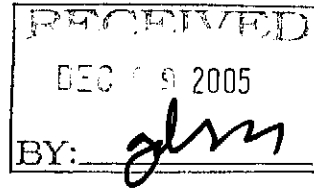


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9 **BEFORE THE ARIZONA NAVIGABLE STREAM**
10 **ADJUDICATION COMMISSION**

11 In re Determination of Navigability of the) No. 04-008-NAV
12 Upper Salt River)
13) **SALT RIVER PROJECT'S**
14) **OPENING POST-HEARING**
15) **MEMORANDUM**

16
17 The Salt River Project Agricultural Improvement and Power District and Salt River
18 Valley Water Users' Association (collectively, "SRP") submit their opening post-hearing
19 memorandum regarding this Commission's determination of whether the Upper Salt River
20 (upstream from Granite Reef Dam) was "navigable" when Arizona became a state on
21 February 14, 1912. A table of contents appears on the following page. Section III of this
22 memorandum summarizes the evidence presented to the Commission at and before its
23 hearings held on November 15, 2004 (in Globe) and on October 20, 2005 (in Phoenix).
24 Section IV presents SRP's legal argument.

25 ...
26 ...
27 ...

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1 **I. INTRODUCTION**

2 The question of whether the Upper Salt River was “navigable” when Arizona became a
3 state on February 14, 1912 is perhaps best answered by the 1873 exploits of Charles Hayden,
4 who was the founder and a long-time resident of Tempe and the father of United States
5 Senator Carl Hayden. Mr. Hayden attempted to boat the river in an effort to determine
6 whether it was susceptible to the flotation of logs from the mountain forests to the central
7 deserts:

8 The Hayden party, left up Salt River to come down in a canoe and drive some
9 logs with them, have returned, and pronounce the scheme a failure. With much
10 toil and difficulty, on account of rapids and boulders in the river, they ascended
11 a long way when, having lost their arms, ammunition and provisions, excepting
12 flour, they arrived in a canon so narrow as not to admit of the passage of a log,
13 and were compelled to abandon their boat and foot it. Mr. Hayden is still
sanguine of getting sufficient timber on this side of the canons [*Arizona Weekly
Miner 1873c*].

14 See JE Fuller/Hydrology & Geomorphology, Inc., Arizona Stream Navigability Study for the
15 Salt River: Granite Reef Dam to the Confluence of the White and Black Rivers 2-1 (revised
16 June 2003) (EI 27) (“Fuller”). If there was ever a person who had the incentive and ability to
17 undertake commercial navigation on the Upper Salt River, it was Charles Hayden. His
18 “failure” to float logs down the river, along with the respective failures of other statehood-era
19 residents who tried to boat the river, is persuasive evidence that the river was not “navigable.”

20 The Upper Salt River is not, was not in 1912, and never has been used or susceptible to
21 being used as a “highway for commerce.” All the evidence submitted prior to and at the
22 Commission’s hearings supports a finding of “non-navigability,” and no evidence was
23 presented to support a finding that the river is now or ever was “navigable.” SRP requests
24 that the Commission find the river “non-navigable.”

25 **II. THIS COMMISSION’S TASK**

26 This Commission has an important job to do. Under the applicable statutes, the
27 Commission has exclusive jurisdiction to determine which, if any, Arizona watercourses were

1 “navigable” on February 14, 1912. See A.R.S. § 37-1123(G). The Commission’s statutory
2 obligation for determining navigability is relatively succinct:

3 If the preponderance of the evidence establishes that the watercourse was
4 navigable, the commission shall issue its determination confirming that the
5 watercourse was navigable. If the preponderance of the evidence fails to
6 establish that the watercourse was navigable, the commission shall issue its
determination confirming that the watercourse in question was nonnavigable.

7 A.R.S. § 37-1128(A). The statute defines “navigable” or “navigable watercourse” as:

8 A watercourse that was in existence on February 14, 1912, and at that time was
9 used or was susceptible to being used, in its ordinary and natural condition, as a
10 highway for commerce, over which trade and travel were or could have been
conducted in the customary mode of trade and travel on water.

11 Id. § 37-1101(5).¹

12 The statutes provide that the proponents of navigability have the burden of proof. In
13 order for the Commission to determine that a particular watercourse is “navigable,” the
14 proponents of navigability must establish that fact by the “preponderance of the evidence.”

15 See A.R.S. § 37-1128(A).² If sufficient evidence is not presented to show navigability for a
16 particular watercourse, the Commission must find the watercourse non-navigable. Under the
17 “preponderance of the evidence” standard, “a party who has the burden of proof must
18 persuade you, by the evidence, that the claim is probably more true than not true.”

19 Recommended Arizona Jury Instructions (Civil) Standard 9 (1997). “Preponderance of the
20 evidence” requires “[e]vidence which is of greater weight or more convincing than the

21 ¹ The Arizona statutory definition is a codification of the “federal test” of navigability first articulated
22 by the United States Supreme Court in 1870 and applied by over one hundred courts in the last 135
23 years. E.g., The Daniel Ball, 77 U.S. (10 Wall.) 557, 563, 19 L.Ed. 999 (1870). Thus, court decisions
24 construing the Daniel Ball test should be persuasive for this Commission in applying the definition in
A.R.S. § 37-1101(5).

25 ² This allocation of the burden of proof is consistent with the pronouncements of the Arizona courts.
26 See Defenders of Wildlife v. Hull, 199 Ariz. 411, 420, 18 P.2d 722, 731 (App. 2001); Memorandum
27 Decision, State v. Burke, No. 1 CA-SA 02-0268, at 12 (consolidated) (December 23, 2004) (citing
Hull, 199 Ariz. at 420, 18 P.3d at 731); Arizona Ctr. for Law in the Public Interest v. Hassell, 172
Ariz. 356, 363 n.10, 837 P.2d 158, 165 n.10 (App. 1991), review dismissed (Oct. 6, 1992); Land
Dep’t v. O’Toole, 154 Ariz. 43, 46 n.2, 739 P.2d 1360, 1363 n.2 (App. 1987).

1 evidence which is offered in opposition to it; that is, evidence which as a whole shows that the
2 fact sought to be proven is more probable than not.” Black’s Law Dictionary 1064 (5th ed.
3 1979).³

4 **III. REVIEW OF THE EVIDENCE IN THE RECORD**

5 This Commission solicited and received voluminous evidence with respect to the
6 navigability of the Upper Salt River. The Commission held two hearings, in two different
7 county seats. The transcript of the October 2005 Phoenix hearing consists of 169 pages.⁴
8 This memorandum discusses the historical, hydrologic, geomorphologic, and judicial evidence
9 in the record.

10 **A. History of the Salt River Valley and the Upper Salt River**

11 None of the historical evidence introduced in this proceeding supports a finding of
12 navigability. To the contrary, all of the evidence weighs in favor of non-navigability.

13 **1. The prehistoric Upper Salt River**

14 The report submitted by the State Land Department’s consultants, and their hearing
15 testimony, provide evidence regarding the condition of the Upper Salt River in the period
16 before settlement by non-natives. “Although the archaeological data suggests few changes in
17 the flow regime in the Upper Salt River and little in the way of agricultural diversions or
18 impediments to navigation, archaeological research has not documented any use of the river
19 for commercial trade and travel or for any regular flotation of logs.” See Fuller, supra, at 2-1.
20 In fact, Mr. Fuller testified at the hearing that archaeological research has revealed no
21 evidence of any prehistoric boating on the river (commercial or otherwise) or any flotation of
22 logs (regular or irregular). Tr. at 28-29 (Fuller).

23 ...

