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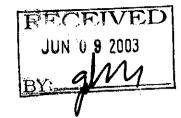
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# BEFORE THE ARIZONA NAVIGABLE STREAM ADJUDICATION COMMISSION

IN RE THE DETERMINATION OF NAVIGABILITY OF THE LOWER SALT RIVER, FROM GRANITE REEF DAM TO THE GILA RIVER CONFLUENCE No. 03-005-NAV

ARIZONA STATE UNIVERSITY'S OPENING POST-HEARING MEMORANDUM

## I. Introduction

The philosopher R.G. Collingwood once said, "[e]very new generation must rewrite history in its own way." Some people of our generation want to rewrite the history of Lower Salt River<sup>1</sup> navigability at statehood so the State of Arizona can take title to streambeds and serve these people's goals. But the Arizona Navigable Stream Adjudication Commission (Commission) is responsible for ensuring its findings are accurate, and not merely a form of revisionist history. In doing so, the Commission should give great weight to historical facts and to the opinions of knowledgeable people wrestling with water issues in near the time of statehood in 1912.

<sup>&</sup>lt;sup>1</sup> Lower Salt River is defined as the stretch of river from Granite Reef Dam to the Gila River confluence.

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The appropriate legal analysis is straightforward. Rivers that can transport people and goods are navigable in fact, and rivers navigable in fact at statehood are navigable in law.<sup>2</sup> Only a handful of daring adventurers ever tried to navigate the Lower Salt River, and it cost several their lives. Some people foolishly tried to navigate the river for business purposes, but these ventures failed. Contemporaries knowledgeable about navigation recognized the obvious - the Lower Salt River was never navigable. Thus, the Commission should find that the river was not navigable in fact or in law.

### II. **Preliminary Statement**

An Arizona streambed is navigable if "[o]n February 14, 1912, the watercourse, in its natural and ordinary condition, either was used or was susceptible to being used for travel or trade in any customary mode used on water." As applied to the Lower Salt River, this pronouncement of law wrongfully implies (1) the river's ordinary condition and natural condition were similar when in actuality they were drastically different; and (2) the Commission can accurately determine whether the unaltered river was theoretically susceptible to navigation.

The Commission recognizes the potential spectrum of legal tests it could apply.4 Liberally construed, the test could mean that a stream is navigable if its predevelopment natural flow was susceptible to being used for travel or trade. Conservatively construed,

<sup>&</sup>lt;sup>2</sup> The Daniel Ball, 77 U.S. 557, 563 (10 Wall.1870).

<sup>&</sup>lt;sup>3</sup> Defenders of Wildlife v. Hull, 199 Ariz. 411, 426, 18 P.3d 722, 737 (App. Div. I, 2001) (citing The Daniel Ball, 77 U.S. at 563) (emphasis added).

<sup>&</sup>lt;sup>4</sup> See Transcript of Record of Hearing dated April 7-8, 2003, at p. 13:18-23 (hereinafter "Tr. at p. \_ (Commissioner Brashear to ask "[o]n the Lower Salt ... is it the ordinary condition of that river ... with Roosevelt Dam there a few years before statehood, or is the ordinary condition the condition of the river as if the dam were not there?").

the test could mean that a stream is navigable only if it was actually used for travel or trade in 1912, when dams rendered the streambed dry. Between these two polar positions lie other possible readings. The Commission could interpret the court's statement of law four different ways, as shown below in Table 1.

	Used for Travel or Trade	Susceptible to Use for Travel or Trade
Natural Flow		
Ordinary Flow at		
Statehood		

Thus, as a preliminary matter, the Commission must decide to consider (1) ordinary stream conditions at statehood or natural stream conditions; and (2) actual use of the river or potential uses.

## III. The Commission Should Analyze Ordinary Flow at Statehood.

The federal test requires the Commission to review navigability at statehood.<sup>5</sup> The federal test seemingly assumes that the river's condition at statehood is similar to its natural condition. For the Lower Salt River, however, the river's ordinary condition at statehood differs greatly from its natural conditions.

Along the Lower Salt River, focusing on ordinary flow at statehood rather than natural flow is more appropriate. Dating back to the ancient Hohokam, for thousands of years people living in the Salt River Valley have been diverting water for irrigation and

<sup>&</sup>lt;sup>5</sup> Utah v. United States, 403 U.S. 9, 11 (1971).

domestic use.<sup>6</sup> Anglos continued the practice when they arrived in the Valley in the 1860's,<sup>7</sup> and such diversions continue today. In short, Valley residents have never known the river's natural flow. Knowing this, any attempt to determine natural stream conditions would be highly speculative.

