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11
12 SUPERIOR COURT OF THE STATE OF CALIFORNIA
13 FOR THE COUNTY OF SAN BERNARDINO

14 Coordination Proceeding
15 Special Title (Rule 1550(b))

Judicial Council Proceeding No. JCPDS 4720

16 **SUCTION DREDGE MINING CASES**

**DECLARATION OF JOSEPH GREENE
IN SUPPORT OF MINERS' JOINT
MOTION FOR INJUNCTION AGAINST
DEFENDANTS**

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19 Judge: Hon. Gilbert G. Ochoa
20 Dept.: S36J
Date: June 23, 2015
21 Time: 8:30 a.m.

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23
24 **Related Actions:**

25 *Karuk Tribe of California, et al. v. California*
26 *Department of Fish and Game*

RG 05211597 – Alameda County

27 *Hillman, et al. v. California Department of*
28 *Fish and Game*

RG 09434444 – Alameda County

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<i>Karuk Tribe of California, et al. v. California Department of Fish and Game</i>	RG 1263796 – Alameda County
<i>Kimble, et al. v. Kamala Harris, Attorney General of California, et al.</i>	CIVDS 1012922 – San Bernardino County
<i>Public Lands for the People, et al. v. California Department of Fish & Game, et al.</i>	CIVDS 1203849 – San Bernardino County
<i>The New 49er's, et al. v. State of California; California Department of Fish and Game, et al.</i>	SCCV 120048 – Siskiyou County
<i>Foley, et al. v. State of California; California Department of Fish and Wildlife, et al.</i>	SCSCCV 13-00804 – Siskiyou County
<i>Walker v. Harris, et al.</i>	34-2013-80001439 – Sacramento County

1 Joseph Greene states:

2 1. I am an independent environmental consultant and make this Declaration in
3 support of the Miner's motion for an injunction in this action.

4 **Qualifications and Experience**

5 2. I am a retired scientist, formerly employed by the United States Environmental
6 Protection Agency, and have over 30 years of national and international professional experience
7 including consulting, research, and teaching for industry and government regulatory agencies.
8 My experience includes project management, contract administration, experimental design,
9 preparation of research reports and technical documents, laboratory supervision, statistical
10 analysis of data, computer simulation, development and application of biological methods, and
11 performance of algal growth potential and aquatic and terrestrial toxicity tests.

12 3. My consulting experience has included assessment of nutrient pollution in
13 freshwater canals and rivers, assessment of heavy metals toxicity from mining activities and
14 paint stripping, investigation of toxicity and bioaccumulation in soils at military facilities,
15 evaluation of water soluble toxicants at Superfund sites, and assessment of algal toxicity from
16 textile dyes.

17 4. My research activities have included establishment of an ecotoxicology
18 laboratory, development of a biological-chemical-physical protocol for measuring potential
19 toxicity of construction materials, development of internationally standardized test methods
20 (aquatic algae, aquatic macroinvertebrate, terrestrial plant and terrestrial invertebrate), chairman
21 of testing committees for ASTM and Standard Methods, platform chairman of several
22 international symposiums, workshops, and congresses, and invited speaker to numerous national
23 and international professional scientific meetings.

24 5. My teaching experience has included a number of short courses and workshops on
25 performance of algal growth potential and interpretation of results across the nation, a workshop
26 on environmental analysis techniques in Europe, a workshop on complex problems with point
27 and non-point sources of water contamination for the US Department of the Interior, and an
28 environmental engineering graduate seminar on toxicity testing for environmental engineering

1 applications. My Curriculum Vitae is attached to this Declaration as Exhibit 1.

2 6. In recent years, I have worked with Claudia Wise as a team to defend the rights of
3 small scale suction dredging by providing scientific testimony concerning alleged adverse
4 environmental impacts of suction dredge mining. I primarily investigated and testified
5 concerning biological effects and Ms. Wise investigated and testified concerning water quality
6 effects. Together we conducted a Preliminary Klamath River Water Quality Survey examining
7 effects of suction dredging.