24
25 ³ See also generally Maricopa County Juvenile Action No. J-84984, 138 Ariz. 282, 283, 674 P.2d 836,
26 837 (1983) (quoting Cole v. Town of Miami, 52 Ariz. 488, 497, 83 P.2d 997, 1001 (1938)) (“the
27 ultimate test is, does the evidence convince the trier of fact that one theory of the case is more
probable than the other”); Hewett v. Industrial Comm’n, 72 Ariz. 203, 209, 232 P.2d 850, 854 (1951).

⁴ “Tr. at [page]” refers to the Reporter’s Transcript of the October 20 hearing.

1 **2. Early exploration of the Salt River Valley**

2 No evidence exists that any of the early explorers who ventured into the Salt River
3 Valley ever used the Upper Salt River as a means of transportation or commerce. Francisco
4 Vasquez de Coronado, for example, is reported to have used rafts on the Salt River, but the
5 evidence shows that Coronado used the rafts only to cross the river (not to travel up or down
6 it), and the evidence also suggests that Coronado's use of the river was perhaps on some other
7 river entirely. See Fuller, supra, at 3-4, 3-9; Tr. at 29 (Gilpin). Trappers such as James Ohio
8 Pattie and Ewing Young are reported to have traveled along the river, but all indications are
9 that their travels were by foot or on horseback, not in boats or canoes—even though these
10 same trappers are known to have used canoes on the navigable Colorado River during these
11 same trips. See Fuller, supra, at 3-6; Tr. at 29-30 (Gilpin). In 1849, Lt. Beckwith traveled
12 from present-day New Mexico to the Upper Colorado River, and a portion of his route appears
13 to have included the Salt River. Again, however, the evidence shows that his travels along the
14 river were by foot or on horseback, not in a boat or a canoe. See Fuller, supra, at 3-9; Tr. at
15 29-30 (Gilpin).

16 Of the many early explorers who traveled near or along the Upper Salt River, no
17 evidence exists that any of them ever used a boat to travel on the river—upstream or
18 downstream. See Tr. at 29-30 (Gilpin). The travels of each of these individuals took them
19 along the Upper Salt River. If the river had been navigable, it surely would have been easier
20 for them to travel by boat rather than by foot or on horseback through this harsh desert land.

21 **3. Federal land surveys and patents**

22 Another group of individuals who were present in the Salt River Valley at a relatively
23 early date were the federal land surveyors who were responsible for conducting the
24 rectangular survey in the new territory. As Dr. Douglas Littlefield testified during the October
25 hearing, each of these surveyors was under specific instructions to distinguish between
26 navigable and non-navigable streams. See Littlefield, Assessment of the Parts of the Upper
27 Salt River and Tonto Creek Between Granite Reef Dam and the Inundation Lines of

1 Roosevelt Lake Prior to and On the Date of Arizona's Statehood, February 14, 1912 9-32
2 (October 5, 2005) (EI 29); Tr. at 111-17 (Littlefield). None of these Government
3 representatives ever once indicated that the Upper Salt River was navigable. See Littlefield,
4 supra, at 32-44. "Significantly, surveys undertaken for the Upper Salt River above Granite
5 Reef Dam and Tonto Creek and below the inundation lines of Theodore Roosevelt Lake gave
6 no indication that the federal surveyors in charge of the work believed either stream to be
7 navigable." Id. at 44.

8 Similarly, the federal and state land patents issued along the river are persuasive
9 evidence of non-navigability. The Federal Government granted eighteen separate patents that
10 touched or overlay the lower portions of the Upper Salt River and Tonto Creek to private
11 individuals. See id. at 59; Tr. at 117-23 (Littlefield). In not one case did any of those patents
12 (or the supporting patent files) indicate that acreage was being withheld because the river was
13 navigable. See Littlefield, supra, at 60; Tr. at 117-23 (Littlefield). Dr. Littlefield,
14 summarizing his conclusions based upon hundreds of hours of historical research from a wide
15 variety of sources (including survey records, land patents, other government documents, and
16 newspapers), stated: "From this wealth of information, covering the huge array of
17 documentary sources, only one conclusion can be reached: The Upper Salt River and Tonto
18 Creek were not navigable on or before February 14, 1912." Littlefield, supra, at 139.

19 4. The Upper Salt River from the 1870s to 1911

20 Additional evidence in support of a finding of **non-navigability** comes from the
21 accounts of the Upper Salt River in the last few decades prior to statehood, including the early
22 settlers' efforts to tame the river for irrigation purposes and the accounts of attempts by a few
23 "daring adventurers"⁵ to actually float boats on the river.

24 a. Water storage efforts

25 Much of the local community's energy during the period prior to statehood was
26 focused toward building a water storage project, so that the landowners could "take control of

27

⁵ See Fuller, supra, at 3-21 (quoting Arizona Gazette (June 5, 1885)).

1 the unpredictable waterway.” See LeRoy, “Salt River Centennial,” Phoenix Magazine 67
2 (February 2003) (EI 6). That water storage project, completed after decades of fits and starts,
3 became the Salt River Federal Reclamation Project, one of the first Federal Reclamation
4 projects undertaken after passage of the 1902 Reclamation Act:

5 For Valley residents, the [completion of Roosevelt Dam] was the
6 culmination of years of work and planning. The temperamental Salt River had
7 vexed farmers with alternative floods and droughts. In February 1903, a group
8 of local farmers hoped to turn the tide by forming the Salt River Valley Water
9 Users’ Association. They pledged more than 200,000 acres of their own land as
10 collateral for a government loan to build the massive dam, which would control
the river’s erratic flow, generate electric power and provide a water reserve.
The plan was called the Salt River Project.

11 Id.

12 Several things had to happen before the Federal Government could build Roosevelt
13 Dam. See K. Smith, The Magnificent Experiment: Building the Salt River Reclamation
14 Project, 1890-1917 72 (1986) (EI 16). First, a local entity needed to be created to contract
15 with the Government on behalf of the landowners. The Salt River Valley Water Users’
16 Association became that entity.

17 Second, the Government needed to obtain lumber to build the framework for the
18 masonry dam. A sawmill was constructed in the Sierra Ancha Mountains, upstream from the
19 dam site. See Smith, supra, at 72-73; see also E. Zarbin, Roosevelt Dam: A History to 1911
20 89 (1984) (EI 14). A road was constructed to cover the twenty-three miles from the sawmill
21 to the dam: “The lumber road was, by necessity, the first piece of construction on the project;
22 wood was needed for construction of the permanent camp, culverts, and bridges for the roads,
23 tunnel timbering, and building forms for concrete structures.” Smith, supra, at 73; see also
24 Zarbin, supra, at 75. The historical record contains no mention of floating the timber
25 downstream on the river. Rather, all of the timber was transported from the sawmill to the
26 dam site using the lumber road. See Smith, supra, at 73; Zarbin, supra, at 75.

1 Third, the Government had to figure out a way to get workers and supplies from
2 Phoenix to the dam site. See Fuller, *supra*, at 3-21 to 3-22 (“Lumber, bricks, lime, fuel oil,
3 and other supplies had to be transported to the site.”). “[N]o freight road existed from the
4 construction site to Mesa . . . , and the road to Globe was treacherous, winding through several
5 mountain ranges.” See Smith, *supra*, at 73; Zarbin, *supra*, at 75. If the Upper Salt River had
6 been navigable, it would have been an easy task to float barges or other vessels up the river to
7 haul workers and supplies. Instead, the Government constructed the Apache Trail (initially
8 known as the Roosevelt Road), a remote, twisting route from Mesa to Roosevelt, including a
9 stretch of eleven miles “in very rough country known as Fish Creek Hill.” Zarbin, *supra*, at
10 76; see also Smith, *supra*, at 75.⁶

11 Construction of the road required the work of at least 200 men and involved a “3,700-
12 foot-long crossing over Tonto Creek and the removal of rock and other material eighteen to
13 twenty miles, primarily by hand.” Smith, *supra*, at 75; Zarbin, *supra*, at 77. These difficulties
14 made construction of the road extremely expensive. The total cost of building the road was
15 \$350,644, in turn-of-the-century dollars.⁷ Zarbin, *supra*, at 104; see also Smith, *supra*, at 76
16 (some portions of the road cost as much as \$25,000 per mile). Still, no evidence exists in the
17 record that the Government ever seriously considered transporting workers or supplies up the
18 Salt River using water-borne vessels.⁸

19 Between 1903 and 1911, the Federal Government, with substantial assistance and
20 participation from the local citizenry, constructed Roosevelt Dam—the largest stone masonry
21 dam in the world—on the Upper Salt River. This Herculean undertaking required the
22 transport of hundreds of men and many tons of supplies from Phoenix to the dam site.

23 ⁶ Photographs of construction and early use of the Apache Trail appear in Zarbin, *supra*, at 91, 114,
24 133, and 146 and in Littlefield, *supra*, at 121-28.

25 ⁷ This amount is equivalent to more than \$7 million in 2005 dollars. See U.S. Department of Labor,
26 Bureau of Labor Statistics (www.bls.gov). This figure is particularly remarkable when one considers
27 that the road was constructed primarily by Apache Indians working at relatively low wage rates. See
Tr. at 127 (Littlefield).

⁸ See also generally Tr. at 125-26 (Littlefield).

1 Despite the magnitude of the task and the presence of the Salt River running directly from
2 Phoenix to the destination, the historical record contains no mention that the project
3 participants ever used, attempted to use, or even talked about using the river as a means by
4 which to transport the workers and supplies necessary to build the dam and related facilities.

5 ***b. Attempts to boat the river near statehood***

6 That the Federal Government never attempted to use the Salt River to transport
7 workers or materials from Phoenix to the Roosevelt Dam site during construction is perhaps
8 not surprising when one considers the calamitous record of those few brave souls who actually
9 did attempt to navigate the river between 1873 and 1910. Section 3 of Mr. Fuller's report
10 discusses "at least eight accounts of attempts, successful or otherwise, to boat or transport
11 goods down the Salt River between about 1873 and 1910." Fuller, supra, at 3-34 to 3-40.
12 Those attempts are discussed in detail in Appendix A attached hereto. This scattered
13 collection of boating expeditions on the river does not provide evidence that the Upper Salt
14 River is "navigable" as defined in A.R.S. § 37-1101(5). To the contrary, these eight accounts
15 not only are insufficient to satisfy the navigability proponents' burden of proof under A.R.S. §
16 37-1128(A), they are persuasive evidence that the river was **non-navigable**, for several
17 reasons.

18 First, the accounts of attempted boating consist entirely of anecdotal evidence from
19 local newspaper articles. These articles do not provide a sufficient basis to support a finding
20 of navigability. For example, the only documentation for one trip, which purportedly occurred
21 sometime in 1883 (Account No. 2), is what appears to be an obituary of one of the participants
22 written twenty-six years later, in 1909. See Fuller, supra, at 3-35 to 3-36. Another attempt
23 that is said to have occurred in June 1885 (Account No. 4) is mentioned in several newspaper
24 articles, one of which states that "the fish were so thick that the boat floated on their backs."
25 Id. An alleged episode of floating some form of timber down the river, which occurred in
26 either 1890 or 1891 (Account No. 6), is based upon a modern-day historian's recollection of a
27 newspaper article he **thinks he recalls seeing**, but no such article has ever been located. See

1 Appendix A. The evidentiary basis for each of these eight “attempts” is shaky, to say the
2 least.⁹

3 Second, and perhaps more important, the eight accounts of attempted boating on the
4 river are so full of mishaps and misery that they themselves prove that the river was not used
5 or susceptible to being used as a “highway for commerce.” On at least two of the trips
6 (Accounts Nos. 1 and 4), the boats were capsized and the parties lost all or nearly all of their
7 supplies. See Appendix A. Two of the participants (in Accounts Nos. 5 and 7) are known to
8 have died as a result of their boating adventures. Id. In other instances (Accounts Nos. 4 and
9 8), the boats were destroyed or badly damaged. Id.

10 Third, the only recorded opinions on navigability by the participants themselves show
11 that the river was not suitable as a “highway for commerce.” As discussed above, Charles
12 Hayden and the other participants in a June 1873 trip to float logs down the Salt River to
13 Tempe (Account No. 1), the only known actual attempt to float logs on the river,
14 “pronounce[d] the scheme a failure.” Id.¹⁰ Two men who apparently managed to survive an
15 adventurous trip from Roosevelt Dam to Granite Reef Dam in 1910 (Account No. 8)
16 concluded after the voyage that they had “no serious intention of attempting to go into
17 competition with the stage company.” Id.

18 These eight anecdotal accounts of boating on the river over the course of thirty-seven
19 years are not sufficient to satisfy the burden of proof for navigability and, in fact, they prove
20 just the opposite. People generally met with disastrous consequences, with some people
21 dying, others losing their supplies, and virtually all of them encountering steep narrow

22 ⁹ These newspaper reports must also be considered in the context of the nature of 19th century
23 Western newspapers, which often acted not only as reporters of news but also as “boosters” for the
24 local community in an effort to attract settlers to growing towns. See Littlefield, supra, at 100-01; Tr.
25 at 124 (Littlefield). These early newspapers had substantial incentive to exaggerate the benefits of
26 their local communities. See Littlefield, supra, at 100; see also Fuller, supra, at 3-34 (referring to
Account No. 3, wherein the newspaper promoted the Salt River as a candidate for federal funding
under the Rivers and Harbors Act).

27 ¹⁰ See also id. at 23 (Gilpin) (“In the first instance, which was the Hayden experiment, they were
unsuccessful.”).

1 canyons and dangerous rapids. These ill-fated attempts show that the Upper Salt River is not
2 and never has been “navigable.”

3 ***c. Commercial operations near the river***

4 The river’s lack of susceptibility to navigation is further evidenced by the pre-statehood
5 commercial operations on the banks of the river that could have benefited greatly from a direct
6 water route to the Phoenix area. Despite this substantial potential benefit, no evidence exists
7 that any of these commercial entities ever used the Upper Salt River as a “highway for
8 commerce.”

9 For example, Mr. Fuller reports that King Woolsey operated a salt works on the banks
10 of the river in the 1870s. See Fuller, supra, at 3-15; Tr. at 30-31 (Gilpin). The river would
11 have provided a direct water route to Phoenix if it had been navigable, but all evidence
12 indicates that Woolsey instead had to pack the loads of heavy salt out of the Salt River
13 Canyon by land. See Fuller, supra, at 3-15; Tr. at 30-31 (Gilpin).

14 Similarly, Mr. Fuller’s report notes that the completion of the Apache Trail in 1906
15 was an important event for the residents of Globe, giving them “a much shorter wagon route
16 to Phoenix than the existing road over the Pinal Mountains.” Fuller, supra, at 3-33.
17 Substantial pre-statehood mining activities occurred in the “Globe Mining District,” which
18 stretched from the Upper Salt River to the Gila River. See id. at Appendix A (Historical Maps
19 of the Upper Salt River). By the early 1900s, Phoenix was a center of population and a
20 transportation hub. Still, although the Upper Salt River constituted a direct route from the
21 Globe Mining District to Phoenix, no evidence exists that any miner ever succeeded in (or
22 even attempted) transporting ore down the river on water. See Tr. at 35-36 (Gilpin).

23 **5. Post-statehood use of the river**

24 In his report, Mr. Fuller states: “By 1912, use of boats on the river had declined, but
25 was still possible during most years, a condition which persists today.” Fuller, supra, at 4.
26 The fact that post-statehood boating on the river represented a “decline” from the pre-
27 statehood activity (which consisted of eight largely unsuccessful attempts over the course of

1 thirty-seven years) shows the paucity of boating on the river in general. Furthermore, that the
2 best the Land Department's consultant can say is that boating is "still possible during most
3 years" speaks volumes about the river's susceptibility for use as a "highway for commerce."