Nevertheless, some people want the Commission to reach back into prehistory to determine "natural flow." Offering very little evidentiary support, they propose subjective judgments about the amount of water comprising the river's natural flow dressed up in the language of science. These opinions are pure conjecture and it would be inappropriate for the Commission to find the river was navigable based on such unsupported opinions. Thus, the Commission should focus on the ordinary conditions of the stream at statehood and avoid guessing what natural flows were and whether they could support navigation.

# IV. Physical River Conditions Prevented Navigation.

Even if there were enough water in the stream to theoretically float a boat, the river's braiding<sup>8</sup> punctuated by turbulent confining channels prevented navigation. Dr. Schumm, an expert on physical river conditions, vividly described what the typical boating attempt of the Lower Salt River would be like. Moving down river into the Valley, a boater first encounters a shallow braided river. The fast flowing river then flattens out and deposits sediments into a mile-wide reach braided with islands, bars and

<sup>&</sup>lt;sup>6</sup> CHM Hill, revised by JE Fuller, Arizona Stream Navigability Study for the Salt River: Granite Reef Dam to the Gila River Confluence, Report at p. 2-9 (Sept. 1996) (hereinafter "Hill Report").

<sup>&</sup>lt;sup>7</sup> Hill Report at p. 3-10.

8 "Braided stream" is defined as (1) A stream [that] divides into a network of channels branching and reuniting, separated by islands. (2) A complex tangle of converting and diverging stream channels separated by sand bars or islands. Nevada Division of Water Planning, WATER WORDS DICTIONARY, at p. 36 (1999).

## Historical Evidence Supports a Finding of Non-Navigability. V.

Historical evidence supports Dr. August's and Dr. Schumm's conclusion that stream conditions prevented navigation. The obvious truth is that if the Salt River could have been used for trade and travel, people would have done so. There is no credible evidence of navigation between prehistoric time and the American period beginning in

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Tr. at p. 197:13 - 198:5. 24

<sup>&</sup>lt;sup>10</sup> Id. at 198:5-12.

<sup>11</sup> Id. at 198:14-16.

Id. at 198:17-23.

<sup>13</sup> Id. at 195:5-9.

<sup>14</sup> Id. at 129:1-3.

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1848. Between 1848 and statehood in 1912, there were very few <u>attempts</u> to navigate the river, and most failed miserably. In fact, these reports of boating were more for entertainment pieces rather than serious articles on developing commercial navigation.<sup>15</sup>

## A. Attempts at Navigating the River Failed.

The lack of evidence illustrates that nobody traveled by way of the Lower Salt River at statehood. Several alleged accounts of boating on this stretch of the Salt actually occurred upstream from Granite Reef Dam on the Upper Salt River or other streams altogether. These attempts at navigation are still addressed because they show that the river was not navigable even in stretches of the Salt where there were no manmade impediments.

Most of the reported attempts to navigate the Lower Salt River ended in failure. In 1873, Charles Trumbull Hayden made a disastrous effort to float logs down the river. The Weekly Arizona Miner reported:

The Hayden party, left up Salt River to come down in a canoe and drive some logs with them, have returned, and pronounce the scheme a failure. With much toil and difficulty, on account of rapids and boulders in the river, they descended a long way, when, having lost their arms, ammunition, and provisions, excepting flour, they arrived in a [canyon] so narrow as not to admit of the passage of a log, and were compelled to abandon their boat and foot it.<sup>17</sup>

Eight years later, Bucky O'Neill's "Yuma or Bust" boat busted before reaching Gila Bend. In 1888, Major Spaulding died of an accidental gunshot wound inflicted as he

<sup>15</sup> Tr. at p. 127:4-22.

<sup>&</sup>lt;sup>16</sup> Hill Report at B-2; Tr. at p. 126:14-16 and 43:2-17.

<sup>17</sup> Hill Report at 3-19.

<sup>&</sup>lt;sup>18</sup> Id. at 3-20.

and Captain Hatfield tried to lift their canoe over Mesa Dam.<sup>19</sup> A year later, during a major flood period, Vol Gentry and W. Cox tried to float their ferry downstream to Gila Bend, but "[s]he was cut in two parts as if she had come across a buzz saw."<sup>20</sup> During another flood event, John Tisler drowned when his boat struck a barbed-wire fence and capsized.<sup>21</sup>

Even the adventurers that actually survived their boating experiences did not believe the river could be navigated. For example, during their rowboat trip from Roosevelt Dam to Mesa, the Thorpe-Crawford expedition many times carried their boat, which was described as "very dilapidated" by the end of the trip. Happy to reach Mesa alive, the men reported they "have no serious intention of attempting to go into competition with the stage company, nor did they attempt to break any speed regulations." Engineers of the Reclamation Service in 1905 "started down the river in a boat ... [and] found the Salt [R]iver a poor stream for navigation, however, and in the voyage of a mile they were shipwrecked twice."