8 7. Both of us were invited members of the SEIR Public Advisory Committee (PAC)
9 established by the California Department of Fish and Wildlife. During the PAC meetings, we
10 presented two PowerPoint presentations to the committee "Selenium Antagonism to Mercury,
11 Does Methylmercury Cause Significant Harm to Fish or Human Health?" and "Turbidity and
12 Effect of Scale".

13 8. In general, allegations of adverse environmental impacts associated with suction
14 dredge mining are not supported by scientific evidence, and are typically grossly exaggerated.
15 Moreover, the California Department of Fish and Wildlife has consistently downplayed and
16 minimized beneficial effects of suction dredge mining. I discuss the effects below in detail.

17 **Beneficial Impacts of Suction Dredging: Trash and Toxics Removal.**

18 9. Opponents of suction dredging often accuse suction dredgers of leaving unsightly
19 messes of trash, gasoline barrels, and equipment in remote pristine forests. While there may be
20 such miners, for the most part these charges are untrue and the trash found is not from the
21 miners.

22 10. I have also found that opponents misinterpret what they are seeing. I have
23 personal knowledge of a situation where hikers came across a mining operation and took
24 photographs. They claimed that the site had been abandoned in that condition. Quite by
25 accident I had a conversation with that miner. He said the mining operation was still underway.
26 At the end of the season all of the materials that he brought in were removed by helicopter.

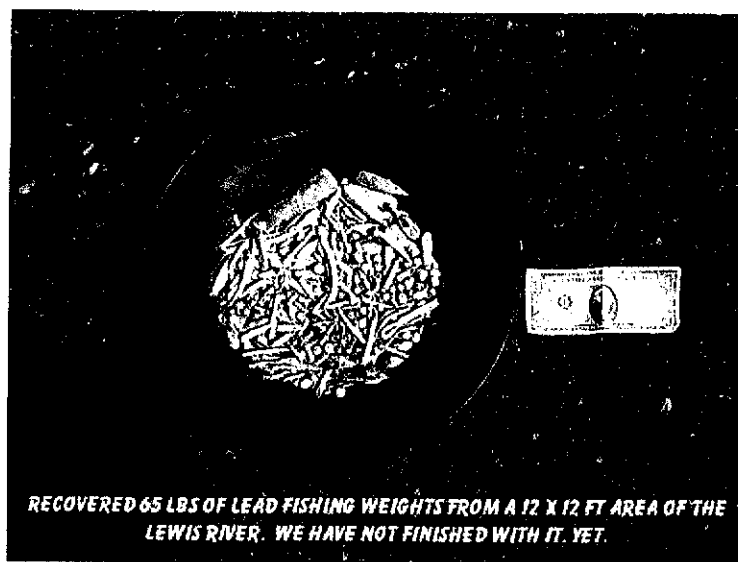
27 11. Miners are aware of these continuing accusations from environmentalists that they
28 leave trash all about their camps and work areas. They are usually operating on federal mining

1 claims, a form of private property. The miners understand that they are under attack by the
2 environmental community and are very careful to maintain clean work and living areas and their
3 property.

4 12. Many miners in fact remove garbage, trash and toxic metals from the river, and
5 display what they have collected, as in the following photographs:



16 Trash collected and removed from one mining claim in one year Along the American
17 River in California. This is not mining trash.



13. There is no reason to believe that permitting suction dredge mining will produce

1 any net increase in trash and garbage in the forests. Only suction dredgers remove lead fishing
2 weights that are captured in the dredges, and this is a benefit to the environment. The dredges
3 also remove mercury that may be encountered.

4 **The Turbidity Issue.**

5 14. Turbidity is a measure of how clear the water is. Suspended particles such as soil,
6 algae, plankton and microbes contribute to turbidity. Turbidity is not a pollutant. It is a
7 measurement of the transmission of light through a standard length receptacle. This
8 measurement of light transmission is a surrogate measurement of particle (usually sediment)
9 concentrations in suspensions.

