8 REFERENCES

Executive Summary

No references cited.

Chapter 1, "Introduction"

UC. See University of California.

UC Santa Cruz. See University of California, Santa Cruz.

University of California. 2019. University of California Capital Financial Plan. Available: https://www.ucop.edu/capital-planning/_files/capital/201925/2019-25-cfp.pdf. Accessed August 4, 2020.

University of California, Santa Cruz. 2010. *University of California, Santa Cruz Physical Design Framework*. Available: https://ppc.ucsc.edu/design/images/sc_pdffinal,3-10-10.pdf. Accessed August 4, 2020.

——. 2017. *Capital Financial Plan*. Available: https://cpsm.ucsc.edu/capital-planning/cfp.html. Accessed August 4, 2020.

———. 2018. Strategic Academic Plan – A Vision for the Next Decade. Available: https://sap.ucsc.edu/about-sap/. Accessed August 4, 2020.

———. 2019. *Campus Sustainability Plan – 2019 Update*. Available: https://sustainabilityplan.ucsc.edu/campus-sustainability-plan/. Accessed August 4, 2020.

Chapter 2, "Project Description"

California Department of Finance. 2019. Report E-5: Population and Housing Estimates for Cities, Counties, and the State, January 1, 2011-2019, with 2010 Benchmark. Available: http://dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed January 11, 2020.

UC Santa Cruz. See University of California, Santa Cruz.

University of California, Santa Cruz. 1963 (September). *Long Range Development Plan*. Available: https://lrdp.ucsc.edu/2040/files/1963lrdp.pdf. Accessed August 27, 2020.

———. 2020. Long Range Development Plan - Draft.

Chapter 3, "Environmental Setting, Impacts, and Mitigation"

No references cited.

Section 3.1, "Aesthetics"

Bacon, Warren R. 1979. Visual Management System and Timber Management Application.

California Coastal Commission. 2019. California Coastal Commission, Laws and Regulations, The Coastal Act. Available at: https://www.coastal.ca.gov/laws/. Accessed July 28, 2020.

California Department of Transportation. 2008 (October). Scenic Highway Guidelines.

——. 2011. California Scenic Highway Mapping System, Santa Cruz County. Available at: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/index.htm. Accessed June 18, 2020.

——. 2020. Scenic Highways. Available: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed November 2020.

Caltrans. See California Department of Transportation.

CCC. See California Coastal Commission.

City of Santa Cruz. 2012 (June). City of Santa Cruz 2030 General Plan. Available: https://www.cityofsantacruz.com/government/about-us/general-plan. Accessed June 1, 2020. No Date. City of Santa Cruz Municipal Code. County of Santa Cruz. 1994 (February). County of Santa Cruz General Plan. Available: https://www.sccoplanning.com/PlanningHome/SustainabilityPlanning/GeneralPlan.aspx. Accessed June 1, 2020. FHWA. See U.S. Department of Transportation, Federal Highway Administration. University of California, Santa Cruz. 2006 (March). Cultural Resources Management Plan for the Cowell Ranch and Lime Manufacturing Historic District. —. 2010 (March). Physical Design Framework. -.2020. Design Advisory Board. Available: https://chancellor.ucsc.edu/assets/pdfs/dab.pdf. Accessed December 2020. USDA-FS. See U.S. Department of Agriculture U.S. Forest Service. U.S. Department of Agriculture U.S. Forest Service. 1995. Landscape Aesthetics. A Handbook for Scenery Management. Agricultural Handbook Number 701. Washington D.C. U.S. Department of Transportation, Federal Highways Administration, Office of Environmental Policy. 1981. Visual Impact Assessment for Highway Projects. Publication No. FHWA-HI-88-054. UC Santa Cruz. See University of California, Santa Cruz. Section 3.2, "Agriculture and Forestry Resources" Bay Area Open Space Council. 2019. The Conservation Lands Network 2.0 Report. Berkeley, CA. California Department of Conservation. 2016. California Important Farmland Finder. Available: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed December 18, 2020. —. 1997. Land Evaluation and Site Assessment Model. Available: https://www.conservation.ca.gov/dlrp/Documents/lesamodl.pdf. Accessed in August 2020. City of Santa Cruz. 2011 (September). General Plan 2030 Draft EIR. Forest Resources. Page 4.15-5. DOC. See California Department of Conservation. Santa Cruz County. 2017 (August). Draft Environmental Impact Report. Commercial Cannabis Cultivation and Manufacturing Regulations and Licensing Program. Section 3.2, Agricultural and Timber Resources. 2018. 2018 Crop Report. Prepared by the Office of the Agricultural Commissioner. ——. 2020. GIS Web for Santa Cruz County. Available: https://gis.santacruzcounty.us/gisweb/. Accessed December 18, 2020.

Section 3.3, "Air Quality"

AMBAG. See Association of Monterey Bay Area Governments.

Association of Monterey Bay Area Governments. 2018. 2018 Regional Growth Forecast. Available: https://ambag.org/sites/default/files/2020-01/08-AMBAG_MTP-SCS_AppendixA_PDFA.pdf. Accessed August 25, 2020.

BAAQMD. See Bay Area Air Quality Management District.

Bay Area Air Quality Management District. 2012. California Environmental Quality Act Air Quality Guidelines. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/baaqmd-ceqa-guidelines_final_may-2012.pdf. Accessed August 30, 2020.