The Report cites several other historical accounts of boating the river, but relying on them to support a finding of navigability is dubious at best. There is no indication that either the Cotton-Bingham trip of 1881 or the Shively expedition of 1905 actually boated the Lower Salt.<sup>24</sup> Jim Meadows' trip of 1885 and Soliday's report concerning A.J. Chandler's log float are second-hand accounts of what may have, or many not have,

Id. at 3-18.
 Hill Report at 3-22 (citing Tombstone Daily Prospector (Jan 24, 1889)).

<sup>&</sup>lt;sup>21</sup> Tr. at p. 59:6-16; Hill Report at 3-23.

<sup>&</sup>lt;sup>22</sup> Hill Report at 3-23.

<sup>&</sup>lt;sup>23</sup> *Id*. at 3-23.

<sup>&</sup>lt;sup>24</sup> See Tr. at pp. 43:18 - 44:2; and see Tr. at pp. 57:18 - 58:19.

occurred decades earlier.<sup>25</sup> Willcox and Andrews reportedly floated a canvas skiff from McDowell to the Salt River Valley Canal in an attempt to secure federal appropriations from the Rivers and Harbors Act,<sup>26</sup> but their efforts proved futile as the Salt failed to qualify as navigable under the act. Adams and Evans had to haul their boat overland from the Gila River to the Salt River, and there is no record of their boating the Salt River.<sup>27</sup>

Even the most "successful" of these ventures do not prove the river sustained trade or travel. Supposedly Vandemarke and Kilgore floated goods less than two miles from Hayden's Ferry to the Swilling Canal, but this occurred during a high flood period and they never attempted it again.<sup>28</sup> The alleged "successful" trip by Burch et al., confronted "rapids with numerous projecting boulders making the trip a hazardous one." This "party of daring adventurers" on one occasion wrecked and lost their provisions, firearms, etc.<sup>30</sup> One of these daring adventures named John Meaders claimed "[t]he boat on one occasion shot under a cave," and "fish were so thick that the boat floated on their backs." These exaggerations bring into question the veracity of the navigation claims, and although the stated purpose of the trip was to determine if a log float was possible, none of the adventurers ever attempted such an undertaking.

<sup>25</sup> See Tr. at pp. 45:16 - 46:17; and see Tr. at p. 53:18-24.

<sup>&</sup>lt;sup>26</sup> Tr. at p. 47:1-123. <sup>27</sup> Hill Report at 3-19.

 $<sup>^{28}</sup>$  Tr. at pp. 39:12-42:10.

Hill Report 3-21 (citing Arizona Gazette (June 3, 1885)).

<sup>&</sup>lt;sup>30</sup> Id. (citing Arizona Gazette, June 5, 1885).

<sup>&</sup>lt;sup>31</sup> *Id.* at 3-21, 3-22.

## B. Contemporaries Knew the River Was Not Navigable.

Along with the ample physical evidence that the river was non-navigable, the Commission should give great weight to the fact that contemporaries knowledgeable about water and navigation matters at statehood all knew the river was not navigable.

Nobody knew the river better than Charles Trumbell Hayden's son Carl. As an Arizona Senator, the younger Hayden called upon his personal childhood knowledge of the river's ebb and flow, flood and drought, and grew to become the country's "Legislative Water Master" of the 20<sup>th</sup> Century.<sup>32</sup> Early in his political career, then-Congressman Hayden sought federal funding to control the Lower Salt River under House Bill 221, addressing nonnavigable streams.<sup>33</sup> Hayden explained to his fellow congressmen, "I come from a state where we have dry rivers and no harbors. And I want to see a committee established that will give consideration to the flood problems on nonnavigable streams.<sup>34</sup> He often recalled his father's ill-fated attempt to float logs down the Salt River.<sup>35</sup> And knowing the river's history, Hayden wholeheartedly supported building Roosevelt Dam and the Apache Trail, a wagon road to transport men and materials from Phoenix to the dam site.<sup>36</sup>

Other well-informed contemporaries also knew the river was not navigable. For example, Director of the Reclamation Service Author Davis Powell agreed with the service engineers' assessment that the Salt River was a poor stream for navigation and

<sup>&</sup>lt;sup>32</sup> Tr. at p. 108: 17-25.

<sup>&</sup>lt;sup>33</sup> *Id.* at p. 118:6-24.

<sup>&</sup>lt;sup>34</sup> *Id.* at p. 119:7-11.

<sup>&</sup>lt;sup>35</sup> See id. at p. 126:14-16.

<sup>&</sup>lt;sup>36</sup> Id. at pp. 124:20 - 125:5; and 126:1-8.

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supported building the Apache Trial. <sup>37</sup> One-time Arizona Governor Raleigh Stanford was so confident that the river was nonnavigable, and consequently the state could not own the streambed, that he bought 20 acres of streambed.<sup>38</sup>

The courts of this era also found that the river was nonnavigable. In 1892, Judge Kibbey found that the Lower Salt River was "unnavigable", and accordingly applied Arizona law rather than federal law when dividing the stream's water for irrigation.<sup>39</sup> Eighteen years later the same court confirmed that decision and again found that the river was nonnavigable. 40

While these judicial pronouncements are certainly relevant and compelling, silence may be the most compelling evidence of all. When Roosevelt and Granite Reef dam were built, no commercial navigation interests protested these projects. Knowing that the dam building might harm any downstream business dependant upon navigation, this silence clearly means that no such interests existed.<sup>41</sup>

In sum, Arizona's most well informed politicians and judges and most knowledgeable federal officials of the statehood era all proclaimed that river was Their opinions are substantiated by the fact that at the time, no nonnavigable. commercial navigation interest existed here. This evidence clearly illustrates the river was nonnavigable.

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<sup>&</sup>lt;sup>37</sup> Id. at pp. 125:4 - 126:7.

<sup>&</sup>lt;sup>38</sup> *Id.* at p. 121:8-24.

<sup>&</sup>lt;sup>39</sup> See Wormser v. Salt River Valley Canal Co., No. 708, 2<sup>nd</sup> Judicial Dist., Terr. of Ariz., Maricopa County (March 31, 1892) ("Kibbey Decree").

<sup>40</sup> Hurley v. Abbott, No. 4564, 3<sup>rd</sup> Judicial Dist., Terr. of Ariz., Maricopa County (March 1, 1910)("Kent Decree"). <sup>41</sup> Tr. at p. 124:3-18.

## C. The River Proved a Barrier to Transportation and Commerce.

As Senator Hayden repeatedly pointed out, [t]he Salt River served as a barrier rather than a corridor for transportation." When the Salt flooded, troops could not be moved or supplied, mail service was interrupted, and interstate commerce was interrupted. One could only cross the river at such times via a perilous ferry voyage.

While ferry travel can be evidence of navigability,<sup>44</sup> ferries that merely "functioned much like bridges" do not establish navigability.<sup>45</sup> Neither does transportation "confined to the irregular and short periods of temporary high water" establish navigability.<sup>46</sup>

The Valley ferries functioned like bridges during the episodic flood periods. The ferries were, in fact, anomalies that ceased operations by statehood and were never "a major factor or a characteristic mode of transportation in the Valley." As commercial ventures, even the most-celebrated Hayden's Ferry never made money. Where this ferry once ran now stands Mill Avenue Bridge. This is compelling evidence that it actually functioned as a bridge. Simply put, the Lower Salt River impeded travel and commerce at statehood, and during floods, ferries operated like bridges to carry essentials across the dangerous waters. As such, this is not evidence of navigability.

 $<sup>^{42}</sup>$  Id. at p. 113:11-12.

<sup>&</sup>lt;sup>43</sup> *Id.* at p. 119:19-24.

<sup>44</sup> City of Centralia v. FERC, 851 F.2d 278 (9th Cir. 1988).

<sup>45</sup> North Dakota v. United States, 972 F.2d 235, 239 (8th Cir. 1992).

<sup>46</sup> See Oklahoma v. Texas, 258 U.S. 574, 591, 42 S. Ct. 406 (1922).

<sup>&</sup>lt;sup>47</sup> Tr. at p. 114:14-19.

<sup>&</sup>lt;sup>48</sup> *Id.* at p. 113:5-9.

<sup>&</sup>lt;sup>49</sup> *Id.* at p. 145:1-9.

#### VI. Conclusion

The Lower Salt River was not navigable at statehood. A few daring adventurers floated down the river. There were a couple attempts at commercial navigation, and they failed. Carl Hayden and other contemporary experts recognized the river could not be used for commercial use and travel. Even when the stream held sufficient water to float a boat, the river's braiding and turbulence prevented navigation. Consequently, the Commission should find that the river was not navigable in fact or in law.

DATED this 9th day of June, 2003

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