4 Although some modern-day boating occurs on the Upper Salt River, the vast majority
5 of this takes place upstream from Roosevelt Dam. As Mr. Fuller noted in his report, boating
6 below Roosevelt is neither recommended nor regularly undertaken. See id. at 3-39 to 3-40.
7 The stretch of the river between Stewart Mountain Dam and Granite Reef Dam attracts
8 visitors using inner tubes. Id. at 3-40. The flows in this stretch of the river are, however,
9 largely dependent upon releases from the man-made reservoirs upstream. See id. at 5-3
10 (referring to "Reach 3"); Tr. at 23, 49-50 (Fuller). In addition, no evidence in the record
11 suggests that this lower stretch of the river can support travel by any boats (as opposed to
12 floating on your backside on a rubber tube). See Fuller, supra, at 3-40; Tr. at 23 (Fuller).

13 Boating upstream of Roosevelt Dam is sporadic at best, and largely consists of thrill-
14 seekers looking for a white-water adventure.¹¹ "The 48 miles of river upstream from
15 Roosevelt Lake . . . is known nation-wide as a first-class whitewater river." U.S. Forest
16 Service, Evaluation of Navigability at the Time of Statehood: Salt River 2 (January 1998) (EI
17 8) ("USFS"). The same braided channel and bedrock outcroppings that make commercial
18 transport difficult also make the river attractive to kayakers and others. "The gradient of the
19 river is one of the reasons for the wild ride encountered by today's boaters." Id. at 2-3. Even
20 this recreational activity occurs only under certain flow conditions that exist only in limited
21 portions of normal years, and some years exist in which the flows never reach the minimum
22 acceptable level even for these types of activities. See Tr. at 19, 21 (Fuller).

23 The presence of impediments to navigation, even for "daring adventurers," is further
24 buttressed by the 1993 conviction of eight men who used explosives to alter the rapids at
25 Quartzsite Falls, located above the mouth of Cherry Creek. See Fuller, supra, at 3-40; Tr. at
26

27 ¹¹ See Tr. at 19 (Fuller) ("The rafters are after the big water, it's the most fun, the people have the
biggest thrill ride for."); see also id. at 48-49 (Fuller).

1 50. The obvious purpose of this action was to attempt to clear the river of rocks, rapids, and
2 other obstructions that made the river not susceptible to even the most basic and risky boating
3 efforts. See Fuller, supra, at 3-40; see also Tr. at 50 (Fuller) (“They were frustrated with the
4 tie-ups at that point.”). Prior to this destruction, “[e]ven with modern technology, boaters
5 routinely portaged around this rapid. Such portages took two to four hours, even when
6 traveling light.” USFS, supra, at 3-4.¹²

7 In the prior proceedings before this Commission regarding the navigability of the
8 Lower Salt River, Mr. Fuller stated that “modern boat use on the river does not provide proof
9 of susceptibility of a stream to navigation at statehood.”¹³ Although that statement does not
10 appear in Mr. Fuller’s report on the Upper Salt River, it is consistent with the conclusion in
11 the report submitted by the Forest Service: “River-runners today, with their high-tech
12 equipment and improved techniques, simply cannot be compared with the situation in 1912; to
13 do so would be like comparing a delicate, bruise-prone apple with a thick-skinned, practically
14 indestructible orange.” USFS, supra, at 7.¹⁴

15 Nothing in the historical record before this Commission indicates that the Upper Salt
16 River was used or susceptible to being used as a “highway for commerce” at statehood, or at
17 any time before or after statehood. In fact, every piece of historical evidence (from the
18 archaeological information to the records of the early explorers and the accounts of actual
19

20
21 ¹² “Even though Quartzsite Falls would have been the most dangerous rapid encountered in 1912,
22 there are many others which would have been extremely dangerous to someone attempting sustained
trade and travel.” USFS, supra, at 4.

23 ¹³ See JE Fuller/Hydrogeology & Geomorphology, Inc., Arizona Stream Navigability Study for the
24 Salt River: Granite Reef Dam to the Gila River Confluence 8-4 (Sept. 1996); see also Reporter’s
Transcript of Proceedings, Lower Salt River, at 69 (April 7, 2003).

25 ¹⁴ See also Harrison v. Fite, 148 F. 781, 785-86 (8th Cir. 1906); Toledo Liberal Shooting Club v. Erie
26 Shooting Club, 90 F. 680, 682-83 (6th Cir. 1898); United States v. Crow, Pope & Land Enters., Inc.,
340 F. Supp. 25, 32 (N.D. Ga. 1972), appeal dismissed, 474 F.2d 200 (5th Cir. 1973); Hannigan v.
27 New York, 629 N.Y. Supp. 2d 509, 512 (1995); State v. Brace, 36 N.W.2d 330, 333-34 (N.D. 1949);
Taylor Fishing Club v. Hammett, 88 S.W.2d 127, 129-30 (Tex. 1935); Webb v. Board of Comm’rs of
Neosho County, 257 P. 966, 967 (Kan. 1927).

1 attempts to boat the river around statehood) shows that the river is and always has been non-
2 navigable.

3 **B. Climate, Hydrology, and Geomorphology of the Upper Salt River**

4 The other evidence presented to the Commission is similarly insufficient to constitute a
5 “preponderance of the evidence” in favor of navigability. All of the climatic evidence
6 indicates that the desert climate provided for brief, violent periods of precipitation and runoff,
7 rather than the type of weather that would produce a particularly large or regularly flowing
8 stream. The hydrologic evidence, which is limited in degree, shows that the river was erratic
9 and never included sufficient flows to support a “highway for commerce.” The geomorphic
10 evidence shows that the river was braided in long reaches and also contained bedrock
11 controls, including numerous rapids, that would be impediments to navigation.

12 As anyone who has lived in central Arizona for any period of time is aware,
13 precipitation in the Salt River Valley and the adjoining watersheds “occurs during two major
14 seasons: in late summer as intense, localized orographic thunderstorms; and in winter as large-
15 scale cyclonic storms which originate over the Pacific Ocean.” Fuller, supra, at 4-4.¹⁵ This
16 weather pattern is reflected in the data relating to the monthly average flows of the river. In
17 Table 14 of his report, Mr. Fuller summed gauge data on the Upper Salt River at Roosevelt
18 and the Verde River at Tangle Creek to yield an estimated combined flow number at the
19 confluence of the Salt and Verde Rivers (near the lower end of the reach at issue in this
20 proceeding). See Fuller, supra, at 5-18. That data shows a variation in monthly average flows
21 from 3,420 cubic-feet per second (“cfs”) in March to 501 cfs in June. See id. These variable
22 flows reflect the erratic nature of the Upper Salt River, even on an average basis.

23 The hydrologic information submitted to the Commission is no more supportive of a
24 finding of navigability than is the climate data. There were few stream gauge records
25 available for this reach of the river at or before statehood. See Fuller, at 5-18. No flow
26

27 ¹⁵ “Orographic” refers to the fact that the storms are “associated with or induced by the presence of mountains.” Webster’s New Collegiate Dictionary 810 (1977).

1 records exist for the actual day of statehood—February 14, 1912. See id. at 5-14.¹⁶ Due to
2 this almost complete lack of any real data, what Mr. Fuller did was to add the Upper Salt and
3 Verde figures discussed above and arrive at an **estimate** of average annual flow on the Upper
4 Salt River below its confluence with the Verde. See id. at 5-18 (Table 14).

5 Knowing the average annual flow of a river is of dubious value in determining whether
6 that river is or was “navigable,” however. The average annual flow data is skewed due to
7 high flood volumes relative to “typical” flow rates. For instance, a flow of 285,000 cubic-feet
8 per second (“cfs”) occurred during a flood in 1891 (one of the years a modern-day historian
9 thinks he recalls seeing an article about floating timber down the river). See Fuller, supra, at
10 3-36. If that flood had lasted for only two days, the average annual flow for the entire year
11 1891 would have been 1,561.5 (117 cfs more than the actual annual average)—even if there
12 had been absolutely no flow whatsoever for any of the other 363 days that year. It should be
13 beyond dispute that the Upper Salt River cannot act as a “highway for commerce” during a
14 flood flow of 285,000 cfs. It is likewise indisputable that the river cannot be navigated with
15 363 days of no flow. Knowing the average annual flow of an erratic stream like the Upper
16 Salt River provides little information about whether that river is or ever was navigable.¹⁷

17 Even if the Commission finds the “average annual flow” information to be important,
18 that information does not support a finding of navigability. A document compiled and
19 submitted by SRP, Information Regarding Navigability of Selected U.S. Watercourses (April
20 2003) (EI 17) (“Watercourse Information”), contains information on every federal or state
21 court decision SRP could locate in which the “navigability” of a river was actually determined
22 using the Daniel Ball test. Appendix B attached hereto summarizes the annual mean (average)
23 flow information, compiled by the United States Geological Survey, for each of the twenty-
24 one watercourses discussed in that document.

25 ¹⁶ It is known, however, that the month of February 1912 “was unusually dry.” See Fuller, supra, at 5-
26 13.

27 ¹⁷ Knowing (or estimating) the “average depth” of a river is likewise of limited value to determining
whether it was “navigable.” See Tr. at 60-61 (Fuller).

1 Mr. Fuller estimated the average annual flow of the Upper Salt River, without
2 considering the presence of any dams or diversion structures, at 1,445 cfs. See Fuller, supra,
3 at 5-18 (Table 14). Four of the twenty-one watercourses listed in Appendix B have been
4 found “navigable,” in whole or in part, by a state or federal court. Of those four “navigable”
5 watercourses, the lowest annual average flow is 2,277 cfs—for the Great Miami River in
6 Ohio, which was found navigable in part and non-navigable in part. See Appendix B. The
7 other three “navigable” watercourses had average annual flow rates of 7,316 cfs (the Colorado
8 River in Utah), 6,930 cfs (the Green River in Utah), and 4,066 cfs (the McKenzie River in
9 Oregon). Id. Five rivers that courts have specifically determined to be non-navigable (the
10 Arkansas River in Oklahoma, the Chattahoochee River in Georgia, the Little River in
11 Arkansas, the Neosho River in Kansas, and the Red River on the border between Oklahoma
12 and Texas) have average annual flow rates higher than Mr. Fuller’s estimated 1,445 cfs. See
13 Appendix B; Watercourse Information, supra.¹⁸ The hydrologic evidence in the record does
14 not support a finding of navigability for the Upper Salt River.

15 The geomorphic evidence in the record also refutes, rather than supports, a finding of
16 navigability. Substantial portions of the river consist of a braided channel, which is associated
17 with sand bars and other impediments to navigation. See Schumm, Geomorphic Character of
18 the Upper Salt River 1, 3-4, 9, 12 (January 2005) (EI 28) (“Schumm”). Geomorphologist Dr.
19 Stanley Schumm stated, for example, that “many bedrock controls, including 18 rapids and
20 steep gradients ranging from 17 to 31 feet per mile,” exist in the river between Roosevelt Lake
21 and the Highway 60 bridge. Id. at 2. Dr. Schumm opined: “Clearly, the bedrock controls
22 along the Upper Salt River prohibit navigation.” Id.; see also id. at 5-8, 12; Tr. at 83-89
23 (Schumm).

24
25
26 ¹⁸ The Rio Grande in New Mexico, which the United States Supreme Court determined to be non-
27 navigable in 1899 before any major water storage or diversion facilities were constructed, has an
average annual flow of 1,513 cfs. See Appendix B; Watercourse Information, supra, Tab 17; United
States v. Rio Grande Dam & Irr. Co., 174 U.S. 690 (1899).

1 Mr. Fuller reached a similar conclusion regarding the geomorphology of the Upper Salt
2 River in his report:

3 Review of the geology of the Upper Salt River indicates that the channel
4 geomorphology is substantially unchanged from its condition at or before
5 statehood, except where the river has been inundated by reservoir
6 impoundments. Most of the Upper Salt River is formed in bedrock canyons.
7 Bedrock along the channel margins in these canyons precludes significant
8 movement of the river channel or other channel changes. In addition, the
9 bedrock geology of the Upper Salt River made access to the river difficult
10 during the period around statehood, prevented development of extensive
11 irrigation systems, and prevented the development of large population centers
12 near the river. Bedrock outcrops in the channel created waterfalls, rapids, and
13 narrow canyons which may have been potential impediments to navigation for
14 some types of boats such as keel boats, steamboats and powered barges.

15 Fuller, supra, at 4-15.¹⁹

16 Large floods on the Upper Salt River prior to statehood created a wide-braided
17 channel, especially in the lower portions of the river. The upstream canyon reaches of the
18 river are “very steep and rapids are frequent.” See Schumm, supra, at 12. “These conditions
19 make navigation impossible.” Id.

20 C. Prior Judicial Opinions Regarding Navigability of the Salt River

21 This Commission is only the most recent of several adjudicatory bodies that have been
22 required to consider whether some or all of the Salt River was navigable. At least three courts
23 have previously stated that the river was **not** navigable on or before February 14, 1912.²⁰

24 ...

25 ...

26 ...

27 ¹⁹ See also Fuller, supra, at 4-10 (“Historical accounts of boating the Upper Salt River describe the
waterfalls and rapids, and sheer canyon reaches that lacked beaches or bars on which to land.”); id. at
5-6 (“Within the Upper Salt River study reach, the river is located almost entirely within steep
bedrock canyons.”).

²⁰ These three judicial decisions are in addition to the Commission’s own finding that the Lower Salt
River was non-navigable.

1 **1. Wormser v. Salt River Valley Canal Co. (Kibbey Decree)**

2 The first decision regarding the navigability of the Salt River was issued by Judge
3 Joseph H. Kibbey of the Territorial District Court in 1892.²¹ That suit was initiated by
4 downstream water users and canal companies against upstream appropriators. See generally
5 Kibbey Decree, supra, at 1-5. The court characterized the plaintiffs' complaint as follows:
6 "[The plaintiffs] filed their complaint in this court against the Arizona canal company,
7 alleging that the Salt River is a natural **unnavigable** stream rising in the mountains in the
8 eastern part of the territory and running thence in a westerly direction to its junction with the
9 Gila River in Maricopa County." Kibbey Decree, supra, at 4-5 (emphasis added); see also Tr.
10 at 108 (Littlefield).

11 In ruling on the water rights at issue in that case, Judge Kibbey relied upon the 1864
12 "Howell Code" and the Desert Land Act of 1877. Judge Kibbey decided that territorial law
13 applied and went on to apply that law to the water rights dispute. See Kibbey Decree, supra.

14 A finding of non-navigability was necessary to Judge Kibbey's decision in that case.
15 When the case was decided in 1892, the United States retained control over all navigable
16 streams. See generally Federal Power Comm'n v. Oregon, 349 U.S. 435, 454 n.2 (1955). Had
17 the river been navigable, it is much less clear that Judge Kibbey would (or could) have applied
18 the territorial law of prior appropriation. Judge Kibbey found, however, that because the Salt
19 River was "unnavigable," territorial law applied.

