

WEST SLOPE STORMWATER RESOURCE PLAN
Project Evaluation - Metrics and Scoring

Benefit Category: Water Supply

Criterion: Water supply reliability		Criterion: Water conservation	
<i>Metric: Amount of local supply generated</i>	Score	<i>Metric: Reduction in water use (Volume)</i>	Score
Creates substantial local supply	3	75% - 100% reduction	3
Limited or no creation of local supply	2	25% - 74% reduction	2
Relies on imported supply	1	0% - 24% reduction	1

Criterion: Conjunctive use	
<i>Metric: Projected Savings (\$/volume)</i>	Score
High savings	3
Moderate Savings	2
No Savings	1

Benefit Category: Water Quality

Criterion: Increased filtration and/or treatment of runoff		Criterion: Nonpoint source pollution control	
<i>Metric: Volume of Treated Water (Cubic Feet)</i>	Score	<i>Metric: Pollutant Load Reduction (mg/L)</i>	Score
High Volume	3	High Load Reduction	3
Moderate Volume	2	Moderate Load Reduction	2
No Volume	1	No Load Reduction	1

Criterion: Reestablished natural water drainage and treatment	
<i>Metric: Volume of Treated Water (Cubic Feet)</i>	Score
High Volume	3
Moderate Volume	2
No Volume	1

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Benefit Category: Flood Management

Criterion: Decreased flood risk by reducing runoff rate and/or volume		Criterion: Reduced sanitary sewer overflows	
<i>Metric: Qualitative scale - ability of a project to reduce existing flood risk</i>	Score	<i>Metric: Reduction in Sanitary Sewer Overflows (Volume in Cubic Feet)</i>	Score
Substantial regional benefit	3	High Reduction	3
Substantial localized benefit	2	Moderate Reduction	2
No benefit	1	No Reduction	1

Benefit Category: Environmental

Criterion: Environmental and habitat protection and improvement		Criterion: Increased urban green space	
<i>Metric: Qualitative scale - Degree of potential benefit or damage to habitat/ecosystems</i>	Score	<i>Metric: Number of acres of green space created/reduced</i>	Score
Regional benefit	3	Creation of greater than 500 ac of green space	3
Local benefit	2	Creation of less than 500 ac of green space	2
No benefit, or potential damage	1	No green space created/green space destroyed	1

Criterion: Reestablishment of the natural hydrograph		Criterion: Air quality impact	
<i>Metric: Flow Comparison (cfs), likelihood it will reestablish the natural hydrograph by scheduling water releases to align with the minimum flow requirements and high peak flows (unimpaired flow)</i>	Score	<i>Metric: Qualitative scale - Degree of potential benefit or damage to air quality</i>	Score
Very likely	3	Regional benefit	3
Possible	2	Local benefit	2
Very unlikely	1	No benefit/ possible damage	1

Criterion: Ecological impact		Criterion: Energy footprint	
<i>Metric: Qualitative scale - Degree of potential benefit or damage to ecosystems/flora/fauna</i>	Score	<i>Metric: Power consumption (kWh/AF water processed)</i>	Score
Regional benefit	3	>= 1000 kWh/AF	3
Local benefit	2	500 - 1000 kWh/AF	2
No benefit/ possible potential damage	1	<=500 kWh/AF	1

Criterion: Stormwater quality		Criterion: Water temperature improvements	
<i>Metric: Stormwater volume reduction in dry year to river/oceans</i>	Score	<i>Metric: Reduction in water temperature (degrees)</i>	Score
75% - 100% reduction	3	High Reduction	3
25% - 74% reduction	2	Moderate Reduction	2
0% - 24% reduction	1	No Reduction	1

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Benefit Category: Community

Criterion: Enhanced and/or created recreational and public use areas		Criterion: Community involvement	
<i>Metric: Number of People Benefiting from the Enhanced and/or created recreational and public use areas</i>		<i>Metric: Qualitative scale-Likelihood of the community getting involved</i>	
	Score		Score
Regional benefit	3	Very likely	3
Local benefit	2	Possible	2
Limited or no benefit	1	Very unlikely	1

Criterion: Environmental justice		Criterion: Recreational Benefit	
<i>Metric: Qualitative scale - perceived benefits/impacts distributed throughout City (versus to specific communities)</i>		<i>Metric: Qualitative scale</i>	
	Score		Score
Remediates past environmental injustices (benefits to underserved communities)	3	High benefit	3
Benefits to specific communities	2	Moderate Benefit	2
Impacts primarily to underserved communities	1	No Benefit	1

Criterion: Employment opportunities provided	
<i>Metric: Qualitative scale-Amount of jobs that can be generated</i>	
	Score
Very likely	3
Possible	2
Very unlikely	1

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Benefit Category: Project Cost

Criterion: Unit Cost		Criterion: Project funding mechanism	
<i>Metric: \$/MG or \$/AF</i>		<i>Metric: Qualitative - degree of project funding complexity and availability</i>	
	Score		Score
Low \$/unit cost	3	Very easy: Funding mechanism already in place; can be funded from existing structures without increase	3
Moderate \$/unit cost	2	Typical: Funding mechanism can be created using normal business processes	2
High \$/unit cost	1	Complex: New funding mechanisms required; relatively simple to create	1

Criterion: Eligibility for outside funding	
<i>Metric: Qualitative scale</i>	
	Score
Very likely	3
Possible	2
Very unlikely	1

Benefit Category: Implementation Complexity

Criterion: Constructability		Criterion: Institutional complexity	
<i>Metric: Qualitative scale</i>		<i>Metric: Number of city departments, outside agencies, and regulatory agencies involved</i>	
	Score		Score
Planning Documents/Studies Available	3	No partnerships needed	3
Cost Information, No Engineering Details	2	Partnerships Needed, Likely Similar to Existing Arrangement	2
No Planning Documents, Best Engineering Judgment Applied	1	Partnerships Needed, Likely New Agreement	1

Criterion: Regulatory & Permitting Compliance		Criterion: Public Acceptance	
<i>Metric: Environmental complexity</i>		<i>Metric: Qualitative scale</i>	
	Score		Score
Categorical Exemption, or no permits	3	Public Acceptance and Wide Support	3
IS/ND/MND, or some State and/or local permits	2	Some Public Acceptance and Moderate Support	2
EIR/EIS, or multiple Federal/State/local permits	1	Low Public Acceptance and Support	1

Criterion: Right of Way	
<i>Metric: Qualitative scale - Difficulty to acquire necessary parcels/easements</i>	
	Score
Existing ROW / Not Applicable	3
Willing Seller Identified	2
No Willing Seller Identified	1