundancy	4
17	10	Critical to service	No Redundancy	4
18	10	Critical to service	No Redundancy	4
19	10	Critical to service	No Redundancy	4
20	10	Critical to service	No Redundancy	4
21	10	Critical to service	No Redundancy	4
22	10	Critical to service	No Redundancy	4
23	10	Critical to service	No Redundancy	4
37	10	Critical to service	No Redundancy	4
38	10	Critical to service	No Redundancy	4
42	10	Critical to service	No Redundancy	4
43	10	Critical to service	No Redundancy	4
54	10	Critical to service	No Redundancy	4
55	10	Critical to service	No Redundancy	4
224	10	Critical to service	No Redundancy	4
258	10	Critical to service	No Redundancy	4
259	10	Critical to service	No Redundancy	4
260	10	Critical to service	No Redundancy	4
261	10	Critical to service	No Redundancy	4
262	10	Critical to service	No Redundancy	4
263	10	Critical to service	No Redundancy	4
264	10	Critical to service	No Redundancy	4
265	10	Critical to service	No Redundancy	4
330	10	Critical to service	No Redundancy	4
331	10	Critical to service	No Redundancy	4
332	10	Critical to service	No Redundancy	4
10	11	Critical to service	No Redundancy	4
47	11	Critical to service	No Redundancy	4
48	11	Critical to service	No Redundancy	4
49	11	Critical to service	No Redundancy	4
50	11	Critical to service	No Redundancy	4
51	11	Critical to service	No Redundancy	4
52	11	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
53	11	Critical to service	No Redundancy	4
56	11	Critical to service	No Redundancy	4
59	11	Critical to service	No Redundancy	4
60	11	Critical to service	No Redundancy	4
61	11	Critical to service	No Redundancy	4
63	11	Critical to service	No Redundancy	4
64	11	Critical to service	No Redundancy	4
65	11	Critical to service	No Redundancy	4
66	11	Critical to service	No Redundancy	4
67	11	Critical to service	No Redundancy	4
68	11	Critical to service	No Redundancy	4
69	11	Critical to service	No Redundancy	4
70	11	Critical to service	No Redundancy	4
71	11	Critical to service	No Redundancy	4
73	11	Critical to service	No Redundancy	4
75	11	Critical to service	No Redundancy	4
168	11	Critical to service	No Redundancy	4
214	11	Critical to service	No Redundancy	4
215	11	Critical to service	No Redundancy	4
216	11	Critical to service	No Redundancy	4
218	11	Critical to service	No Redundancy	4
232	11	Critical to service	No Redundancy	4
233	11	Critical to service	No Redundancy	4
234	11	Critical to service	No Redundancy	4
235	11	Critical to service	No Redundancy	4
239	11	Critical to service	No Redundancy	4
240	11	Critical to service	No Redundancy	4
333	11	Critical to service	No Redundancy	4
361	11	Critical to service	No Redundancy	4
62	12	Critical to service	No Redundancy	4
74	12	Critical to service	No Redundancy	4
145	12	Critical to service	No Redundancy	4
146	12	Critical to service	No Redundancy	4
147	12	Critical to service	No Redundancy	4
148	12	Critical to service	No Redundancy	4
149	12	Critical to service	No Redundancy	4
150	12	Critical to service	No Redundancy	4
151	12	Critical to service	No Redundancy	4
152	12	Critical to service	No Redundancy	4
153	12	Critical to service	No Redundancy	4
154	12	Critical to service	No Redundancy	4
155	12	Critical to service	No Redundancy	4
156	12	Critical to service	No Redundancy	4
157	12	Critical to service	No Redundancy	4
158	12	Critical to service	No Redundancy	4
159	12	Critical to service	No Redundancy	4
160	12	Critical to service	No Redundancy	4
161	12	Critical to service	No Redundancy	4
162	12	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
167	12	Critical to service	No Redundancy	4
231	12	Critical to service	No Redundancy	4
350	12	Critical to service	No Redundancy	4
351	12	Critical to service	No Redundancy	4
163	13	Critical to service	No Redundancy	4
164	13	Critical to service	No Redundancy	4
165	13	Critical to service	No Redundancy	4
166	13	Critical to service	No Redundancy	4
219	13	Critical to service	No Redundancy	4
220	13	Critical to service	No Redundancy	4
221	13	Critical to service	No Redundancy	4
222	13	Critical to service	No Redundancy	4
223	13	Critical to service	No Redundancy	4
225	13	Critical to service	No Redundancy	4
226	13	Critical to service	No Redundancy	4
227	13	Critical to service	No Redundancy	4
228	13	Critical to service	No Redundancy	4
229	13	Critical to service	No Redundancy	4
310	13	Critical to service	No Redundancy	4
324	13	Critical to service	No Redundancy	4
72	14	Critical to service	No Redundancy	4
272	14	Critical to service	No Redundancy	4
274	14	Critical to service	No Redundancy	4
275	14	Critical to service	No Redundancy	4
276	14	Critical to service	No Redundancy	4
277	14	Critical to service	No Redundancy	4
278	14	Critical to service	No Redundancy	4
279	14	Critical to service	No Redundancy	4
280	14	Critical to service	No Redundancy	4
281	14	Critical to service	No Redundancy	4
282	14	Critical to service	No Redundancy	4
283	14	Critical to service	No Redundancy	4
284	14	Critical to service	No Redundancy	4
285	14	Critical to service	No Redundancy	4
286	14	Critical to service	No Redundancy	4
287	14	Critical to service	No Redundancy	4
288	14	Critical to service	No Redundancy	4
289	14	Critical to service	No Redundancy	4
290	14	Critical to service	No Redundancy	4
291	14	Critical to service	No Redundancy	4
292	14	Critical to service	No Redundancy	4
293	14	Critical to service	No Redundancy	4
301	14	Critical to service	No Redundancy	4
302	14	Critical to service	No Redundancy	4
303	14	Critical to service	No Redundancy	4
326	14	Critical to service	No Redundancy	4
327	14	Critical to service	No Redundancy	4
329	14	Critical to service	No Redundancy	4
376	14	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
377	14	Critical to service	No Redundancy	4
378	14	Critical to service	No Redundancy	4
379	14	Critical to service	No Redundancy	4
380	14	Critical to service	No Redundancy	4
381	14	Critical to service	No Redundancy	4
382	14	Critical to service	No Redundancy	4
383	14	Critical to service	No Redundancy	4
384	14	Critical to service	No Redundancy	4
385	14	Critical to service	No Redundancy	4
386	14	Critical to service	No Redundancy	4
76	15	Critical to service	No Redundancy	4
77	15	Critical to service	No Redundancy	4
78	15	Critical to service	No Redundancy	4
79	15	Critical to service	No Redundancy	4
237	15	Critical to service	No Redundancy	4
242	15	Critical to service	No Redundancy	4
243	15	Critical to service	No Redundancy	4
244	15	Critical to service	No Redundancy	4
245	15	Critical to service	No Redundancy	4
247	15	Critical to service	No Redundancy	4
248	15	Critical to service	No Redundancy	4
249	15	Critical to service	No Redundancy	4
251	15	Critical to service	No Redundancy	4
252	15	Critical to service	No Redundancy	4
253	15	Critical to service	No Redundancy	4
254	15	Critical to service	No Redundancy	4
255	15	Critical to service	No Redundancy	4
256	15	Critical to service	No Redundancy	4
266	15	Critical to service	No Redundancy	4
267	15	Critical to service	No Redundancy	4
349	15	Critical to service	No Redundancy	4
371	15	Critical to service	No Redundancy	4
295	16	Critical to service	No Redundancy	4
296	16	Critical to service	No Redundancy	4
297	16	Critical to service	No Redundancy	4
298	16	Critical to service	No Redundancy	4
304	16	Critical to service	No Redundancy	4
305	16	Critical to service	No Redundancy	4
306	16	Critical to service	No Redundancy	4
307	16	Critical to service	No Redundancy	4
328	16	Critical to service	No Redundancy	4
308	17	Critical to service	No Redundancy	4
309	17	Critical to service	No Redundancy	4
311	17	Critical to service	No Redundancy	4
312	17	Critical to service	No Redundancy	4
313	17	Critical to service	No Redundancy	4
314	17	Critical to service	No Redundancy	4
318	17	Critical to service	No Redundancy	4
319	17	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet				
Date Worksheet Completed/Updated: 10/30/15				
Asset	**Remaining Useful Life**	**Importance**	**Redundancy**	**Priority (1 is high)**
320	17	Critical to service	No Redundancy	4
321	17	Critical to service	No Redundancy	4
322	17	Critical to service	No Redundancy	4
323	17	Critical to service	No Redundancy	4
337	17	Critical to service	No Redundancy	4
338	17	Critical to service	No Redundancy	4
339	17	Critical to service	No Redundancy	4
340	17	Critical to service	No Redundancy	4
341	17	Critical to service	No Redundancy	4
342	17	Critical to service	No Redundancy	4
343	17	Critical to service	No Redundancy	4
344	17	Critical to service	No Redundancy	4
345	17	Critical to service	No Redundancy	4
358	17	Critical to service	No Redundancy	4
359	17	Critical to service	No Redundancy	4
360	17	Critical to service	No Redundancy	4
315	18	Critical to service	No Redundancy	4
316	18	Critical to service	No Redundancy	4
317	18	Critical to service	No Redundancy	4
325	18	Critical to service	No Redundancy	4
334	18	Critical to service	No Redundancy	4
335	18	Critical to service	No Redundancy	4
336	18	Critical to service	No Redundancy	4
346	18	Critical to service	No Redundancy	4
347	18	Critical to service	No Redundancy	4
348	18	Critical to service	No Redundancy	4
352	18	Critical to service	No Redundancy	4
353	18	Critical to service	No Redundancy	4
354	18	Critical to service	No Redundancy	4
355	18	Critical to service	No Redundancy	4
356	18	Critical to service	No Redundancy	4
357	18	Critical to service	No Redundancy	4
388	18	Critical to service	No Redundancy	4
362	19	Critical to service	No Redundancy	4
363	19	Critical to service	No Redundancy	4
364	19	Critical to service	No Redundancy	4
365	19	Critical to service	No Redundancy	4
366	19	Critical to service	No Redundancy	4
367	19	Critical to service	No Redundancy	4
368	19	Critical to service	No Redundancy	4
372	20	Critical to service	No Redundancy	4
373	20	Critical to service	No Redundancy	4
374	20	Critical to service	No Redundancy	4
375	20	Critical to service	No Redundancy	4
387	20	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1375	PVC	12	45	Critical to service	No Redundancy	4
1376	PVC	12	45	Critical to service	No Redundancy	4
1377	PVC	6	45	Critical to service	No Redundancy	4
1378	PVC	6	45	Critical to service	No Redundancy	4
1379	PVC	6	45	Critical to service	No Redundancy	4
1380	PVC	6	45	Critical to service	No Redundancy	4
1381	PVC	6	45	Critical to service	No Redundancy	4
1382	PVC	6	45	Critical to service	No Redundancy	4
1383	PVC	6	45	Critical to service	No Redundancy	4
1384	PVC	6	45	Critical to service	No Redundancy	4
1385	PVC	12	45	Critical to service	No Redundancy	4
1386	PVC	12	45	Critical to service	No Redundancy	4
1387	PVC	12	45	Critical to service	No Redundancy	4
1388	PVC	10	45	Critical to service	No Redundancy	4
1389	PVC	10	45	Critical to service	No Redundancy	4
1390	PVC	12	45	Critical to service	No Redundancy	4
1391	PVC	6	46	Critical to service	No Redundancy	4
1392	PVC	6	46	Critical to service	No Redundancy	4
1393	PVC	6	46	Critical to service	No Redundancy	4
1394	PVC	6	46	Critical to service	No Redundancy	4
1395	PVC	4	46	Critical to service	No Redundancy	4
1397	PVC	6	46	Critical to service	No Redundancy	4
1398	PVC	6	46	Critical to service	No Redundancy	4
1399	PVC	4	46	Critical to service	No Redundancy	4
1400	PVC	6	46	Critical to service	No Redundancy	4
1401	PVC	12	46	Critical to service	No Redundancy	4
1402	PVC	8	46	Critical to service	No Redundancy	4
1403	PVC	6	46	Critical to service	No Redundancy	4
1404	PVC	6	46	Critical to service	No Redundancy	4
1405	PVC	6	46	Critical to service	No Redundancy	4
1406	PVC	6	46	Critical to service	No Redundancy	4
1407	PVC	6	46	Critical to service	No Redundancy	4
1408	PVC	6	46	Critical to service	No Redundancy	4
1409	PVC	6	46	Critical to service	No Redundancy	4
1410	PVC	6	46	Critical to service	No Redundancy	4
1411	PVC	6	46	Critical to service	No Redundancy	4
1412	PVC	8	46	Critical to service	No Redundancy	4
1413	PVC	6	46	Critical to service	No Redundancy	4
1414	PVC	4	46	Critical to service	No Redundancy	4
1415	PVC	6	46	Critical to service	No Redundancy	4
1416	PVC	4	46	Critical to service	No Redundancy	4
1417	PVC	6	46	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1418	PVC	4	46	Critical to service	No Redundancy	4
1420	PVC	8	46	Critical to service	No Redundancy	4
1421	PVC	4	46	Critical to service	No Redundancy	4
1422	PVC	4	46	Critical to service	No Redundancy	4
1423	PVC	4	46	Critical to service	No Redundancy	4
1424	PVC	4	46	Critical to service	No Redundancy	4
1425	PVC	4	46	Critical to service	No Redundancy	4
1426	PVC	6	46	Critical to service	No Redundancy	4
1427	PVC	4	46	Critical to service	No Redundancy	4
1428	PVC	4	46	Critical to service	No Redundancy	4
1429	PVC	4	46	Critical to service	No Redundancy	4
1433	PVC	6	46	Critical to service	No Redundancy	4
1434	PVC	12	46	Critical to service	No Redundancy	4
1436	PVC	8	46	Critical to service	No Redundancy	4
1437	PVC	12	45	Critical to service	No Redundancy	4
1438	PVC	10	43	Critical to service	No Redundancy	4
1439	PVC	8	44	Critical to service	No Redundancy	4
1440	PVC	8	44	Critical to service	No Redundancy	4
1441	PVC	8	44	Critical to service	No Redundancy	4
1442	PVC	8	44	Critical to service	No Redundancy	4
1443	PVC	8	44	Critical to service	No Redundancy	4
1444	PVC	8	44	Critical to service	No Redundancy	4
1445	PVC	4	46	Critical to service	No Redundancy	4
1446	PVC	12	46	Critical to service	No Redundancy	4
1447	PVC	12	46	Critical to service	No Redundancy	4
1448	PVC	6	46	Critical to service	No Redundancy	4
1449	PVC	12	46	Critical to service	No Redundancy	4
1450	PVC	6	46	Critical to service	No Redundancy	4
1452	PVC	12	46	Critical to service	No Redundancy	4
1453	PVC	6	46	Critical to service	No Redundancy	4
1455	PVC	6	45	Critical to service	No Redundancy	4
1456	PVC	12	45	Critical to service	No Redundancy	4
1457	PVC	12	45	Critical to service	No Redundancy	4
1458	PVC	6	45	Critical to service	No Redundancy	4
1459	PVC	4	45	Critical to service	No Redundancy	4
1460	PVC	12	45	Critical to service	No Redundancy	4
1461	PVC	6	45	Critical to service	No Redundancy	4
1462	PVC	12	45	Critical to service	No Redundancy	4
1463	PVC	12	45	Critical to service	No Redundancy	4
1464	PVC	12	45	Critical to service	No Redundancy	4
1465	PVC	12	45	Critical to service	No Redundancy	4
1466	PVC	6	45	Critical to service	No Redundancy	4
1467	PVC	12	45	Critical to service	No Redundancy	4
1468	PVC	30	45	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1469	PVC	30	45	Critical to service	No Redundancy	4
1470	PVC	6	45	Critical to service	No Redundancy	4
1471	PVC	6	45	Critical to service	No Redundancy	4
1472	PVC	6	45	Critical to service	No Redundancy	4
1473	PVC	4	45	Critical to service	No Redundancy	4
1474	PVC	6	45	Critical to service	No Redundancy	4
1475	PVC	6	45	Critical to service	No Redundancy	4
1476	PVC	6	45	Critical to service	No Redundancy	4
1477	PVC	30	45	Critical to service	No Redundancy	4
1478	PVC	12	45	Critical to service	No Redundancy	4
1480	PVC	12	45	Critical to service	No Redundancy	4
1481	PVC	8	31	Critical to service	No Redundancy	4
1482	PVC	8	31	Critical to service	No Redundancy	4
1483	DIP	20	27	Critical to service	No Redundancy	4
1485	PVC	6	43	Critical to service	No Redundancy	4
1486	PVC	6	43	Critical to service	No Redundancy	4
1487	PVC	6	39	Critical to service	No Redundancy	4
1488	PVC	12	37	Critical to service	No Redundancy	4
1489	PVC	8	31	Critical to service	No Redundancy	4
1490	PVC	4	32	Critical to service	No Redundancy	4
1491	PVC	6	43	Critical to service	No Redundancy	4
1492	PVC	6	43	Critical to service	No Redundancy	4
1493	PVC	6	43	Critical to service	No Redundancy	4
1494	PVC	6	43	Critical to service	No Redundancy	4
1495	PVC	6	43	Critical to service	No Redundancy	4
1496	PVC	6	43	Critical to service	No Redundancy	4
1497	PVC	6	43	Critical to service	No Redundancy	4
1498	PVC	6	43	Critical to service	No Redundancy	4
1499	PVC	10	45	Critical to service	No Redundancy	4
1500	PVC	10	45	Critical to service	No Redundancy	4
1501	PVC	8	45	Critical to service	No Redundancy	4
1502	PVC	10	45	Critical to service	No Redundancy	4
1503	PVC	10	44	Critical to service	No Redundancy	4
1504	PVC	10	44	Critical to service	No Redundancy	4
1505	PVC	10	44	Critical to service	No Redundancy	4
1506	PVC	10	44	Critical to service	No Redundancy	4
1507	PVC	10	44	Critical to service	No Redundancy	4
1508	PVC	4	44	Critical to service	No Redundancy	4
1509	PVC	1	44	Critical to service	No Redundancy	4
1510	PVC	1	44	Critical to service	No Redundancy	4
1511	PVC	1	44	Critical to service	No Redundancy	4
1512	PVC	1	44	Critical to service	No Redundancy	4
1513	PVC	1	44	Critical to service	No Redundancy	4
1514	PVC	1	44	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1515	PVC	1	44	Critical to service	No Redundancy	4
1516	PVC	1	44	Critical to service	No Redundancy	4
1517	PVC	1	44	Critical to service	No Redundancy	4
1518	PVC	1	44	Critical to service	No Redundancy	4
1519	PVC	1	44	Critical to service	No Redundancy	4
1520	PVC	1	44	Critical to service	No Redundancy	4
1521	PVC	1	44	Critical to service	No Redundancy	4
1522	PVC	1	44	Critical to service	No Redundancy	4
1523	PVC	1	44	Critical to service	No Redundancy	4
1524	PVC	1	44	Critical to service	No Redundancy	4
1525	PVC	1	44	Critical to service	No Redundancy	4
1526	PVC	1	44	Critical to service	No Redundancy	4
1527	PVC	1	44	Critical to service	No Redundancy	4
1528	PVC	1	44	Critical to service	No Redundancy	4
1529	PVC	1	44	Critical to service	No Redundancy	4
1530	PVC	1	44	Critical to service	No Redundancy	4
1531	PVC	1	44	Critical to service	No Redundancy	4
1532	PVC	1	44	Critical to service	No Redundancy	4
1533	PVC	1	44	Critical to service	No Redundancy	4
1534	PVC	1	44	Critical to service	No Redundancy	4
1535	PVC	1	44	Critical to service	No Redundancy	4
1536	PVC	1	44	Critical to service	No Redundancy	4
1537	PVC	1	44	Critical to service	No Redundancy	4
1538	PVC	1	44	Critical to service	No Redundancy	4
1539	PVC	1	44	Critical to service	No Redundancy	4
1540	PVC	1	44	Critical to service	No Redundancy	4
1541	PVC	1	44	Critical to service	No Redundancy	4
1542	PVC	1	44	Critical to service	No Redundancy	4
1543	PVC	1	44	Critical to service	No Redundancy	4
1544	PVC	1	44	Critical to service	No Redundancy	4
1545	PVC	1	44	Critical to service	No Redundancy	4
1546	PVC	1	44	Critical to service	No Redundancy	4
1547	PVC	1	44	Critical to service	No Redundancy	4
1548	PVC	1	44	Critical to service	No Redundancy	4
1549	PVC	1	44	Critical to service	No Redundancy	4
1550	PVC	1	44	Critical to service	No Redundancy	4
1551	PVC	1	44	Critical to service	No Redundancy	4
1552	PVC	1	44	Critical to service	No Redundancy	4
1553	PVC	1	44	Critical to service	No Redundancy	4
1554	PVC	1	44	Critical to service	No Redundancy	4
1555	PVC	1	44	Critical to service	No Redundancy	4
1556	PVC	6	44	Critical to service	No Redundancy	4
1558	PVC	4	44	Critical to service	No Redundancy	4
1559	PVC	6	44	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1560	PVC	6	44	Critical to service	No Redundancy	4
1561	PVC	6	44	Critical to service	No Redundancy	4
1562	PVC	6	44	Critical to service	No Redundancy	4
1563	PVC	8	42	Critical to service	No Redundancy	4
1564	PVC	8	40	Critical to service	No Redundancy	4
1565	PVC	8	42	Critical to service	No Redundancy	4
1566	PVC	8	42	Critical to service	No Redundancy	4
1567	PVC	12	42	Critical to service	No Redundancy	4
1568	DIP	24	27	Critical to service	No Redundancy	4
1569	DIP	24	27	Critical to service	No Redundancy	4
1570	DIP	14	27	Critical to service	No Redundancy	4
1571	DIP	8	27	Critical to service	No Redundancy	4
1572	DIP	8	27	Critical to service	No Redundancy	4
1573	DIP	12	27	Critical to service	No Redundancy	4
1574	DIP	12	27	Critical to service	No Redundancy	4
1575	DIP	12	27	Critical to service	No Redundancy	4
1576	DIP	8	27	Critical to service	No Redundancy	4
1577	DIP	12	27	Critical to service	No Redundancy	4
1578	DIP	14	27	Critical to service	No Redundancy	4
1579	DIP	14	27	Critical to service	No Redundancy	4
1580	DIP	20	27	Critical to service	No Redundancy	4
1581	DIP	20	27	Critical to service	No Redundancy	4
1582	DIP	20	27	Critical to service	No Redundancy	4
1583	DIP	20	27	Critical to service	No Redundancy	4
1584	DIP	20	27	Critical to service	No Redundancy	4
1585	DIP	14	27	Critical to service	No Redundancy	4
1586	DIP	20	27	Critical to service	No Redundancy	4
1587	DIP	12	27	Critical to service	No Redundancy	4
1588	DIP	20	27	Critical to service	No Redundancy	4
1589	DIP	20	27	Critical to service	No Redundancy	4
1590	DIP	14	27	Critical to service	No Redundancy	4
1591	DIP	24	27	Critical to service	No Redundancy	4
1592	PVC	6	44	Critical to service	No Redundancy	4
1593	PVC	6	44	Critical to service	No Redundancy	4
1594	PVC	10	44	Critical to service	No Redundancy	4
1595	PVC	10	44	Critical to service	No Redundancy	4
1596	PVC	10	44	Critical to service	No Redundancy	4
1597	PVC	6	44	Critical to service	No Redundancy	4
1598	PVC	8	44	Critical to service	No Redundancy	4
1599	PVC	12	44	Critical to service	No Redundancy	4
1601	PVC	12	44	Critical to service	No Redundancy	4
1602	PVC	6	44	Critical to service	No Redundancy	4
1603	PVC	12	44	Critical to service	No Redundancy	4
1604	PVC	12	44	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1605	PVC	8	40	Critical to service	No Redundancy	4
1606	PVC	6	44	Critical to service	No Redundancy	4
1607	PVC	12	44	Critical to service	No Redundancy	4
1608	PVC	8	43	Critical to service	No Redundancy	4
1609	PVC	8	43	Critical to service	No Redundancy	4
1610	PVC	8	43	Critical to service	No Redundancy	4
1611	PVC	8	43	Critical to service	No Redundancy	4
1612	PVC	8	43	Critical to service	No Redundancy	4
1613	PVC	8	43	Critical to service	No Redundancy	4
1614	PVC	8	43	Critical to service	No Redundancy	4
1615	PVC	8	43	Critical to service	No Redundancy	4
1616	PVC	8	43	Critical to service	No Redundancy	4
1617	PVC	8	43	Critical to service	No Redundancy	4
1618	PVC	8	43	Critical to service	No Redundancy	4
1619	PVC	8	43	Critical to service	No Redundancy	4
1620	PVC	8	43	Critical to service	No Redundancy	4
1621	PVC	10	43	Critical to service	No Redundancy	4
1622	PVC	10	43	Critical to service	No Redundancy	4
1623	PVC	10	43	Critical to service	No Redundancy	4
1624	PVC	10	43	Critical to service	No Redundancy	4
1625	PVC	6	43	Critical to service	No Redundancy	4
1626	PVC	10	43	Critical to service	No Redundancy	4
1627	PVC	10	43	Critical to service	No Redundancy	4
1628	PVC	10	43	Critical to service	No Redundancy	4
1629	PVC	6	43	Critical to service	No Redundancy	4
1630	PVC	6	43	Critical to service	No Redundancy	4
1631	PVC	6	43	Critical to service	No Redundancy	4
1632	PVC	6	43	Critical to service	No Redundancy	4
1633	PVC	6	43	Critical to service	No Redundancy	4
1634	PVC	6	43	Critical to service	No Redundancy	4
1635	PVC	6	43	Critical to service	No Redundancy	4
1636	PVC	6	43	Critical to service	No Redundancy	4
1637	PVC	6	43	Critical to service	No Redundancy	4
1638	PVC	6	43	Critical to service	No Redundancy	4
1639	PVC	8	43	Critical to service	No Redundancy	4
1640	PVC	6	43	Critical to service	No Redundancy	4
1641	PVC	6	43	Critical to service	No Redundancy	4
1642	PVC	6	43	Critical to service	No Redundancy	4
1643	PVC	6	43	Critical to service	No Redundancy	4
1644	PVC	6	43	Critical to service	No Redundancy	4
1645	PVC	6	43	Critical to service	No Redundancy	4
1646	PVC	6	43	Critical to service	No Redundancy	4
1647	PVC	6	43	Critical to service	No Redundancy	4
1648	PVC	6	46	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1649	PVC	6	46	Critical to service	No Redundancy	4
1650	PVC	6	43	Critical to service	No Redundancy	4
1651	PVC	6	43	Critical to service	No Redundancy	4
1652	PVC	6	43	Critical to service	No Redundancy	4
1653	DIP	30	38	Critical to service	No Redundancy	4
1654	DIP	30	38	Critical to service	No Redundancy	4
1655	PVC	12	43	Critical to service	No Redundancy	4
1656	PVC	3	42	Critical to service	No Redundancy	4
1657	PVC	1	43	Critical to service	No Redundancy	4
1658	PVC	1	43	Critical to service	No Redundancy	4
1659	PVC	1	43	Critical to service	No Redundancy	4
1660	PVC	1	43	Critical to service	No Redundancy	4
1661	PVC	1	43	Critical to service	No Redundancy	4
1662	PVC	1	43	Critical to service	No Redundancy	4
1663	PVC	1	43	Critical to service	No Redundancy	4
1664	PVC	1	43	Critical to service	No Redundancy	4
1665	PVC	1	43	Critical to service	No Redundancy	4
1666	PVC	1	43	Critical to service	No Redundancy	4
1667	PVC	1	43	Critical to service	No Redundancy	4
1668	PVC	1	43	Critical to service	No Redundancy	4
1669	PVC	1	43	Critical to service	No Redundancy	4
1670	PVC	1	43	Critical to service	No Redundancy	4
1671	PVC	1	43	Critical to service	No Redundancy	4
1672	PVC	1	43	Critical to service	No Redundancy	4
1673	PVC	1	43	Critical to service	No Redundancy	4
1674	PVC	1	43	Critical to service	No Redundancy	4
1675	PVC	1	43	Critical to service	No Redundancy	4
1676	PVC	1	43	Critical to service	No Redundancy	4
1677	PVC	1	43	Critical to service	No Redundancy	4
1678	PVC	1	43	Critical to service	No Redundancy	4
1679	PVC	1	43	Critical to service	No Redundancy	4
1680	PVC	1	43	Critical to service	No Redundancy	4
1681	PVC	1	43	Critical to service	No Redundancy	4
1682	PVC	1	43	Critical to service	No Redundancy	4
1683	PVC	1	43	Critical to service	No Redundancy	4
1684	PVC	1	43	Critical to service	No Redundancy	4
1685	PVC	1	43	Critical to service	No Redundancy	4
1686	PVC	1	43	Critical to service	No Redundancy	4
1687	PVC	1	43	Critical to service	No Redundancy	4
1688	PVC	1	43	Critical to service	No Redundancy	4
1689	PVC	1	43	Critical to service	No Redundancy	4
1690	PVC	1	43	Critical to service	No Redundancy	4
1691	PVC	1	43	Critical to service	No Redundancy	4
1692	PVC	1	43	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1693	PVC	1	43	Critical to service	No Redundancy	4
1694	PVC	1	43	Critical to service	No Redundancy	4
1695	PVC	1	43	Critical to service	No Redundancy	4
1696	PVC	1	43	Critical to service	No Redundancy	4
1697	PVC	1	43	Critical to service	No Redundancy	4
1698	PVC	1	43	Critical to service	No Redundancy	4
1699	PVC	1	43	Critical to service	No Redundancy	4
1700	PVC	6	43	Critical to service	No Redundancy	4
1701	PVC	6	43	Critical to service	No Redundancy	4
1702	PVC	6	43	Critical to service	No Redundancy	4
1703	PVC	6	43	Critical to service	No Redundancy	4
1704	PVC	6	43	Critical to service	No Redundancy	4
1705	PVC	6	43	Critical to service	No Redundancy	4
1706	PVC	6	43	Critical to service	No Redundancy	4
1707	PVC	12	42	Critical to service	No Redundancy	4
1708	PVC	12	42	Critical to service	No Redundancy	4
1709	PVC	12	42	Critical to service	No Redundancy	4
1710	PVC	12	42	Critical to service	No Redundancy	4
1711	PVC	6	42	Critical to service	No Redundancy	4
1712	PVC	8	42	Critical to service	No Redundancy	4
1713	PVC	8	42	Critical to service	No Redundancy	4
1714	PVC	6	42	Critical to service	No Redundancy	4
1715	PVC	8	42	Critical to service	No Redundancy	4
1716	PVC	6	42	Critical to service	No Redundancy	4
1717	PVC	6	40	Critical to service	No Redundancy	4
1718	PVC	6	37	Critical to service	No Redundancy	4
1719	PVC	8	37	Critical to service	No Redundancy	4
1720	PVC	4	37	Critical to service	No Redundancy	4
1721	PVC	8	37	Critical to service	No Redundancy	4
1722	PVC	6	39	Critical to service	No Redundancy	4
1723	PVC	4	39	Critical to service	No Redundancy	4
1724	PVC	6	39	Critical to service	No Redundancy	4
1725	PVC	6	39	Critical to service	No Redundancy	4
1726	PVC	4	39	Critical to service	No Redundancy	4
1727	PVC	6	39	Critical to service	No Redundancy	4
1728	PVC	6	39	Critical to service	No Redundancy	4
1729	PVC	6	39	Critical to service	No Redundancy	4
1730	PVC	6	40	Critical to service	No Redundancy	4
1731	PVC	6	40	Critical to service	No Redundancy	4
1732	PVC	6	40	Critical to service	No Redundancy	4
1733	PVC	6	37	Critical to service	No Redundancy	4
1734	PVC	6	37	Critical to service	No Redundancy	4
1735	PVC	6	37	Critical to service	No Redundancy	4
1736	PVC	6	37	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1737	PVC	6	37	Critical to service	No Redundancy	4
1738	PVC	6	37	Critical to service	No Redundancy	4
1739	PVC	8	40	Critical to service	No Redundancy	4
1740	PVC	8	40	Critical to service	No Redundancy	4
1741	PVC	8	40	Critical to service	No Redundancy	4
1742	PVC	6	40	Critical to service	No Redundancy	4
1743	PVC	4	33	Critical to service	No Redundancy	4
1744	PVC	4	33	Critical to service	No Redundancy	4
1745	PVC	6	33	Critical to service	No Redundancy	4
1746	PVC	4	33	Critical to service	No Redundancy	4
1747	PVC	4	33	Critical to service	No Redundancy	4
1748	PVC	6	33	Critical to service	No Redundancy	4
1749	PVC	4	40	Critical to service	No Redundancy	4
1750	PVC	4	40	Critical to service	No Redundancy	4
1751	PVC	4	40	Critical to service	No Redundancy	4
1752	PVC	4	38	Critical to service	No Redundancy	4
1753	PVC	4	38	Critical to service	No Redundancy	4
1754	PVC	4	38	Critical to service	No Redundancy	4
1755	PVC	6	38	Critical to service	No Redundancy	4
1756	PVC	6	38	Critical to service	No Redundancy	4
1757	PVC	6	38	Critical to service	No Redundancy	4
1758	PVC	6	38	Critical to service	No Redundancy	4
1759	PVC	4	38	Critical to service	No Redundancy	4
1760	PVC	6	38	Critical to service	No Redundancy	4
1761	PVC	6	38	Critical to service	No Redundancy	4
1762	PVC	6	38	Critical to service	No Redundancy	4
1763	PVC	6	38	Critical to service	No Redundancy	4
1764	PVC	6	38	Critical to service	No Redundancy	4
1765	PVC	6	38	Critical to service	No Redundancy	4
1766	PVC	12	38	Critical to service	No Redundancy	4
1767	PVC	12	38	Critical to service	No Redundancy	4
1768	PVC	12	39	Critical to service	No Redundancy	4
1769	PVC	8	39	Critical to service	No Redundancy	4
1770	PVC	12	39	Critical to service	No Redundancy	4
1771	PVC	12	39	Critical to service	No Redundancy	4
1773	PVC	8	37	Critical to service	No Redundancy	4
1774	PVC	8	36	Critical to service	No Redundancy	4
1775	PVC	8	36	Critical to service	No Redundancy	4
1776	PVC	8	36	Critical to service	No Redundancy	4
1777	PVC	8	36	Critical to service	No Redundancy	4
1778	PVC	8	31	Critical to service	No Redundancy	4
1779	PVC	8	31	Critical to service	No Redundancy	4
1780	PVC	8	31	Critical to service	No Redundancy	4
1781	PVC	8	31	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1782	PVC	8	31	Critical to service	No Redundancy	4
1783	PVC	8	31	Critical to service	No Redundancy	4
1784	PVC	8	31	Critical to service	No Redundancy	4
1785	PVC	8	31	Critical to service	No Redundancy	4
1786	PVC	8	31	Critical to service	No Redundancy	4
1787	PVC	8	31	Critical to service	No Redundancy	4
1788	PVC	6	42	Critical to service	No Redundancy	4
1789	PVC	6	42	Critical to service	No Redundancy	4
1790	PVC	6	42	Critical to service	No Redundancy	4
1791	PVC	6	42	Critical to service	No Redundancy	4
1792	PVC	10	42	Critical to service	No Redundancy	4
1793	PVC	12	42	Critical to service	No Redundancy	4
1794	PVC	12	41	Critical to service	No Redundancy	4
1795	PVC	12	41	Critical to service	No Redundancy	4
1796	PVC	12	41	Critical to service	No Redundancy	4
1797	PVC	6	42	Critical to service	No Redundancy	4
1798	PVC	12	42	Critical to service	No Redundancy	4
1799	PVC	12	42	Critical to service	No Redundancy	4
1800	PVC	6	42	Critical to service	No Redundancy	4
1801	PVC	6	42	Critical to service	No Redundancy	4
1802	PVC	6	42	Critical to service	No Redundancy	4
1803	PVC	12	42	Critical to service	No Redundancy	4
1804	PVC	12	42	Critical to service	No Redundancy	4
1805	PVC	12	42	Critical to service	No Redundancy	4
1806	PVC	6	42	Critical to service	No Redundancy	4
1807	PVC	6	42	Critical to service	No Redundancy	4
1808	PVC	6	42	Critical to service	No Redundancy	4
1809	PVC	6	42	Critical to service	No Redundancy	4
1810	PVC	10	42	Critical to service	No Redundancy	4
1811	PVC	10	42	Critical to service	No Redundancy	4
1812	PVC	10	42	Critical to service	No Redundancy	4
1813	PVC	10	42	Critical to service	No Redundancy	4
1814	PVC	10	42	Critical to service	No Redundancy	4
1815	PVC	10	40	Critical to service	No Redundancy	4
1816	PVC	10	40	Critical to service	No Redundancy	4
1817	PVC	10	40	Critical to service	No Redundancy	4
1818	PVC	10	40	Critical to service	No Redundancy	4
1819	PVC	10	40	Critical to service	No Redundancy	4
1820	PVC	10	37	Critical to service	No Redundancy	4
1821	PVC	12	38	Critical to service	No Redundancy	4
1822	PVC	8	38	Critical to service	No Redundancy	4
1823	PVC	12	38	Critical to service	No Redundancy	4
1824	PVC	12	38	Critical to service	No Redundancy	4
1825	PVC	12	38	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1826	DIP	20	33	Critical to service	No Redundancy	4
1827	PVC	12	38	Critical to service	No Redundancy	4
1828	DIP	20	33	Critical to service	No Redundancy	4
1829	PVC	12	38	Critical to service	No Redundancy	4
1830	DIP	20	33	Critical to service	No Redundancy	4
1831	PVC	12	38	Critical to service	No Redundancy	4
1832	DIP	20	33	Critical to service	No Redundancy	4
1833	PVC	12	38	Critical to service	No Redundancy	4
1834	DIP	20	33	Critical to service	No Redundancy	4
1835	PVC	12	38	Critical to service	No Redundancy	4
1836	DIP	20	33	Critical to service	No Redundancy	4
1837	PVC	8	36	Critical to service	No Redundancy	4
1838	DIP	20	31	Critical to service	No Redundancy	4
1839	DIP	20	31	Critical to service	No Redundancy	4
1840	DIP	20	31	Critical to service	No Redundancy	4
1841	PVC	6	40	Critical to service	No Redundancy	4
1842	PVC	6	40	Critical to service	No Redundancy	4
1843	PVC	6	40	Critical to service	No Redundancy	4
1844	PVC	4	40	Critical to service	No Redundancy	4
1845	PVC	6	40	Critical to service	No Redundancy	4
1846	PVC	6	40	Critical to service	No Redundancy	4
1847	PVC	4	40	Critical to service	No Redundancy	4
1848	PVC	6	40	Critical to service	No Redundancy	4
1849	PVC	6	40	Critical to service	No Redundancy	4
1850	PVC	6	40	Critical to service	No Redundancy	4
1851	PVC	4	40	Critical to service	No Redundancy	4
1852	PVC	6	37	Critical to service	No Redundancy	4
1853	PVC	14	37	Critical to service	No Redundancy	4
1854	PVC	6	37	Critical to service	No Redundancy	4
1855	PVC	6	42	Critical to service	No Redundancy	4
1856	PVC	6	42	Critical to service	No Redundancy	4
1857	PVC	6	42	Critical to service	No Redundancy	4
1858	PVC	8	37	Critical to service	No Redundancy	4
1859	PVC	14	37	Critical to service	No Redundancy	4
1860	PVC	6	42	Critical to service	No Redundancy	4
1861	PVC	6	42	Critical to service	No Redundancy	4
1862	PVC	12	42	Critical to service	No Redundancy	4
1863	PVC	12	42	Critical to service	No Redundancy	4
1864	PVC	6	42	Critical to service	No Redundancy	4
1865	PVC	6	42	Critical to service	No Redundancy	4
1866	PVC	6	42	Critical to service	No Redundancy	4
1867	PVC	6	42	Critical to service	No Redundancy	4
1868	PVC	6	42	Critical to service	No Redundancy	4
1869	PVC	6	42	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1870	PVC	6	42	Critical to service	No Redundancy	4
1871	PVC	6	42	Critical to service	No Redundancy	4
1872	PVC	6	42	Critical to service	No Redundancy	4
1873	PVC	6	42	Critical to service	No Redundancy	4
1874	PVC	6	42	Critical to service	No Redundancy	4
1875	PVC	6	42	Critical to service	No Redundancy	4
1876	PVC	6	42	Critical to service	No Redundancy	4
1877	PVC	8	42	Critical to service	No Redundancy	4
1878	PVC	8	42	Critical to service	No Redundancy	4
1879	PVC	8	42	Critical to service	No Redundancy	4
1880	PVC	8	42	Critical to service	No Redundancy	4
1881	PVC	8	42	Critical to service	No Redundancy	4
1882	PVC	8	42	Critical to service	No Redundancy	4
1883	PVC	8	42	Critical to service	No Redundancy	4
1884	PVC	8	42	Critical to service	No Redundancy	4
1885	PVC	8	42	Critical to service	No Redundancy	4
1886	PVC	8	42	Critical to service	No Redundancy	4
1887	PVC	8	42	Critical to service	No Redundancy	4
1888	PVC	8	42	Critical to service	No Redundancy	4
1889	PVC	8	42	Critical to service	No Redundancy	4
1890	PVC	8	42	Critical to service	No Redundancy	4
1891	PVC	8	31	Critical to service	No Redundancy	4
1892	PVC	4	31	Critical to service	No Redundancy	4
1893	PVC	8	31	Critical to service	No Redundancy	4
1894	PVC	4	31	Critical to service	No Redundancy	4
1895	PVC	8	31	Critical to service	No Redundancy	4
1896	PVC	8	31	Critical to service	No Redundancy	4
1897	PVC	4	31	Critical to service	No Redundancy	4
1898	PVC	8	31	Critical to service	No Redundancy	4
1899	PVC	4	31	Critical to service	No Redundancy	4
1900	PVC	8	31	Critical to service	No Redundancy	4
1901	PVC	8	42	Critical to service	No Redundancy	4
1902	PVC	8	42	Critical to service	No Redundancy	4
1903	PVC	8	42	Critical to service	No Redundancy	4
1904	PVC	8	42	Critical to service	No Redundancy	4
1905	PVC	8	42	Critical to service	No Redundancy	4
1906	PVC	4	41	Critical to service	No Redundancy	4
1907	PVC	4	41	Critical to service	No Redundancy	4
1908	PE	1	83	Critical to service	No Redundancy	4
1909	PE	1	83	Critical to service	No Redundancy	4
1910	PE	1	83	Critical to service	No Redundancy	4
1911	PE	1	83	Critical to service	No Redundancy	4
1912	PE	1	83	Critical to service	No Redundancy	4
1913	PE	1	83	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
1914	PE	1	83	Critical to service	No Redundancy	4
1915	PE	1	83	Critical to service	No Redundancy	4
1916	PE	1	83	Critical to service	No Redundancy	4
1917	PE	1	83	Critical to service	No Redundancy	4
1918	PE	1	83	Critical to service	No Redundancy	4
1919	PE	1	83	Critical to service	No Redundancy	4
1920	PE	1	83	Critical to service	No Redundancy	4
1921	PE	1	83	Critical to service	No Redundancy	4
1922	PE	1	83	Critical to service	No Redundancy	4
1923	PE	1	83	Critical to service	No Redundancy	4
1924	PE	1	83	Critical to service	No Redundancy	4
1925	PE	1	83	Critical to service	No Redundancy	4
1926	PE	1	83	Critical to service	No Redundancy	4
1927	PE	1	83	Critical to service	No Redundancy	4
1928	PE	1	83	Critical to service	No Redundancy	4
1929	PE	1	83	Critical to service	No Redundancy	4
1930	PE	1	83	Critical to service	No Redundancy	4
1931	PE	1	83	Critical to service	No Redundancy	4
1932	PE	1	83	Critical to service	No Redundancy	4
1933	PE	1	83	Critical to service	No Redundancy	4
1934	PE	1	83	Critical to service	No Redundancy	4
1935	PE	1	83	Critical to service	No Redundancy	4
1936	PE	1	83	Critical to service	No Redundancy	4
1937	PE	1	83	Critical to service	No Redundancy	4
1938	PVC	4	38	Critical to service	No Redundancy	4
1939	PVC	4	38	Critical to service	No Redundancy	4
1940	PVC	6	38	Critical to service	No Redundancy	4
1941	PVC	4	38	Critical to service	No Redundancy	4
1942	PVC	4	38	Critical to service	No Redundancy	4
1943	PVC	4	38	Critical to service	No Redundancy	4
1944	PVC	4	38	Critical to service	No Redundancy	4
1945	PVC	4	38	Critical to service	No Redundancy	4
1946	PVC	6	43	Critical to service	No Redundancy	4
1947	PVC	4	43	Critical to service	No Redundancy	4
1948	PVC	6	40	Critical to service	No Redundancy	4
1949	PVC	6	40	Critical to service	No Redundancy	4
1950	PVC	6	37	Critical to service	No Redundancy	4
1951	PVC	4	38	Critical to service	No Redundancy	4
1952	PVC	4	38	Critical to service	No Redundancy	4
1953	PVC	4	37	Critical to service	No Redundancy	4
1954	PVC	4	37	Critical to service	No Redundancy	4
1955	PVC	6	37	Critical to service	No Redundancy	4
1956	PVC	8	39	Critical to service	No Redundancy	4
1957	PVC	4	39	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
1958	PVC	8	39	Critical to service	No Redundancy	4
1959	PVC	8	39	Critical to service	No Redundancy	4
1960	PVC	8	39	Critical to service	No Redundancy	4
1961	PVC	8	39	Critical to service	No Redundancy	4
1962	PVC	8	39	Critical to service	No Redundancy	4
1963	PVC	8	39	Critical to service	No Redundancy	4
1964	PVC	8	41	Critical to service	No Redundancy	4
1965	PVC	6	41	Critical to service	No Redundancy	4
1966	PVC	8	41	Critical to service	No Redundancy	4
1967	PVC	8	42	Critical to service	No Redundancy	4
1968	PVC	8	42	Critical to service	No Redundancy	4
1969	PVC	12	42	Critical to service	No Redundancy	4
1970	PVC	12	42	Critical to service	No Redundancy	4
1971	PVC	8	42	Critical to service	No Redundancy	4
1972	PVC	12	42	Critical to service	No Redundancy	4
1973	PVC	8	42	Critical to service	No Redundancy	4
1974	PVC	12	42	Critical to service	No Redundancy	4
1975	PVC	12	42	Critical to service	No Redundancy	4
1976	DIP	30	37	Critical to service	No Redundancy	4
1977	PVC	6	42	Critical to service	No Redundancy	4
1978	PVC	6	42	Critical to service	No Redundancy	4
1979	PVC	6	42	Critical to service	No Redundancy	4
1981	PVC	6	42	Critical to service	No Redundancy	4
1982	PVC	6	42	Critical to service	No Redundancy	4
1983	PVC	6	42	Critical to service	No Redundancy	4
1984	PVC	6	42	Critical to service	No Redundancy	4
1985	PVC	6	42	Critical to service	No Redundancy	4
1986	PVC	6	42	Critical to service	No Redundancy	4
1987	PVC	6	42	Critical to service	No Redundancy	4
1988	PVC	6	42	Critical to service	No Redundancy	4
1989	PVC	6	43	Critical to service	No Redundancy	4
1990	PE	1	86	Critical to service	No Redundancy	4
1991	PE	1	86	Critical to service	No Redundancy	4
1992	PE	1	86	Critical to service	No Redundancy	4
1993	PE	1	86	Critical to service	No Redundancy	4
1994	PE	1	86	Critical to service	No Redundancy	4
1995	PE	1	86	Critical to service	No Redundancy	4
1996	PE	1	86	Critical to service	No Redundancy	4
1997	PE	1	86	Critical to service	No Redundancy	4
1998	PE	1	86	Critical to service	No Redundancy	4
1999	PE	1	86	Critical to service	No Redundancy	4
2000	PE	1	86	Critical to service	No Redundancy	4
2001	PE	1	86	Critical to service	No Redundancy	4
2002	PE	1	86	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2003	PE	1	86	Critical to service	No Redundancy	4
2004	PE	1	86	Critical to service	No Redundancy	4
2005	PE	1	86	Critical to service	No Redundancy	4
2006	PE	1	86	Critical to service	No Redundancy	4
2007	PE	1	86	Critical to service	No Redundancy	4
2008	PE	1	86	Critical to service	No Redundancy	4
2009	PE	1	86	Critical to service	No Redundancy	4
2010	PE	1	86	Critical to service	No Redundancy	4
2011	PE	1	86	Critical to service	No Redundancy	4
2012	PE	1	86	Critical to service	No Redundancy	4
2013	PE	1	86	Critical to service	No Redundancy	4
2014	PE	1	86	Critical to service	No Redundancy	4
2015	PE	1	86	Critical to service	No Redundancy	4
2016	PE	1	86	Critical to service	No Redundancy	4
2017	PE	1	86	Critical to service	No Redundancy	4
2018	PE	1	86	Critical to service	No Redundancy	4
2019	PE	1	86	Critical to service	No Redundancy	4
2020	PE	1	86	Critical to service	No Redundancy	4
2021	PVC	6	41	Critical to service	No Redundancy	4
2022	PVC	8	41	Critical to service	No Redundancy	4
2023	PVC	8	41	Critical to service	No Redundancy	4
2024	PVC	8	41	Critical to service	No Redundancy	4
2025	PVC	6	Unknown	Critical to service	No Redundancy	4
2026	PVC	4	Unknown	Critical to service	No Redundancy	4
2027	PVC	6	Unknown	Critical to service	No Redundancy	4
2028	PVC	6	Unknown	Critical to service	No Redundancy	4
2029	PVC	4	Unknown	Critical to service	No Redundancy	4
2030	PVC	6	Unknown	Critical to service	No Redundancy	4
2031	PVC	6	Unknown	Critical to service	No Redundancy	4
2032	PVC	6	Unknown	Critical to service	No Redundancy	4
2033	PVC	4	Unknown	Critical to service	No Redundancy	4
2034	PVC	6	Unknown	Critical to service	No Redundancy	4
2035	PVC	6	Unknown	Critical to service	No Redundancy	4
2036	PVC	6	Unknown	Critical to service	No Redundancy	4
2037	PVC	6	Unknown	Critical to service	No Redundancy	4
2038	PVC	6	Unknown	Critical to service	No Redundancy	4
2039	PVC	6	Unknown	Critical to service	No Redundancy	4
2040	PVC	6	Unknown	Critical to service	No Redundancy	4
2041	PVC	6	Unknown	Critical to service	No Redundancy	4
2042	PVC	6	45	Critical to service	No Redundancy	4
2043	PVC	4	45	Critical to service	No Redundancy	4
2044	PVC	6	45	Critical to service	No Redundancy	4
2045	PVC	6	45	Critical to service	No Redundancy	4
2046	PVC	6	45	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	Material	Diameter (Inches)				
2047	PVC	6	45	Critical to service	No Redundancy	4
2048	PVC	6	45	Critical to service	No Redundancy	4
2049	PVC	6	45	Critical to service	No Redundancy	4
2051	PVC	4	45	Critical to service	No Redundancy	4
2052	PVC	6	45	Critical to service	No Redundancy	4
2053	PVC	6	45	Critical to service	No Redundancy	4
2054	PVC	6	45	Critical to service	No Redundancy	4
2055	PVC	8	45	Critical to service	No Redundancy	4
2056	PVC	8	45	Critical to service	No Redundancy	4
2057	PVC	8	45	Critical to service	No Redundancy	4
2058	PVC	4	45	Critical to service	No Redundancy	4
2059	PVC	8	45	Critical to service	No Redundancy	4
2060	PVC	6	45	Critical to service	No Redundancy	4
2061	PVC	6	45	Critical to service	No Redundancy	4
2062	PVC	6	45	Critical to service	No Redundancy	4
2063	PVC	6	45	Critical to service	No Redundancy	4
2064	PVC	6	45	Critical to service	No Redundancy	4
2065	PVC	6	45	Critical to service	No Redundancy	4
2066	PVC	6	45	Critical to service	No Redundancy	4
2067	PVC	6	45	Critical to service	No Redundancy	4
2068	PVC	8	45	Critical to service	No Redundancy	4
2069	PVC	6	45	Critical to service	No Redundancy	4
2070	PVC	12	45	Critical to service	No Redundancy	4
2071	PVC	6	45	Critical to service	No Redundancy	4
2072	PVC	12	45	Critical to service	No Redundancy	4
2073	PVC	8	45	Critical to service	No Redundancy	4
2074	PVC	12	45	Critical to service	No Redundancy	4
2075	PVC	6	45	Critical to service	No Redundancy	4
2076	PVC	6	45	Critical to service	No Redundancy	4
2077	PVC	12	45	Critical to service	No Redundancy	4
2078	PVC	6	45	Critical to service	No Redundancy	4
2079	PVC	6	45	Critical to service	No Redundancy	4
2080	PVC	12	45	Critical to service	No Redundancy	4
2081	PVC	6	45	Critical to service	No Redundancy	4
2082	PVC	12	45	Critical to service	No Redundancy	4
2083	PVC	12	45	Critical to service	No Redundancy	4
2084	PVC	6	45	Critical to service	No Redundancy	4
2085	PVC	6	45	Critical to service	No Redundancy	4
2086	PVC	6	45	Critical to service	No Redundancy	4
2087	PVC	6	45	Critical to service	No Redundancy	4
2088	PVC	6	45	Critical to service	No Redundancy	4
2089	PVC	6	45	Critical to service	No Redundancy	4
2090	PVC	6	45	Critical to service	No Redundancy	4
2091	PVC	6	45	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2092	PVC	6	45	Critical to service	No Redundancy	4
2093	PVC	8	45	Critical to service	No Redundancy	4
2094	PVC	4	45	Critical to service	No Redundancy	4
2095	PVC	8	45	Critical to service	No Redundancy	4
2096	PVC	12	45	Critical to service	No Redundancy	4
2097	PVC	12	45	Critical to service	No Redundancy	4
2098	PVC	16	45	Critical to service	No Redundancy	4
2099	PVC	4	45	Critical to service	No Redundancy	4
2100	PVC	16	45	Critical to service	No Redundancy	4
2101	PVC	6	45	Critical to service	No Redundancy	4
2102	PVC	4	45	Critical to service	No Redundancy	4
2103	PVC	16	45	Critical to service	No Redundancy	4
2104	PVC	12	45	Critical to service	No Redundancy	4
2105	PVC	6	45	Critical to service	No Redundancy	4
2106	PVC	4	45	Critical to service	No Redundancy	4
2107	PVC	6	45	Critical to service	No Redundancy	4
2108	PVC	4	45	Critical to service	No Redundancy	4
2109	PVC	4	45	Critical to service	No Redundancy	4
2110	PVC	4	45	Critical to service	No Redundancy	4
2111	PVC	12	45	Critical to service	No Redundancy	4
2112	PVC	8	45	Critical to service	No Redundancy	4
2114	PVC	12	45	Critical to service	No Redundancy	4
2115	PVC	12	45	Critical to service	No Redundancy	4
2116	PVC	12	46	Critical to service	No Redundancy	4
2117	PVC	4	41	Critical to service	No Redundancy	4
2118	PVC	4	41	Critical to service	No Redundancy	4
2119	PVC	10	41	Critical to service	No Redundancy	4
2120	PVC	4	41	Critical to service	No Redundancy	4
2121	PVC	6	38	Critical to service	No Redundancy	4
2122	PVC	4	40	Critical to service	No Redundancy	4
2123	PVC	8	38	Critical to service	No Redundancy	4
2124	PVC	8	38	Critical to service	No Redundancy	4
2125	PVC	8	38	Critical to service	No Redundancy	4
2126	PVC	8	38	Critical to service	No Redundancy	4
2127	PVC	8	38	Critical to service	No Redundancy	4
2128	PVC	8	38	Critical to service	No Redundancy	4
2129	PVC	4	38	Critical to service	No Redundancy	4
2130	PVC	8	38	Critical to service	No Redundancy	4
2131	PVC	8	38	Critical to service	No Redundancy	4
2132	PVC	8	42	Critical to service	No Redundancy	4
2133	PVC	8	42	Critical to service	No Redundancy	4
2134	PVC	8	42	Critical to service	No Redundancy	4
2135	PVC	4	42	Critical to service	No Redundancy	4
2136	PVC	4	42	Critical to service	No Redundancy	4

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Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2137	PVC	8	42	Critical to service	No Redundancy	4
2138	PVC	8	42	Critical to service	No Redundancy	4
2139	PVC	8	42	Critical to service	No Redundancy	4
2140	PVC	8	42	Critical to service	No Redundancy	4
2141	PVC	4	40	Critical to service	No Redundancy	4
2142	PVC	4	40	Critical to service	No Redundancy	4
2143	PVC	4	40	Critical to service	No Redundancy	4
2144	PVC	4	40	Critical to service	No Redundancy	4
2145	PVC	4	40	Critical to service	No Redundancy	4
2146	PVC	6	40	Critical to service	No Redundancy	4
2147	PVC	4	40	Critical to service	No Redundancy	4
2148	PVC	6	40	Critical to service	No Redundancy	4
2149	PVC	4	40	Critical to service	No Redundancy	4
2150	PVC	4	40	Critical to service	No Redundancy	4
2151	PVC	4	40	Critical to service	No Redundancy	4
2152	PVC	4	38	Critical to service	No Redundancy	4
2153	PVC	4	38	Critical to service	No Redundancy	4
2154	PVC	4	38	Critical to service	No Redundancy	4
2155	PVC	6	38	Critical to service	No Redundancy	4
2156	PVC	6	38	Critical to service	No Redundancy	4
2157	PVC	4	38	Critical to service	No Redundancy	4
2158	PVC	4	38	Critical to service	No Redundancy	4
2159	PE	1	83	Critical to service	No Redundancy	4
2160	PE	1	83	Critical to service	No Redundancy	4
2161	PVC	4	37	Critical to service	No Redundancy	4
2162	PVC	4	37	Critical to service	No Redundancy	4
2163	PVC	6	37	Critical to service	No Redundancy	4
2164	PVC	4	37	Critical to service	No Redundancy	4
2165	PVC	6	37	Critical to service	No Redundancy	4
2166	PVC	6	37	Critical to service	No Redundancy	4
2167	PVC	6	37	Critical to service	No Redundancy	4
2168	PVC	4	37	Critical to service	No Redundancy	4
2169	PVC	6	37	Critical to service	No Redundancy	4
2170	PVC	4	37	Critical to service	No Redundancy	4
2171	PVC	8	37	Critical to service	No Redundancy	4
2172	PVC	6	37	Critical to service	No Redundancy	4
2173	PVC	10	37	Critical to service	No Redundancy	4
2174	PVC	6	37	Critical to service	No Redundancy	4
2175	PVC	10	37	Critical to service	No Redundancy	4
2176	PVC	10	37	Critical to service	No Redundancy	4
2177	PVC	4	37	Critical to service	No Redundancy	4
2178	PVC	10	37	Critical to service	No Redundancy	4
2179	PVC	6	37	Critical to service	No Redundancy	4
2180	PVC	10	37	Critical to service	No Redundancy	4

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Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2181	PVC	10	37	Critical to service	No Redundancy	4
2182	PVC	6	37	Critical to service	No Redundancy	4
2183	PVC	10	37	Critical to service	No Redundancy	4
2184	PVC	6	37	Critical to service	No Redundancy	4
2185	PVC	10	37	Critical to service	No Redundancy	4
2186	PVC	4	37	Critical to service	No Redundancy	4
2187	PVC	10	37	Critical to service	No Redundancy	4
2188	PVC	4	37	Critical to service	No Redundancy	4
2189	PVC	10	37	Critical to service	No Redundancy	4
2190	PVC	6	37	Critical to service	No Redundancy	4
2191	PVC	10	37	Critical to service	No Redundancy	4
2192	PVC	6	37	Critical to service	No Redundancy	4
2193	PVC	10	37	Critical to service	No Redundancy	4
2194	PVC	4	37	Critical to service	No Redundancy	4
2195	PVC	4	37	Critical to service	No Redundancy	4
2196	PVC	10	37	Critical to service	No Redundancy	4
2197	PVC	6	37	Critical to service	No Redundancy	4
2198	PVC	6	37	Critical to service	No Redundancy	4
2199	PVC	10	37	Critical to service	No Redundancy	4
2200	PVC	4	37	Critical to service	No Redundancy	4
2201	PVC	10	37	Critical to service	No Redundancy	4
2202	PVC	4	38	Critical to service	No Redundancy	4
2203	PVC	4	37	Critical to service	No Redundancy	4
2204	PVC	6	37	Critical to service	No Redundancy	4
2205	PVC	12	46	Critical to service	No Redundancy	4
2206	PVC	30	46	Critical to service	No Redundancy	4
2207	PVC	6	46	Critical to service	No Redundancy	4
2208	PVC	12	46	Critical to service	No Redundancy	4
2209	PVC	12	44	Critical to service	No Redundancy	4
2210	PVC	30	46	Critical to service	No Redundancy	4
2211	PVC	30	46	Critical to service	No Redundancy	4
2212	PVC	8	46	Critical to service	No Redundancy	4
2213	PVC	6	46	Critical to service	No Redundancy	4
2214	PVC	6	46	Critical to service	No Redundancy	4
2215	PVC	6	46	Critical to service	No Redundancy	4
2216	PVC	6	46	Critical to service	No Redundancy	4
2217	PVC	4	46	Critical to service	No Redundancy	4
2219	PVC	6	46	Critical to service	No Redundancy	4
2220	PVC	6	46	Critical to service	No Redundancy	4
2221	PVC	6	46	Critical to service	No Redundancy	4
2222	PVC	6	46	Critical to service	No Redundancy	4
2223	PVC	6	46	Critical to service	No Redundancy	4
2225	DIP	8	41	Critical to service	No Redundancy	4
2226	DIP	8	41	Critical to service	No Redundancy	4

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Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2227	DIP	8	41	Critical to service	No Redundancy	4
2228	DIP	8	41	Critical to service	No Redundancy	4
2229	DIP	8	41	Critical to service	No Redundancy	4
2230	PVC	4	47	Critical to service	No Redundancy	4
2231	DIP	8	41	Critical to service	No Redundancy	4
2232	DIP	8	41	Critical to service	No Redundancy	4
2233	DIP	20	41	Critical to service	No Redundancy	4
2234	DIP	20	41	Critical to service	No Redundancy	4
2235	PVC	6	46	Critical to service	No Redundancy	4
2237	DIP	8	41	Critical to service	No Redundancy	4
2238	DIP	10	41	Critical to service	No Redundancy	4
2239	DIP	12	41	Critical to service	No Redundancy	4
2240	DIP	12	41	Critical to service	No Redundancy	4
2241	DIP	8	41	Critical to service	No Redundancy	4
2242	DIP	12	41	Critical to service	No Redundancy	4
2243	DIP	10	41	Critical to service	No Redundancy	4
2244	DIP	10	41	Critical to service	No Redundancy	4
2245	DIP	8	41	Critical to service	No Redundancy	4
2246	DIP	8	41	Critical to service	No Redundancy	4
2247	PVC	6	46	Critical to service	No Redundancy	4
2248	DIP	8	41	Critical to service	No Redundancy	4
2249	DIP	8	41	Critical to service	No Redundancy	4
2250	DIP	8	41	Critical to service	No Redundancy	4
2251	DIP	8	41	Critical to service	No Redundancy	4
2252	DIP	8	41	Critical to service	No Redundancy	4
2253	PVC	6	46	Critical to service	No Redundancy	4
2254	PVC	4	46	Critical to service	No Redundancy	4
2255	PVC	4	46	Critical to service	No Redundancy	4
2256	PVC	4	46	Critical to service	No Redundancy	4
2257	PVC	6	47	Critical to service	No Redundancy	4
2258	PVC	6	47	Critical to service	No Redundancy	4
2259	PVC	6	47	Critical to service	No Redundancy	4
2260	PVC	6	47	Critical to service	No Redundancy	4
2261	PVC	6	47	Critical to service	No Redundancy	4
2262	PVC	6	47	Critical to service	No Redundancy	4
2263	PVC	6	47	Critical to service	No Redundancy	4
2264	PVC	6	47	Critical to service	No Redundancy	4
2265	PVC	6	47	Critical to service	No Redundancy	4
2266	PVC	6	47	Critical to service	No Redundancy	4
2267	PVC	8	47	Critical to service	No Redundancy	4
2268	PVC	8	47	Critical to service	No Redundancy	4
2269	PVC	8	47	Critical to service	No Redundancy	4
2270	PVC	8	47	Critical to service	No Redundancy	4
2271	PVC	4	47	Critical to service	No Redundancy	4

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Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2273	PVC	4	47	Critical to service	No Redundancy	4
2274	PVC	4	47	Critical to service	No Redundancy	4
2275	PVC	4	47	Critical to service	No Redundancy	4
2276	PVC	4	47	Critical to service	No Redundancy	4
2277	PVC	6	47	Critical to service	No Redundancy	4
2278	PVC	8	47	Critical to service	No Redundancy	4
2279	PVC	8	47	Critical to service	No Redundancy	4
2280	PVC	8	47	Critical to service	No Redundancy	4
2281	PVC	12	47	Critical to service	No Redundancy	4
2282	PVC	4	47	Critical to service	No Redundancy	4
2283	PVC	30	47	Critical to service	No Redundancy	4
2284	PVC	30	47	Critical to service	No Redundancy	4
2285	PVC	12	47	Critical to service	No Redundancy	4
2286	PVC	30	47	Critical to service	No Redundancy	4
2287	PVC	8	47	Critical to service	No Redundancy	4
2288	PVC	8	47	Critical to service	No Redundancy	4
2289	PVC	8	47	Critical to service	No Redundancy	4
2290	PVC	8	47	Critical to service	No Redundancy	4
2291	PVC	8	47	Critical to service	No Redundancy	4
2292	PVC	6	47	Critical to service	No Redundancy	4
2293	PVC	6	47	Critical to service	No Redundancy	4
2294	PVC	6	47	Critical to service	No Redundancy	4
2295	PVC	6	47	Critical to service	No Redundancy	4
2296	PVC	6	47	Critical to service	No Redundancy	4
2297	PVC	12	47	Critical to service	No Redundancy	4
2298	PVC	12	47	Critical to service	No Redundancy	4
2299	PVC	3	48	Critical to service	No Redundancy	4
2300	DIP	36	48	Critical to service	No Redundancy	4
2301	PVC	12	48	Critical to service	No Redundancy	4
2302	PVC	12	48	Critical to service	No Redundancy	4
2303	PVC	4	48	Critical to service	No Redundancy	4
2304	PVC	4	48	Critical to service	No Redundancy	4
2305	PVC	4	48	Critical to service	No Redundancy	4
2306	PVC	4	48	Critical to service	No Redundancy	4
2307	PVC	4	48	Critical to service	No Redundancy	4
2308	PVC	12	48	Critical to service	No Redundancy	4
2309	PVC	12	48	Critical to service	No Redundancy	4
2310	PVC	12	48	Critical to service	No Redundancy	4
2311	PVC	12	48	Critical to service	No Redundancy	4
2312	PVC	12	48	Critical to service	No Redundancy	4
2313	PVC	12	48	Critical to service	No Redundancy	4
2314	PVC	12	48	Critical to service	No Redundancy	4
2315	PVC	12	48	Critical to service	No Redundancy	4
2316	PVC	12	48	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2317	PVC	12	48	Critical to service	No Redundancy	4
2318	PVC	12	48	Critical to service	No Redundancy	4
2319	PVC	12	48	Critical to service	No Redundancy	4
2320	PVC	4	48	Critical to service	No Redundancy	4
2321	PVC	4	48	Critical to service	No Redundancy	4
2322	PVC	4	48	Critical to service	No Redundancy	4
2323	PVC	6	48	Critical to service	No Redundancy	4
2324	PVC	6	48	Critical to service	No Redundancy	4
2325	PVC	4	48	Critical to service	No Redundancy	4
2326	PVC	6	47	Critical to service	No Redundancy	4
2327	PVC	4	48	Critical to service	No Redundancy	4
2328	PVC	4	48	Critical to service	No Redundancy	4
2329	PVC	4	48	Critical to service	No Redundancy	4
2330	PVC	6	48	Critical to service	No Redundancy	4
2331	PVC	6	48	Critical to service	No Redundancy	4
2332	PVC	6	48	Critical to service	No Redundancy	4
2333	PVC	6	48	Critical to service	No Redundancy	4
2334	PVC	4	48	Critical to service	No Redundancy	4
2335	PVC	4	48	Critical to service	No Redundancy	4
2336	PVC	6	48	Critical to service	No Redundancy	4
2337	PVC	4	48	Critical to service	No Redundancy	4
2338	PVC	4	48	Critical to service	No Redundancy	4
2339	PVC	4	48	Critical to service	No Redundancy	4
2340	PVC	4	48	Critical to service	No Redundancy	4
2341	PVC	4	48	Critical to service	No Redundancy	4
2342	PVC	4	48	Critical to service	No Redundancy	4
2343	PVC	4	48	Critical to service	No Redundancy	4
2344	PVC	4	48	Critical to service	No Redundancy	4
2345	PVC	20	48	Critical to service	No Redundancy	4
2346	PVC	20	48	Critical to service	No Redundancy	4
2347	PVC	4	48	Critical to service	No Redundancy	4
2348	PVC	4	48	Critical to service	No Redundancy	4
2349	PVC	4	48	Critical to service	No Redundancy	4
2350	PVC	4	48	Critical to service	No Redundancy	4
2351	PVC	4	48	Critical to service	No Redundancy	4
2352	PVC	4	48	Critical to service	No Redundancy	4
2353	PVC	4	51	Critical to service	No Redundancy	4
2354	PVC	4	48	Critical to service	No Redundancy	4
2355	PVC	4	48	Critical to service	No Redundancy	4
2356	PVC	4	48	Critical to service	No Redundancy	4
2357	PVC	4	48	Critical to service	No Redundancy	4
2358	PVC	4	48	Critical to service	No Redundancy	4
2359	PVC	4	48	Critical to service	No Redundancy	4
2360	PVC	4	48	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2361	PVC	4	48	Critical to service	No Redundancy	4
2362	PVC	4	48	Critical to service	No Redundancy	4
2364	PE	1.5	93	Critical to service	No Redundancy	4
2365	PVC	6	48	Critical to service	No Redundancy	4
2366	PVC	4	49	Critical to service	No Redundancy	4
2367	DIP	18	44	Critical to service	No Redundancy	4
2368	DIP	16	44	Critical to service	No Redundancy	4
2369	PVC	6	48	Critical to service	No Redundancy	4
2370	DIP	20	45	Critical to service	No Redundancy	4
2371	DIP	18	45	Critical to service	No Redundancy	4
2372	DIP	8	45	Critical to service	No Redundancy	4
2373	DIP	20	45	Critical to service	No Redundancy	4
2374	DIP	8	45	Critical to service	No Redundancy	4
2375	PVC	8	Unknown	Critical to service	No Redundancy	4
2376	DIP	8	44	Critical to service	No Redundancy	4
2377	PVC	12	45	Critical to service	No Redundancy	4
2378	PVC	16	46	Critical to service	No Redundancy	4
2379	PVC	16	46	Critical to service	No Redundancy	4
2380	PVC	16	46	Critical to service	No Redundancy	4
2381	PVC	8	49	Critical to service	No Redundancy	4
2382	PVC	8	49	Critical to service	No Redundancy	4
2383	PVC	8	49	Critical to service	No Redundancy	4
2384	PVC	12	41	Critical to service	No Redundancy	4
2385	HDPE	4	94	Critical to service	No Redundancy	4
2386	PVC	6	46	Critical to service	No Redundancy	4
2387	PVC	8	50	Critical to service	No Redundancy	4
2388	PVC	6	50	Critical to service	No Redundancy	4
2389	PVC	6	50	Critical to service	No Redundancy	4
2391	PVC	6	50	Critical to service	No Redundancy	4
2392	PVC	12	50	Critical to service	No Redundancy	4
2393	PVC	16	50	Critical to service	No Redundancy	4
2394	PVC	6	50	Critical to service	No Redundancy	4
2395	PVC	6	50	Critical to service	No Redundancy	4
2396	PVC	8	50	Critical to service	No Redundancy	4
2397	DIP	8	45	Critical to service	No Redundancy	4
2398	DIP	24	40	Critical to service	No Redundancy	4
2399	PVC	12	47	Critical to service	No Redundancy	4
2400	DIP	12	40	Critical to service	No Redundancy	4
2401	PVC	12	47	Critical to service	No Redundancy	4
2402	DIP	30	40	Critical to service	No Redundancy	4
2403	DIP	30	40	Critical to service	No Redundancy	4
2404	PVC	18	45	Critical to service	No Redundancy	4
2405	DIP	12	40	Critical to service	No Redundancy	4
2406	PVC	36	44	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2407	PVC	30	44	Critical to service	No Redundancy	4
2408	PVC	12	45	Critical to service	No Redundancy	4
2409	PVC	12	44	Critical to service	No Redundancy	4
2410	PVC	12	45	Critical to service	No Redundancy	4
2411	DIP	30	40	Critical to service	No Redundancy	4
2412	DIP	30	40	Critical to service	No Redundancy	4
2414	PVC	12	45	Critical to service	No Redundancy	4
2416	PVC	12	50	Critical to service	No Redundancy	4
2417	PVC	6	46	Critical to service	No Redundancy	4
2418	PVC	4	46	Critical to service	No Redundancy	4
2419	PVC	6	46	Critical to service	No Redundancy	4
2420	PVC	6	45	Critical to service	No Redundancy	4
2421	PVC	6	46	Critical to service	No Redundancy	4
2424	Unknown	2	41	Critical to service	No Redundancy	4
2425	Unknown	2	41	Critical to service	No Redundancy	4
2426	PVC	6	46	Critical to service	No Redundancy	4
2427	PVC	6	46	Critical to service	No Redundancy	4
2428	PVC	4	46	Critical to service	No Redundancy	4
2429	PVC	6	46	Critical to service	No Redundancy	4
2430	PVC	6	50	Critical to service	No Redundancy	4
2431	PVC	6	48	Critical to service	No Redundancy	4
2432	PVC	6	48	Critical to service	No Redundancy	4
2433	PE	2	93	Critical to service	No Redundancy	4
2434	PVC	6	48	Critical to service	No Redundancy	4
2435	PE	2	93	Critical to service	No Redundancy	4
2436	PVC	6	50	Critical to service	No Redundancy	4
2437	PVC	4	50	Critical to service	No Redundancy	4
2438		2	45	Critical to service	No Redundancy	4
2439	PVC	6	46	Critical to service	No Redundancy	4
2440	PVC	6	46	Critical to service	No Redundancy	4
2441	PVC	6	46	Critical to service	No Redundancy	4
2442	PVC	8	46	Critical to service	No Redundancy	4
2443	PVC	8	46	Critical to service	No Redundancy	4
2444	PVC	8	46	Critical to service	No Redundancy	4
2445	PVC	8	45	Critical to service	No Redundancy	4
2446	PVC	6	46	Critical to service	No Redundancy	4
2451	PVC	6	46	Critical to service	No Redundancy	4
2452	PVC	2	46	Critical to service	No Redundancy	4
2453	PVC	2	46	Critical to service	No Redundancy	4
2454	PVC	2	46	Critical to service	No Redundancy	4
2455	PVC	4	46	Critical to service	No Redundancy	4
2456	PVC	6	46	Critical to service	No Redundancy	4
2457	PVC	6	46	Critical to service	No Redundancy	4
2458	PVC	2	50	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2459	PVC	4	50	Critical to service	No Redundancy	4
2460	PVC	4	50	Critical to service	No Redundancy	4
2461	PVC	4	48	Critical to service	No Redundancy	4
2462	PE	2	93	Critical to service	No Redundancy	4
2463	PVC	2	46	Critical to service	No Redundancy	4
2464	PVC	8	46	Critical to service	No Redundancy	4
2465	PVC	4	48	Critical to service	No Redundancy	4
2466	PVC	6	48	Critical to service	No Redundancy	4
2467	PE	2	93	Critical to service	No Redundancy	4
2468	PE	2	93	Critical to service	No Redundancy	4
2469	PVC	6	45	Critical to service	No Redundancy	4
2470	PVC	6	48	Critical to service	No Redundancy	4
2471	PE	2	93	Critical to service	No Redundancy	4
2472	PVC	6	48	Critical to service	No Redundancy	4
2473	PVC	6	46	Critical to service	No Redundancy	4
2474	PVC	6	46	Critical to service	No Redundancy	4
2475	PVC	4	50	Critical to service	No Redundancy	4
2476	PVC	14	37	Critical to service	No Redundancy	4
2480	PVC	8	50	Critical to service	No Redundancy	4
2481	PVC	4	50	Critical to service	No Redundancy	4
2482	PVC	4	50	Critical to service	No Redundancy	4
2483	PVC	10	45	Critical to service	No Redundancy	4
2484	PVC	10	45	Critical to service	No Redundancy	4
2485	PVC	10	46	Critical to service	No Redundancy	4
2486	PVC	8	46	Critical to service	No Redundancy	4
2487	PVC	8	46	Critical to service	No Redundancy	4
2488	PVC	10	50	Critical to service	No Redundancy	4
2489	PVC	4	46	Critical to service	No Redundancy	4
2492	PVC	8	50	Critical to service	No Redundancy	4
2494	PVC	4	46	Critical to service	No Redundancy	4
2495	PVC	8	46	Critical to service	No Redundancy	4
2496	PVC	12	50	Critical to service	No Redundancy	4
2497	PVC	12	50	Critical to service	No Redundancy	4
2498	PVC	12	49	Critical to service	No Redundancy	4
2499	PVC	1.5	49	Critical to service	No Redundancy	4
2501	HDPE	1.5	94	Critical to service	No Redundancy	4
2503	HDPE	1.5	94	Critical to service	No Redundancy	4
2504	HDPE	6	94	Critical to service	No Redundancy	4
2505	HDPE	6	94	Critical to service	No Redundancy	4
2509	HDPE	8	94	Critical to service	No Redundancy	4
2511	HDPE	8	94	Critical to service	No Redundancy	4
2515	PE	1	94	Critical to service	No Redundancy	4
2517	HDPE	6	94	Critical to service	No Redundancy	4
2519	HDPE	8	94	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2521	PVC	6	50	Critical to service	No Redundancy	4
2523	HDPE	6	95	Critical to service	No Redundancy	4
2524	HDPE	12	94	Critical to service	No Redundancy	4
2526	PVC	20	48	Critical to service	No Redundancy	4
2527	PVC	4	48	Critical to service	No Redundancy	4
2528	DIP	30	46	Critical to service	No Redundancy	4
2529	DIP	36	48	Critical to service	No Redundancy	4
2530	DIP	30	45	Critical to service	No Redundancy	4
2531	DIP	30	46	Critical to service	No Redundancy	4
2532	DIP	8	46	Critical to service	No Redundancy	4
2535	DIP	30	45	Critical to service	No Redundancy	4
2537	DIP	30	45	Critical to service	No Redundancy	4
2538	DIP	30	45	Critical to service	No Redundancy	4
2539	DIP	6	45	Critical to service	No Redundancy	4
2540	PVC	4	51	Critical to service	No Redundancy	4
2541	PVC	12	51	Critical to service	No Redundancy	4
2542	PVC	12	51	Critical to service	No Redundancy	4
2543	PE	8	96	Critical to service	No Redundancy	4
2544	PE	4	96	Critical to service	No Redundancy	4
2545	DIP	24	37	Critical to service	No Redundancy	4
2546	DIP	24	37	Critical to service	No Redundancy	4
2547	DIP	30	37	Critical to service	No Redundancy	4
2548	DIP	24	46	Critical to service	No Redundancy	4
2549	PVC	14	37	Critical to service	No Redundancy	4
2550	PVC	8	37	Critical to service	No Redundancy	4
2551	PVC	14	37	Critical to service	No Redundancy	4
2552	PVC	16	51	Critical to service	No Redundancy	4
2553	PVC	30	51	Critical to service	No Redundancy	4
2554	DIP	36	46	Critical to service	No Redundancy	4
2555	DIP	30	46	Critical to service	No Redundancy	4
2556	DIP	36	46	Critical to service	No Redundancy	4
2557	DIP	36	46	Critical to service	No Redundancy	4
2558	PVC	30	45	Critical to service	No Redundancy	4
2559	PVC	12	45	Critical to service	No Redundancy	4
2560	PVC	6	51	Critical to service	No Redundancy	4
2561	PVC	6	44	Critical to service	No Redundancy	4
2562	PVC	6	44	Critical to service	No Redundancy	4
2563	HDPE	6	96	Critical to service	No Redundancy	4
2564	DIP	48	46	Critical to service	No Redundancy	4
2565	PVC	12	51	Critical to service	No Redundancy	4
2566	HDPE	6	96	Critical to service	No Redundancy	4
2567	PVC	6	46	Critical to service	No Redundancy	4
2568	DIP	30	38	Critical to service	No Redundancy	4
2570	DIP	30	46	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2571	Unknown	8	46	Critical to service	No Redundancy	4
2572	PVC	8	46	Critical to service	No Redundancy	4
2574	PVC	6	52	Critical to service	No Redundancy	4
2575	PVC	8	40	Critical to service	No Redundancy	4
2576	PVC	6	52	Critical to service	No Redundancy	4
2577	PVC	4	52	Critical to service	No Redundancy	4
2580	PVC	8	Unknown	Critical to service	No Redundancy	4
2581	PVC	4	52	Critical to service	No Redundancy	4
2582	PVC	4	52	Critical to service	No Redundancy	4
2583	PVC	4	52	Critical to service	No Redundancy	4
2585	PVC	4	52	Critical to service	No Redundancy	4
2586	PVC	4	52	Critical to service	No Redundancy	4
2587	PVC	4	52	Critical to service	No Redundancy	4
2588	PVC	4	52	Critical to service	No Redundancy	4
2589	PVC	4	52	Critical to service	No Redundancy	4
2590	PVC	4	52	Critical to service	No Redundancy	4
2592	PVC	4	52	Critical to service	No Redundancy	4
2593	PVC	6	52	Critical to service	No Redundancy	4
2595	PVC	4	52	Critical to service	No Redundancy	4
2596	PVC	6	52	Critical to service	No Redundancy	4
2597	PVC	4	52	Critical to service	No Redundancy	4
2598	DIP	30	47	Critical to service	No Redundancy	4
2603	DIP	30	47	Critical to service	No Redundancy	4
2604	PVC	6	50	Critical to service	No Redundancy	4
2605	PVC	12	48	Critical to service	No Redundancy	4
2606	PVC	6	51	Critical to service	No Redundancy	4
2607	PVC	6	51	Critical to service	No Redundancy	4
2608	PVC	4	51	Critical to service	No Redundancy	4
2609	PVC	12	48	Critical to service	No Redundancy	4
2610	PVC	4	51	Critical to service	No Redundancy	4
2611	PVC	4	51	Critical to service	No Redundancy	4
2612	PVC	4	51	Critical to service	No Redundancy	4
2613	PVC	6	46	Critical to service	No Redundancy	4
2614	PVC	12	48	Critical to service	No Redundancy	4
2615	PVC	6	51	Critical to service	No Redundancy	4
2616	PVC	6	51	Critical to service	No Redundancy	4
2617	PVC	6	51	Critical to service	No Redundancy	4
2618	PVC	4	51	Critical to service	No Redundancy	4
2621	PVC	4	51	Critical to service	No Redundancy	4
2622	PVC	4	51	Critical to service	No Redundancy	4
2623	PVC	4	51	Critical to service	No Redundancy	4
2624	PVC	4	51	Critical to service	No Redundancy	4
2625	PVC	4	51	Critical to service	No Redundancy	4
2626	PVC	4	51	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2627	PVC	4	51	Critical to service	No Redundancy	4
2628	PVC	4	51	Critical to service	No Redundancy	4
2629	PVC	4	51	Critical to service	No Redundancy	4
2630	PVC	4	51	Critical to service	No Redundancy	4
2631	PVC	4	51	Critical to service	No Redundancy	4
2632	PVC	4	51	Critical to service	No Redundancy	4
2633	PVC	12	48	Critical to service	No Redundancy	4
2634	PVC	4	51	Critical to service	No Redundancy	4
2635	PVC	4	51	Critical to service	No Redundancy	4
2636	PVC	4	51	Critical to service	No Redundancy	4
2637	PVC	4	51	Critical to service	No Redundancy	4
2638	PVC	4	48	Critical to service	No Redundancy	4
2639	PVC	4	51	Critical to service	No Redundancy	4
2640	PVC	4	48	Critical to service	No Redundancy	4
2641	PVC	6	51	Critical to service	No Redundancy	4
2642	PVC	4	51	Critical to service	No Redundancy	4
2643	PVC	4	51	Critical to service	No Redundancy	4
2644	PVC	4	51	Critical to service	No Redundancy	4
2645	PVC	4	51	Critical to service	No Redundancy	4
2646	PVC	4	51	Critical to service	No Redundancy	4
2647	PVC	6	51	Critical to service	No Redundancy	4
2648	PVC	4	51	Critical to service	No Redundancy	4
2649	PVC	6	51	Critical to service	No Redundancy	4
2650	PVC	6	51	Critical to service	No Redundancy	4
2651	PVC	6	52	Critical to service	No Redundancy	4
2652	DIP	20	27	Critical to service	No Redundancy	4
2653	DIP	20	27	Critical to service	No Redundancy	4
2654	DIP	30	45	Critical to service	No Redundancy	4
2655	HDPE	30	95	Critical to service	No Redundancy	4
2656	HDPE	4	94	Critical to service	No Redundancy	4
2657	PVC	8	Unknown	Critical to service	No Redundancy	4
2658	DIP	20	40	Critical to service	No Redundancy	4
2659	DIP	20	40	Critical to service	No Redundancy	4
2660	DIP	20	40	Critical to service	No Redundancy	4
2661	DIP	20	40	Critical to service	No Redundancy	4
2662	DIP	20	40	Critical to service	No Redundancy	4
2663	DIP	20	40	Critical to service	No Redundancy	4
2664	DIP	16	40	Critical to service	No Redundancy	4
2665	DIP	36	40	Critical to service	No Redundancy	4
2666	DIP	36	40	Critical to service	No Redundancy	4
2667	DIP	36	40	Critical to service	No Redundancy	4
2668	DIP	36	40	Critical to service	No Redundancy	4
2669	DIP	36	40	Critical to service	No Redundancy	4
2670	DIP	36	40	Critical to service	No Redundancy	4

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Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2671	DIP	24	40	Critical to service	No Redundancy	4
2672	DIP	36	40	Critical to service	No Redundancy	4
2673	DIP	36	40	Critical to service	No Redundancy	4
2674	DIP	24	40	Critical to service	No Redundancy	4
2675	DIP	16	40	Critical to service	No Redundancy	4
2676	DIP	16	40	Critical to service	No Redundancy	4
2677	DIP	16	40	Critical to service	No Redundancy	4
2678	DIP	36	40	Critical to service	No Redundancy	4
2679	DIP	36	40	Critical to service	No Redundancy	4
2680	DIP	36	40	Critical to service	No Redundancy	4
2681	DIP	8	40	Critical to service	No Redundancy	4
2682	DIP	8	40	Critical to service	No Redundancy	4
2683	DIP	8	40	Critical to service	No Redundancy	4
2684	DIP	8	40	Critical to service	No Redundancy	4
2685	DIP	16	40	Critical to service	No Redundancy	4
2686	DIP	24	32	Critical to service	No Redundancy	4
2687	DIP	24	32	Critical to service	No Redundancy	4
2688	DIP	16	32	Critical to service	No Redundancy	4
2689	DIP	24	32	Critical to service	No Redundancy	4
2690	DIP	24	39	Critical to service	No Redundancy	4
2691	DIP	24	32	Critical to service	No Redundancy	4
2692	DIP	24	39	Critical to service	No Redundancy	4
2693	DIP	24	39	Critical to service	No Redundancy	4
2694	DIP	16	39	Critical to service	No Redundancy	4
2695	DIP	24	39	Critical to service	No Redundancy	4
2696	DIP	16	39	Critical to service	No Redundancy	4
2697	PVC	4	48	Critical to service	No Redundancy	4
2698	PVC	2	48	Critical to service	No Redundancy	4
2699	PVC	12	44	Critical to service	No Redundancy	4
2700	PVC	3	44	Critical to service	No Redundancy	4
2701	PVC	16	51	Critical to service	No Redundancy	4
2702	PVC	30	45	Critical to service	No Redundancy	4
2703	DIP	24	37	Critical to service	No Redundancy	4
2704	PVC	30	42	Critical to service	No Redundancy	4
2705	PVC	16	42	Critical to service	No Redundancy	4
2706	PVC	12	42	Critical to service	No Redundancy	4
2707	PVC	14	37	Critical to service	No Redundancy	4
2708	PVC	14	37	Critical to service	No Redundancy	4
2709	PE	1.5	93	Critical to service	No Redundancy	4
2710	DIP	18	27	Critical to service	No Redundancy	4
2711	DIP	30	46	Critical to service	No Redundancy	4
2712	PVC	8	53	Critical to service	No Redundancy	4
2713	PVC	8	53	Critical to service	No Redundancy	4
2714	PVC	8	53	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2715	PVC	8	53	Critical to service	No Redundancy	4
2716	PVC	8	53	Critical to service	No Redundancy	4
2717	PVC	8	53	Critical to service	No Redundancy	4
2718	PVC	8	53	Critical to service	No Redundancy	4
2719	PVC	8	53	Critical to service	No Redundancy	4
2720	PVC	8	53	Critical to service	No Redundancy	4
2721	PVC	8	53	Critical to service	No Redundancy	4
2722	PVC	8	53	Critical to service	No Redundancy	4
2723	PVC	12	43	Critical to service	No Redundancy	4
2724	PVC	8	53	Critical to service	No Redundancy	4
2725	PVC	8	53	Critical to service	No Redundancy	4
2726	PVC	8	53	Critical to service	No Redundancy	4
2727	PVC	8	53	Critical to service	No Redundancy	4
2728	PVC	8	53	Critical to service	No Redundancy	4
2729	PVC	8	53	Critical to service	No Redundancy	4
2730	PVC	8	53	Critical to service	No Redundancy	4
2731	PVC	8	53	Critical to service	No Redundancy	4
2732	PVC	8	53	Critical to service	No Redundancy	4
2733	PVC	8	53	Critical to service	No Redundancy	4
2734	PVC	8	53	Critical to service	No Redundancy	4
2735	PVC	8	53	Critical to service	No Redundancy	4
2736	PVC	8	53	Critical to service	No Redundancy	4
2737	DIP	20	27	Critical to service	No Redundancy	4
2739	DIP	14	27	Critical to service	No Redundancy	4
2741	DIP	20	27	Critical to service	No Redundancy	4
2742	DIP	20	27	Critical to service	No Redundancy	4
2743	DIP	20	27	Critical to service	No Redundancy	4
2744	PVC	6	37	Critical to service	No Redundancy	4
2745	DIP	20	27	Critical to service	No Redundancy	4
2746	DIP	20	27	Critical to service	No Redundancy	4
2747	PVC	10	37	Critical to service	No Redundancy	4
2748	PVC	6	42	Critical to service	No Redundancy	4
2749	PVC	8	Unknown	Critical to service	No Redundancy	4
2750	PVC	8	45	Critical to service	No Redundancy	4
2751	PVC	6	Unknown	Critical to service	No Redundancy	4
2752	PVC	6	45	Critical to service	No Redundancy	4
2753	PVC	8	37	Critical to service	No Redundancy	4
2754	PVC	8	37	Critical to service	No Redundancy	4
2755	PVC	6	43	Critical to service	No Redundancy	4
2756	PVC	6	Unknown	Critical to service	No Redundancy	4
2757	PVC	12	46	Critical to service	No Redundancy	4
2758	PVC	6	46	Critical to service	No Redundancy	4
2759	PVC	6	46	Critical to service	No Redundancy	4
2760	PVC	6	46	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2761	PVC	6	51	Critical to service	No Redundancy	4
2762	PVC	12	46	Critical to service	No Redundancy	4
2763	PVC	6	46	Critical to service	No Redundancy	4
2764	PVC	6	46	Critical to service	No Redundancy	4
2765	PVC	6	46	Critical to service	No Redundancy	4
2766	PVC	6	46	Critical to service	No Redundancy	4
2767	PVC	8	46	Critical to service	No Redundancy	4
2768	PVC	6	46	Critical to service	No Redundancy	4
2769	PVC	6	46	Critical to service	No Redundancy	4
2770	PVC	6	46	Critical to service	No Redundancy	4
2771	PVC	6	52	Critical to service	No Redundancy	4
2772	PVC	6	52	Critical to service	No Redundancy	4
2773	PVC	4	52	Critical to service	No Redundancy	4
2774	PVC	6	42	Critical to service	No Redundancy	4
2775	PVC	6	42	Critical to service	No Redundancy	4
2777	PVC	6	46	Critical to service	No Redundancy	4
2778	PVC	6	46	Critical to service	No Redundancy	4
2779	PVC	6	48	Critical to service	No Redundancy	4
2782	DIP	8	46	Critical to service	No Redundancy	4
2783	PVC	6	53	Critical to service	No Redundancy	4
2784	PVC	6	53	Critical to service	No Redundancy	4
2785	PVC	6	53	Critical to service	No Redundancy	4
2786	PVC	4	53	Critical to service	No Redundancy	4
2788	PVC	4	53	Critical to service	No Redundancy	4
2789	PVC	4	53	Critical to service	No Redundancy	4
2791	PVC	4	53	Critical to service	No Redundancy	4
2792	PVC	4	53	Critical to service	No Redundancy	4
2793	PVC	4	53	Critical to service	No Redundancy	4
2794	PVC	4	53	Critical to service	No Redundancy	4
2795	PVC	4	53	Critical to service	No Redundancy	4
2796	PVC	4	53	Critical to service	No Redundancy	4
2797	PVC	12	48	Critical to service	No Redundancy	4
2798	PVC	12	50	Critical to service	No Redundancy	4
2799	DIP	36	40	Critical to service	No Redundancy	4
2800	DIP	36	40	Critical to service	No Redundancy	4
2802	PVC	12	45	Critical to service	No Redundancy	4
2803	PVC	30	45	Critical to service	No Redundancy	4
2804	PVC	12	45	Critical to service	No Redundancy	4
2805	DIP	36	48	Critical to service	No Redundancy	4
2806	PVC	8	53	Critical to service	No Redundancy	4
2807	PVC	16	53	Critical to service	No Redundancy	4
2808	DIP	16	48	Critical to service	No Redundancy	4
2811	DIP	16	48	Critical to service	No Redundancy	4
2830	DIP	16	48	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2832	DIP	16	48	Critical to service	No Redundancy	4
2833	DIP	16	48	Critical to service	No Redundancy	4
2834	HDPE	16	98	Critical to service	No Redundancy	4
2836	PVC	16	53	Critical to service	No Redundancy	4
2837	HDPE	16	98	Critical to service	No Redundancy	4
2839	PVC	16	53	Critical to service	No Redundancy	4
2841	HDPE	16	98	Critical to service	No Redundancy	4
2843	PVC	16	Unknown	Critical to service	No Redundancy	4
2844	HDPE	16	98	Critical to service	No Redundancy	4
2845	PVC	16	53	Critical to service	No Redundancy	4
2846	HDPE	16	Unknown	Critical to service	No Redundancy	4
2847	PVC	16	53	Critical to service	No Redundancy	4
2849	HDPE	16	Unknown	Critical to service	No Redundancy	4
2851	PVC	16	53	Critical to service	No Redundancy	4
2852	HDPE	16	98	Critical to service	No Redundancy	4
2853	PVC	16	53	Critical to service	No Redundancy	4
2855	HDPE	16	98	Critical to service	No Redundancy	4
2856	PVC	16	Unknown	Critical to service	No Redundancy	4
2858	HDPE	16	Unknown	Critical to service	No Redundancy	4
2859	PVC	16	Unknown	Critical to service	No Redundancy	4
2860	HDPE	16	Unknown	Critical to service	No Redundancy	4
2861	PVC	16	Unknown	Critical to service	No Redundancy	4
2862	HDPE	16	98	Critical to service	No Redundancy	4
2863	PVC	16	53	Critical to service	No Redundancy	4
2864	HDPE	16	Unknown	Critical to service	No Redundancy	4
2865	PVC	16	53	Critical to service	No Redundancy	4
2867	HDPE	16	98	Critical to service	No Redundancy	4
2868	PVC	16	53	Critical to service	No Redundancy	4
2869	HDPE	16	98	Critical to service	No Redundancy	4
2871	PVC	16	53	Critical to service	No Redundancy	4
2872	HDPE	16	98	Critical to service	No Redundancy	4
2873	PVC	16	53	Critical to service	No Redundancy	4
2874	HDPE	16	Unknown	Critical to service	No Redundancy	4
2875	PVC	16	53	Critical to service	No Redundancy	4
2877	HDPE	16	Unknown	Critical to service	No Redundancy	4
2879	PVC	16	53	Critical to service	No Redundancy	4
2881	HDPE	16	Unknown	Critical to service	No Redundancy	4
2882	PVC	16	53	Critical to service	No Redundancy	4
2883	HDPE	16	98	Critical to service	No Redundancy	4
2884	PVC	16	53	Critical to service	No Redundancy	4
2885	HDPE	16	98	Critical to service	No Redundancy	4
2886	PVC	16	53	Critical to service	No Redundancy	4
2889	HDPE	16	98	Critical to service	No Redundancy	4
2890	PVC	16	53	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2891	HDPE	16	98	Critical to service	No Redundancy	4
2892	PVC	16	53	Critical to service	No Redundancy	4
2893	HDPE	16	98	Critical to service	No Redundancy	4
2894	PVC	16	53	Critical to service	No Redundancy	4
2895	HDPE	16	98	Critical to service	No Redundancy	4
2896	PVC	16	53	Critical to service	No Redundancy	4
2897	HDPE	16	98	Critical to service	No Redundancy	4
2898	PVC	16	53	Critical to service	No Redundancy	4
2899	HDPE	16	98	Critical to service	No Redundancy	4
2900	PVC	16	53	Critical to service	No Redundancy	4
2901	HDPE	16	98	Critical to service	No Redundancy	4
2902	PVC	16	53	Critical to service	No Redundancy	4
2903	HDPE	16	98	Critical to service	No Redundancy	4
2904	PVC	16	53	Critical to service	No Redundancy	4
2905	HDPE	16	98	Critical to service	No Redundancy	4
2908	DIP	12	48	Critical to service	No Redundancy	4
2911	DIP	20	42	Critical to service	No Redundancy	4
2912	PVC	4	53	Critical to service	No Redundancy	4
2913	PVC	6	53	Critical to service	No Redundancy	4
2914	PVC	8	Unknown	Critical to service	No Redundancy	4
2915	PVC	6	Unknown	Critical to service	No Redundancy	4
2916	PVC	6	53	Critical to service	No Redundancy	4
2917	PVC	6	53	Critical to service	No Redundancy	4
2918	PVC	6	53	Critical to service	No Redundancy	4
2919	PVC	4	53	Critical to service	No Redundancy	4
2920	PVC	6	53	Critical to service	No Redundancy	4
2921	PVC	4	53	Critical to service	No Redundancy	4
2923	PVC	4	53	Critical to service	No Redundancy	4
2924	PVC	4	53	Critical to service	No Redundancy	4
2925	PVC	6	53	Critical to service	No Redundancy	4
2926	PVC	6	53	Critical to service	No Redundancy	4
2927	PVC	6	53	Critical to service	No Redundancy	4
2928	PVC	6	53	Critical to service	No Redundancy	4
2930	PVC	6	53	Critical to service	No Redundancy	4
2931	PVC	6	53	Critical to service	No Redundancy	4
2932	PVC	8	46	Critical to service	No Redundancy	4
2933	PVC	4	46	Critical to service	No Redundancy	4
2934	PVC	8	46	Critical to service	No Redundancy	4
2936	PVC	4	46	Critical to service	No Redundancy	4
2937	PVC	4	46	Critical to service	No Redundancy	4
2938	PVC	12	54	Critical to service	No Redundancy	4
2939	PVC	6	54	Critical to service	No Redundancy	4
2940	PVC	6	54	Critical to service	No Redundancy	4
2941	PVC	6	54	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2942	PVC	8	54	Critical to service	No Redundancy	4
2943	PVC	4	54	Critical to service	No Redundancy	4
2944	DIP	20	49	Critical to service	No Redundancy	4
2945	PVC	6	50	Critical to service	No Redundancy	4
2949	Unknown	0	Unknown	Critical to service	No Redundancy	4
2950	PVC	6	50	Critical to service	No Redundancy	4
2951	PVC	6	50	Critical to service	No Redundancy	4
2952	PVC	6	46	Critical to service	No Redundancy	4
2953	PVC	6	46	Critical to service	No Redundancy	4
2954	PVC	4	53	Critical to service	No Redundancy	4
2956	PVC	4	53	Critical to service	No Redundancy	4
2957	PVC	4	53	Critical to service	No Redundancy	4
2958	PVC	6	53	Critical to service	No Redundancy	4
2959	PVC	8	54	Critical to service	No Redundancy	4
2960	PVC	8	54	Critical to service	No Redundancy	4
2964	PVC	8	54	Critical to service	No Redundancy	4
2966	PVC	8	54	Critical to service	No Redundancy	4
2969	PVC	6	54	Critical to service	No Redundancy	4
2970	PVC	6	54	Critical to service	No Redundancy	4
2971	PVC	6	54	Critical to service	No Redundancy	4
2972	PVC	12	54	Critical to service	No Redundancy	4
2973	PVC	12	54	Critical to service	No Redundancy	4
2974	PVC	12	54	Critical to service	No Redundancy	4
2975	PVC	12	54	Critical to service	No Redundancy	4
2976	PVC	10	54	Critical to service	No Redundancy	4
2977	PVC	10	45	Critical to service	No Redundancy	4
2978	PVC	2	54	Critical to service	No Redundancy	4
2979	PVC	12	54	Critical to service	No Redundancy	4
2980	PVC	2	55	Critical to service	No Redundancy	4
2981	PVC	8	55	Critical to service	No Redundancy	4
2982	PVC	6	55	Critical to service	No Redundancy	4
2983	PVC	6	55	Critical to service	No Redundancy	4
2984	PVC	6	55	Critical to service	No Redundancy	4
2985	PVC	12	Unknown	Critical to service	No Redundancy	4
2986	PVC	4	55	Critical to service	No Redundancy	4
2987	PVC	4	55	Critical to service	No Redundancy	4
2988	PVC	4	55	Critical to service	No Redundancy	4
2989	PVC	4	55	Critical to service	No Redundancy	4
2990	PVC	6	55	Critical to service	No Redundancy	4
2991	PVC	4	55	Critical to service	No Redundancy	4
2992	PVC	4	55	Critical to service	No Redundancy	4
2993	PVC	8	49	Critical to service	No Redundancy	4
2994	PVC	12	49	Critical to service	No Redundancy	4
2996	PVC	12	49	Critical to service	No Redundancy	4

Apopka Phase I Wastewater Utility System Prioritization Worksheet

Date Worksheet Completed/Updated: 10/30/15

Asset			Remaining Useful Life	Importance	Redundancy	Priority (1 is high)
Reclaimed mains ID:	**Material**	**Diameter (Inches)**				
2997	PVC	12	49	Critical to service	No Redundancy	4
2998	PVC	12	49	Critical to service	No Redundancy	4
2999	PVC	12	49	Critical to service	No Redundancy	4
3000	PVC	12	49	Critical to service	No Redundancy	4
3001	PVC	12	49	Critical to service	No Redundancy	4
3002	PVC	12	49	Critical to service	No Redundancy	4
3003	PVC	12	42	Critical to service	No Redundancy	4
3004	PVC	4	48	Critical to service	No Redundancy	4
3005	PVC	20	Unknown	Critical to service	No Redundancy	4
3006	PVC	8	55	Critical to service	No Redundancy	4
3007	PVC	6	55	Critical to service	No Redundancy	4
3008	PVC	6	55	Critical to service	No Redundancy	4
3009	PVC	6	55	Critical to service	No Redundancy	4
3010	PVC	6	55	Critical to service	No Redundancy	4
3011	PVC	6	55	Critical to service	No Redundancy	4
3012	PVC	6	55	Critical to service	No Redundancy	4
3013	PVC	6	55	Critical to service	No Redundancy	4
3014	PVC	6	55	Critical to service	No Redundancy	4
3015	PVC	6	55	Critical to service	No Redundancy	4
3016	PVC	6	55	Critical to service	No Redundancy	4
3017	PVC	6	55	Critical to service	No Redundancy	4
3018	PVC	12	42	Critical to service	No Redundancy	4
3020	DIP	12	42	Critical to service	No Redundancy	4
3021	PVC	6	46	Critical to service	No Redundancy	4
3022	PVC	6	46	Critical to service	No Redundancy	4
3023	PVC	8	46	Critical to service	No Redundancy	4
3024	PVC	20	55	Critical to service	No Redundancy	4
3025	PVC	36	55	Critical to service	No Redundancy	4
3026	DIP	48	50	Critical to service	No Redundancy	4
3027	DIP	36	50	Critical to service	No Redundancy	4
3028	DIP	20	50	Critical to service	No Redundancy	4
3029	DIP	36	50	Critical to service	No Redundancy	4
3031	DIP	48	50	Critical to service	No Redundancy	4
3032	PVC	8	55	Critical to service	No Redundancy	4

APPENDIX E

2015 REQUIRED ASSET MANAGEMENT RESERVES WORKSHEET

(Volume II Appendices on CD in pocket on inside back cover)

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
Identifier						
BFpb-6	Belt Press Polymer Blend Pump Unit	Poor	Replacement	0	$ 7,990	$ 7,990
BLef-1	Blower Room Exhaust Fan #1, Southeast	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-2	Blower Room Exhaust Fan #2, Southwest	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-3	Blower Room Exhaust Fan #3, Northwest	Fair	Replacement	0	$ 2,500	$ 2,500
BLef-4	Blower Room Exhaust Fan #4, Northeast	Fair	Replacement	0	$ 2,500	$ 2,500
BLGENspf-1	Generator Room Supply Fan	Fair	Replacement	0	$ 2,500	$ 2,500
COef-1	Exhaust Fan #1	Fair	Replacement	2	$ 150	$ 150
PBU	Polymer Blending Unit	Fair	Replacement	2	$ 10,348	$ 10,348
REdisth-18-arv-1	Reuse 18" Dist. Header ARV #1	Fair	Replacement	2	$ 400	$ 400
REdisth-18-arv-2	Reuse 18" Dist. Header ARV #2	Fair	Replacement	2	$ 400	$ 400
COefcp-1	Exhaust Fan #1 Control Panel	Fair	Replacement	5	$ 200	$ 200
ECCwsp-1	East Contact Chamber Sample Pump, West	Fair	Replacement	0	$ 247	$ 247
TRplos-1	Transfer Pump #1 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
TRplos-2	Transfer Pump #2 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
TRplos-3	Transfer Pump #3 Lockout Switch	Fair	Replacement	0	$ 1,200	$ 1,200
LS016*	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 14,164	$ 14,164
LS038*	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 28,646	$ 28,646

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS009*	Lift Station Structure (Coating)	Poor	Rehabilitation	3	$ 43,764	$ 43,764
LS028*	6" Ductile (FM Replacement)	Poor	Replacement	14	$ 5,051	$ 5,051
LS037*	4" Ductile (FM Replacement)	Poor	Replacement	22	$ 4,880	$ 4,880
LS015*	4" Ductile (FM Replacement)	Poor	Replacement	29	$ 4,880	$ 4,880
LS010*	47/47 HP Control Panel	Poor	Replacement	0	$ 25,000	$ 25,000
LS017*	50/25 HP GEN-SET Engine (250 KW)	Poor	Replacement	0	$ 25,000	$ 25,000
LS021*	20/20 HP Control Panel	Poor	Replacement	0	$ 25,000	$ 25,000
LS029*	88/88 HP Control Panel	Poor	Replacement	0	$ 40,000	$ 40,000
LS029*	88/88 HP GEN-SET Engine (125 KW)	Poor	Replacement	0	$ 60,000	$ 60,000
LS030*	10/10 HP Control Panel	Poor	Replacement	0	$ 15,000	$ 15,000
LS005Asp-1*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS005Asp-2*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS017p-1*	Pump Motor, 50 hp.	Poor	Replacement	0	$ 30,000	$ 30,000
LS030sp-1*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS030sp-2*	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS005*	20/20 HP Control Panel	Poor	Replacement	2	$ 25,000	$ 25,000
LS038*	4" Ductile (FM Replacement)	Poor	Replacement	12	$ 4,880	$ 4,880

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS025	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 12,731	$ 12,731
LS031	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 28,544	$ 28,544
LS032	Lift Station Structure (Coating)	Poor	Rehabilitation	0	$ 13,129	$ 13,129
LS010	6" Plug Valve	Poor	Replacement	0	$ 1,246	$ 1,246
LS017#1 Gate Valve	16" Gate Valve	Poor	Replacement	0	$ 26,206	$ 26,206
LS017#1 Plug Valve	18" Plug Valve	Poor	Replacement	0	$ 10,333	$ 10,333
LS017#2 Gate Valve	16" Gate Valve	Poor	Replacement	0	$ 26,206	$ 26,206
LS017#2 Plug Valve	18" Plug Valve	Poor	Replacement	0	$ 10,333	$ 10,333
LS017#3 Gate Valve	14" Gate Valve	Poor	Replacement	0	$ 18,204	$ 18,204
LS017#4 Gate Valve	12" Gate Valve	Poor	Replacement	0	$ 11,478	$ 11,478
LS018	6" Plug Valve	Poor	Replacement	0	$ 1,246	$ 1,246
LS028	6" Plug Valve	Poor	Replacement	0	$ 1,246	$ 1,246
LS013	2.3/5 HP Control Panel	Poor	Replacement	1	$ 10,000	$ 10,000
LS025	15/15 HP Control Panel	Poor	Replacement	1	$ 15,000	$ 15,000
LS027	2.3/2.3 HP Control Panel	Poor	Replacement	1	$ 10,000	$ 10,000
LS028	5/5 HP Control Panel	Poor	Replacement	1	$ 10,200	$ 10,200
LS051	30/30 HP Control Panel	Poor	Replacement	1	$ 25,000	$ 25,000
LS083	47/47 HP Control Panel	Poor	Replacement	1	$ 25,000	$ 25,000
LS020	47/47 HP Control Panel	Poor	Replacement	2	$ 25,000	$ 25,000
LS021A	10/10 HP Control Panel	Poor	Replacement	2	$ 15,000	$ 15,000
LS026	5/5 HP Control Panel	Poor	Replacement	2	$ 10,200	$ 10,200
LS060	47/47 HP Control Panel	Poor	Replacement	2	$ 25,000	$ 25,000

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS039	20/20 HP Control Panel	Poor	Replacement	4	$ 25,000	$ 25,000
LS067	60/60 HP Control Panel	Poor	Replacement	4	$ 30,000	$ 30,000
LS035	6" Ductile (FM Replacement)	Poor	Replacement	19	$ 5,051	$ 5,051
LS028	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS038	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS039	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS011	4" Plug Valve	Fair	Replacement	0	$ 727	$ 727
LS027	4" Plug Valve	Fair	Replacement	0	$ 727	$ 727
LS038	4" Plug Valve	Fair	Replacement	0	$ 727	$ 727
LS051	8" Plug Valve	Fair	Replacement	0	$ 1,737	$ 1,737
1	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 500	$ 500
2	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 500	$ 500
3	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 500	$ 500
41	8" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
42	16" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
51	18" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 10,333	$ 10,333
52	18" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 10,333	$ 10,333
61	8" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
62	14" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 4,947	$ 4,947
63	14" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 4,947	$ 4,947

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
67	16" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
69	16" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
70	16" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
71	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
72	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
73	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
74	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
84	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
96	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
97	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
99	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
152	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
153	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	0	$ 235	$ 235
2	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
3	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
4	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
5	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
7	2" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 2,447	$ 2,447
13	4" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 727	$ 727
14	4" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 727	$ 727
34	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
81	16" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
82	16" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 6,923	$ 6,923
84	4" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,244	$ 3,244
85	6" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,604	$ 3,604
111	4" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 727	$ 727
122	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
125	8" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 4,804	$ 4,804
133	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
137	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
138	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,246	$ 1,246
139	20" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 14,956	$ 14,956
140	20" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 14,956	$ 14,956

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
141	20" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 14,956	$ 14,956
142	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
200	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,246	$ 1,246
201	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
202	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
203	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
204	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
205	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
206	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
207	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
208	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
209	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
210	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,246	$ 1,246
213	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 1,737	$ 1,737
230	4" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,244	$ 3,244

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
389	12" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 11,478	$ 11,478
390	12" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 11,478	$ 11,478
391	12" Gate Valve, System Valve Dist. FM	Fair	Replacement	0	$ 11,478	$ 11,478
392	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	0	$ 3,373	$ 3,373
LS029	Lift Station Structure (Coating)	Fair	Rehabilitation	0	$ 30,025	$ 30,025
LS013	Lift Station Structure (Coating)	Fair	Rehabilitation	0	$ 13,769	$ 13,769
LS001	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS002	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS003	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS004	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS005A	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS009A	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS013	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS017#1	16" Check Valve	Fair	Replacement	0	$ 20,098	$ 20,098
LS017#2	16" Check Valve	Fair	Replacement	0	$ 20,098	$ 20,098
LS017#3	14" Check Valve	Fair	Replacement	0	$ 14,782	$ 14,782
LS017#4	12" Check Valve	Fair	Replacement	0	$ 10,497	$ 10,497
LS019	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS023	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS027	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS032	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS037	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS041	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS042	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS043	6" Check Valve	Fair	Replacement	0	$ 2,553	$ 2,553
LS044	4" Check Valve	Fair	Replacement	0	$ 1,700	$ 1,700
LS002	6" Plug Valve	Fair	Replacement	0	$ 1,246	$ 1,246
LS005	6" Plug Valve	Fair	Replacement	0	$ 1,246	$ 1,246
LS009	6" Plug Valve	Fair	Replacement	0	$ 1,246	$ 1,246

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS017#3 Plug Valve	14" Plug Valve	Fair	Replacement	0	$ 4,947	$ 4,947
LS025	6" Plug Valve	Fair	Replacement	0	$ 1,246	$ 1,246
LS030	8" Plug Valve	Fair	Replacement	0	$ 1,737	$ 1,737
LS039	6" Plug Valve	Fair	Replacement	0	$ 1,246	$ 1,246
LS083	8" Plug Valve	Fair	Replacement	0	$ 1,737	$ 1,737
24	Dist. Forcemain 20" PVC/ 467.3 ft	Fair	Replacement	0	$ 85,049	$ 85,049
25	Dist. Forcemain 20" PVC/ 5,404 ft	Fair	Replacement	0	$ 983,528	$ 983,528
88	Dist. Forcemain 2" PVC/ 378.4 ft	Fair	Replacement	0	$ 21,190	$ 21,190
91	Dist. Forcemain 4" PVC/ 1,025.4 ft	Fair	Replacement	0	$ 57,422	$ 57,422
92	Dist. Forcemain 3" PVC/ 3,867.2 ft	Fair	Replacement	0	$ 216,563	$ 216,563
191	Dist. Forcemain 2.5" PVC/ 276.8 ft	Fair	Replacement	0	$ 15,501	$ 15,501
204	Dist. Forcemain 2" PVC/ 354.5 ft	Fair	Replacement	0	$ 19,852	$ 19,852
345	Dist. Forcemain 12" PVC/3,233 ft	Fair	Replacement	0	$ 290,970	$ 290,970
LS020	Lift Station Structure (Coating)	Fair	Rehabilitation	1	$ 27,059	$ 27,059
LS021	6" Check Valve	Fair	Replacement	1	$ 2,553	$ 2,553
LS030	Lift Station Structure (Coating)	Fair	Rehabilitation	2	$ 17,502	$ 17,502
LS041	14.8/14.1 HP Control Panel	Fair	Replacement	2	$ 15,000	$ 15,000
86	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	2	$ 500	$ 500
93	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	2	$ 500	$ 500
94	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	2	$ 500	$ 500
95	2" Plug Valve, Control Valve Dist. FM	Fair	Replacement	2	$ 500	$ 500
170	14" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 4,947	$ 4,947

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
191	14" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 4,947	$ 4,947
192	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
193	18" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 10,333	$ 10,333
194	18" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 10,333	$ 10,333
195	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
196	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
197	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
198	16" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 6,923	$ 6,923
199	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
268	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
269	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
299	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 1,737	$ 1,737
300	18" Plug Valve, System Valve Dist. FM	Fair	Replacement	2	$ 10,333	$ 10,333
LS057	8" Check Valve	Fair	Replacement	3	$ 3,737	$ 3,737
LS002	47/47 HP Control Panel	Fair	Replacement	3	$ 25,000	$ 25,000
43	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
44	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
45	8" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737
46	8" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737
47	8" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737
48	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
49	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
50	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
86	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
87	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
88	12" Gate Valve, System Valve Dist. FM	Fair	Replacement	3	$ 11,478	$ 11,478
89	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
90	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
91	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
92	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
94	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 1,246	$ 1,246

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
95	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
96	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
97	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737
98	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737
99	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
100	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
101	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
102	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
103	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
104	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
105	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
106	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 1,246	$ 1,246
109	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
110	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 1,737	$ 1,737

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
127	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
128	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
129	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	3	$ 3,373	$ 3,373
LS083	8" Check Valve	Fair	Replacement	4	$ 3,737	$ 3,737
LS001	10/10 HP Control Panel	Fair	Replacement	4	$ 15,000	$ 15,000
LS003	20/20 HP Control Panel	Fair	Replacement	4	$ 25,000	$ 25,000
LS037	3.2/3.2 HP Control Panel	Fair	Replacement	4	$ 10,000	$ 10,000
53	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
54	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
55	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	4	$ 3,373	$ 3,373
57	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
113	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
117	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
118	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
119	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
120	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 2,570	$ 2,570
134	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 1,246	$ 1,246
143	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 1,246	$ 1,246
144	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	4	$ 1,246	$ 1,246
LS060	6" Check Valve	Fair	Replacement	5	$ 2,553	$ 2,553
LS004	20/20 HP Control Panel	Fair	Replacement	5	$ 25,000	$ 25,000
LS014	15/15 HP Control Panel	Fair	Replacement	5	$ 15,000	$ 15,000
58	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	5	$ 2,570	$ 2,570
59	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	5	$ 2,570	$ 2,570
60	10" Plug Valve, Control Valve Dist. FM	Fair	Replacement	5	$ 2,570	$ 2,570
91	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
92	12" Plug Valve, Control Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
9	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 1,246	$ 1,246
112	4" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 727	$ 727
114	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 2,570	$ 2,570
121	10" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 2,570	$ 2,570

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
179	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
180	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 1,246	$ 1,246
181	6" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 1,246	$ 1,246
182	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
183	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
184	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 1,737	$ 1,737
185	8" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 1,737	$ 1,737
186	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
187	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
188	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
189	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
190	12" Plug Valve, System Valve Dist. FM	Fair	Replacement	5	$ 3,373	$ 3,373
LS009A	Lift Station Structure (Coating)	Poor	Rehabilitation	5	$ 11,856	$ 11,856
LS003sp-1	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS003sp-2	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS004sp-1	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS004sp-2	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS005sp-1	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS007sp-1	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS007sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS008sp-1	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS008sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS009sp-1	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950
LS009sp-2	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950
LS009Asp-1	Submersible Pump, 3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS009Asp-2	Submersible Pump, 3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS010sp-1	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950
LS010sp-2	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950
LS011sp-1	Submersible Pump, 3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS011sp-2	Submersible Pump, 3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS013sp-1	Submersible Pump, 2.3 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS013sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS015sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS016sp-1	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS016sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS019sp-1	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS019sp-2	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS020sp-1	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS020sp-2	Submersible Pump, 47 hp.	Poor	Replacement	0	$ 25,950	$ 25,950
LS021sp-1	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS021sp-2	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS023sp-1	Submersible Pump, 9.4 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS023sp-2	Submersible Pump, 9.4 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS024sp-1	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS024sp-2	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS025sp-1	Submersible Pump, 15 hp.	Poor	Replacement	0	$ 13,196	$ 13,196
LS025sp-2	Submersible Pump, 15 hp.	Poor	Replacement	0	$ 13,196	$ 13,196
LS027sp-1	Submersible Pump, 2.3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS027sp-2	Submersible Pump, 2.3 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS028sp-1	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS028sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS029sp-1	Submersible Pump, 88 hp.	Poor	Replacement	0	$ 53,500	$ 53,500
LS029sp-2	Submersible Pump, 88 hp.	Poor	Replacement	0	$ 53,500	$ 53,500
LS032sp-1	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS032sp-2	Submersible Pump, 10 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS034sp-1	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS034sp-2	Submersible Pump, 5 hp.	Poor	Replacement	0	$ 5,179	$ 5,179
LS035sp-1	Submersible Pump, 9.4 hp.	Poor	Replacement	0	$ 7,870	$ 7,870

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS035sp-2	Submersible Pump, 9.4 hp.	Poor	Replacement	0	$ 7,870	$ 7,870
LS037sp-1	Submersible Pump, 3.2 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS037sp-2	Submersible Pump, 3.2 hp.	Poor	Replacement	0	$ 4,150	$ 4,150
LS038sp-1	Submersible Pump, 7.5 hp	Poor	Replacement	0	$ 7,265	$ 7,265
LS038sp-2	Submersible Pump, 7.5 hp	Poor	Replacement	0	$ 7,265	$ 7,265
LS039sp-1	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS039sp-2	Submersible Pump, 20 hp.	Poor	Replacement	0	$ 13,990	$ 13,990
LS040sp-1	Submersible Pump, 25 hp.	Poor	Replacement	0	$ 15,314	$ 15,314
LS040sp-2	Submersible Pump, 25 hp.	Poor	Replacement	0	$ 15,314	$ 15,314
LS021Asp-1	Submersible Pump, 10 hp.	Poor	Replacement	1	$ 7,870	$ 7,870
LS021Asp-2	Submersible Pump, 10 hp.	Poor	Replacement	1	$ 7,870	$ 7,870
LS005sp-2	Submersible Pump, 20 hp.	Poor	Replacement	2	$ 13,990	$ 13,990
LS026sp-1	Submersible Pump, 5 hp.	Poor	Replacement	2	$ 5,179	$ 5,179
LS026sp-2	Submersible Pump, 5 hp.	Poor	Replacement	2	$ 5,179	$ 5,179
LS044sp-1	Submersible Pump, 15 hp.	Poor	Replacement	2	$ 13,196	$ 13,196
LS044sp-2	Submersible Pump, 15 hp.	Poor	Replacement	2	$ 13,196	$ 13,196
LS042sp-1	Submersible Pump, 5 hp.	Poor	Replacement	3	$ 5,179	$ 5,179
LS042sp-2	Submersible Pump, 5 hp.	Poor	Replacement	3	$ 5,179	$ 5,179
LS043sp-1	Submersible Pump, 10 hp.	Poor	Replacement	3	$ 7,870	$ 7,870
LS043sp-2	Submersible Pump, 10 hp.	Poor	Replacement	3	$ 7,870	$ 7,870

Required Reserve Worksheet[1]						
Date Worksheet Completed/Updated: 10/30/15						
Asset (List from highest to lowest priority)	**Asset Description**	**Condition**	**Activity**	**Years until action needed**	**Cost ($)**	**Reserve required current year**
LS051sp-1	Submersible Pump, 30 hp.	Poor	Replacement	3	$ 20,959	$ 20,959
LS012sp-2	Submersible Pump, 25 hp.	Poor	Replacement	4	$ 15,314	$ 15,314
LS015sp-1	Submersible Pump, 5 hp.	Poor	Replacement	4	$ 5,179	$ 5,179
LS053sp-1	Submersible Pump, 20 hp.	Poor	Replacement	4	$ 13,990	$ 13,990
LS053sp-2	Submersible Pump, 20 hp.	Poor	Replacement	4	$ 13,990	$ 13,990
LS055sp-1	Submersible Pump, 5 hp.	Poor	Replacement	4	$ 5,179	$ 5,179
LS055sp-2	Submersible Pump, 5 hp.	Poor	Replacement	4	$ 5,179	$ 5,179
LS045sp-1	Submersible Pump, 10 hp.	Fair	Replacement	5	$ 7,870	$ 7,870
LS045sp-2	Submersible Pump, 10 hp.	Fair	Replacement	5	$ 7,870	$ 7,870
LS006sp-1	Submersible Pump, 5 hp.	Fair	Replacement	0	$ 5,179	$ 5,179
LS006sp-2	Submersible Pump, 5 hp.	Fair	Replacement	0	$ 5,179	$ 5,179
LS094sp-2	Submersible Pump, 15 hp.	Fair	Replacement	4	$ 13,196	$ 13,196
SFpr-1	Sprayfield Pump Room	Poor	Rehabilitation	0	$ 10,000	$ 10,000
					Total Reserve in the six year	$ 4,217,962

[1]Note: The Required Reserve Worksheet only helps you account for the additional funds you will require to rehabilitate or replace your assets. Standard O&M costs are not included in this calculation.

* Staff recommendation for priority treatment

APPENDIX F

SELECTED TABLES AND FIGURES FROM 2015 APOPKA RATE STUDY

(Volume II Appendices on CD in pocket on inside back cover)

TABLE 3-3

2015 WATER, WASTEWATER, AND RECLAIMED WATER RATE STUDY

Table 3-3
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Projected Combined Revenue Requirements

Line No.	Description	Projected Fiscal Year Ending September 30, 2015	2016	2017	2018	2019	2020
1	Total Operating Expenses	$9,812,140	$10,035,132	$10,407,753	$10,893,217	$11,820,780	$12,347,587
	Other Revenue Requirements						
	Debt Service						
2	Existing Debt Service	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
3	Proposed Debt Service	0	0	0	0	0	3,896,523
	Less:						
4	Amount Paid by Impact Fees	(1,097,850)	(1,123,456)	(1,203,440)	(1,203,804)	(1,206,510)	(3,802,105)
5	Total Net Debt Service	$236,350	$213,994	$131,510	$130,346	$130,640	$1,431,517
6	Transfer to R&R Fund	$0	$0	$0	$0	$0	$0
7	Other Capital Funded from Rates	606,000	1,046,617	1,326,125	1,010,772	1,012,958	1,188,256
8	Payment in Lieu of Franchise Fees (PILOF)	560,000	849,066	1,008,000	1,064,000	1,128,000	1,197,000
9	Payment in Lieu of Taxes (PILOT)	3,759,110	4,234,957	4,362,006	4,492,866	4,627,652	4,766,481
10	Operating Reserves - Deposits to/(Uses of)	0	0	0	0	0	0
11	Total Other Revenue Requirements	$5,161,460	$6,344,634	$6,827,640	$6,697,985	$6,899,249	$8,583,255
12	Gross Revenue Requirements	$14,973,600	$16,379,766	$17,235,393	$17,591,201	$18,720,029	$20,930,841
	Less Income and Funds from Other Sources						
13	Other Operating Revenue	$841,188	$978,100	$978,100	$978,100	$978,100	$978,100
14	Contract and Intergovernmental Revenues	0	0	0	0	0	0
15	Unrestricted Interest Income	43,997	35,805	32,133	31,752	32,019	33,328
16	Net Revenue Requirements	$14,088,415	$15,365,862	$16,225,160	$16,581,349	$17,709,910	$19,919,414

Table 3-3
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Projected Combined Revenue Requirements

	Revenue from Rates						
17	Existing Retail Rate Revenue	$14,192,472	$14,502,870	$14,873,510	$15,304,392	$15,795,515	$16,346,880
18	Revenues from Rate Adjustments	0	326,315	905,791	1,419,195	1,982,403	2,603,657
19	Total Rate Revenue Before Current Year Adjustment	14,192,472	14,829,185	15,779,302	16,723,587	17,777,919	18,950,538
20	Total Revenue from Rates	$14,192,472	$14,829,185	$15,779,302	$16,723,587	$17,777,919	$18,950,538
21	Revenue Surplus/(Deficiency)	$104,057	($536,677)	($445,859)	$142,237	$68,008	($968,876)
22	Surplus/(Deficiency) - Percent of Rate Revenues	0.73%	-3.62%	-2.83%	0.85%	0.38%	-5.11%

The above results are dependent upon the following annual adjustments:

		Projected Fiscal Year Ending September 30,					
23		2015	2016	2017	2018	2019	2020
24	Water System	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%
25	Wastewater System	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%
26	Reclaimed Water System	0.0%	3.0%	3.0%	3.0%	3.0%	3.0%

The following summarizes prospective fund balances based upon the assumptions contained within this analysis:

		Projected Fiscal Year Ending September 30,					
27		2015	2016	2017	2018	2019	2020
28	Water and Wastewater Operating Fund	$14,497,921	$12,008,475	$11,562,617	$11,704,854	$11,772,862	$10,803,986
29	Customer Deposits	682,834	682,834	682,834	682,834	682,834	682,834
30	Renewal and Replacement Fund	200,000	200,000	200,000	200,000	200,000	200,000
32	Impact Fee Fund	889,618	1,686,959	3,329,318	5,696,400	8,479,366	8,363,071
33	Other Invest Fund, if any	0	0	0	0	0	0
34	Total Fund Balances	$16,270,372	$14,578,269	$15,774,768	$18,284,088	$21,135,063	$20,049,891
35	Operating Fund: Days of Gross Revenue - Calculated	351	277	251	241	229	198
36	Days of Revenue - Minimum (180 days)	180	180	180	180	180	180

TABLE 5-1

2015 WATER, WASTEWATER, AND RECLAIMED WATER RATE STUDY

Table 5-1
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Projected Debt Service Coverage

Line No.	Description	Projected Fiscal Year Ending September 30, [1] 2015	2016	2017	2018	2019	2020
	Gross Revenues						
	Operating Revenues						
1	Existing Rate Revenue	$14,192,472	$14,502,870	$14,873,510	$15,304,392	$15,795,515	$16,346,880
2	Prior Year Rate Adjustments	0	0	446,200	932,100	1,464,600	2,051,700
3	Current Year Rate Adjustments	0	326,315	459,591	487,095	517,803	551,957
4	Other Operating Revenues	841,188	978,100	978,100	978,100	978,100	978,100
5	Contract and Intergovernmental Revenues	0	0	0	0	0	0
6	Total Operating Revenues	$15,033,660	$15,807,285	$16,757,402	$17,701,687	$18,756,019	$19,928,638
7	Unrestricted Interest Income	43,997	35,805	32,133	31,752	32,019	33,328
8	Total Gross Revenues	$15,077,657	$15,843,090	$16,789,534	$17,733,439	$18,788,037	$19,961,965
9	Operating Expenses	9,812,140	10,035,132	10,407,753	10,893,217	11,820,780	12,347,587
10	Net Revenues	$5,265,517	$5,807,958	$6,381,782	$6,840,222	$6,967,258	$7,614,379
	Debt Service - Senior Lien						
11	Existing	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
12	Proposed	0	0	0	0	0	0
13	Total Debt Service	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
	Test - A						
14	Net Revenues	$5,265,517	$5,807,958	$6,381,782	$6,840,222	$6,967,258	$7,614,379
14	Sinking Fund Deposits - Annual Bond Service Requirement	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
14	Other Required Deposits	0	0	0	0	0	0
15	Total Annual Required Deposits	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
15	Coverage - Calculated	395%	434%	478%	513%	521%	569%
16	Coverage - Required Minimum	100%	100%	100%	100%	100%	100%
	AND						
	Test - B						
17	Net Revenues	$5,265,517	$5,807,958	$6,381,782	$6,840,222	$6,967,258	$7,614,379
18	Annual Bond Service Requirement	$1,334,200	$1,337,450	$1,334,950	$1,334,150	$1,337,150	$1,337,100
19	Coverage - Calculated	395%	434%	478%	513%	521%	569%
20	Coverage - Required Minimum	110%	110%	110%	110%	110%	110%
	OR						
	Test - C						
21	Net Revenues	$5,265,517	$5,807,958	$6,381,782	$6,840,222	$6,967,258	$7,614,379
22	Plus SDCs (Impact Fees) - 90.23%	1,203,849	1,123,456	1,203,440	1,203,804	1,206,510	1,206,465
23	Sub-total	$6,469,366	$6,931,413	$7,585,222	$8,044,026	$8,173,768	$8,820,844
24	Annual Bond Service Requirement	1,334,200	1,337,450	1,334,950	1,334,150	1,337,150	1,337,100
25	Coverage - Calculated	485%	518%	568%	603%	611%	660%
26	Coverage - Required Minimum	120%	120%	120%	120%	120%	120%

Table 5-1
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Projected Debt Service Coverage

Line No.	Description	Projected Fiscal Year Ending September 30, [1] 2015	2016	2017	2018	2019	2020
	JUNIOR LIEN COVERAGE						
27	Net Revenues plus Senior Lien SDC (Impact Fees)	$6,469,366	$6,931,413	$7,585,222	$8,044,026	$8,173,768	$8,820,844
28	Plus Additional Junior Lien SDC (Impact Fees)	$0	$0	$0	$0	$0	$3,058,717
29	Net Revenues Including SDCs (Impact Fees)	$6,469,366	$6,931,413	$7,585,222	$8,044,026	$8,173,768	$11,879,561
30	Senior Lien Debt Plus Coverage Requirement (120%)	$1,601,040	$1,604,940	$1,601,940	$1,600,980	$1,604,580	$1,604,520
31	Net Amount Available for Junior Lien	$4,868,326	$5,326,473	$5,983,282	$6,443,046	$6,569,188	$10,275,041
32	Proposed Junior Lien Debt	$0	$0	$0	$0	$0	$3,896,523
31	Junior Lien Coverage	N/A	N/A	N/A	N/A	N/A	264%
33	Minimum Required	115%	115%	115%	115%	115%	115%

TABLE 6-1

2015 WATER, WASTEWATER, AND RECLAIMED WATER RATE STUDY

Table 6-1
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Summary of Water and Wastewater Fixed Assets [1]

Line No.	Function	Fixed Assets at Original Cost Water	Wastewater
	Assets Included in the Impact Fee		
1	Treatment Plant	$17,309,993	$18,480,595
2	Transmission Lines [2]	18,197,247	14,331,200
3	Reclaimed Water Lines & Storage Facilities [3]	9,819,983	5,885,888
4	Lift Stations	0	12,151,317
5	Total Embedded Costs Included in the Impact Fee Analysis	$45,327,223	$50,848,999
	Assets Excluded from the Impact Fee		
6	Meter Services	$4,261,991	$0
7	Distribution / Collection Lines [2]	21,102,137	15,057,367
8	Distribution Reclaimed Water Lines [3]	7,272,495	0
9	Vehicles & Equipment	4,092,464	2,284,264
10	Total Embedded Costs Excluded from the Impact Fee Analysis	$36,729,086	$17,341,631
11	**Total Fixed Assets**	$82,056,309	$68,190,630
12	**Total System Assets**	$150,246,939	

Footnotes:

[1] Estimated Assets as reported by the City as of September 30, 2014.

[2] Based on the existing asset records of the City, information on specific distribution and collection lines that should be excluded from impact fee determination was not available. Therefore the following adjustments were made to segregate the total transmission costs from the distribution and collection related costs:

	Fixed Assets at Original Cost Water	Wastewater
Transmission & Distribution/Collection System	$39,299,384	$29,388,567
Percent Allocable to Back-bone Transmission [*]	46.30%	48.76%
Amount Allocable to Back-bone Transmission	$18,197,247	$14,331,200
Amount Allocable to Distribution/Collection	$21,102,137	$15,057,367

[*] The water and wastewater transmission system was estimated based on mains greater than 8 inches in diameter as derived from Tables 6-2 and 6-3.

[3] Costs associated with storage of reuse included in the wastewater system costs. Costs associated with conveyance included under the water resources system derived as follows:

	Reclaimed Water
Transmission & Distribution System	$17,092,478
Percent Allocable to Back-bone Transmission [*]	57.45%
Amount Allocable to Back-bone Transmission	$9,819,983
Amount Allocable to Distribution	$7,272,495

[*] The reclaimed water transmission system was estimated based on mains greater than 8 inches in diameter as derived from Tables 6-4.

TABLE 6-6

2015 WATER, WASTEWATER, AND RECLAIMED WATER RATE STUDY

Table 6-6
City of Apopka, Florida
2015 Water, Wastewater, and Reclaimed Water Rate Study

Allocation of Planned Wastewater Capital Improvements

Line No.	Project Description	Funding Source	Estimated Capital Cost [1]	Additions	Total Estimated Capital Cost	Adjustments	Net Amount For Future Expenditures	Cost Allocation Existing	Cost Allocation Future	Existing - Functional Category Treatment/ Disposal	Existing - Functional Category Transmission	Future - Functional Category Treatment/ Disposal	Future - Functional Category Transmission
			Future Dollars										
	Wastewater Projects												
	Capital Improvement Program [1]												
1	Total Departmental Capital	REV1	$2,119,868	$0	$2,119,868	($2,119,868) [2]	$0	100.00%	0.00%	$0	$0	$0	$0
2	Miscellaneous Sewer Mains	REV2	1,230,780	0	1,230,780	(1,230,780) [2]	0	100.00%	0.00%	0	0	0	0
3	Sewer Impact Fee Update	REV2	41,792	0	41,792	(41,792) [2]	0	100.00%	0.00%	0	0	0	0
4	Sewer Master Plan Update	REV2	89,554	0	89,554	(89,554) [2]	0	100.00%	0.00%	0	0	0	0
5	Reclaimed Water and Sewer Rate Update Study - 1 of 2	REV2	17,911	0	17,911	(17,911) [2]	0	100.00%	0.00%	0	0	0	0
6	437 A FM, Marden Rd to Boy Scout Rd, 1,345 LF 24”	IMPACT	231,264	0	231,264	0	231,264	0.00%	100.00%	0	0	0	231,264
7	Binion Rd FM, Boy Scout Rd to Boy Scout Blvd, 10,275 LF 24”	OR	1,874,313	0	1,874,313	0	1,874,313	0.00%	100.00%	0	0	0	1,874,313
8	Boy Scout Rd FM, 437 A to Binion Rd, 6,435 LF 24”	IMPACT	1,106,457	0	1,106,457	0	1,106,457	0.00%	100.00%	0	0	0	1,106,457
9	Junction Rd FM, Sadler Rd to Kelly Park Rd, 2,627 LF 10”	IMPACT	161,544	0	161,544	0	161,544	0.00%	100.00%	0	0	0	161,544
10	Junction Rd FM, US 441 to Sadler Rd, 13,025 LF 16”	IMPACT	1,207,964	0	1,207,964	0	1,207,964	0.00%	100.00%	0	0	0	1,207,964
11	Marden Rd FM, Keene Rd to 437 A, 22,421 LF 24” & 422 LF 30"	IMPACT	3,970,804	0	3,970,804	0	3,970,804	0.00%	100.00%	0	0	0	3,970,804
12	Miscellaneous Sewer Mains	REV2	1,280,780	0	1,280,780	0	1,280,780	0.00%	100.00%	0	0	0	1,280,780
13	New Proposed Lift Stations throughout the City	IMPACT	5,869,609	0	5,869,609	0	5,869,609	0.00%	100.00%	0	0	0	5,869,609
14	Plymouth Rd FM, Ponkan Rd to Appy Ln, 5,506 LF 12”	IMPACT	371,823	0	371,823	0	371,823	0.00%	100.00%	0	0	0	371,823
15	Plymouth Rd FM, Appy Ln to Kelly Park, 5,261 LF 8”	IMPACT	243,958	0	243,958	0	243,958	0.00%	100.00%	0	0	0	243,958
16	Plymouth Rd FM, US 441 to Yothers Rd, 5,321 LF 16”	IMPACT	479,107	0	479,107	0	479,107	0.00%	100.00%	0	0	0	479,107
17	Plymouth Sorrento Rd FM, Ponkan Rd to Yothers Rd, 5,273 LF 12”	IMPACT	366,771	0	366,771	0	366,771	0.00%	100.00%	0	0	0	366,771
18	US 441 FM, Boy Scout Blvd to Plymouth 6,755 LF 16”	IMPACT	590,510	0	590,510	0	590,510	0.00%	100.00%	0	0	0	590,510
19	WWTP Expansion to 8 MGD	IMPACT	0	0	0	0	0	0.00%	100.00%	0	0	0	0
20	WWTP Expansion to 8 MGD	DEBT 1	55,200,000	0	55,200,000	0	55,200,000	0.00%	100.00%	0	0	55,200,000	0
21	Additional System Renewal & Replacement	REV2	0	0	0	0 [2]	0	100.00%	0.00%	0	0	0	0
22	**Total Wastewater System**		$76,454,806	$0	$76,454,806	($3,499,904)	$72,954,902			$0	$0	$55,200,000	$17,754,902
23	**Other Projects**												
24	Other 1		$0	$0	$0	$0	$0	0.00%	100.00%	$0	$0	$0	$0
25	Other 2		0	0	0	0	0	0.00%	100.00%	0	0	0	0
26	**Total Other Projects**		$0	$0	$0	$0	$0			$0	$0	$0	$0
27	**Total Wastewater System**		$0	$0	$0	$0	$0			$0	$0	$0	$0
28	**Total Capital Projects**		$76,454,806	$0	$76,454,806	($3,499,904)	$72,954,902			$0	$0	$55,200,000	$17,754,902

Footnotes:

[1] Total planned investment from FY15-25 derived from Table 3-14.

[2] Amounts reflect relacements of existing infrastructure or small equipment needs which were excluded from the impact fee calculation.

[3] Amounts provided by the City.

APPENDIX G

RESOLUTIONS OF ADOPTION BY APOPKA CITY COMMISSION

(Volume II Appendices on CD in pocket on inside back cover)

RESOLUTION NO. 2017-07

A RESOLUTION OF CITY OF APOPKA, FLORIDA, RELATING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE REVOLVING FUND LOAN PROGRAM; MAKING FINDINGS; ADOPTING THE PHASE I WASTEWATER UTILITY ASSET MANAGEMENT PLAN; PROVIDING ASSURANCES; PROVIDING FOR CONFLICTS, SEVERABILITY, AND EFFECTIVE DATE.

WHEREAS, Florida Statutes provide for loans to local government agencies to finance the construction of wastewater treatment facilities; and

WHEREAS, Chapter 62-503.300(5)(b)(1), of the Florida Administrative Code, provides financing rate incentives for the implementation of the Phase I Wastewater Utility Asset Management Plan for the Water Reclamation Facility as a component of the Florida Department of Environmental Protection State Revolving Fund Loan Agreement; and

WHEREAS, The City is authorized by provision of Chapter 166, Florida Statutes, and other applicable provisions of law to, among other things, acquire, construct, equip, own, sell, lease, operate and maintain various capital improvements and public facilities to promote the health, welfare and economic prosperity of the residents of the City and to borrow money to finance and refinance the acquisition, construction, equipping and maintenance of such capital improvements and public facilities.

WHEREAS, the State Revolving Fund loan priority list designates Project No. WW48021 as eligible for available funding; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF APOPKA, FLORIDA, AS FOLLOWS:

SECTION I. The foregoing findings are incorporated herein by reference and made a part hereof.

SECTION II. The City of Apopka, Florida, is adopting the Phase I Wastewater Utility Asset Management Plan for the Water Reclamation Facility.

SECTION III. All resolutions or part of Resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

SECTION IV. If any section or portion of a section of this Resolution proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or part of this Resolution.

SECTION VIII. This Resolution shall become effective immediately upon approval and adoption.

APPROVED AND ADOPTED by the City Council of the City of Apopka, Florida, this 29th day of March, 2017.

CITY OF APOPKA, FLORIDA

_____
Joseph E. Kilsheimer, Mayor

ATTEST:

_____
Linda F. Goff, City Clerk

Backup material for agenda item:

1. Thank you note from Apopka Rotary Club to Mayor Kilsheimer thanking the City for assistance with the Apopka Fair.

Mayor Joe Kilsheimer,

On behalf of the Board of Directors of the Rotary Club of Apopka, we would like to say thank you to the City of Apopka for it's continued support of our 16th Apopka Fair and the Rotary Club of Apopka projects and fundraisers. Without the City of Apopka's cooperation, it would be much more difficult to be as successful in our endeavors.

So very much!

Deb Perez
President
Rotary Club of Apopka
Board of Directors