10 15. It is frequently claimed that dredging causes turbid plumes of fine sediment that
11 may persist for several hundred feet below the dredge, and that the resulting fine sediment, as it
12 settles back to the stream bed, can have adverse effects on habitat for aquatic insects and juvenile
13 fish. In general, fish and invertebrates were not highly sensitive to dredging. For the sake of
14 brevity, I have listed some of the conclusions from the recently published California Final
15 Environmental Impact Report on Small-scale gold suction dredging.

- 16 • Impact BIO-FISH-2: Direct Entrainment, Displacement or Burial of Eggs, Larvae
17 and Mollusks (Less than Significant);
- 18 • Impact BIO-FISH-3: Effects on Early Life Stage Development (Less than
19 Significant);
- 20 • Impact BIO-FISH-4: Direct Entrainment of Juvenile or Adult Fish in a Suction
21 Dredge (Less than Significant);
- 22 • Impact BIO-FISH-5: Behavioral Effects on Juvenile or Adults (Less than
23 Significant);
- 24 • Impact BIO-FISH-7: Effects on the Benthic Community/Prey Base (Less than
25 Significant).

1 Turbidity plumes, usually, do not cover wide
2 areas of the stream and they are not
3 continuous or consistent in sediment content

4 Notice the switch in plume turbidity density.
5 Now the distant dredge plume is lower in
6 suspended material concentration.



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10 16. The photographs above illustrate that the turbidity plumes downstream of suction
11 dredges are intermittent and seldom reach from shore to shore of the river. The left photo shows
12 the dredge in the distance is putting out a turbidity plume. The right photo illustrates that now
13 the closest dredge is putting out a plume.

14 17. Below is a photograph taken by Craig Tucker, an advocate working for the Karuk
15 Tribe of California. It is a very clear illustration of how quickly the turbidity cloud dissipates
16 from the water column.





13 The photo above shows an operating dredge without a turbidity plume. It is all
14 about the natural environment. The dredges are not adding anything that is not
15 already present in the river.

16 18. To put the turbidity issue into perspective, one should compare a photograph of a
17 river in flood stage when salmon redds are present. The following picture of the Klamath River
18 shows that the waters are very turbid. They are much more turbid than any waters shown in the
19 photographs above which illustrate turbidity plumes downstream from small-scale gold suction
20 dredges.

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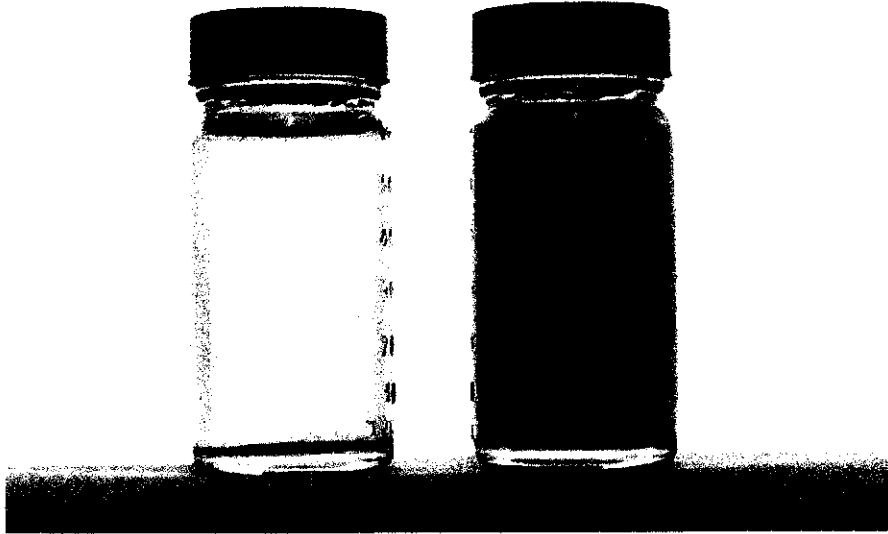
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1 Klamath River water: The left vial was allowed to settle for 24 hours, the right vial was
2 shaken to re-suspend the particulates. The sample was measured at 656 NTU.



13 21. It should be noted that under many circumstances, turbidity improves fish
14 survival. This is because although the feeding efficiency of fish may be reduced from reduced
15 ability to see their prey, there is a larger effect that comes from concealing the fish from
16 predators, particularly birds.

17 22. It is true that long-term continuous exposure to very high levels of turbidity can
18 harm aquatic organisms, but even the very highest levels of turbidity reported in the scientific
19 literature to result from suction dredges would require many months of continuous exposure to
20 cause any harm. The turbidity produced by suction dredges is intermittent and immediately
21 diluted as shown in the photographs above. In fact, fish are attracted to the outfall from dredges
22 and often feed there; the notion that fish require a refuge from dredge operations is not grounded
23 in reality.

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2 **FISH FEEDING BELOW THE OUTFALL FROM**
3 **A SMALL-SCALE GOLD SUCTION DREDGE SLUICE BOX**
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16 23. Absent special circumstances, turbidity downstream of small-scale suction
17 dredges is not a genuine issue of environmental harm. It is an issue of aesthetics and attitude.
18 Many people want outdoor settings to be left in a natural condition thus suction dredging is
19 perceived as a conflict with these activities. This brings us back to the point of effects of scale.
20 There are hundreds and hundreds of miles of rivers and streams in California where suction
21 dredgers are not operating and outdoor enthusiasts can find the quiet enjoyment they are looking
22 for.

23 **Improving Streambed Habitat and the "Spawning on Tailings" Issue**

24 24. Many of the streams in the Western United States have become embedded
25 (armored). This means that the extent of loose spawning material has declined in some areas
26 where the spawning salmon cannot open the overburden to deposit their eggs. There is anecdotal
27 evidence that salmon spawning has increased in some areas where suction dredges moved in and
28 began breaking through this armoring, but no quantitative studies of which I am aware.

1 25. Where spawning habitat is limited, salmon may be unable to spawn effectively, or
2 spawn over previously deposited redds and destroy the nests of salmon that had arrived before
3 them. One objection against suction dredge mining is that the salmon may also spawn on
4 tailings piles left by suction dredgers, and that these tailing piles are more likely to be moved by
5 winter flows, "scouring out" the salmon redd.

6 26. A number of studies have measured the prevalence of salmon spawning on tailing
7 piles, and confirm that it is a small probability event. More importantly, no study has attempted
8 to assess the increased risk to redds on tailings piles against the benefits of reducing armoring
9 and producing looser stream gravels in which salmon can spawn. The extent to which dredge
10 tailings are used for spawning, is generally recognized as being affected by the availability of
11 suitable unaltered substrates and the relative quality of dredge tailings as spawning sites.

12 27. Information as to the extent of the phenomenon includes:

- 13 • In the lower 11 km of the Scott River in 1995, only 12 of 372 redds were located
14 on tailings because (1) much more natural substrate than dredge tailings provided
15 spawning habitat, and (2) the fish exhibited no strong preference for either
16 substrate."
- 17 • "Approximately 60 salmonid redds were observed in a study on Canyon Creek,
18 CA. None of the redds were found within dredge tailing piles."
- 19 • "In 1996 1,372 redds were observed on the mainstem Klamath River but only 2
20 redds were observed on recent dredge tailings."
- 21 • "In the last 3 years (1996-98), 72 of 1800 redds were counted on or near the
22 tailings from suction dredge mining".

23 28. I note that if one redd survived on a tailing pile, it would increase the number of
24 salmon eggs by approximately 2000 to even 17,000, depending on the size of the female
25 chinook. This is a benefit that would not have been available without dredge tailings being
26 provided in areas of limited natural substrate. There is no reason to believe that the impact of
27 suction dredgers in creating looser stream gravels is on balance negative, and it is more likely to
28 be positive.

29 29. Quite apart from loosening stream gravels, the holes left by suction dredges also
30 can constitute valuable habitat for fish. In particular, dredge holes 3 feet or deeper are
31 recognized as providing refugia for fish. In general, excavating pools can substantially increase

1 their depth and increase cool groundwater inflow, and reduce pool temperature. Where pools are
2 excavated deeper than three feet, salmonid pool habitat can be further improved.

3 **30.** There is every reason to believe that holes left by suction dredge miners, which
4 can often be many feet deep as the miners work toward bedrock, provide important cold-water
5 habitats for salmonids living in streams with elevated temperatures. At least one California
6 Department of Fish and Wildlife biologist, now retired, has testified that in some cases, holes left
7 by suction dredgers formed the only locally-available habitat for adult coho to avoid dangerous
8 high temperatures.

9 **Suction Dredge Mining Is A Small-Scale Activity**

10 **31.** There is a concept of “Effect of Scale” that must be understood when evaluating
11 the effects of operating small-scale gold suction dredges in the environment. It is important to
12 understand that the streambed sediment moved by suction dredge miners, even large number of
13 miners, remains a tiny fraction of the natural movement of streambed materials.

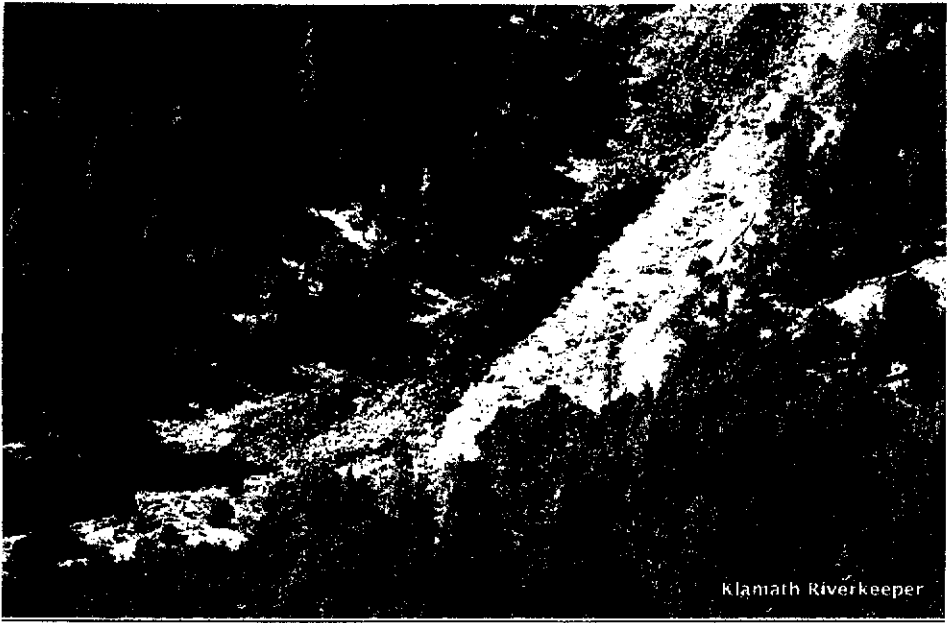
14 **32.** A study in the Siskiyou National Forest compared the effect of the Forest’s
15 significant population of suction dredgers with the natural movement of such materials by
16 surface erosion and mass movement. The calculations, which conservatively overestimated the
17 effect of the dredges, resulted in a movement rate by suction dredge mining of less than 0.7% of
18 natural rates.

19 **33.** A study in the Salmon River of dredge holes and tailings measurement survey
20 determined that 53 dredge holes had disturbed 1,066 linear feet of river bottom. The entire river
21 length, including all forks, was 417,120 linear feet. The small-scale gold suction dredging
22 resulted in disturbance of <0.26% of the linear waterway. Again this figure is very conservative,
23 because the action disturbance was less because suction dredgers do not affect the entire width of
24 the river.

25 **34.** An example of effect of scale can also be seen in the following photograph.
26 There is only one small-scale gold suction dredge visible in this entire stretch of river. It is
27 located to the right of the red arrow.

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35. This second photograph shows two dredges, working side by side, in this long stretch of water.



1 36. These two illustrations are typical of the distribution of dredges. They cannot
2 work too close together because the downstream dredger may be blinded by the occasional cloud
3 of turbidity. This would result in dangerous working conditions. For safety this forces the
4 downstream dredger to put distance between himself and the upstream dredge.

5 37. The Siskiyou National Forest engaged Dr. Peter Bayley, Dept. Fisheries &
6 Wildlife, Oregon State University, to conduct a "Cumulative Effects Analysis" on the effects of
7 suction dredging forest-wide. Dr. Bayley concluded that, "the statistical analyses did not
8 indicate that suction dredge mining has no effect on the three responses measured, but rather any
9 effect that may exist could not be detected at the commonly used Type I error rate of 0.05." (In
10 other words, if there are effects, they are so small they can't measure them.)

11 38. He went on to say, "The reader is reminded of the effect of scale. Localized,
12 short-term effects of suction dredge mining have been documented in a qualitative sense.
13 However, on the scales occupied by fish populations such local disturbances would need a strong
14 cumulative intensity of many operations to have a measurable effect." A true copy of the Bayley
15 study is included as Exhibit 2 to this Declaration.

16 39. I conclude that area or length of river or streambed worked by suction dredgers as
17 compared to total river length is relatively small compared to the total available area. This is an
18 important factor making the impacts of suction dredgers less than significant.

19 **General Conclusions Concerning Less than Significant Impacts.**

20 40. It is my understanding that the relief sought in this action would permit California
21 suction dredgers to operate under regulations in effect in 2009, when SB 670 halted permit
22 issuance. Those regulations were adopted in connection with a 1994 EIR by the Department.

23 41. The 1994 EIR concluded that small-scale gold suction dredge mining conducted
24 in accordance with such regulations had a less than significant effect on the environment. The
25 Department stated that, "The Department recognizes there is a long history of other impacts to
26 California's rivers and streams associated with other recreational and commercial activities.
27 These activities include the construction of dams, commercial mining, rafting, fishing, road
28 building and logging. In comparison, the cumulative detrimental effects of these activities are

1 more significant.”

2 42. While the 1994 EIR reported a variety of potential adverse effects, including “loss
3 of fish production, temporary loss of benthic/invertebrate communities, localized disturbance to
4 streambeds, increased turbidity of water in streams and rivers, and mortality to aquatic plant and
5 animal communities,” the Report concluded that “based on best available data, it is anticipated
6 that the project to adopt regulations for suction dredging as proposed, will reduce these effects to
7 the environment to less than significant levels and no deleterious effects to fish.

8 43. Numerous other studies have found a similar lack of any appreciable adverse
9 effects. Some of the more important studies and environmental impact reports include:

- 10 • Results from the 1992 Chugach National Forest, Alaska Report of Water Quality
11 Cumulative Effects of Placer Mining (“impact is less than significant”);
- 12 • Results from the 1994 Department of Fish & Game, California Final Environmental
13 Impact Report (“impact is less than significant”);
- 14 • In 2000 the U.S. Environmental Protection Agency reported the results of a study
15 evaluating the performance of 10- 8- and 4-inch gold dredges and concluded
16 environmental impacts from these operations were less than significant.
- 17 • Results from the 2001 Siskiyou National Forest, Oregon Draft Environmental Impact
18 Report, Suction Dredging Activities (“impact is less than significant”);
- 19 • Bayley, 2003, (for Siskiyou National Forest, Oregon) Response of fish to cumulative
20 effects of suction dredge and hydraulic mining in the Illinois subbasin;
- 21 • Results from the 2004 Clearwater National Forest, Idaho Environmental Impact
22 Supplemental Statement (“impact is less than significant”);
- 23 • Results from the 2012 Wallowa-Whitman National Forest, Oregon FINAL
24 Supplemental Environmental Impact Statement (“impact is less than significant”);
and
- 25 • U.S. Environmental Protection Agencies Biological Evaluation Small Suction Dredge
26 Placer Mining in Idaho (“impact is less than significant”).

27 44. In sum, even before the latest SEIR from the Department of Fish and Wildlife, it
28 was abundantly obvious that small-scale gold suction dredging conducted with reasonable

1 restrictions has a less-than-significant effect on the environment.

2 **The Noise Issue**

3 45. One of the allegedly significant and unavoidable effects of suction dredging
4 reported in the SEIR is noise from suction dredging. At the outset, it is important to note that the
5 SEIR found less than significant "Effects on the Quality of Recreational Resources or
6 Experience (Impact REC-1).

7 46. It is true that gasoline-powered engines are a primary component of suction
8 dredge equipment. The operation of such noise-generating equipment in the existing
9 environments of the surrounding recreational areas could result in a perceptible increase in noise.
10 Although noise generated from these engines does not differ from those used in motorized boats
11 or other motorized recreational equipment, the manner in which it is operated may distinguish
12 suction dredging from other activities. Suction dredge activities are generally stationary and
13 equipment is often operated for extended periods throughout the day.

14 47. The level of noise emissions is related to the size, type, and number of equipment
15 being used, though the potential for exceeding noise standards depends on the local ordinances.
16 That said, numerous other activities may occur in similar settings which also use
17 powered-equipment *i.e.* use of a motor boat, ATVs, etc.) and have potential to violate these
18 standards. Even equipment regularly used in residential areas, (*e.g.* ringing telephones and lawn
19 mowers) violates these standards.

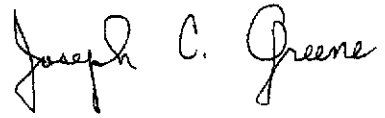
20 48. It is an unfortunate fact that motors make noise. Small-scale gold suction dredge
21 motors have mufflers and spark arrestors just as the lawn mowers we use at home. Miners would
22 prefer quieter motors, but they employ the available level of technology, and there is no practical
23 means of further reducing noise.

24 I certify under penalty of perjury under the laws of the State of California that the
25 foregoing is true and correct.

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Executed on May 18, 2015.



Joseph Greene

1 **References**

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28 history theory. *Can.J.Fish.Aquat.Sci.*41:476-483.

1 PROOF OF SERVICE

2 I, Carole Caldwell, hereby declare under penalty of perjury under the laws of the State of
3 California that the following facts are true and correct:

4 I am a citizen of the United States, over the age of 18 years, and not a party to or
5 interested in the within entitled cause. I am an employee of Murphy & Buchal, LLP and my
6 business address is 3425 SE Yamhill Street, Suite 100, Portland, Oregon 97214.

7 On May 18, 2015, I caused the following document to be served:

8 **DECLARATION OF JOSEPH GREENE IN SUPPORT OF MINERS' JOINT MOTION FOR
9 INJUNCTION AGAINST DEFENDANTS**

10 by transmitting a true copy in the following manner on the parties listed below:

11 Honorable Gilbert Ochoa
12 Superior Court of California
13 County of San Bernardino
14 San Bernardino Justice Center
247 West 3rd Street
San Bernardino, CA 92415-0210
Via U.S. Mail

Chair, Judicial Council of California
Administrative Office of the Courts
Attn: Court Programs and Services Division
(Civil Case Coordination)
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Via U.S. Mail

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16 Deputy Attorney General
17 455 Golden Gate Avenue, Suite 11000
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