

## **LIST OF TABLES**

---

Table ES-1	Development of Project Alternatives for Detailed Evaluation . . . . .	ES-3
Table ES-2	Alternatives Evaluated in Detail in Facilities Plan . . . . .	ES-5
Table ES-3	Comparison of Project Costs for Alternatives . . . . .	ES-8
Table ES-4	Comparison of Project Alternatives . . . . .	ES-9
Table 1.2-1	JOS Wastewater Treatment Plants . . . . .	1-3
Table 1.3-1	Year 2000 Planned Capacity of JOS Treatment Facilities Identified in the 1977 JOS Facilities Plan . . . . .	1-8
Table 2.1-1	Active Faults in the JOS Service Area . . . . .	2-3
Table 2.1-2	General Physical Properties of Soils in the JOS Service Area . . . . .	2-11
Table 2.2-1	Special—Status Wildlife Species Potentially Occurring at JOS Facilities Proposed for Expansion . . . . .	2-14
Table 2.2-2	Special—Status Plant Species Potentially Occurring at JOS Facilities Proposed for Expansion . . . . .	2-16
Table 2.3-1	Total Population in 1990 . . . . .	2-23
Table 2.3-2	Total Housing in 1990 . . . . .	2-24
Table 2.3-3	Total Employment in 1990 . . . . .	2-26
Table 2.4-1	Zoning and Land Usage for JWPCP Parcels . . . . .	2-31
Table 2.4-2	Zoning and Land Usage for SJCWRP Parcels . . . . .	2-36
Table 2.4-3	Zoning and Land Usage for LCWRP Parcels . . . . .	2-41
Table 2.4-4	Zoning and Land Usage for WNWRP Parcels . . . . .	2-48
Table 2.4-5	Zoning and Land Usage for LBWRP Parcels . . . . .	2-52
Table 2.4-6	Zoning and Land Usage for PWRP Parcels . . . . .	2-53
Table 2.5-1	Best Management Practices Adopted by the MWD . . . . .	2-59
Table 2.5-2	Dependable Local Groundwater Supplies in MWD's Service Area (In Thousands AFY) . . . . .	2-62
Table 2.5-3	Existing and Potential Water Supply for the MWD Service Area for the Year 2010 (MAFY) . . . . .	2-72
Table 2.6-1	Summary of 1992 Monitoring Data for Criteria Pollutants in the South Coast Air Basin . . . . .	2-76
Table 2.6-2	1990 Inventory of Criteria Pollutant Emissions Los Angeles County Portion of South Coast Air Basin . . . . .	2-80

---

*List of Tables*

Table 3.1-1	Waste Discharge and Water Reuse Permits .....	3-1
Table 3.1-2a	JWPCP Effluent Limits, Major Wastewater Constituents Comparison of NPDES and Ocean Plan Limits (30-Day Average) .....	3-2
Table 3.1-2b	JWPCP Effluent Limits, Other Parameters .....	3-2
Table 3.1-3	JWPCP Effluent Limits, Toxic Materials - Marine Aquatic Life Toxicants Comparison of NPDES and Ocean Plan Limits .....	3-3
Table 3.1-4	JWPCP Effluent Limits, Toxic Materials - Non-Carcinogens Comparison of NPDES and Ocean Plan Limits .....	3-4
Table 3.1-5	JWPCP Effluent Limits, Toxic Materials - Carcinogens NPDES and Ocean Plan Limits .....	3-5
Table 3.1-6	NPDES Permit Limits for JOS WRPs .....	3-10
Table 3.1-7	Recharge and Reuse Permit Limits for JOS WRPs .....	3-12
Table 3.1-8	California Drinking Water Standards .....	3-13
Table 3.2-1	Local Industrial Wastewater Discharge Limits .....	3-16
Table 3.3-1	Water Quality Objectives for Surface Waters in the JOS Service Area .....	3-27
Table 3.3-2	Water Quality Objectives for Groundwaters in the JOS Service Area .....	3-27
Table 3.3-3	Objectives for Surface Waters and Groundwater Designated as Municipal Supply: Limiting Concentrations of Pesticides .....	3-28
Table 3.3-4	Objectives for Surface Waters and Groundwater Designated as Municipal Supply: Limiting Concentrations of Inorganic Chemicals .....	3-28
Table 3.3-5	Objectives for Surface Waters and Groundwater Designated as Municipal Supply: Limiting and Optimum Concentrations of Fluoride .....	3-28
Table 3.4-1	Suitable uses of Reclaimed Water .....	3-34
Table 4.1-1	Summary of Design Criteria for Existing JWPCP Unit Processes .....	4-3
Table 4.1-2	Summary of Design Criteria for the Existing JOS Water Reclamation Plants .....	4-5
Table 4.1-3	Length of Joint Outfall Trunk Sewers .....	4-8
Table 4.1-4	Length of Districts' Trunk Sewers and Local Laterals Broken out by Districts .....	4-8
Table 4.2-1	JOS Biosolids Management .....	4-11
Table 5.1-1	TDS Levels in Treated Water from MWD Filtration Plants .....	5-3
Table 5.2-1	Flows and Capacities (mgd) .....	5-6
Table 5.2-2	1994 RCP Growth Management Forecast .....	5-7

