Appendix 1. Tables A1.1 – A1.4. Comparisons of the scenarios.

Abandonment and	Accelerated	Connected	Nested Watersheds
Renewal	Innovation	Communities	
Inadequate	Prioritization of	Collective values shift	Government reform
preparation for	technology to address	toward community	geared toward
environmental	environmental	and sustainability to	preserving national
challenges, notably	challenges	address environmental	water supply
climate change and		challenges	
poor water quality			

Scenario	Land	Water	Climate
Abandonment and	Rejuvenated and mostly feral	Lakes have a heavy	Annual average
Renewal	ecosystems (forests, wetlands,	legacy of nutrient runoff	temperatures are around
	savannah, grasslands)	to shed, but are	9°F warmer than in
	increase substantially and	recovering in the dearth	2010; climate is wetter,
	consist of mix of native and	of humans	but extreme rainfalls
	non-native plants and		have moderated by
	animals; agricultural land and		2070; drought frequency
	urban land have decreased		has increased
	significantly.		
Accelerated	Ecosystems are highly	Lake water quality has	Annual average
Innovation	engineered; urbanization has	improved due to	temperatures are about
	increased but is compact;	technological	3°F warmer than in
	agricultural land has	advancements	2010; the climate
	decreased, but technology		continues to get wetter,
	maintains productivity;		but technology has
	natural areas decrease		moderated climate
			change and its impacts
			overall; drought
			frequency is similar to
			historical record
Connected	Agricultural land becomes	Water quality improves,	Annual average
Communities	more diversified, and pasture	but slowly	temperature is about 6°F
	area increases; urbanization is		warmer than in 2010;
	curbed and compacted;		climate is wetter but
	natural areas, especially		variable overall; drought
	wetlands, increase; land is		frequency increases
	managed to improved		
AT . 1 XX7 . 1 1	connections with nature	XX 7 . 1	A 1
Nested Watersheds	Agricultural acreage is	Water quality improves	Annual average
	drastically reduced and	but slowly, and setbacks	temperature is about /°F
	replaced mostly by grassland;	occur sporadically	warmer than in 2010;
	biofuel production,		climate becomes wetter,
	pastureland, and non-		but has moderated since
	commodity cropland increase;		mid-century; drought
	urbanization is more		frequency increases
	controlled; land management		
	largely centered around water		
	conservation and		
	1mprovement		

Table A1.2. Ecological Outcomes in 2070

Table A1.3.	Social	Outcomes	in	2070
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Scenario	Lifestyle	Economy	Governance
Abandonment	Survival and	Equity has increased,	Centralized
and Renewal	resourcefulness are main	but material wealth	government and social
	concerns; people live in	has decreased;	support systems are
	small urban clusters or on	bartering system has	nonexistent;
	subsistence farms; some	replaced money.	communities are
	live somewhat migratory		autonomous
	lives, to avoid lakes during		
	dangerous cyanobacteria		
	season		
Accelerated	Technology pervades	Economy is largely	Government and
Innovation	human lifestyles and many	based in tech industry;	private sector work in
	interactions with nature	material wealth	tandem to support
		increases; ecosystem	innovation;
		services are protected	government plays
		with market	investor role
		mechanisms	
Connected	Lifestyles are oriented	Economy functions as	Public participation in
Communities	toward building and	an ecosystem and 1s a	governance increases;
	preserving community,	means to preserve	social support systems
	sustainability, and	quality of life, not	enhanced
	improving quality of life	increase GDP; Gross	
		National Happiness	
		becomes index of	
Nested	Water concernation and	Weter monogoment	Water governence
Watersheds	climate change adaptation	becomes important	performed at
watersneus	have risen in public	part of economic	watershed level.
	salience: many sectors	activity in both	holistic management
	from farming to	private and public	of water improves.
	construction—have	sectors	incremental
	incorporated water	5001015	adaptation has
	management goals into		become the pattern:
	their status quo		government
	I T		regulation of natural
			resources has
			strengthened

Scenario	Opportunities	Threats
Abandonment and	Regeneration of ecosystems and	Human survival is difficult
Renewal	ecosystem services	Human vulnerability increases
	Opportunities for society and	
	culture to start anew	General economic and social
		collapse has occurred
	Social equality increases	
Accelerated Innovation	Region's wealth increases	Nature loses intrinsic value
	Advancements in human knowledge	Risk of unintended consequences and technology failures
	Ecosystem and societal efficiencies increase	Negative effects of local population growth
	Water quality improves	Loss of "survival" skills
	Climate change is moderated	Market risks put ecosystem services at risk
	Strong tech-based economy	Technology can't solve all problems
Connected Communities	Improved quality of life and	Some present-day conveniences are
	equality	gone (e.g., cheap air travel)
	Governance more democratic	
	Increased connection with nature	Risk of rogue individuals,
	improves ecosystems	organizations, and countries
	Water quality improving (but	
	slowly)	Prices increase on foods and goods
	Stabilized climate	(to reflect social and environmental
	Improved social support	COSTS)
		Climate has still warmed, even if stabilized
Nested Watersheds	Improved water quality and supply	Incremental adaptation creates
	Improved and more holistic water	vulnerability
	management	
	Improved water-based ecosystems	Climate change not moderated;
	and some ecosystem services (e.g., soil quality)	impacts ensue
	Local economy thrives	Uncertainty around maintaining
	Improved ability of farmers,	widespread public support for
	businesses, etc. to protect water	regulations in the long-term
	(i.e., because of incentives and	
	expectations)	

Table A1.4. Some opportunities and threats in each scenario