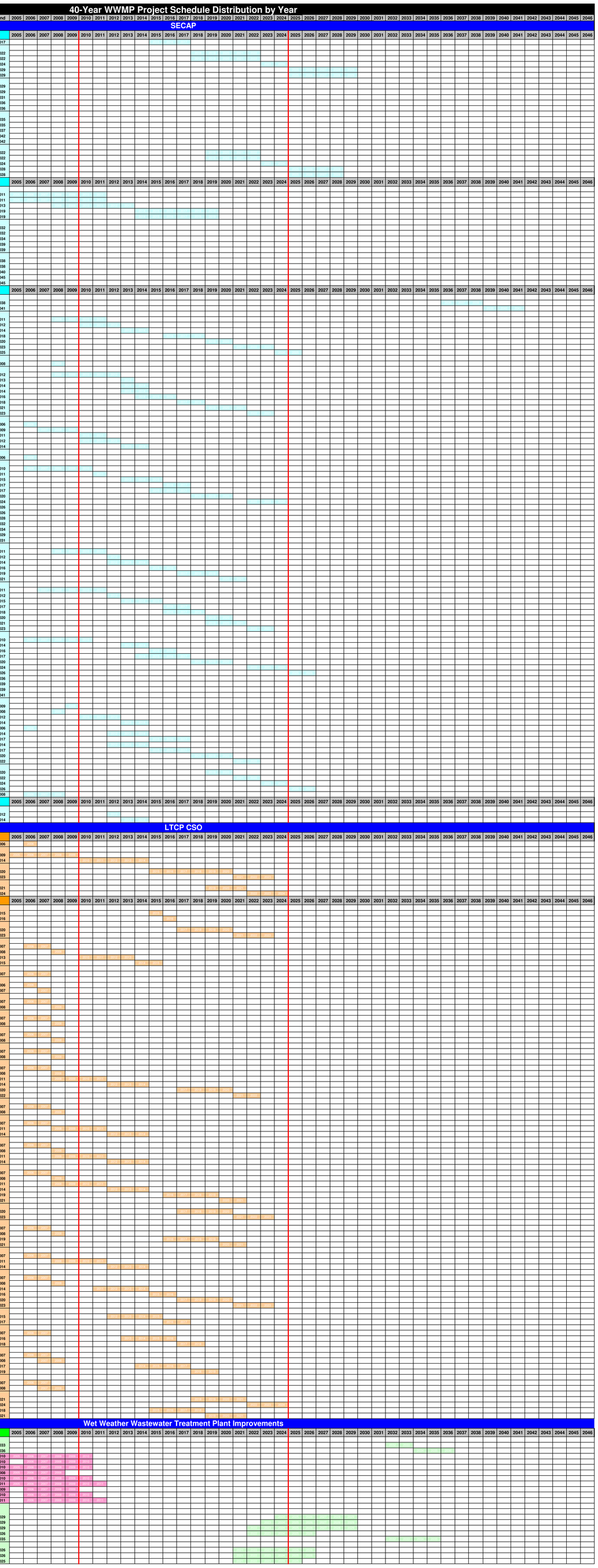
ATTACHMENT A

40-Year WWMP Project Schedule Distribution by Year

REVISED 06.20.2008

		Start	End
SECAP			
ORT			
1	**ORT Preliminary Engineering**	2015	2017
2	**ORT Phase A**		
	Engineering	2018	2022
	Geotechnical	2018	2022
	Land Acquisitions	2023	2024
	Construction	2025	2029
	Construction Management	2025	2029
3	**ORT Phase B**		
	Engineering	2025	2029
	Geotechnical	2025	2029
	Land Acquisitions	2030	2031
	Construction	2032	2036
	Construction Management	2032	2036
4	**ORT Phase C**		
	Engineering	2031	2035
	Geotechnical	2031	2035
	Land Acquisitions	2036	2037
	Construction	2038	2042
	Construction Management	2038	2042
5	**OPS**		
	Engineering	2019	2022
	Geotechnical	2019	2022
	Land Acquisitions	2023	2024
	Construction	2025	2028
	Construction Management	2025	2028
ART			
1	**ART Phase A (CIP 046)**		
	Engineering	2005	2011
	Geotechnical	2005	2011
	Land Acquisitions	2008	2013
	Construction	2014	2019
	Construction Management	2014	2019
2	**ART Phase B**		
	Engineering	2028	2032
	Geotechnical	2028	2032
	Land Acquisitions	2033	2034
	Construction	2035	2039
	Construction Management	2035	2039
3	**ART Phase C**		
	Engineering	2034	2038
	Geotechnical	2034	2038
	Land Acquisitions	2039	2040
	Construction	2041	2045
	Construction Management	2041	2045
Priority Areas			
1	**Castle/Williams Priority Area (T.a)**		
	Castle/Williams Relief Sewer Engineering & Easements	2036	2039
	Castle/Williams Relief Sewer Construction	2039	2041
2	**Plum Ridge Priority Area (T.b)**		
	SSES Study	2008	2011
	Removal of Driveway Drains Engineering	2010	2012
	Removal of Driveway Drains Construction	2013	2014
	Cherry Hill Relief Sewer Engineering & Easements (if needed)	2016	2018
	Cherry Hill Relief Sewer Construction (if needed)	2019	2020
	Sanitary Sewer Upsizing Phases I & II Eng. & Easements (if needed)	2021	2023
	Sanitary Sewer Upsizing Phases I & II Const. (if needed)	2024	2025
3	**Winslow Priority Area (T.c)**		
	Removal of DSR 532	2008	2008
4	**Northwest Alum Creek Priority Area (T.d)**		
	Northwest Alum Creek I/I Study (CIP 405.7)	2008	2012
	Removal of DSR 317	2013	2013
	Raise DSR Weir Elevations Engineering and Construction	2013	2014
	System Optimization Engineering and Construction	2013	2014
	Suwanee/Railroad Relief Sewer Engineering & Easements (if needed)	2014	2016
	Suwanee Railroad Relief Sewer Construction (if needed)	2017	2018
	Weldon Lakeview Relief Sewer Engineering & Easements (if needed)	2019	2021
	Weldon Lakeview Relief Sewer Construction (if needed)	2022	2023
5	**Sullivant Avenue Priority Area (T.e)**		
	Point Repair	2006	2006
	CIPP Lining Improvement Engineering & Easements	2007	2009
	CIPP Lining Improvement Construction	2010	2011
	SSES Study	2010	2012
	Physical Removal of DSR 96 (pending SSES Study)	2013	2014
6	**Preston Road Priority Area (T.f)**		
	DSR 241 Removal	2006	2006
7	**Early Ditch Priority Area (T.g)**		
	Early Ditch I/I Study (CIP 405.8)	2006	2010
	System Optimization Improvement	2011	2011
	CIPP Lining Improvement Phase I Engineering & Easements (if needed)	2013	2015
	CIPP Lining Improvement Phase I Construction (if needed)	2016	2017
	CIPP Lining Improvement Phase II Engineering & Easements (if needed)	2015	2017
	CIPP Lining Improvement Phase II Construction (if needed)	2018	2020
	Binns Wicklow Conveyance and Storage Phase I Engineering & Easements (if needed)	2022	2024
	Binns Wicklow Conveyance and Storage Phase I Construction (if needed)	2025	2026
	Binns Wicklow Conveyance and Storage Phase II Engineering & Easements (if needed)	2025	2026
	Binns Wicklow Conveyance and Storage Phase II Construction (if needed)	2027	2028
	Upsize Existing Fremont Street Relief Sewer Engineering & Easements (if needed)	2030	2032
	Upsize Existing Fremont Street Relief Sewer Construction (if needed)	2033	2034
	Westgate Relief Sewer Improvement Engineering & Easements (if needed)	2028	2029
	Westgate Relief Sewer Improvement Construction (if needed)	2030	2031
8	**Miller Kelton Priority Area (T.h)**		
	SSES Study	2008	2011
	Raise DSR 189 Invert Elevation	2012	2012
	Gault Street Relief Sewer Engineering & Easements (if needed)	2012	2014
	Gault Street Relief Sewer Construction (if needed)	2015	2016
	Cole Street Relief Sewer Engineering & Easements (if needed)	2017	2019
	Cole Street Relief Sewer Construction (if needed)	2020	2021
9	**Barthman/Parsons Priority Area (T.i)**		
	Barthman/Parsons I/I Study (CIP 405.10)	2007	2011
	Weir Modifications to DSRs 205 and 208	2012	2012
	Hinman Avenue Relief Sewer Engineering & Easements (if needed)	2013	2015
	Hinman Avenue Relief Sewer Construction (if needed)	2016	2017
	Barthman Avenue Relief Sewer Engineering & Easements (if needed)	2016	2018
	Barthman Avenue Relief Sewer Construction (if needed)	2019	2020
	Champion Avenue Sewer Upsizing Engineering & Easements (if needed)	2019	2021
	Champion Avenue Sewer Upsizing Construction (if needed)	2022	2023
10	**West Fifth Avenue Priority Area (T.j)**		
	West Fifth Avenue I/I Study (CIP 405.9)	2006	2010
	King Avenue Relief Sewer Engineering & Easements (if needed)	2013	2014
	King Avenue Relief Sewer Construction (if needed)	2015	2016
	Third Avenue Relief Sewer Engineering & Easements (if needed)	2014	2017
	Third Avenue Relief Sewer Construction (if needed)	2018	2020
	Virginia Avenue Relief Sewer Engineering & Easements (if needed)	2022	2024
	Virginia Avenue Relief Sewer Construction (if needed)	2025	2026
	Sixth Avenue Relief Sewer Engineering & Easements (if needed)	2034	2036
	Sixth Avenue Relief Sewer Construction (if needed)	2037	2039
	North Star Road Relief Sewer Engineering & Easements (if needed)	2037	2039
	North Star Road Relief Sewer Construction (if needed)	2040	2041
11	**Clintonville Priority Area (T.k)**		
	Broad Meadows Relief Optimization Engineering and Construction	2009	2009
	DSR 288 / BRTS Relief	2008	2008
	DSR 337 Mitigation (Richards Road Relief Sewer) Engineering & Easements	2010	2012
	DSR 337 Mitigation (Richards Road Relief Sewer) Construction	2013	2014
	Fixed Film Bioreactor Construction	2006	2006
	Whetstone Relief Sewer Engineering & Easements	2012	2014
	Whetstone Relief Sewer Construction	2015	2017
	Park of Roses Treatment Engineering & Easements	2012	2014
	Park of Roses Treatment Construction	2015	2017
	Como/California Wet Weather Relief Sewer Engineering & Easements	2018	2020
	Como/California Wet Weather Relief Sewer Construction	2021	2022
12	**Cleveland Ferris Priority Area (T.l)**		
	Ferris Road Wet-Weather Relief Sewer Engineering & Easements (if needed)	2019	2020
	Ferris Road Wet-Weather Relief Sewer Construction (if needed)	2021	2022
	Upsize Alum Creek Sanitary Sewer Diversion Engineering & Easements (if needed)	2023	2024
	Upsize Alum Creek Sanitary Sewer Diversion Construction (if needed)	2025	2026
13	**Livingston/James I/I Study (CIP 405.11)**	2006	2008
Other System Enhancements			
1	**DSR 250 Mitigation Activities**		
	Engineering	2012	2012
	Construction	2013	2014
LTCP CSO			
OARS Transport			
1	**OARS Phase II, III, & IV Preliminary Engineering**	2006	2006
2	704 **OARS (CIP 704)**		
	Engineering	2005	2009
	Construction and CM	2010	2014
6	**Moler Street Overflow Intercepting Sewer**		
	Engineering	2015	2020
	Construction and CM	2021	2023
8	**CSO HRTF**		
	Engineering	2019	2021
	Construction and CM	2022	2024
CSO Improvements			
1	**Markison Avenue Sewershed**		
	Increased OSIS Capture Engineering	2015	2015
	Increased OSIS Capture Construction and CM	2016	2016
2	**Moler Street Sewershed**		
	Storm Sewer Redirection Engineering	2017	2020
	Storm Sewer Redirection Construction and CM	2021	2023
3	**Whittier Street Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Near Surface Conduit to OSIS Engineering	2010	2013
	Near Surface Conduit to OSIS Construction and CM	2014	2015
4	**Peters Run Sewershed**		
	Weir Raise Engineering	2006	2007
5	**State Street Sewershed**		
	Weir Raise Engineering	2006	2006
	Weir Raise Construction and CM	2007	2007
6	**Capital Street Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
7	**Broad Street Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
8	**Long Street Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
9	**Chestnut Street Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
10	**Noble and Grant Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Inflow Redirection Engineering	2008	2011
	Inflow Redirection Construction and CM	2012	2014
	Local Storage Tank Engineering	2017	2020
	Local Storage Tank Construction and CM	2021	2022
11	**Mound and Grant Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
12	**Town and 4th Sewershed**		
	Weir Raise Engineering	2006	2007
	Inflow Redirection Engineering	2008	2011
	Inflow Redirection Construction and CM	2012	2014
13	**Cherry and 4th Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Inflow Redirection Engineering	2008	2011
	Inflow Redirection Construction and CM	2012	2014
14	**Mound e/o I-71 Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Inflow Redirection Engineering	2008	2011
	Inflow Redirection Construction and CM	2012	2014
	Local Storage Tank Engineering	2016	2019
	Local Storage Tank Construction and CM	2020	2021
15	**Dodge Park Combined PS Sewershed**		