---

---

Table 5.2-3	1990 and 2010 JOS Population and Employment by Treatment Plant Drainage Areas .....	5-9
Table 5.2-4	Inflow Data .....	5-11
Table 5.2-5	JOS Residential/Commercial Per Capita Generation Rate .....	5-12
Table 5.2-6	SCAG's Industrial Projections — Los Angeles County .....	5-14
Table 5.2-7	2010 JOS Industrial Projected Flows by Treatment Plant Drainage Areas .....	5-15
Table 5.2-8	Total JOS 2010 Projected Flows by Treatment Plant Drainage Areas .....	5-16
Table 5.3-1	Influent Data for the Joint Outfall System Treatment Facilities, FY 92-93 .....	5-18
Table 5.3-2	Trace Compounds Detected in the Influent of JOS Water Reclamation Plants .....	5-18
Table 5.4-1	JOS Solids Production — 1993 .....	5-19
Table 5.4-2	Solids Entering JWPCP — 2010 Projection .....	5-21
Table 5.4-3	JWPCP WAS Projection — 2010 Projection .....	5-21
Table 5.5-1	Summary of Contracts for Sale of Reclaimed Water .....	5-27
Table 5.5-2	List of Reclaimed Water Purveyors .....	5-27
Table 5.5-3	Summary of Reclaimed Water Usage, FY 1993-94, Long Beach Water Department .....	5-29
Table 5.5-4	Summary of Reclaimed Water Usage, FY 1993-94, City of Cerritos .....	5-32
Table 5.5-5	Summary of Reclaimed Water Usage, FY 1993-94, City of Lakewood .....	5-35
Table 5.5-6	Summary of Reclaimed Water Usage, FY 1993-94, Century Reclamation Program .....	5-38
Table 5.5-7	Summary of Reclaimed Water Usage, FY 1993-94, Pomona Water Department .....	5-42
Table 5.5-8	Summary of Reclaimed Water Usage, FY 1993-94, Walnut Valley Water District .....	5-44
Table 5.5-9	Summary of Reclaimed Water Usage, FY 1993-94, SJCWRP .....	5-46
Table 5.5-10	Future Potential for Reclaimed Water Use .....	5-51
Table 5.5-11	Summary of Future Reclaimed Water Projects .....	5-53
Table 6.5-1	Screening of Conceptual Project Alternatives .....	6-12
Table 6.7-1	JOS Treatment Plant Site Capacities .....	6-17

---

*List of Tables*

---

Table 6.7-2	Development of Preliminary Project Alternatives .....	6-22
Table 6.7-3	Summary of Preliminary Project Alternatives .....	6-23
Table 6.8-1	Impacts of Preliminary Project Alternatives on JOS Conveyance System .....	6-26
Table 6.8-2	Incremental Construction Costs for JOS Treatment Facilities .....	6-27
Table 6.9-1	Summary of Feasible Project Alternatives .....	6-30
Table 6.11-1	Development of Project Alternatives for Detailed Evaluation .....	6-37
Table 6.11-2	Summary of Final Project Alternatives .....	6-38
Table 6.12-1	Present State of JOS Wastewater Treatment Facilities .....	6-39
Table 6.12-2	Preliminary Design Criteria for Proposed JOS Solids Processing Facilities, Year 2010 .....	6-43
Table 6.12-3	Preliminary Design Criteria for Proposed JWPCP Power Generation Facilities, Year 2010 .....	6-45
Table 6.12-4	Preliminary Design Criteria for Proposed JWPCP Washwater System, Year 2010 .....	6-47
Table 6.12-5	Preliminary Design Criteria for Proposed JWPCP Wastewater Treatment Facilities: 400 mgd, Year 2010 .....	6-64
Table 6.12-6	Preliminary Design Criteria for Proposed SJCWRP Facilities: 125 mgd .....	6-69
Table 6.12-7	Preliminary Design Criteria for Proposed LCWRP Facilities: 50 mgd .....	6-72
Table 6.12-8	Preliminary Design Criteria for Proposed LCWRP Facilities: 75 mgd .....	6-78
Table 6.12-9	Preliminary Design Criteria for Proposed WNWRP Facilities: 52.5 mgd .....	6-82
Table 6.12-10	Preliminary Design Criteria for Proposed JWPCP Wastewater Treatment Facilities: 350 mgd .....	6-84
Table 6.12-11	Preliminary Design Criteria for Proposed LCWRP Facilities: 62.5 mgd .....	6-88
Table 6.13-1	Joint Outfall System Alternatives Showing Treatment Plant Flows from Different Drainage Areas .....	6-93
Table 6.13-2	Peak Sanitary to Average Flow Ratios at JOS Treatment Plants, 1993 .....	6-95
Table 6.13-3	Peak Sanitary to Average Flow Design Ratios .....	6-95
Table 6.13-4	Peak Storm Capacity of Proposed JOS Facilities .....	6-96
Table 6.13-5	Peak Storm to Average Flow Ratios for JOS Drainage Areas .....	6-98
Table 6.13-6	Maximum Peak Storm Flows Tributary to JOS WRPs .....	6-100

---

Table 6.13-7	Alternative 1: Ability to Accommodate Peak Storm Flows	.....	6-101
Table 6.13-8	Alternative 2: Ability to Accommodate Peak Storm Flows	.....	6-101
Table 6.13-9	Alternative 3: Ability to Accommodate Peak Storm Flows	.....	6-101
Table 6.13-10	Alternative 4: Ability to Accommodate Peak Storm Flows	.....	6-102
Table 6.13-11	2020 Demands for Reclaimed Water Identified in Coordination Study	.....	6-104
Table 6.13-12	Projected Reclaimed Water Supply Deficits for 2020 Based on Demands Identified in Coordination Study	.....	6-105
Table 6.13-13	Comparison of Equivalent Annual Costs for JOS Master Facilities Plan Alternatives	.....	6-107
Table 6.13-14	Comparison of Environmental Impacts: JOS 2010 Master Facilities Plan	.....	6-111
Table 6.13-15	Comparison of Project Alternatives	.....	6-113
Table 7.1-1	Detailed Design Criteria for Proposed Facilities at JWPCP: 400 mgd Plant Capacity	.....	7-3
Table 7.5-1	Upgrade and Expansion Components of the Recommended Project	.....	7-13
Table 8.2.1	Agencies, Organizations, and Individuals Commenting in Writing	.....	8-2

**Appendix A-0**

Table 1	Total Water Supply for Signatory Agencies, Fiscal Year 1992-93	.....	A-0-6
---------	--	-------	-------

**Appendix A-1.2**

Table 1	JOS Districts and Treatment Facilities Which Provide Service to Local Jurisdictions	.....	A-1.2-1
---------	---	-------	---------

**Appendix A-5.2-1**

Table 1	1990 and 2010 Population and Employment Disaggregated by Census Tracts for Each Treatment Plant Drainage Area Based on SCAG's 1994 RCP	.....	A-5.2-1-1
---------	--	-------	-----------

**Appendix A-5.2-2**

Table 1	Joint Outfall System Historical Flows (mgd) 1970-1993	.....	A-5.2-2-1
Table 2	Joint Outfall System Permitted Capacities (mgd) 1977-1992	.....	A-5.2-2-2

**Appendix A-5.5-2**

Table 1	Fiscal Year 93-94 JOS Wastewater Flow Summary	.....	A-5.5-2-1
---------	---	-------	-----------

*List of Tables*

---

Appendix A-6.12-1

Table 1	40 CFR Part 503 Standards for the Use or Disposal of Biosolids, Concentration Standards .....	A-6.12-1-1
Table 2	40 CFR Part 503 Standards for the Use or Disposal of Biosolids, Loading Rate Standards .....	A-6.12-1-1
Table 3	Joint Water Pollution Control Plant Biosolids Cake — Title 22 Soluble Metals MG/L .....	A-6.12-1-2

Appendix A-6.12-2

Table 1	Biosolids Management Options, Potential Impacts and Responsible Regulatory Agencies .....	A-6.12-2-1
---------	--	------------