20 **2. Hurley v. Abbott (Kent Decree)**

21 The Kibbey Decree set forth the rights to water from the Salt River as between the
22 various canal companies, but Judge Kibbey did not "attempt to define the rights of individual
23 irrigators." Kibbey Decree, supra, at 74. Events subsequent to the issuance of the Kibbey
24

25 ²¹ Wormser v. Salt River Valley Canal Co., No. 708, Second Judicial District, Territory of Arizona,
26 County of Maricopa (March 31, 1892) ("Kibbey Decree"). A copy of the Kibbey and Kent Decrees
27 was submitted to the Commission as part of SRP's Motion to Dismiss filed on January 14, 1994, and
resubmitted on August 27, 1996 and on October 17, 2005 (EI 31, 32). SRP incorporates by reference
herein the facts presented in its 1994 Motion to Dismiss.

1 Decree, including the pending development of the Salt River Federal Reclamation Project,
2 made it necessary that rights be established as between individual appropriators and not just
3 between the canal companies. The determination of these individual rights was set forth in the
4 1910 Kent Decree.²²

5 In determining the rights of individual appropriators, Judge Kent relied heavily on the
6 legal rules set forth in the Kibbey Decree. Judge Kent expressly stated that the river was a
7 “non-navigable stream” and, therefore, applied territorial prior appropriation law. *Id.* at 3.
8 The finding of non-navigability was essential to the adjudication of water rights in the Kent
9 Decree, as it was in the Kibbey Decree, because it determined what law applied. *See also* Tr.
10 at 108 (Littlefield).

11 3. SRPMIC v. Arizona Sand & Rock Co.

12 A more recent court decision addressed the navigability of the Salt River. *See Salt*
13 *River Pima-Maricopa Indian Community v. Arizona Sand & Rock Co.*, D. Ariz. (April 13,
14 1977) (Cause No. CIV 72-376-PHX) (“SRPMIC”). In 1972, the Salt River Pima-Maricopa
15 Indian Community filed an action in federal court to eject certain defendants from lands
16 claimed to be part of the Salt River Indian Reservation. A portion of the lands in dispute was
17 situated within the banks of the river just below Granite Reef Dam. SRP and the State were
18 parties to that consolidated action.

19 The State initially argued that it held title to the disputed lands because the river was
20 navigable and the State owned its bed. In the final judgment, the court held that the title to the
21 lands was vested in the United States, not the State of Arizona. The court based its finding
22 upon its conclusion that “[t]he Salt River is not now [1977] and never has been a navigable
23 river.”

24 Because the SRPMIC litigation involved title as between the United States and the
25 State of Arizona, the issue of navigability as of February 14, 1912, was important to the
26

27 ²² *Hurley v. Abbott*, No. 4564, Third Judicial District, Territory of Arizona, County of Maricopa
(March 1, 1910) (EI 31).

1 court's decision. The court's finding was based upon the conclusion that the river was not
2 navigable.

3 **IV. LEGAL ARGUMENT**

4 The Commission must review all of the evidence and determine whether the Upper Salt
5 River was "navigable" on February 14, 1912. SRP submits that, although the task of
6 reviewing the evidence is perhaps time-consuming and tedious, making the actual decision
7 should be easy. No evidence supports a finding that the Upper Salt River is or ever was used
8 or susceptible to being used as a "highway for commerce."

9 **A. Based upon the Evidence in the Record, the Upper Salt River is Not** 10 **"Navigable" as Defined in A.R.S. § 37-1101(5).**

11 In its 2001 decision in Defenders of Wildlife v. Hull, the Arizona Court of Appeals
12 stated that "all evidence should be examined during navigability determinations and no
13 relevant facts should be excluded." 199 Ariz. at 425, 18 P.3d at 736.²³ "[A] river is navigable
14 in law when it is navigable in fact." Muckleshoot Indian Tribe v. FERC, 993 F.2d 1428, 1431
15 (9th Cir. 1993). Thus, the Commission must consider all of the evidence in the record before
16 it. SRP submits that, when the Commission reviews the evidence submitted at and before the
17 two hearings, and considers the totality of that evidence, it must determine that the Upper Salt
18 River never has been used or susceptible to being used as a "highway for commerce,"

19
20 ²³ It is important to note the procedural posture of the Court of Appeals' decision in Hull. That court
21 **did not** decide whether any particular watercourse was navigable. See 199 Ariz. at 430, 18 P.3d 741
22 (Thompson, J., concurring in part, dissenting in part). Rather, the court was faced with deciding the
23 constitutionality of the 1994 statute, which contained a variety of presumptions and evidentiary
24 exclusions. The court considered each of the provisions of the 1994 statute as though it was an all-or-
25 nothing proposition. For example, the Court stated: "[W]e conclude that a mandatory finding of non-
26 navigability for watercourses that flow in direct response to precipitation, **although such a fact may**
27 **be probative**, is contradictory to the *Daniel Ball* test." Id. at 422, 18 P.3d at 733 (emphasis added).
The court determined that the provisions of Section 37-1128 in effect under the 1994 statute created a
"one strike and you're out" test. The court found that these individual restrictions did not comply
with the federal standard. The court recognized, however, that the Commission could and should
consider most (if not all) of the factors contained in those statutes as part of the totality of the
evidence in determining navigability. See id. at 425, 18 P.3d at 736. The Legislature simply could
not require that each watercourse satisfy **all** of the factors in order to be navigable.

1 regardless of how the Commission interprets the particular legal details of the test for
2 “navigability.”

3
4 1. **The Upper Salt River has never actually been used as a “highway for
5 commerce.”**

6 A watercourse can meet the test for “navigability” under the Arizona statute and the
7 case law if it satisfies either of two elements: (1) If it was actually used as a “highway for
8 commerce,” or (2) if it was “susceptible to being used” as a “highway for commerce.” See
9 A.R.S. § 37-1101(5).

10 It is beyond reasonable dispute that the Upper Salt River has never been actually used
11 as a “highway for commerce.” No evidence exists of any prehistoric boating or flotation of
12 logs on the river. See Section III(A)(4), supra. Likewise, no evidence exists that the early
13 explorers or soldiers in the Salt River Valley, who traveled through the area on several
14 occasions, ever used the river—for “commerce” or otherwise. See Section III(A)(2), supra.
15 No credible evidence exists in the record that any successful “tie drive” or any other effort to
16 float logs or timber down the river was ever conducted on the Upper Salt River. See Section
17 III(A)(4), supra. The evidence of the eight accounts of attempted boating on the river between
18 1873 and 1910, discussed in detail in Appendix A, does not establish that the river was used
19 for any type of regular (or even periodic) trade or transportation during the period immediately
20 before and at statehood. See id.²⁴ Any adventurous attempts to float boats on the river since
21 1911 have been sporadic, recreational, and almost uniformly unsuccessful (and, at times,
22 disastrous). See Section III(A)(5), supra.²⁵

23 ...

24 ...

25 ²⁴ See also Tr. at 16 (Gilpin) (“It is very clear from many of these accounts that people themselves
26 regarded their trip down the Salt as an experimental sort of thing.”).

27 ²⁵ Even the Land Department’s hydrologist conceded that the river “in its ordinary and natural
condition is not suitable” for navigation such as “hauling cattle or hauling salt from the salt mines.”
Tr. at 145 (Fuller).

1 2. **The Upper Salt River has never been “susceptible to being used” as a**
2 **“highway for commerce.”**

3 Because it is abundantly clear that the river was never actually used as a “highway for
4 commerce,” the only way it can be considered navigable is if it was “susceptible” to such use.
5 No evidence exists in the record to show that the river, in any condition at any time, was
6 capable of acting as “a corridor or conduit within which the exchange of goods, commodities
7 or property or the transportation of persons may be conducted.” A.R.S § 37-1101(3) (defining
8 “highway for commerce”).

9 Although the river existed in close proximity to much of the exploration and settlement
10 in early Arizona, it was never used for any type of trade or transportation. In order for the
11 Commission to determine that the river was “susceptible to being used . . . as a highway for
12 commerce,” it must find that the prehistoric inhabitants, the early explorers, the soldiers at
13 Fort McDowell, Mr. Woolsey who operated a salt works on the banks of the river, the miners
14 in Globe, and thousands of citizens who resided in the general area prior to statehood simply
15 failed to comprehend the potential usefulness of the river as an avenue for navigation. No
16 evidence exists to support such a finding.

17 It might be theoretically possible that, on one or more occasions in particular years, it
18 would have been feasible for a person to boat or float logs down some portion of the river.
19 Occasional use in exceptional times does not, however, support a finding of navigability.
20 “The mere fact that a river will occasionally float logs, poles, and rafts downstream in times of
21 high water does not make the river navigable.” Crow, Pope & Land, 340 F. Supp. at 32
22 (citing Rio Grande Dam, 174 U.S. at 690). “The waterway must be susceptible for use as a
23 channel of useful commerce and not merely capable of exceptional transportation during
24 periods of high water.” Id. (citing Brewer-Elliott Oil & Gas Co. v. United States, 260 U.S. 77
25 (1922)).²⁶

26

27 ²⁶ See also United States v. Harrell, 926 F.2d 1036, 1040 (11th Cir. 1991) (“susceptibility of use as a
highway for commerce should not be confined to ‘exceptional conditions or short periods of
temporary high water’”) (quoting United States v. Utah, 283 U.S. 64, 87 (1931)).

1 Perhaps the best evidence that the river was not “susceptible to being used” for
2 navigation at or before statehood are the accounts of those “daring adventurers” who actually
3 tried to use the river for that purpose. See Section III(A)(4), supra; Appendix A. The record
4 of those eight accounts of attempted boating is replete with evidence of “much toil and
5 difficulty” and “great hardships.” See, e.g., Appendix A (Accounts Nos. 1, 4, and 8). Those
6 who actually tried to boat the river “pronounce[d] the scheme a failure” and stated that they
7 had “no serious intention of attempting to go into competition with the stage company.” See
8 id. (Accounts Nos. 1 and 8). The Commission can be certain that the river was not
9 “susceptible to being used” for navigation because several individuals tried it and failed.

10
11 **B. The Commission Should Not Find that Roosevelt Lake is a “Navigable
Watercourse.”**

12 SRP submits that the Commission should not find that Roosevelt Lake is a “navigable
13 watercourse” as defined in A.R.S. § 37-1101(5), for two reasons. First, because the lake is a
14 “man-made water conveyance system” under A.R.S. § 37-1101(4), it is excluded from the
15 definition of watercourse in Section 37-1101(11). Second, even if Commission proceeds to
16 the substantive issue of determining the lake’s navigability, it should find the lake non-
17 navigable.

18 **1. The Commission lacks subject matter jurisdiction to determine the
19 navigability of Roosevelt Lake because it does not meet the statutory
definition of a “watercourse.”**

20 On September 15, 2005, SRP filed a motion with this Commission, requesting that the
21 Commission find that it lacks statutory subject matter jurisdiction to determine the
22 navigability of Roosevelt Lake or any of the former stream reaches lying thereunder, because
23 they had become part of a “man-made water conveyance system” prior to February 14, 1912.
24 See A.R.S. § 37-1101(4), (11). Although the State Land Department submitted a response
25 disagreeing with SRP regarding the portions of the former streams lying beneath the lake, no
26 party disputed SRP’s contention that the lake bed itself (except for, perhaps, the former
27 streambeds) was not within this Commission’s jurisdiction. For the reasons set forth in SRP’s

1 motion (which is incorporated herein by this reference), the Commission should refrain from
2 making a determination of whether the lake itself was “navigable” on February 14, 1912.

3 **2. If the Commission reaches the substantive issue of whether Roosevelt**
4 **Lake is “navigable,” it should determine that the lake is not**
5 **“navigable” as defined by A.R.S. § 37-1101(5).**

6 Roosevelt Lake is a man-made reservoir that was constructed by the United States
7 pursuant to the 1902 Reclamation Act. Prior to construction, the United States acquired title
8 to the land that would be inundated by the reservoir. See Various deeds and other documents
9 relating to the United States’ acquisition of the site for Roosevelt Lake in the early 1900s (EI
10 30); see also Fuller, supra, at 3-17 to 3-21 (discussing the Federal Government’s acquisition of
11 the community of Catalpa and other nearby farms and ranches); Tr. at 31-32 (Gilpin). The
12 express congressional purpose of this acquisition and construction was to create a reservoir for
13 water storage purposes, not for navigation.

14 The lake is not a “navigable watercourse” as defined in A.R.S. § 37-1101(5). In
15 addition to not satisfying the definition of “watercourse” under Section 37-1101(11) as
16 discussed above, the lake does not meet the definition of “navigable” under Section 37-
17 1101(5) because, in its “ordinary and natural condition,” the lake does not exist. The lake is
18 not a “natural” feature; it is an artificial reservoir created by the efforts of the United States
19 Bureau of Reclamation.

20 Furthermore, the “federal test,” which is set forth in Section 37-1101(5), requires that
21 the watercourse be useful as a “highway for commerce.” In other words, the watercourse has
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23
24
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26
27

1 to be capable of being used for getting goods or people from somewhere to somewhere else.²⁷
2 Roosevelt Lake is a man-made reservoir located in the middle of a national forest. If someone
3 were to traverse the entire lake in a boat, she would not be significantly closer to getting to
4 another location than she would have been by driving or walking around the outside of the
5 lake. Roosevelt Lake is not used or susceptible to being used as a “highway for commerce,”
6 so it is not “navigable” under the federal test or the Arizona statute.

7 **V. SUMMARY AND REQUESTED ACTION**

8 The Commission should find the Upper Salt River “non-navigable.” Nothing in the
9 record supports a finding that the river is, was at statehood, or ever has been used or
10 susceptible to being used as a “highway for commerce.”

11 The Commission should refrain from addressing the navigability of Roosevelt Lake in
12 this proceeding. If it does reach that substantive issue, it should determine that the lake itself
13 is “non-navigable.”

14 DATED this 9th day of December, 2005.

15 SALMON, LEWIS & WELDON, P.L.C.

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23 ²⁷ See State v. Adams, 89 N.W.2d 661, 676 (Minn. 1958), cert. denied, 358 U.S. 826 (1958) (“The
24 beginning and the end of a highway [for commerce] must be such that useful commerce would
25 naturally go between them.”); Taylor Fishing Club, 88 S.W.2d at 130 (“While Stanmire Lake is large
26 enough to float a boat, it is not wide enough or long enough to provide a practical route for the
27 transportation of commodities in any direction and does not connect any points between which it
would be useful as a practical route for navigation.”) (finding lake non-navigable); cf. Lykes Bros.,
Inc. v. Corps of Eng’rs, 821 F. Supp. 1457, 1463 (M.D. Fla. 1993), aff’d, 64 F.3d 630 (11th Cir.
1995) (to be considerable “navigable,” a waterway “must be able to sustain commercial navigation on
a predictable and reliable basis.”).

1 ORIGINAL AND SIX COPIES of the
2 foregoing, with attachments, hand-delivered
for filing this 9th day of December, 2005 to:

3 Arizona Navigable Stream Adjudication Commission
4 1700 West Washington, Suite 304
Phoenix, AZ 85007

5 AND COPY, with attachments, mailed this
6 9th day of December, 2005 to:

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26
27 

APPENDIX A

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INFORMATION ON “AT LEAST EIGHT ACCOUNTS OF ATTEMPTS, SUCCESSFUL OR OTHERWISE, TO BOAT OR TO TRANSPORT GOODS DOWN THE SALT RIVER BETWEEN 1873 AND 1910”¹

1. **June 1873**: Charles Hayden and others attempted to float logs down the river to establish a lumber mill at Tempe. The trip involved “much toil and difficulty,” and the Hayden party itself “pronounce[d] the scheme a failure.” The group “lost their arms, ammunition and provisions, excepting flour.” At one point, they came to a canyon so narrow that a log could not pass through it. Eventually, they “were compelled to abandon their boat and foot it.” See Fuller, supra, at 3-34; see also Tr. at 12 (Gilpin) (“We don’t know what his starting point was, but he did try to get them all the way down to Phoenix, and of course they got hung up in the box canyons.”); see also id. at 36-37 (Gilpin).

2. **1883**: What appears to be Mr. Jim Meadows’ obituary in 1909 states that Mr. Meadows and three other men floated the river from near present-day Roosevelt Dam to Tempe in 1883. See Tr. at 38 (Gilpin). No contemporaneous report of this voyage has been located. The 1909 article recounts navigational difficulties that the crew experienced. Nothing in the 1909 article indicates what time of year this trip took place (if it did take place) or whether it occurred during a flood. A substantial possibility exists that this 1909 article is a belated account of the June 1885 trip discussed in Paragraph 4. Jim Meadows (or Meaders) is involved in both accounts. The described length of the trip (Livingstone to Tempe vs. “4 miles above Tonto Creek confluence” to Phoenix) is roughly the same. See Fuller, supra, at 3-34; Tr. at 38-41 (Gilpin).

¹ JE Fuller/Hydrology & Geomorphology, Inc., Arizona Stream Navigability Study for the Salt River: Granite Reef Dam to the Confluence of the White and Black Rivers, 3-34 to 3-40 (revised June 2003) (EI 27) (“Fuller”).

3. **February 1883:** A local newspaper article states that the “Salt River is a navigable stream and should be included in the river and harbor appropriation.” The river was not, however, included in any appropriation under the Rivers and Harbors Act. See Tr. at 41 (Gilpin). The same 1883 article reports on a purported trip from McDowell to a pier on the Salt River Valley Canal. The trip was reportedly made in a “canvas skiff.” See Fuller, supra, at 3-34; Tr. at 41 (Gilpin). This trip apparently occurred in February, which, according to Mr. Fuller, is typically a month of high runoff. See Fuller, supra, at 5-18 (Table 14 shows average February runoff at 2,240 cubic feet per second, the third-highest month of the year.). Mr. Fuller’s report also notes that a major flood occurred in 1883. See Fuller, supra, at 3-29.

4. **June 1885:** Five men attempted to float a boat on the river as an experiment to see if logs could be successfully floated down the river. The article refers to the Salt River Canyon as one “through which a boat was never known to pass.” “The rapids with numerous projecting boulders [made] the trip a hazardous one,” and, “on one occasion, they were wrecked, losing provisions, fire arms, etc.” An article published on June 6 states: “The boat on one occasion shot under a cave, but a few feet high, and where its inmates commenced to fear that the end had come.” Nothing in any of the newspaper articles suggests that these individuals actually floated logs down the river, as opposed to simply trying to float a boat and investigate whether logs could be floated. A substantial possibility exists that this is the same trip described in the 1909 obituary discussed in Paragraph 2 above. See Fuller, supra, at 3-35 to 3-36; Tr. at 45 (Fuller).

5. **December 1888:** Two soldiers from Fort McDowell tried to float a canoe on the Verde and Salt Rivers to Phoenix. One of the soldiers was killed when he accidentally shot himself while lifting the boat over a dam. See Fuller, supra, at 3-35; Tr. at 43-44 (Fuller). This trip apparently occurred in December, which, according to Mr. Fuller, is typically a month of high runoff. See Fuller, supra, at 5-18 (Table 14 shows average December runoff at 1,589 cubic feet per second.); Tr. at 44 (Fuller).

6. **1890 or 1891:** A modern-day historian thinks he remembers seeing a newspaper article from 1890 or 1891, indicating that logs or sawn timber from Fort McDowell were floated down the Verde River to be used in constructing headgates for the Consolidated Canal. No such article has ever been found. See Tr. at 13-14 (Gilpin) (describing this account as “not nearly as well documented” as others and “one of the least reliable accounts”); see also id. at 24 (Gilpin). Even the historian’s recollection, as described in Mr. Fuller’s report, does not indicate that the timber was actually floated on the Salt (as opposed to the Verde) River. Furthermore, even if this recollection were correct and documented, nothing exists in the record to show that this event did not occur during the major flood in 1890 (143,288 cfs on February 22, 1890) or 1891 (258,000 cfs in February 1891). See Fuller, supra, at 3-36; id. at 5-25 (Table 18 shows 143,288 cfs flood in 1890 and 285,000 cfs flood in 1891); Tr. at 45 (Fuller).

7. **1908:** George Greenwald was drowned while rafting down the Salt River toward Roosevelt Dam. The newspaper article describing this death gives no indication of where Mr. Greenwald started or how long the trip was. The article states that Mr. Greenwald was drowned after his raft was swept away by “rushing current” and tipped over. The article further states that the “reservoir had begun to fill during the February floods of that year.” This trip, or at least the newspaper account of it, also occurred in February. See Fuller, supra, at 3-38; Tr. at 45-46 (Fuller). February is, according to Mr. Fuller, typically a month of high runoff. See Fuller, supra, at 5-18 (Table 14 shows average February runoff at 2,420 cubic feet per second, the third-highest of any month).

8. **June 1910:** Roy Thorpe and James Crawford reportedly took a rowboat from Roosevelt Dam to Granite Reef Dam, and then to Mesa via the South Canal. The record is replete with evidence that this was not a successful boating trip: “The row boat which was used throughout the journey was in a very dilapidated condition at the end of the trip. Before the start was made three bottoms had been placed in the craft and one of these bottoms had been worn through by the constant friction of the boulders and sands

found in shallow waters.” On several occasions, “the men were compelled to lift their craft from the water and carry it over obstacles and at other times to haul it along the stands.” The newspaper article reporting on their adventure expressly states that they “have no serious intention of attempting to go into competition with the stage company.” See Fuller, supra, at 3-37; Tr. at 46-48 (Fuller).

APPENDIX B

APPENDIX B

COMPARISON OF ANNUAL MEAN FLOW RATE FOR VARIOUS STREAMS (cubic-feet per second)

River	Navigable?	Cfs	Data Source
Upper Salt River (AZ)	To be determined	1,455	Fuller Report, at 5-18 (Table 14)
Lower Salt River (AZ)	No	1,455	Fuller Report
Arkansas River (OK)	No	7,561	USGS data at Tulsa, OK (1926-1999)
Cedar River (WA)	No	164	USGS data near Cedar Falls, WA (1946-2000)
Chattahoochee River (GA)	No	2,031	USGS data at Buford Dam, GA (1943-2000)
Colorado River (UT)	Yes	7,316	USGS data near Cisco, UT (1914-2000)
Fisheating Creek (FL)	No	252	USGS data at Palmdale, FL (1932-2000)
Great Miami River (OH)	In part	2,277	USGS data at Dayton, OH (1914-1999)
Green River (UT)	Yes	6,930	USGS data at Green River, UT (1895-2000)
Little River (AR)	No	2,892	USGS data at Rivervale, AR (1948-1976)
Little Missouri River (ND)	No	555	USGS data near Watford City, ND (1935-1999)
McKenzie River (OR)	Yes	4,066	USGS data near Vida, OR (1925-2000)
Neosho River (KS)	No	2,764	USGS data near Parsons, KS (1922-2000)
Red River (OK/TX)	No	9,363	USGS data at Arthur City, TX (1906-1999)
Rio Grande (NM)	No	1,513	USGS data at Otowi Bridge, NM (1896-2000)
Sinnemahoning Creek (PA)	No	399	USGS data at Sinnemahoning, PA (1954-2000)
White River (AR)	No	563	USGS data at Fayetteville, AR (1964-1993)
Wolf River (TN)	No	1,107	USGS data at Germantown, TN (1970-2000)

Source: For all rivers other than Upper and Lower Salt, see Information Regarding Navigability of Selected U.S. Watercourses (April 2003) (EI 17).