- Benbrahim-Tallaa, L., Baan, R. A., Grosse, Y., Lauby-Secretan, B., El Ghissassi, F., Bouvard, V., Guha, N., Loomis, D., and Straif, K. 2012. Carcinogenicity of diesel-engine and gasoline-engine exhausts and some nitroarenes. World Health Organization International Agency for Research on Cancer (IARC) Monograph Working Group. Available: https://publications.iarc.fr/_publications/media/download/3181/e6bd0692f1a9bb46589d3ca2d8178fa8dcd05ba5. pdf. Accessed May 19, 2020.
- CalEPA. See California Environmental Protection Agency.
- California Air Pollution Control Officers Association. 2016a. California Emissions Estimator Model Version 2016.3.2. Available: http://www.caleemod.com/. Accessed May 18, 2020.
- ——. 2016b. CalEEMod User's Guide. v. 2016.3.2. Available: http://www.aqmd.gov/caleemod/user's-guide. Accessed May 18, 2020.
- California Air Resources Board. 2001 (July). Lead Fact Sheet. Available: https://ww3.arb.ca.gov/toxics/lead/factsheet.pdf. Accessed March 20, 2020.
- ——. 2010 (May). Preliminary Discussion Paper Proposed Amendments to California's Low-emission Vehicle Regulations Particulate Matter Mass, Ultrafine Solid Particle Number, and Black Carbon Emissions. Available: https://ww2.arb.ca.gov/sites/default/files/2020-02/pm_disc_paper_v6_ac.pdf. Accessed May 14, 2020.
- ———. 2014. The California Almanac of Emissions and Air Quality 2013 Edition. Available: https://ww2.arb.ca.gov/our-work/programs/resource-center/technical-assistance/air-quality-and-emissions-data/almanac. Accessed May 22, 2020.
- ———. 2015. Facility Search Engine: 2015 Criteria & Toxic plus Risk Data, Zip Code: 95616. Available: http://www.arb.ca.gov/app/emsinv/facinfo/facinfo.php. Accessed August 2017.
- ———. 2016a (May). California Ambient Air Quality Standards. Available: https://www.arb.ca.gov/research/aaqs/aaqs2.pdf. Accessed July 2017.
- ———. 2016b (October). In-Use Off-Road Diesel-Fueled Fleets Regulation. Available: https://ww3.arb.ca.gov/msprog/offroadzone/landing/offroad.htm. Accessed May 21, 2020.
- ———. 2016c. 2016 SIP Emission Projection Data. 2020 Estimated Annual Average Emissions for Santa Cruz County. Available: https://www.arb.ca.gov/app/emsinv/2017/emssumcat.php. Accessed May 18, 2020.
- ——. 2017a. iADAM: Air Quality Data Statistics by Pollutant, Years, & Area. Available: https://www.arb.ca.gov/adam/select8/sc8start.php. Accessed May 21, 2020.
- ———. 2017b. Naturally Occurring Asbestos. Available: https://www.arb.ca.gov/toxics/asbestos/asbestos.htm. Accessed February 7, 2018.
- ———. 2018. Maps of State and Federal Area Designations. Available: https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations. Accessed May 18, 2020.
- ———. 2019a (April 29). Association between long-term ultrafine particulate matter exposure and premature death. Available: https://ww3.arb.ca.gov/research/single-project.php?row_id=65238. Accessed June 5, 2020.
- ———. 2019b (June). Truck and Bus Regulation Compliance Requirement Overview. Available: https://ww3.arb.ca.gov/msprog/onrdiesel/documents/fsregsum.pdf. Accessed May 21, 2020.
- ———. 2020a (August). Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. Available: https://ww3.arb.ca.gov/toxics/healthval/contable.pdf. Accessed August 22, 2020.
- ———. 2020b (November). Air Quality Trend Summaries. Available: https://www.arb.ca.gov/adam/trends/trends1.php. Accessed November 13, 2020.
- California Environmental Protection Agency. 2015 (May). *Staff Report: Multimedia Evaluation of Renewable Diesel*. Available: https://web.archive.org/web/20170123233930/http://www.calepa.ca.gov/cepc/2015/RenDieselRpt.pdf. Accessed August 31, 2020.

- CAPCOA. See California Air Pollution Control Officers Association.
- CARB. See California Air Resources Board.
- Carpenter, E. 2020 (April 28). Personal communication with Erika Carpenter, Senior Environmental Planner at UC Santa Cruz, to Chris Mundhenk of Ascent Environmental. Regarding chemical inventory data request.
- CDC. See Centers for Disease Control and Prevention.
- Centers for Disease Control and Prevention. 1978 (September). Occupational Health Guideline for Sulfur Dioxide. Available: https://www.cdc.gov/niosh/docs/81-123/pdfs/0575.pdf. Accessed March 23, 2017.
- De Jesus, A. L., Rahman, M. M., Mazaheri, M., Thompson, H., Knibbs, L. D., Jeong, C., & Li, L. 2019. Ultrafine particles and PM2. 5 in the air of cities around the world: Are they representative of each other? *Environment international*, 129: 118-135. Available: https://doi.org/10.1016/j.envint.2019.05.021. Accessed June 30, 2020.
- Delfino, R. J. Sioutas, C., Malik, S. 2005. Potential role of ultrafine particles in associations between airborne particle mass and cardiovascular health. *Environmental Health Perspectives*, 113(8): 934. Available: https://ehp.niehs.nih.gov/doi/pdf/10.1289/ehp.7938. Accessed May 22, 2020.
- Dominici, F., Peng, R. D., Bell, M. L., Pham, L., McDermott, A., Zeger, S. L., & Samet, J. M. 2006. Fine particulate air pollution and hospital admission for cardiovascular and respiratory diseases. *JAMA*, 295(10): 1127-1134. Available: https://jamanetwork.com/journals/jama/article-abstract/202503. Accessed May 22, 2020.
- Donaldson, K., Stone, V., Seaton, A., and MacNee, W. 2001. Ambient particle inhalation and the cardiovascular system: potential mechanisms. *Environmental Health Perspectives*, 109, Supplement 4: 523–527. Available: https://ehp.niehs.nih.gov/doi/pdf/10.1289/ehp.01109s4523. Accessed May 4, 2020.
- Eckerle, T., & Jones, T. (2015). Zero-Emission Vehicles in California: Hydrogen Station Permitting Guidebook. Governor's Office of Business and Economic Development, Sacramento, CA. Available: https://businessportal.ca.gov/wp-content/Documents/ZEV/Hydrogen-Permitting-Guidebook.pdf. Accessed May 3, 2020.
- EPA. See U.S. Environmental Protection Agency.
- Frisbey, D. 2020 (August 26). Personal communication with David Frisbey, Planning and Air Monitoring Manager, Monterey Bay Air Resources District, to Christopher Lovett of Ascent Environmental. Regarding CO thresholds for traffic.
- Froines, J. R. 2006. Ultrafine Particle Health Effects. Southern California Particle Center. A presentation at a conference held by the South Coast Air Quality Management District titled Ultrafine Particles: The Science, Technology, & Policy Issues Conference, April 30 to May 2, 2006.
- Governor's Interagency Working Group on Zero-Emission Vehicles. 2016 (October). 2016 ZEV Action Plan. Available: https://www.gov.ca.gov/wp-content/uploads/2018/01/2016_ZEV_Action_Plan-1.pdf
- ——. 2018 (September). 2018 ZEV Action Plan Priorities Update. Available: https://static.business.ca.gov/wp-content/uploads/2019/12/2018-ZEV-Action-Plan-Priorities-Update.pdf. Accessed: April 26, 2020.
- Health Effects Institute. 2013 (January). Understanding the Health Effects of Ambient Ultrafine Particles. HEI Review Panel of Ultrafine Particles. Boston, MA. Available: https://www.healtheffects.org/publication/understanding-health-effects-ambient-ultrafine-particles. Accessed June 16, 2020.
- HEI. See Health Effects Institute.
- Kim, K. H., Jahan, S. A., & Kabir, E. 2013. A review on human health perspective of air pollution with respect to allergies and asthma. *Environment International*, 59: 41-52. Available: https://doi.org/10.1016/j.envint.2013.05.007. Accessed May 23, 2020.
- Kim, S. 2020 (July 6). Personal communication with Seong Kim, Air Quality Engineer, Monterey Bay Air Resources District, to Brenda Hom of Ascent Environmental. Regarding the UC Santa Cruz Prioritization Score Assessment.

- ——. 2020b (October 6). Personal communication with Seong Kim, Air Quality Engineer, Monterey Bay Air Resources District, to Brenda Hom of Ascent Environmental. Regarding the use SMAQMD's Roadway Construction Emissions Model to estimate roadway construction emissions.
- Kleeman, M. J., M. A. Robert, S. G. Riddle, and C. A. Jakober. 2007 (August). Source apportionment of fine and ultrafine particles in California. Report to the California Air Resources Board, Report #01-36.
- Landrigan, P. J., Fuller, R., Acosta, N. J., Adeyi, O., Arnold, R., Baldé, A. B., Bertollini, R., Bose-O'Reilly, S., Boufford, J. I., Breysse, P. N., & Chiles, T. 2018. The Lancet Commission on pollution and health. *The Lancet*, 391(10119): 462-512. Available: https://doi.org/10.1016/S0140-6736(17)32345-0. Accessed May 20, 2020.
- Levesque, S., Taetzsch, T., Lull, M. E., Kodavanti, U., Stadler, K., Wagner, A., Johnson, J. O., Duke, L., Kodavanti, P., Surace, M. J., & Block, M. L. 2011. Diesel exhaust activates and primes microglia: Air pollution, neuroinflammation, and regulation of dopaminergic neurotoxicity. *Environmental Health Perspectives*, 119(8): 1149-1155. Available: https://doi.org/10.1289/ehp.1002986. Accessed May 2, 2020.
- Li, N., C. Sioutas, A. Cho, D. Schmitz, C. Misra, J. Sempf, M. Wang, T. Oberley, J. Froines, and A. Nel. 2003 (April). Ultrafine particulate pollutants induce oxidative stress and mitochondrial damage. *Environmental Health Perspectives*, 111(4): 455-460. Available: https://ehp.niehs.nih.gov/doi/pdf/10.1289/ehp.6000. Accessed May 30, 2020.
- MBARD. See Monterey Bay Air Resources District.
- Monterey Bay Air Resources District. 2008. *CEQA Air Quality Guidelines* Monterey Bay Unified Air Pollution Control District. Available: https://www.mbard.org/files/f665829d1/CEQA_full+%281%29.pdf. Accessed May 22, 2020.
- ———. 2017. 2012-2015 Air Quality Management Plan. Available: https://www.mbard.org/files/6632732f5/2012-2015-AQMP_FINAL.pdf. Accessed May 8, 2020.
- Nemmar, A., P. H. M. Hoet, V. Vanquickenborne, D. Dinsdale, M. Thommer, M. F. Hoylaerts, H. Vanboilen, L. Mortelmans, and B. Nemery. 2002. Passage of intratracheally instilled ultrafine particles from the lung into the systemic circulation in hamster. *American Journal of Respiratory and Critical Care Medicine*, 164(9): 1665-1668. Available: https://www.atsjournals.org/doi/pdf/10.1164/ajrccm.164.9.2101036. Accessed May 14, 2020.
- Oberdörster, G. 2001. Pulmonary effects of inhaled ultrafine particles. *International Archives of Occupational and Environmental Health*, 74: 1-8. Available: https://doi.org/10.1007/s004200000185. Accessed May 13, 2020.
- OEHHA. See Office of Environmental Health Hazard Assessment.
- Office of Environmental Health Hazard Assessment. 2003 (August). The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Available: https://oehha.ca.gov/media/downloads/crnr/hrafinalnoapp.pdf. Accessed August 1, 2020.
- ——. 2009. Appendix A of Technical Support Document for Cancer Potency Factors: Methodologies for derivation, listing of available values, and adjustments to allow for early life stage exposures. California Environmental Protection Agency. Office of Environmental Health Hazard Assessment. Air Toxicology and Epidemiology Branch. May 2009. Available: https://oehha.ca.gov/air/crnr/technical-support-document-cancer-potency-factors-2009. Accessed February 5, 2018.
- ———. 2015. (February). Air Toxics Hot Spots Program Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments. Available: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed March 22, 2018.
- ———. 2019. OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary. Available: https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary. Accessed May 14, 2020.
- Sacramento Metropolitan Air Quality Management District. 2016 (August). Sacramento Metropolitan Air Quality Management District CEQA Guide, Chapter 4: Operational Criteria Air Pollutant and Precursor Emissions.

