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Attorney for Appellant Joel Fisher

IN THE OFFICE OF ADMINISTRATIVE HEARINGS

FOR THE STATE OF ARIZONA

In the Matter of: Docket No. 13A-A006-DEQ (Docket Nos. 13A-A006-DEQ, No. 13A-A007-DEQ, No. ADEO 13A-A010-DEQ - CONSOLIDATED) Air Quality Permit No. 55223

> APPELLANT JOEL FISHER'S INITIAL LIST OF WITNESSES AND **EXHIBITS**

(Assigned to the Hon. Thomas Shedden)

Appellant Fisher, through counsel, hereby files this initial list of witnesses and exhibits.

I. WITNESSES:

Dr. Joel Fisher, appellant. Dr. Fisher is expected to testify about numerous deficiencies and/or failures underlying ADEO's issuance of the permit and information provided by Rosemont Copper in support of their permit, including significant evidence, methodology, and science-based technical deficiencies or failures. Dr. Fisher is expected to testify about public health, and his own, health risks not adequately accounted for in the issuance of the permit. Dr. Fisher lives in the area and has over 50 years experience in the area of environmental pollution contaminants, including working for the EPA since its inception, as well as 26 years in air pollution and air quality and toxic contaminant issues working for the U.S. State Department, and subsequent private consulting through 2012. He brings considerable personal experience and expertise and will testify as a fact witness and also testify using his expertise on issues directly bearing on the relevant standards and requirements, science, and public health issues underlying issuance of the permit, and ADEQ's rejection of related public comments and objections. The scope of his testimony may include but is not limited to all issues raised in his written and oral objections filed with ADEQ during the public comment period, as well as the issues raised in his Appeal. - Two and a half hours (2.5) hours estimated at present.

16. Any witness listed by any other party, or necessitated as rebuttal witnesses, or as a result of information or evidence provided by other parties.

EXHIBITS

- 1. Curriculum Vitae, Dr. Joel Fisher, PhD.
- 2. USEPA, 1995: Compilation of Air Pollution Emission Factors, AP-42, 5th Edition;
 Office of Air Quality Planning and Standards, Office of Air and Radiation, USEPA,
 Research Triangle Park, NC. Environment Canada 2005, Waste and Pollution Pits and
 Quarries, Guidance, accessed through: http://www.ec.gc.ca/inrp-npri/default.asp?/lang=en&n=A9C1EE34-1#s8_2.
- 3. Arizona Department of Environmental Quality, 2013: Responsiveness Summary to Public Comments and Questions: Rosemont Copper Company – Rosemont Copper Project; Air Quality Division; referred in the paper as the Responsiveness Summary.
- **4.** Depleted Cranium, the Bad Science Blog, 2008, If uranium is not so radioactive, why does it peg a geiger counter?; depletedcranium.com.
- **5.** Van Gosen, B.S., Gillerman, V.S., and Armbrustmacher, T.J., 2009, Thorium deposits of the United States—Energy resources for the future?: U.S. Geological Survey Circular 1336, 21 p. [Only available at URL http://pubs.usgs.gov/circ/1336]

- **6.** EPA, Clean Air Act, Section 112(b) on Radioactivity; 42 USC §7412
- National Toxicology Program 2011, Report on Carcinogens, 12th Edition; accessed through http://ntp.niehs.nih.gov/?objectid=035E57E7-BDD9-2D9B-AFB9D1CADC8D09C1.
- **8.** M.Lippman 1992, "Asbestos and Other Mineral Fibers," in: Environmental Toxicants: Their Health Effects, M. Lippman (ed.), Van Nostrand, New York, pp. 30-75.
- **9.** International Agency for Research on Cancer (IARC) 2012, IARC Monographs on the Evaluation of Carcinogenic Risk to Humans, Volume 100C: Arsenic, Metals, Fibres and Dust: A Review of Human Carcinogens, Lyon, France pp. 219-294.
- **10.** TetraTech 2007, Baseline Geochemistry Characterization: Rosemont Copper, accessed through http://rosemonteis.us/technical-reports/all report 011894.pdf, see pages 8-10.
- **11.** Epidemiology: Fear in the dust, online 9 December 2010 | Nature 468, 884-885 (2010); Updated online: 10 December 2010
- **12.** JRB Consultants for SWCA Environmental Consultants, 2011; Amendment to Rosemont Copper Company Emission Inventory Information. Years 1, 5, 10, 15, and 20, Volume I: Calculation Methodology and Appendices A-G. Tucson, AZ
- 13. United States Navy, 1998; ES310, Introduction to Naval Weapons Engineering, Course Syllabus, Notes on Chemistry. Accessed through http://www.fas.org/man/dod-101/navy/docs/
- **14.** W.L.Lewis, A.H.Radasch and H.C.Lewis, 1954; Industrial Stoichiometry, McGraw Hill, New York, 427pp.
- 15. CRC (2012), Handbook of Chemistry and Physics, 93rd Edition
- **16.** WHO (World Health Organization) 1988, Phosphine and Selected Metal Phosphides, Environmental Health Criteria 73, Geneva.