	Storm Sewer Redirection Engineering	2017	2020
	Storm Sewer Redirection Construction and CM	2021	2023
16	**Kerr and Russel Streets Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Local Storage Tank Engineering	2016	2019
	Local Storage Tank Construction and CM	2020	2021
17	**First Avenue Sewershed**		
	Weir Raise Engineering	2006	2007
	Inflow Redirection Engineering	2008	2011
	Inflow Redirection Construction and CM	2012	2014
18	**Third Avenue Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2008	2008
	Local Storage Tank Engineering	2011	2014
	Local Storage Tank Construction and CM	2015	2016
	Storm Sewer Redirection Engineering	2017	2020
	Storm Sewer Redirection Construction and CM	2021	2023
19	**King Avenue Sewershed**		
	Local Storage Tank Engineering	2012	2015
	Local Storage Tank Construction and CM	2016	2017
20	**Indianola Avenue Sewershed**		
	Weir Raise Engineering	2006	2007
	Connector Sewer, Local Storage Tank Engineering	2013	2016
	Connector Sewer, Local Storage Tank Construction and CM	2017	2018
21	**Frambes Avenue Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2007	2008
	Local Storage Tank Engineering	2014	2017
	Local Storage Tank Construction and CM	2018	2019
22	**Hudson Avenue Sewershed**		
	Weir Raise Engineering	2006	2007
	Weir Raise Construction and CM	2007	2008
23	**Alum Creek Sewershed**		
	Connector Sewer Engineering	2018	2021
	Connector Sewer Construction and CM	2022	2024
	Storm Sewer Redirection Engineering	2015	2018
	Storm Sewer Redirection Construction and CM	2019	2021
Wet Weather Wastewater Treatment Plant Improvements			
Wet Weather WWTP Improvements			
1	**Second Barrel of Interconnector (Phase 2)**		
	Engineering	2032	2033
	Construction and CM	2034	2036
2	245 **JPWWTP B-Plant Final Clarifier Upgrade (CIP 245)**	2005	2010
3	247 **JPWWTP A-Plant Wet Weather Hydraulic Improvements (CIP 247)**	2006	2010
4	253 **JPWWTP Disinfection Chemical Handling Facility Improvements (CIP 253)**	2005	2010
5	355 **SWWTP Effluent Disinfection Improvements (CIP 355)**	2005	2008
6	367 **SWWTP Primary Clarifier and Aeration Tank Improvements (CIP 367)**	2005	2010
7	359 **SWWTP Sludge Thickening Improvements & Add'l Rec. (CIP 359)**	2005	2011
8	363 **SWWTP New Effluent Pump Station and Outfall (CIP 363)**	2006	2009
9	364 **SWWTP Headworks Part 2 (CIP 364)**	2006	2010
10	366 **SWWTP Final Clarifier Additions and Improvements Functional Capacity (CIP 366)**	2006	2011
11	345 **Wastewater Facilities Program Needs (CIP345)**		
	***S1. SWWTP Far East Train (Train 4)**		
	>>1. Primary Clarification	2024	2029
	>>2. Aeration	2023	2029
	>>3. Final Clarification	2022	2029
	***S5. Effluent Disinfection Improvements Part 2**	2022	2026
	***S6. Headworks Part 4 (Schedule beyond 2020)**	2032	2035
12	380 **SWWTP Other Real Needs (CIP 380)**		
	***5. SWWTP Floodway Bridge**	2021	2026
	***6. Headworks Part 3**	2021	2026
	***7. Effluent Pump Addition No.1**	2021	2025



LEGEND

- SECAP
- LTCP CSO
- Wet Weather Wastewater Treatment Plan Improvements
- Wastewater Treatment Plant Expansion - Future Growth