- Available: http://www.airquality.org/LandUseTransportation/Documents/Ch4OperationalFINAL8-2016.pdf. Last updated August 2016. Accessed June 28, 2020.
- ———. 2018. SMAQMD Road Construction Emissions Model (RCEM), Version 9.0.0 Available: http://www.airquality.org/LandUseTransportation/Documents/RoadConstructionEmissionsModelVer9_0_0_locked.zip. Accessed July 31, 2020.
- Sahai, R. and Brown, K. 2014. Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings. Available: https://www.ucop.edu/sustainability/_files/whole-building-energy-performance-targets-for-uc-buildings-study.pdf. Accessed July 31, 2020.
- SCAQMD. See South Coast Air Quality Management District.
- Searson, C. 2020 (August 11). Personal communication with Cynthia Searson, Engineering and Compliance Specialist, Monterey Bay Air Resources District, to Christopher Lovett of Ascent Environmental. Regarding odor complaints.
- Second Nature. 2018. *Annual Progress Evaluation for University of California, Santa Cruz, 2018.* Available: https://reporting.secondnature.org/ape/ape-public!337. Accessed July 31, 2020.
- Shah, A. S., Langrish, J. P., Nair, H., McAllister, D. A., Hunter, A. L., Donaldson, K., Newby, E., & Mills, N. L. (2013). Global association of air pollution and heart failure: a systematic review and meta-analysis. *The Lancet*, 382(9897), 1039-1048. Available: https://doi.org/10.1016/S0140-6736(13)60898-3. Accessed May 1, 2020.
- Sioutas, C., R. J. Delfino, and M. Singh. 2005. Exposure assessment for atmospheric ultrafine particles (UFP) and implications in epidemiologic research. *Environmental Health Perspectives*, 113(8): 947-955. Available: https://ehp.niehs.nih.gov/doi/pdf/10.1289/ehp.7939. Accessed May 28, 2020.
- SMAQMD. See Sacramento Metropolitan Air Quality Management District.
- South Coast Air Quality Management District. 2017 (October). CalEEMod Appendix E Technical Source Documentation. Prepared for California Air Pollution Control Officers Association. Prepared by BREEZE Software, A Division of Trinity Consultants Dallas, Texas in collaboration with South Coast Air Quality Management District and the California Air Districts.
- ———. 2020. Air Quality Modeling for CEQA. Available: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-modeling. Accessed August 30, 2020.
- Stölzel, M., S. Breitner, J. Cyrys, M. Pitz, G. Wölke, W. Kreyling, J. Heinrich, H. E. Wichmann, and A. Peters. 2007. Daily mortality and particulate matter in different size classes in Erfurt, Germany. *Journal of Exposure Science & Environmental Epidemiology*, 17(5): 458-67. Available: https://www.nature.com/articles/7500538.pdf. Accessed May 26, 2020.
- UCOP. See University of California Office of the President.
- University of California Office of the President. 2020 (July 24). *Sustainable Practices Policy*. University of California Policy. July 24, 2020. Available: http://policy.ucop.edu/doc/3100155/Sustainable%20Practices. Accessed July 31, 2020.
- University of California, Santa Cruz. 2005. Air Toxics Health Risk Assessment in Support of the University of California, Santa Cruz 2005 Long Range Development Plan. Prepared by URS Corporation.
- U.S. Environmental Protection Agency. 2011. AP-42 Emission Factors. 13.2.1. Paved Roads. Available: https://www.epa.gov/sites/production/files/2020-10/documents/13.2.1_paved_roads.pdf. Accessed December 9, 2020.
- ———. 2017. *Nonattainment Areas for Criteria Pollutants (Green Book)*. Available: https://www.epa.gov/green-book. Accessed May 18, 2020.

- 2019a (August). Environments and Contaminants: Criteria Air Pollutants. In America's Children and the Environment. Updated Third Edition. Available: https://www.epa.gov/sites/production/files/2019-07/documents/ace3-criteria-air-pollutants-report-section.pdf. Accessed: April 1, 2020.
 2019b. American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee modeling system (AERMOD), Version 19191. Available: https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models. Accessed June 11, 2020.
 2020a (June). Lead (Pb) Air Pollution. Available: https://www.epa.gov/lead-air-pollution. Last updated June 3, 2020. Accessed June 19, 2020.
 2020b (April). Health and Environmental Effects of Particulate Matter (PM). Available: https://www.epa.gov/pm-pollution/health-and-environmental-effects-particulate-matter-pm. Accessed June 19, 2020.
- Van Gosen, B. S. and Clinkenbeard J. P. 2011. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. U. S. Geological Survey Open-File Report 2011-1188. California Geological Survey Map Sheet 59. Available: https://pubs.usgs.gov/of/2011/1188/. Accessed April 28, 2020.
- Western Regional Climate Center. 2016. Period of Record Monthly Climate Summary for Santa Cruz, California (047916). Available: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7916. Accessed May 18, 2020.
- ———. 2017. Prevailing Wind Direction, Monterey Airport (KMRY). Available: https://wrcc.dri.edu/Climate/comp_table_show.php?stype=wind_dir_avg. Accessed May 18, 2020.
- WRCC. See Western Regional Climate Center.
- Zhu, Y., W. C. Hinds, S. Kim, S. Shen, and C. Sioutas. 2002. Study of ultrafine particles near a major highway with heavy-duty diesel traffic. *Atmospheric Environment*, 36: 4323–4335. Available: https://doi.org/10.1016/S1352-2310(02)00354-0. Accessed April 29, 2020.

Section 3.4, "Archaeological, Historical, and Tribal Cultural Resources"

- architecture + history. 2020 UC Santa Cruz 2020 Long Range Development Plan Historic Resources Technical Memorandum.
- Architectural Resources Group. 2006 (February). *Campus Core Historic Context University of California, Santa Cruz*. Prepared for University of California, Santa Cruz Physical Planning and Construction.
- Birnbaum, Charles A. 1994. National Park Service Preservation Brief 36. Protecting Cultural Landscapes: Planning, Treatment and Management of Historic Landscapes. Available: https://www.nps.gov/tps/how-to-preserve/briefs/36-cultural-landscapes.htm.
- Office of Historic Preservation. 1995 (March). Instructions for Recording Historical Resources.
- Pacific Legacy. 2020. Technical Memo for Cultural Resource Studies, UC Santa Cruz, Long Range Development Plan.
- Weeks, KD and AE Grimmer. 1995. Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings. U.S. Department of the Interior National Park Service Cultural Resource Stewardship and Partnerships Heritage Preservation Services Washington, D.C.

Section 3.5, "Biological Resources"

- Allen, M. L., L. M. Elbroch, D. S. Casady, and H. U. Wittmer. 2015. Feeding and Spatial Ecology of Mountain Lions in the Mendocino National Forest, California. *California Fish and Game*. 101:51-65.
- American Bird Conservancy. 2015. *Bird-Friendly Building Design*. Available: https://abcbirds.org/wp-content/uploads/2015/05/Bird-friendly-Building-Guide 20151.pdf. Accessed December 19, 2019.