17	. UCalDavis Chem-Wiki, Chemistry of Arsenic,
	http://chemwiki.ucdavis.edu/Inorganic_Chemistry/Descriptive_Chemistry/Main_Group_
	Elements/Group_15%3a_The_Nitrogen_Family/Chemistry_of_Arsenic on May 10, 2013

- 18. Pradyot Patanalk, 2002. Handbook of Inorganic Chemicals, McGraw Hill, New York
- **19.** F.A.Cotton, G.Wilkinson and P.L.Gaus, 1987, Basic Inorganic Chemistry, 2nd Edition, John Wiley and Sons, New York.
- **20.** WHO (World Health Organization) 1988, Fluorine and Fluorides,, Environmental Health Criteria 36, Geneva.
- **21.** WHO (World Health Organization) 2002, Fluorine and Fluorides, Environmental Health Criteria 227, Geneva.
- **22.** Elschenbroich, C.; Salzer, A. (1992). Organometallics: A Concise Introduction (2nd ed.). Weinheim: Wiley-VCH. ISBN 3-527-28165-7.
- 23. International Agency for Research on Cancer (IARC) 1990, IARC Monographs on the Evaluation of Carcinogenic Risk to Humans, Nickel and Nickel Compounds, 49, Lyon.
 France
- **24.** WHO (World Health Organization) 1979, Carbon Disulfide, Environmental Health Criteria 10, Geneva.
- 25. F.A.Cotton, G.Wilkinson and P.L.Gaus, 1987, Basic Inorganic Chemistry, 2nd Edition, John Wiley and Sons, New York
- **26.** Rosemont Mine Plan of Operations: excerpt re proposed chelate agent.
- 27. R.J. Krizek 2004, Slurries in Geotechnical Engineering, 12th Spencer J. Buchanan Lecture, Texas A&M University, College Station, TX accessed as: Slurries%20in %20Geotechnical%20Engg.pdf, 75pp.
- 28. Comments and data on Draft EIS by R. Maddox, PhD submitted to USFS and DEQ.

- 29. Comments and data on AQP by R. Maddox, PhD and submitted to ADEQ.
- 30. Mojave Desert Air Quality Management District, 2000, Mineral Handling and Processing Industries, accessed through http://www.avaqmd.ca.gov/forms/documents/MineralGuidance.doc
- **31.** D.Sedlak and A.Bentley 1997, The Role of Photochemistry in the Transport and Transformation of Arsenic, UC Center for Water Resources Technical Completion Report W-853, accessed through http://escholarship.org/uc/item/1zr8n0v2.
- **32.** M.R. Lescano, C.S. Zalazar, A.E. Cassano and R.J. Brandi 2011, Arsenic (III) oxidation of water applying a combination of hydrogen peroxide and UVC radiation, Photochem. Photobiol. Sci.: 10:1797-1803.
- **33.** R.H. Reiman and E.Singleton 1976, Reactions of Metal Carbonyls. Part 7. Substitution reactions with dicarbonyl manganese with tertiary phosphorus and arsenic ligands, J. Chem. Soc., Dalton Trans., 20:2109-2114.
- 34. C.J. Wechsler, M.L. Mandich and T.E. Graedel 2012, Speciation, photosensitivity and reactions of transition metal ions in atmospheric droplets, Journal of Geophysical Research: Atmospheres 2012, 91 D4:5189-5204.
- 35. G.I. Kobzev, D.G. Urvaev, K.S. Davydov and Yu. V. Zaka 2012, A quantum chemical study of photochemical processes in the reaction Se + O2 → SeO2, with allowance for spin orbit interaction, Journal of Structural Chemistry, 53(1):12-27.
- **36.** Any Exhibits supplemented by the next scheduled Court date.

Dated: June 17, 2013 RESPECTFULLY SUBMITTED

Vince Rabays

VINCE RABAGO, Attorney for Joel Fisher

CERTIFICATE OF SERVICE

s/ Vince Rabago, Esq. Vince Rabago

I certify that the foregoing document was filed electronically on June 17, 2013, with the OAH, via the Court's online docketing system by emailing the document to webmaster@azoah.gov, which served all parties and counsel electronically: