

Appendix K Project Evaluation Criterion

Project Evaluation and Ranking Criteria		Weighted														
Criteria	Weight	Desal Alternative 2 - 50,000 AF Keystone Desalination with Well Field and Groundwater Recharge	Desal Alternative 4 - 50,000 AF Keystone Desalination Alamo River	Desal Alternative 8 - 25,000 AF East Brawley Desalination with Well Field and Groundwater Recharge	Desal Alternative 12 - 25,000 AF East Mesa Desalination with Well Field and Groundwater Recharge	Desal Alternative 14 - 50,000 AF South Salton Sea Desalination with Alamo River Water and Industrial Distribution	Desal Alternative 15 - 50,000 AF South Salton Sea Desalination with Alamo River Water and MCI Distribution	Desal Alternative 18 - 15,000 AF East Mesa with Well Field Pumping to All American Canal with Well Field Pumping to All-American Canal	Desal Alternative 19 - 15,000 AF East Mesa with Well Field Pumping to All-American Canal	Water Banking Alternative 1 - IID East Coachella Valley Recharge/Storage	Recycled Water Alternative 1 - Disinfected Secondary Effluent from Existing Wastewater Treatment Plants Applied to Adjacent Agriculture	Recycled Water Alternative 3 - Upgrade Existing Plants to Tertiary and deliver to IID Canal Existing Plants to Tertiary and Deliver Effluent to IID Canal System	Recycled Water Alternative 5 - Regional Plant Serving Tertiary Water to IID Canal	Recycled Water Alternative 6 - Regional Plant Serving Tertiary Water to Local Service Area and IID Canal	Alternative XX- Systems Conservation Projects (2)	
Standard	Performance Measure															
Consistency with IID Plan Objectives																
1. Impacts to agricultural users of water	Maintains water productivity historically available to agriculture.															
	5: No impacts to agriculture water supplies 4: Slight impact/reduction to agricultural water supplies 3: Slight to Moderate impact/reduction to agricultural water supplies 2: Moderate to large impact to agricultural water supplies 1: Large and identifiable impacts to agricultural water supplies	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
2. Maintains IID yields from Colorado River	Makes use of water that would normally be lost to IID in under- run years															
	3. High: Clearly defined ability to captures under- runs to maintain IID yields from Colorado River 2. Medium: Moderate ability to captures under- runs to maintain IID yields from Colorado River 1. Low: Limited or no capability to capture under- runs to maintain IID yields from Colorado River	5	2	3	2	2	1	1	1	2	3	3	1	2	2	
	Helps to reduce the potential for overruns in SDI years															
	3. High potential to reduce overruns 2. Medium potential to reduce overruns 1. Low or no potential to reduce overruns	4	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Increases the efficiency of industrial, municipal, commercial and residential use of water through conservation and demonstrates reasonable beneficial uses in these areas.															
	3. High: Significant increases M&I efficiencies and demonstrates high degree of conservation in current and new M&I. 2. Medium: Moderate increases M&I efficiencies and demonstrates high degree of conservation in current and new M&I. 1. Low: Limited or no increase M&I efficiency or demonstrate high degree of conservation in current or new M&I uses	4	1	1	2	1	2	1	2	1	3	3	2	2	2	

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3. Cost Effectiveness	Dollars per acre foot of yield															
	5: < \$75/af 4: \$76 to \$150/af 3: \$156 - \$250/af 2: \$250 - 400/af 1: >400/af	4	1	1	1	1	1	1	4	4	2	3	1	2	1	
4. Equitable cost sharing	Entities that receive the benefits pay for the costs of producing those benefits															
	3. High: All costs for new water paid for by new users; no effects on current rate base 2. Medium: Cost would likely be shared between new and existing rate payers; with at least 75% of the costs born by new users. 1. Low: Costs for new water and programs distributed to existing IID rate payers in roughly equal proportions.	5	2	2	2	2	2	2	2	2	2	2	2	2	1	
5. Consistent with QSA and existing agreements on use of Colorado River	Would not result in conflicts related to existing contracts or agreements															
	3. High: Greatest degree of consistency with existing contracts and agreements; would not require modifications; least likely to challenged or resisted. 2. Medium: Could be interpreted as inconsistent with existing contracts and agreements; could require modifications; potential to be challenged or resisted. 1. Low: Inconsistent with existing contracts and agreements; would require modifications or legal interpretations to one or more agreements; greatest potential to be challenged or resisted.	3	2	2	2	2	2	3	2	2	2	2	3	3	3	
6. Firm Yield to resolve potential conflicts of use of water in IID	Provide measurable, firm yield of water that can be apportioned to new demand, mitigate for impacts to existing users and allow cities and Imperial County to validate water availability.															
	5. >50,000 acre feet 4. 25,001 to 50,000 acre feet 3. 10,001 to 25,000 acre feet 2. 5001 to 10,000 acre feet 1. 0 to 5000 acre feet; yield or limited ability to firmly defined	4	5	5	4	4	5	5	3	3	5	3	3	2	3	