UC Santa Cruz 2021 Long Range Development Plan EIR

- AmphibiaWeb. 2020. *California Red-Legged Frog Species Account*. Available: https://amphibiaweb.org/cgi/amphib_query?where-genus=Rana&where-species=draytonii. Accessed July 7, 2020.
- Arnold, R. A. 2020. *University of California Santa Cruz Campus Long Range Development Plan EIR Habitat Assessment Report for the Endangered Ohlone Tiger Beetle.* Pleasant Hill, CA.
- Bay Area Open Space Council. 2019. The Conservation Lands Network 2.0 Report. Berkeley, CA.
- Biosearch Environmental Consulting. 2020. *California Red-Legged Frog Site Assessment University of California, Santa Cruz Santa Cruz County, California*. Santa Cruz, CA.
- Bulger, J. B., N. J. Scott Jr., and R. B. Seymour. 2003. Terrestrial Activity and Conservation of Adult California Redlegged Frogs *Rana aurora draytonii* in Coastal Forests and Grasslands. *Biological Conservation* 110:85-95.
- California Department of Fish and Wildlife. 2008. *Life History Account for California Red-Legged Frog*. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=7103. Accessed July 7, 2020.
- ——. 2012. Staff Report on Burrowing Owl Mitigation. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843. Accessed June 26, 2020.
- ———. 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline. Accessed June 26, 2020.
- ——. 2020. California Wildlife Habitat Relationships. Sacramento, CA. Available: https://www.wildlife.ca.gov/Data/CWHR. Accessed August 31, 2020.
- Calflora. 2020. Calflora database. Available: http://www.calflora.org/. Accessed July 3, 2020.
- California Department of Parks. 2017. *Marbled Murrelet Landscape Management Plan for Zone 6*. Available: https://www.parks.ca.gov/pages/29882/files/Z6-Plan_FINAL_MASTER_V14_07-17.pdf. Accessed June 17, 2020.
- California Native Plant Society. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Available: http://www.rareplants.cnps.org. Accessed June 8, 2020.
- California Natural Diversity Database. 2020. Results of electronic records search. Sacramento: California Department of Fish and Wildlife, Biogeographic Data Branch. Accessed June 8, 2020.
- California Oak Mortality Task Force. 2019. *Sudden Oak Death Map.* Available: http://www.suddenoakdeath.org/maps-media/maps/. Accessed July 3, 2020.
- Center for Ecosystem Management and Restoration. 2020. *Steelhead/Rainbow Trout Resources of Santa Cruz County*. Available: http://www.cemar.org/SSRP/pdfs/SSRP_SantaCruz.pdf. Accessed June 29, 2020.
- CNDDB. See California Natural Diversity Database.
- CNPS. See California Native Plant Society.
- County of Santa Cruz. 2020. Santa Cruz County Geospatial Data. Available: https://gis.santacruzcounty.us/. Accessed August 27, 2020.
- Cramer, M. D. and N. N. Barger. 2014. Are mima-like mounds the consequence of long-term stability of vegetation spatial patterning? *Palaeogeography, Palaeoclimatology, Palaeoecology*. 409:72-83.
- Department of the Interior. 2009. *Adaptive Management the U.S. Department of the Interior Technical Guide*. Available: https://www.doi.gov/sites/doi.gov/files/migrated/ppa/upload/TechGuide.pdf. Accessed December 2, 2020.
- eBird. 2020. eBird. Ithaca, NY. Available: https://ebird.org/home. Accessed June 16-18, 2020.
- Environmental Laboratory. 1987. U.S. Army Corps of Engineers Wetlands Delineation Manual. (Technical Report Y-87-1.) U.S. Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS.

- Fellers, G. M. and P. M. Kleeman. 2007. California Red-Legged Frog (*Rana draytonii*) Movement and Habitat Use: Implications for Conservation. *Journal of Herpetology*. 41:276-286.
- Gabet, E. J., J. T. Perron, and D. L. Johnson. 2014. Biotic Origin for Mima Mounds Supported by Numerical Modeling. *Geomorphology*. 206:58-66.
- Jones, Alex. Campus Natural Reserve Manager, UC Santa Cruz, Santa Cruz, CA. October 7, 2020–phone call with Ascent Environmental staff regarding biological resource occurrence data.
- Kauffmann, M., T. Parker, and M. Vasey. 2015. *Field Guide to Manzanitas California, North America, and Mexico*. Backcountry Press. Kneeland, CA.
- Krohn A. R. and A. S. Jones. 2020. *Meta dolloff* Levi, 1980 (Araneae: Tetragnathidae) in cave-like environments. *The Pan-Pacific Entomologist*. 96:185-187.
- Matocq, M. D. 2002. Morphological and Molecular Analysis of a Contact Zone in the *Neotoma fuscipes* Species Complex. *Journal of Mammalogy*. 83:866-883.
- Neubauer, D. 2013. *Annotated Checklist of the Vascular Plants of Santa Cruz County, California*. California Native Plant Society, Santa Cruz County Chapter, Santa Cruz, CA.
- Reese, D. A. and H. H. Welsh. 1997. Use of Terrestrial Habitat by Western Pond Turtles, *Clemmys marmorata*: Implications for Management. *Proceedings: Conservation, Restoration, and Management of Tortoises and Turtles*. An International Conference held by the New York Turtle and Tortoise Society, pp. 352-357.
- Remsen, J. V. 1978. *Bird Species of Special Concern in California*. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=169067&inline. Accessed June 29, 2020.
- Santa Cruz Puma Project. 2015. *Three New Puma Kittens Take on the World!* Available: http://www.santacruzpumas.org/2015/06/three-new-puma-kittens-take-on-the-world/. Accessed June 30, 2020.
- ———. 2020. *Santa Cruz Puma Project Puma Tracker*. Available: http://www.santacruzpumas.org/puma-tracker/. Accessed June 30, 2020.
- Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. *A Manual of California Vegetation*. Second edition. California Native Plant Society Press, Sacramento, California, USA.
- Spencer, W.D., P. Beier, K. Penrod, K. Winters, C. Paulman, H. Rustigian-Romsos, J. Strittholt, M. Parisi, and A. Pettler. 2010. *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California*. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18366. Accessed April 20, 2020.
- State Water Resources Control Board. 2019. State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State. Available:

 https://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/procedures_conformed.pdf. Accessed July 10, 2020.
- SWRCB. See State Water Resources Control Board.
- Thomson, R. C., A. N. Wright, and H. B. Shaffer. 2016. *California Amphibian and Reptile Species of Special Concern.*University of California Press, Oakland, CA.
- UC Santa Cruz. 1971. Long Range Development Plan. Prepared by UC Santa Cruz, Santa Cruz CA.
- ——. 2005a. *UC Santa Cruz 2005 Long Range Development Plan Environmental Impact Report*. Biological Resources. Prepared by Jones & Stokes Associates, Inc. San Jose, CA.
- ———. 2005b. *Habitat Conservation Plan Ranch View Terrace, University of California, Santa Cruz*. Prepared by Jones & Stokes Associates, Inc. San Jose, CA.

UC Santa Cruz

Draft EIR

———. 2016a. <i>UC Santa Cruz Campus Natural Reserve Amphibian and Reptile List</i> . Available: https://ucsccampusreserve.ucsc.edu/maps-habitats-organisms-stewardship/amphibians-and-reptiles-of-ucsc.html. Accessed July 10, 2020.
———. 2016b. <i>UC Santa Cruz Campus Natural Reserve Mammal List</i> . Available: https://ucsccampusreserve.ucsc.edu/documents/ucsc-mammals.pdf. Accessed July 2, 2020.
———. 2017. UC Santa Cruz Arboretum and Botanic Garden, Gardens and Collections. Available: https://arboretum.ucsc.edu/visit/garden/index.html. Accessed June 21, 2020.
———. 2019. UC Santa Cruz Ranch View Terrace Habitat Conservation Plan Annual Report 2019.
USACE. See U.S. Army Corps of Engineers.
U.S. Army Corps of Engineers. 2008. <i>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)</i> . Available: https://usace.contentdm.oclc.org/utils/getfile/collection/p266001coll1/id/7627. Accessed May 8, 2020.
U.S. Fish and Wildlife Service. 2002b. <i>Recovery Plan for the California Red-legged Frog (Rana aurora draytonii)</i> . Available: https://www.fws.gov/arcata/es/amphibians/crlf/documents/020528.pdf. Accessed April 20, 2020.
———. 2020a. Information for Planning and Consultation electronic records search. Available: https://ecos.fws.gov/ipac/. Accessed June 9, 2020.
———. 2020b. National Wetlands Inventory. Available: https://www.fws.gov/wetlands/data/mapper.html. Accessed August 27, 2020.
USFWS. See U.S. Fish and Wildlife Service.
Xerces Society for Invertebrate Conservation. 2016. State of the Monarch Butterfly Overwintering Sites in California. Available: https://www.xerces.org/sites/default/files/2018-05/16-015_01_XercesSoc_State-of-Monarch-Overwintering-Sites-in-California_web.pdf. Accessed June 29, 2020.
———. 2017. Protecting California's Butterfly Groves. Management Guidelines for Monarch Butterfly Overwintering Habitat. Available: https://xerces.org/sites/default/files/2018-05/17-040_01_ProtectingCaliforniaButterflyGroves.pdf. Accessed June 29, 2020.
———. 2018. A Petition to the State of California Fish and Game Commission to List the Crotch Bumble Bee (Bombus crotchii), Franklin's Bumble Bee (Bombus franklini), Suckley Cuckoo Bumble Bee (Bombus suckleyi), and Western Bumble Bee (Bombus occidentalis occidentalis) as Endangered Under the California Endangered Species Act. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=161902&inline. Accessed June 29, 2020.
Section 3.6, "Energy" AFDC. See Alternative Fuels Data Center.
Alternative Fuels Data Center. 2020. Alternative Fueling Station Counts by State. Data Last Updated July 2, 2020. Available: https://afdc.energy.gov/stations/states. Accessed July 2, 2020.
California Air Resources Board. 2014. First Update to the Climate Change Scoping Plan. Available: https://ww2.arb.ca.gov/sites/default/files/classic//cc/scopingplan/2013_update/first_update_climate_change_s coping_plan.pdf. Accessed May 13, 2020.
———. 2017 (November). <i>California's 2017 Climate Change Scoping Plan</i> . Available: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed May 12, 2020.
California Energy Commission. 2018 (September). Frequently Asked Questions 2019 Building Energy Efficiency Standards. Available: https://ww2.energy.ca.gov/title24/2019standards/documents/Title24_2019_Standards_detailed_faq.pdf. Accessed June 29, 2020.

- ——. 2019a. Total System Electric Generation. Available: http://www.energy.ca.gov/almanac/electricity_data/total_system_power.html. Accessed May 19, 2020.
- ———. 2019b (November). 2019 California Energy Efficiency Action Plan. California Energy Commission. Publication Number: CEC400-2019-010-SF. Available: https://ww2.energy.ca.gov/business_meetings/2019_packets/2019-12-11/Item_06_2019%20California%20Energy%20Efficiency%20Action%20Plan%20(19-IEPR-06).pdf. Accessed May 20, 2020.
- California Energy Commission and California Air Resources Board. 2003 (August). *Reducing California's Petroleum Dependence. Joint Agency Report by California Energy Commission and California Air Resources Board.*Available: https://ww3.arb.ca.gov/fuels/carefinery/ab2076final.pdf. Accessed July 1, 2020.
- CARB. See California Air Resources Board.
- CEC. See California Energy Commission.
- CEC and CARB. See California Energy Commission and California Air Resources Board.
- The Climate Registry. 2020 (April). The Climate Registry Default Emission Factors. Available: https://www.theclimateregistry.org/wp-content/uploads/2020/04/The-Climate-Registry-2020-Default-Emission-Factor-Document.pdf. Accessed December 9, 2020.
- Diamantopoulos, T. 2020 (December 4). Personal communication with Theo Diamontopoulos, Fleet Manager, UC Santa Cruz, to Erika Carpenter of UC Santa Cruz. Regarding UC Santa Cruz campus alternative fleet characteristics.
- Eckerle, T., & Jones, T. (2015). Zero-Emission Vehicles in California: Hydrogen Station Permitting Guidebook. Governor's Office of Business and Economic Development, Sacramento, CA. Available: https://businessportal.ca.gov/wp-content/Documents/ZEV/Hydrogen-Permitting-Guidebook.pdf. Accessed May 3, 2020.
- Governor's Interagency Working Group on Zero-Emission Vehicles. 2016 (October). 2016 ZEV Action Plan. Available: https://www.gov.ca.gov/wp-content/uploads/2018/01/2016_ZEV_Action_Plan-1.pdf
- ——. 2018 (September). 2018 ZEV Action Plan Priorities Update. Available: https://static.business.ca.gov/wp-content/uploads/2019/12/2018-ZEV-Action-Plan-Priorities-Update.pdf. Accessed: April 26, 2020.
- OPR. See Governor's Office of Planning and Research.
- Governor's Office of Planning and Research. 2017 (November). *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Available: http://www.opr.ca.gov/docs/20171127_Transportation_Analysis_TA_Nov_2017.pdf. Accessed April 18, 2019.
- Sahai, R., Kniazewycz, C., and Brown, K. 2014. Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings. Available: https://www.ucop.edu/sustainability/_files/whole-building-energy-performance-targets-for-uc-buildings-study.pdf. Accessed July 31, 2020.
- SCAQMD. See South Coast Air Quality Management District.
- South Coast Air Quality Management District (April). 1993. Air Quality Handbook.
- ———. 2017. California Emissions Estimator Model (CalEEMod). Available: http://www.caleemod.com/. Accessed July 13, 2020.
- UCOP. See University of California Office of the President.
- UCSC. See University of California, Santa Cruz.
- University of California Office of the President. 2020. *Sustainable Practices*. University of California Policy. Available: https://policy.ucop.edu/doc/3100155/SustainablePractices. Accessed July 26, 2020.

- University of California, Santa Cruz. 2011 (November). UC Santa Cruz Cogeneration Plant Replacement Phase 1 Final Tiered IS/MND. Office of Physical Planning & Construction. Available: https://mediafiles.ucsc.edu/ppc/OtherEnvdocs/Cogen/cogenfinalis.pdf. Accessed July 5, 2020.
 - —. 2017 (January). *University of California Santa Cruz Climate & Energy Strategy* (CES). Available:
- http://reporting.secondnature.org/media/uploads/cap/597-capfile_lWeaR6l.pdf. Accessed June 29, 2020.

 ————. 2019. Campus Standards. Available: https://ppc.ucsc.edu/consultants/standards.html. Accessed December 9,
- 2020. ———. 2019. Campus Standards. Available: https://ppc.ucsc.edu/consultants/standards.ntml. Accessed December 9,
- ——. 2020. Physical Plant Live Data. Available: https://physicalplant.ucsc.edu/energy-work-management/energy-management/live-data.html. Accessed August 4, 2020.

Section 3.7, "Geology, Soils, and Mineral Resources"

- American Society of Civil Engineers. 2016. *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*, ASCE/SEI 7-16.
- ASCE. See American Society of Civil Engineers.
- Bryant, William. A., and Hart, Earl. W. 2007. *Fault-Rupture Hazard Zones in California*. California Department of Conservation, Sacramento, CA.
- California Geological Survey. 2018. Earthquake Fault Zones a Guide for Government Agencies, Property Owners / Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California, Special Publication 42 https://www.conservation.ca.gov/cgs/Documents/Publications/Special-Publications/SP_042.pdf.
- Cao, T., Bryant, W.A., Rowshandel, B., Branum, D. And Wills, C.J., 2003. The Revised 2002 California Probabilistic Seismic Hazards Maps. Available: https://www.conservation.ca.gov/cgs/Documents/PSHA/2002%20California%20Hazard%20Maps.pdf. Accessed September 10, 2020.
- Clark, J.C. 1981. Stratigraphy, Paleontology, and Geology of the Central Santa Cruz Mountains, California Coast Ranges. U.S. Geological Survey, Prof Paper 1168:1-51.
- Dupré, W.R., 1975c, Geology and liquefaction potential of Quaternary deposits in Santa Cruz County, California, U. S. Geological Survey Miscellaneous Field Studies Map MF-648, 2 sheets, scale 1:62,500.
- Lawson, A.C. et al. 1908. The California Earthquake of April 18, 1906, Report of the State Earthquake Investigation Commission, Carnegie Institute of Washington, Publication 87, 2 v., 600 p.
- NCEP. See Working Group on Northern California Earthquake Potential.
- Nolan, Zinn and Associates. 2005. Revised Geology and Geologic Hazards, Santa Cruz Campus University of California, unpublished consultant report.
- Rosenberg, L.I., and Clark, J.C., 1994, Quaternary faulting of the greater Monterey area, California: Technical report to U.S. Geological Survey, under Contract 1434-94-G-2443, 27 p., scale 1:24,000.
- Santa Cruz County. 2020. Mineral Classifications. Available: https://www.arcgis.com/home/webmap/viewer.html?useExisting=1&layers=5d7a3abda0ee48599d5f977de12a 7f17. Accessed on August 18, 2020.
- SCS. See Soil Conservation Service.
- Soil Conservation Service. 1980. *Soil Survey of Santa Cruz County, California*. U.S. Department of Agriculture. Available: https://websoilsurvey.nrcs.usda.gov/app/. Accessed August 28, 2020.
- Stanford Libraries. 2020. *Soils Survey: Santa Cruz County, California*. Available: https://earthworks.stanford.edu/catalog/stanford-kf833hv3826. Accessed August 28, 2020.

