Figure 2.2 USEPA Ten-Step Asset Management Process

USEPA Ten Step Asset Management Process

	CUMENT INTEGR		2. BASELINE CONDITION ASSESSMENT			3. PROGRAM PLANNING			4. IT & GIS INTEGRATION
DEVELOP ASSET REGISTRY	ASSESS PERFORMANCE, FAILURE MODES	DETERMINE RESIDUAL LIFE	DETERMINE LIFE CYCLE & REPLACEMENT COSTS	SET TARGET LEVELS OF SERVICE	DETERMINE BUSINESS RISK	OPTIMIZE O&M INVESTMENT	OPTIMIZE CAPITAL INVESTMENT	DETERMINE FUNDING STRATEGY	BUILD AM PLAN
STORMWATER ASSET FILES	* STUDIES/REPORTS	STUDIES/REPORTS	studies/reports	• FUNDING	• FUNDING	: MAINTENANCE	FUNDING	FUNDING	• FUNDING
• Hansen 8.2.2	Major Drainageway/Outfall	Major Drainageway/Outfall	• Flood Insurance Studies	• Master Plans	Master Plans	• Inspection/Maintenace	Master Plans	Benchmarking Studies	Asset Management Plan
· Hansen Files	Systems Plans	Systems Plans	· As-built Plans	· Asset Management Plans	· Asset Management Plans	Reports –	· Capital Plans	Development Agreements	
· SW Map Book	• Flood Hazard Area	• As-built Plans	· Concrete Channel Study	• UDFCD Master Plans	· UDFCD Master Plans	Channels; Ponds; Inlets; Easements; Pipelines;	∙ Budgets AW	· Annex Agreements	0 0 0
Asset Management Plans	Delineation Studies • Flood Insurance Studies	• Concrete Channel Study	STORMWATER ASSET FILES	· Rate Study	• Rate Study	Outfalls; Manholes;	· Benchmarking Studies	· Asset Management Plans	0 0 0
STUDIES/REPORTS	Development Drainage	Development Drainage	• Hansen 8.2.2	PERMITS	EMERGENCY RESPONSE	Sediment Removal; Incident Response; Erosion	Development Agreements	• Rate Study	0 0
Development Drainage	Master Plans	FUNDING	· Hansen Files	· SWMP (State and Local)	· Incident Response – spills,	Control Dams; Levees	· Annex Agreements	CONTRACTS/AGREEMENTS	0 0 0
Master Plans	Development Drainage	· Asset Management Plans	· SW Map Book	ENVIRONMENTAL STUDIES,	etc.	STORMWATER ASSET FILES	• Asset Management Plans	· Intergovenmental	n n
· Development Drainage	Design Reports	• UDFCD Master Plan	· Asset Management Plans	REPORTS, FILES	• Flood Response Plan	• Hansen 8.2.2	• UDFCD Capital Plan	Agreements	0 0
Design Reports As-built Plans	• As-built Plans		PERMITS	• EA's	MANUALS	· Hansen Files	• UDFCD O&M Budgets	OTHER	0 0 0
Concrete Channel Study	· Concrete Channel Study	0	SWMP (State and Local)	• Endangered Species	• Kelly Road Dam O&M	• SW Map Book	• UDFCD Master Plans	Private Pond (post-	0 0
**	PERMITS	0 0 0	•	· Wetland Mapping	• COA Dam O&M	FUNDING	• Rate Study	ordínance – 20080)	0 0 0
CONTRACTS/AGREEMENTS	SWMP (State and Local)	•	FUNDING	· Intergrated Stream	 Levee Sand Creek 	Master Plans	STUDIES/REPORTS	Private Pone (pre- ordinance)	0 0
Development	CONTRACTS/AGREEMENTS		• Rate Study	MANUALS	• Dry Weather Outfall	Capital Plans	 Major Drainageway/Outfall Systems Plans 	ordinance)	0 0 0
• Annexation	Development	0 0 0		• Kelly Road Dam O&M	Monitoring	Budgets AW		•	0 0 0
• Lícense	Annexation	•		· COA Dam O&M	STUDIES/REPORTS	Benchmarking Studies	CONTRACTS/AGREEMENTS	6 6 8	0
R.O.W. & EASEMENTS	FUNDING	0		· Levee Sand Creek	• Flood Insurance Studies	Development Agreements	Intergovenmental Agreements	•	0 0
Drainage Easements	• Master Plans	•		• SD Design	• Aurora Master Plan	· Annex Agreements		0 0 0 0	0 0 0
· Utility Easements	· Asset Management Plans	0 0		· Utility Design	• Buckley AFB Master Plan	· Asset Management Plans	ENVIRONMENTAL STUDIES, REPORTS, FILES	6 6	0 0
OTHER	• UDFCD Master Plans	•		· Utility Regulations	CONTRACTS/AGREEMENTS	UDFCD Capital Plan	• EA's	• •	0 0 0
Private Pond (post-	OTHER	0		EMERGENCY RESPONSE	· License	UDFCD O&M Budgets	• Endangered Species		0
ordínance – 2008) • Prívate Pond (pre-	Private Pond (post-			· Incident Response – spills,	R.O.W. & EASEMENTS	UDFCD Master Plans	· Wetland Mapping	•	9 0 0
ordinance)	ordinance – 2008)	*		etc.	• Drainage Easements	• Rate Study	·Intergrated Stream	0 0 0	0 0 0
	• Private Pond (pre-	•		• Flood Response Plan	 Utility Easements 	STUDIES/REPORTS	OTHER	0 0	0 0 0
	ordinance) • Dry Weather Outfall	9 9 8		ORDINANCES/REGULATIONS	PERMITS	Major Drainageway/Outfall	• Dry Weather Outfall	0 0 0	8 9 9
	Monitoring	0		• Cíty 138	SWMP (State and Local)	Systems Plans	Monitoring	8 6 6	0 0 0
		0 0 0		· City 70	ENVIRONMENTAL STUDIES,	Development Drainage Master Plans	***************************************	•	0 0 0
				STUDIES/REPORTS	REPORTS, FILES	Development Drainage	ENVIRONMENTAL STUDIES,	0	0 0 0
		•		· Aurora Master Plan	∙EA's	Design Reports	REPORTS, FILES	0 0 0	0 0 0
		•		• Buckley AFB Master Plan	• Endangered Species	CONTRACTS/AGREEMENTS	• EA's	6 6 6	0 0 0
		•	•		 Wetland Mapping 	: • Intergovenmental	• Endangered Species	•	0 0 0
		• •			∙ Intergrated Stream	Agreements	Wetland Mapping	0 0 0	0 0 0
		•			ORDINANCES/REGULATIONS	Development Agreements	 Intergrated Stream Corridor Study 		8 9 8
		** ** **			• City 138	Maintenance Agreements	949	# 0 0	0 0 0
			•		• City 70	• SLA w/Park O&M – turf	OTHER Depart Depart (next)	•	n o o
		6 8				SLA w/PROS – noxíous weed management	 Private Pond (post- ordinance – 2008) 		0 0
		•				• Pest control PO's –	Private Pond (pre-	0	9 6 8
		•				mosquitos, beavers,	ordinance)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8
		•	•			burrowing animals	Dry Weather Outfall Monitoring	•	0 0
		•	•	•		• Annexation	Monitoring		

February 2013 2-7 | Summary of Phase 1 Project Investigations