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	<p>Consistent with City and County General Plan and land use plans.</p> <p>3. High: Greatest degree of consistency 2. Medium: Moderate degree of consistency 1. Low: Limited or no consistency</p>	4	2	2	2	2	2	3	2	2	2	2	2	3	3		
7. Promote economic development	<p>Measurable economic benefits to IID water service area in terms of net economic activity, job creation, revenue generation to IID, Imperial County and Cities</p> <p>3. High: Greatest potential for contributing to economic activity, creating jobs, revenue generation. Clear documentation. 2. Medium: Moderate potential for contributing to economic activity, creating jobs, revenue generation. Limited documentation. 1. Low: Limited or no potential for contributing to economic activity, creating jobs, revenue generation. No solid documentation.</p>	4	3	3	3	3	3	3	3	2	1	1	1	1			
Implement ability																	
1. Timeliness	<p>Ability for IID to act quickly to implement a project or program with out the need for new agreements or additional funding.</p> <p>5. Immediate, < 1 Year 4. Near Term, 1 to 5 Years to develop 3. Mid-term, 5 to 10 Years to develop 1. Long-term, >10 Years to develop</p>	5	1	3	4	1	3	3	1	1	3	4	4	4	3		
2. Regulatory Institutional and Permitting Complexity	<p>Number and complexity of permits and extent of permitting issues</p> <p>3. High: Limited number of permits and approvals; low complexity (generally ministerial); few external agencies with regulatory approvals. 2. Medium: Moderate number of permits/approvals and complexity; some external regulatory agencies with approval authority. 1. Low: High number of permits or approvals; highly complex (agencies have discretion); multiple regulatory agencies and approvals needed.</p>	4	2	3	2	2	3	2	3	2	1	2	3	3	3		

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3. Flexibility, adaptability to changing circumstances	Capability to reconfigure system with changing conditions evidenced by interconnections and potential alternative uses															
	<p>3: High: Design allows for facility or program expansion as need grows; ability to provide water to multiple markets or types of use.</p> <p>2: Medium: Design could allow for facility or program expansion as need; Moderate technical, legal or economic constraints; moderate ability to provide water to multiple markets or types of use.</p> <p>1: Low: Design does not allow for facility or program expansion as need grows; significant technical, legal or economic constraints; limited or no ability to provide water to multiple markets or types of use.</p>	5	3	2	3	3	1	3	3	2	2	1	2	2	2	
4. Public Acceptance/Public Support	Minimize public opposition/maximize public support															
	<p>3. High: Greatest degree of stakeholder support, low potential for conflicts within IID</p> <p>2. Medium: Moderate degree of stakeholder support and moderate potential for conflicts within IID</p> <p>1. Low: Limited or no stakeholder support and potential for conflicts within IID</p>	5	2	2	2	2	3	3	3	2	3	1	2	2	2	
5. Potential to receive outside financial support	State grant and loan priority and DWR Integrated Regional Water Management Program criteria															
	<p>3. High: Greatest potential to receive funding; Consistent with grant/loan priority criteria and IRWMP criteria for funding</p> <p>2. Medium: Moderate potential to receive funding; only some elements of project meet grant/loan priority criteria</p> <p>1. Low: Limited to no potential for funding; Inconsistent with criteria for funding</p>	4	3	3	3	3	3	3	3	2	2	1	2	2	2	
	Federal Programs															
	<p>3. High: Greatest potential to receive funding; Consistent with grant/loan priority and funding criteria</p> <p>2. Medium: Moderate potential to receive funding; only some elements of project meet grant/loan priority and funding criteria</p>	4	3	3	3	3	3	3	3	2	3	1	1	1	1	

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	1. Low: Limited to no potential for funding: Inconsistent with criteria for funding														

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<p>Private Funding Source entities without IID support</p> <p>3. High: Greatest potential for partnering with other local agencies and/or private sector interests and limited effects or costs to current IID rate payers.</p> <p>2. Medium: Moderate potential for partnering with other local agencies and/or private sector interests and some effects and costs to current IID rate payers.</p> <p>1. Low: Limited or no potential for partnering with other local agencies and/or private sector interests and large effects and costs to current IID rate payers.</p>	4	2	3	2	2	2	3	3	2	2	2	2	2	2	
<p>Potential to partner with others in Colorado River Region</p> <p>3. High: Greatest potential to provide benefits to others in the Colorado River Regional and high potential for external funding and partnership</p> <p>2. Medium: Moderate potential to provide benefits to others in the Colorado River Regional and limited potential for external funding and partnership</p> <p>1. Low: Limited or no potential to provide benefits to others in the Colorado River Regional or to obtain external funding and partnership</p>	3	3	2	3	3	2	2	2	2	2	1	1	2	2	

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Environmental Effects																
1. Biological Resources	Impacts to protected species or sensitive habitats															
	<p>3. High: No or very limited impact on existing biological resources; directly or through habitat modifications; would not substantially affect any species identified as a candidate, sensitive, or special status species and does not require significant mitigation; is not in conflict or supports local policies or plans to protect species.</p> <p>2. Medium: Potential to impact on existing biological resources; directly or through habitat modifications; might substantially affect any species identified as a candidate, sensitive, or special status species and require mitigation; has the potential to conflict with local policies or plans to protect species.</p> <p>1. Low: Severely impact on existing biological resources; directly or through habitat modifications; would substantially affect any species identified as a candidate, sensitive, or special status species and require significant mitigation; is clearly in conflict with local policies or plans to protect species.</p>	3	2	2	2	2	2	2	1	2	1	3	3	2	2	
2. Biological Resources: Policy	Consistent with IID HCP/NCCP															
	<p>3. High: Consistent with IID HCP/NCCP</p> <p>2. Medium: May not be consistent with IID HCP/NCCP</p> <p>1. Low: Clearly not consistent with IID HCP/NCCP</p>	3	2	2	2	2	2	2	2	2	2	3	3	3	3	
3. Water Quality	Improves delivered water quality															
	<p>3. High: Significantly improves delivered water quality</p> <p>2. Medium: Moderate or no improvements to delivered water quality</p> <p>1. Low: No or limited improvements to delivered water quality</p>	3	3	3	3	3	3	3	3	3	1	1	2	3	3	

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	Impacts to water quality of drains or rivers 3. High: Low potential for significant effects to water quality of drains or rivers and does not require mitigation 2. Medium: Moderate potential for significant effects to water quality of drains or rivers that could require extensive and mitigation. 1. Low: High potential for significant effects that will require extensive and costly mitigation.	4	3	3	3	3	2	2	3	3	3	2	3	3	3	
4. Cultural	Impacts to Cultural Resources 3: High: Least potential for impacts to cultural resources 2: Medium: Moderate potential to impact cultural resources, minimal mitigation required. 1: Low: Greatest potential to significantly effect cultural resources, likely to require substantial mitigation.	4	2	3	2	2	3	3	2	2	3	3	3	3	3	
Uncertainty/Risk Index																
1. Institutional	Possible laws, regulations, conflicting interests may stop projects 3. High: Largest potential customer base with expressed willingness and ability to pay by new users 2. Medium: Moderate potential customer base with unknown or limited willingness and ability to pay by new users 1. Low: Limited or no potential customer base with very limited willingness and ability to pay by new users	4	2	2	2	2	2	3	2	3	1	2	2	2	2	
2. Market	Water made that is made available will have a market 3. High: Largest potential customer base with expressed willingness and ability to pay by new users 2. Medium: Moderate potential customer base with unknown or limited willingness and ability to pay by new users 1. Low: Limited or no potential customer base with very limited willingness and ability to pay by new users	5	3	3	3	3	3	3	3	3	3	3	3	2	2	

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3. Technical	Possible unknown, unquantifiable technical challenges that could stop the project															
	<p>3. High: Greatest degree of certainty in the technical feasibility of the project, high degree of confidence and probability of success.</p> <p>2. Medium: Moderate degree of certainty in the technical feasibility of the project and limited or qualified confidence in the probability of success.</p> <p>1. Low: limited or no certainty in the technical feasibility of the project, high uncertain of success.</p>	3	3	2	3	3	2	2	3	3	2	2	2	2	2	
4. Economic	Known benefits and costs or relative ability to measure; qualitative benefits are readily identifiable and can be recognized by the decision makers.															
	<p>3. High: Tangible, measurable economic benefits and costs; easily quantified returns on investment; known qualitative benefits</p> <p>2. Medium: Moderate ability to identify benefits; limited ability to measure economic benefits and costs or to quantify returns on investment; limited qualitative benefits</p> <p>1. Low: Intangible, hard to measure economic benefits and costs; hard to quantify returns on investment; unknown qualitative benefits</p>	4	3	3	3	3	3	3	3	3	3	2	2	2	2	
5. Political	Ability to garner support by the voting and rate paying population															
	<p>3: High: Public benefits can be easily articulated, current level of political support are known and defined; likelihood of political resistance is low; high probability to be supported during and initiative.</p> <p>2: Medium: Moderate ability to state public benefits; current level of political support are unknown and undefined; low to moderate likelihood of political resistance is low or to be supported during and initiative; limited need for public campaign.</p> <p>1: Low: Limited ability to state public benefits; political support not known or resistance has been already defined; low probability of supported during and initiative or would require extensive campaign to gain support.</p>	4	2	2	2	2	2	2	2	2	3	2	1	1	1	

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6. Legislative	Likelihood of protracted litigation and delay as a result of lawsuits														
	<ul style="list-style-type: none"> 3. High: Does not require IID Board of Directors to develop or adopt new legislation, rules regulations or ordinances. 2. Medium: Could require IID Board of Directors to develop or adopt new legislation, rules regulations or ordinances. 1. Low: Definitely requires IID Board of Directors to develop or adopt new legislation, rules regulations or ordinances. 	4	2	2	2	2	2	1	2	3	1	1	2	2	
7. Legal	Potential to result in project delays due to litigation														
	<ul style="list-style-type: none"> 3. High: Low probability of lawsuits. 2. Medium: Moderate probability of lawsuits. 1. Low: High probability of lawsuits and legal challenge. 	4	2	2	2	2	2	1	1	3	2	2	2	2	