- Steven Raas and Associates. 2000. Preliminary geotechnical investigation for North Campus Planning Study, University of California, Santa Cruz, California, unpublished consultant report, 95 p.
- Sykes, L.R. and S.P. Nishenko. 1984. Probabilities of occurrence of large plate-rupturing earthquakes for the San Andreas, San Jacinto, and Imperial faults, California, 1983-2003. *Journal of Geophysical Research*, v. 89, p. 5905-5927.
- UCMP. See UC Museum of Paleontology
- UC Museum of Paleontology. 2010 (May). *Marine vertebrate paleontology in Half Moon Bay*. Available: https://ucmp.berkeley.edu/2010/05/marine-vertebrate-paleontology-in-half-moon-bay/. Accessed December 30, 2020.
- UC Santa Cruz. See University of California, Santa Cruz.
- University of California, Santa Cruz. 2014 (June). *Storm Water Program Guidance Document*. Available: https://cleanwater.ucsc.edu/Background/SWMPGuidanceDocs06_2014%20.pdf. Accessed December 2020.
- ———. 2017 (June). UCSC Campus Standards Handbook.
- U.S. Geological Survey. Ongoing. Quaternary Faults database. Available: https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf. Accessed September 10, 2020.
- ———. 2003. Earthquake Probabilities in the San Francisco Bay Region: 2002-2031. Prepared by Working Group on California Earthquake Probabilities. Open-File Report 03-214. Available https://pubs.usgs.gov/of/2003/of03-214/OFR-03-214_FullText.pdf. Accessed on September 8, 2020.
- USGS. See U.S. Geological Survey.
- WG. See Working Group on California Earthquake Probabilities.
- Working Group on California Earthquake Probabilities. 1988. Probabilities of large earthquakes occurring in California on the San Andreas fault, U. S. Geological Survey Open-File Report 88-398, 62 p.
- ———. 1990. Probabilities of large earthquakes in the San Francisco Bay region, California, U. S. Geological Survey Circular 1053, 51 p.
- ———. 2003. Earthquake probabilities in the San Francisco Bay region: 2002-2031: U.S. Geological Survey Open-File Report 03-214.
- Working Group on Northern California Earthquake Potential. 1996. Database of potential sources for earthquakes larger than magnitude 6 in northern California, U. S. Geological Survey Open-File Report 96-705, 53 p.
- Youd, T.L. and S.N. Hoose. 1978. Historic ground failures in northern California triggered by earthquakes, U. S. Geological Survey Professional Paper 993, 177 p.

Section 3.8, "Greenhouse Gas Emissions and Climate Change"

- AMBAG. See Association of Monterey Bay Area Governments.
- Association of Monterey Bay Area Governments. 2018. *Moving Forward Monterey Bay 2040, Metropolitan Transportation Plan /Sustainable Communities Strategy*. Available: http://ambag.org/sites/default/files/2020-05/0-AMBAG_MTP-SCS_ExecutiveSummary_PDFA.pdf. Accessed July 15, 2020.
- California Air Pollution Control Officers Association. 2016. California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Available: http://www.caleemod.com/. Accessed March 30, 2020.
- California Air Resources Board. 2010. Local Government Operations Protocol for the Quantification and Reporting of Greenhouse Gas Emissions Inventories. Available: https://ww2.arb.ca.gov/local-government-operations-protocol-greenhouse-gas-assessments. Accessed May 10, 2020.

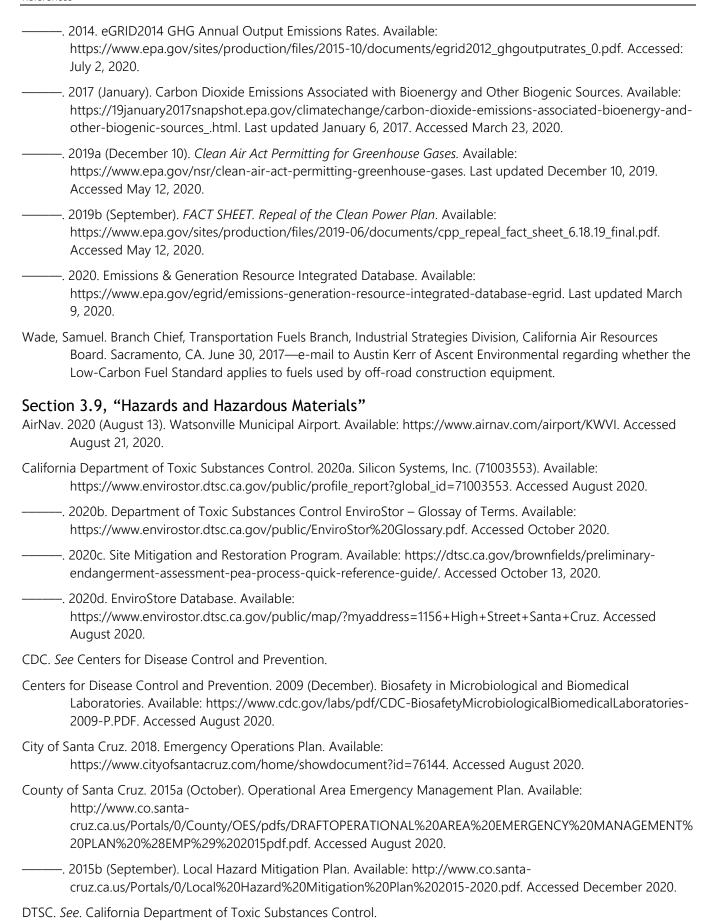
- 2017a (November). California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target. Adopted by the California Air Resources Board on December 14, 2017. Available: https://ww3.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed: May 12, 2020.
 2017b (March). Short-Lived Climate Pollutant Reduction Strategy. Available: https://ww2.arb.ca.gov/our-work/programs/slcp. Accessed: May 12, 2020.
 2019. California Greenhouse Gas Emissions for 2000 to 2017. Available: http://www.arb.ca.gov/cc/inventory/data/data.htm. Accessed July 3, 2020.
 2020a. Low Carbon Fuel Standard. About. Available: https://ww2.arb.ca.gov/our-work/programs/low-carbon-fuel-standard/about. Accessed May 12, 2020.
 2020b. Advanced Clean Cars Program. About. Available: https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/about. Accessed May 12, 2020.
- California Department of Resources Recycling and Recovery. 2020. Mandatory Commercial Organics Recycling. Available: https://www.calrecycle.ca.gov/recycle/commercial/organics. Accessed May 12, 2020.
- California Energy Commission. 2018 (December). 2019 Building Energy Efficiency Standards for Residential and Nonresidential Buildings. CEC-400-2015-037-CMF. Available: https://ww2.energy.ca.gov/publications/displayOneReport_cms.php?pubNum=CEC-400-2018-020-CMF. Accessed May 12, 2020.
- ———. 2020. Cal-Adapt Annual Averages Tool. Available: https://cal-adapt.org/tools/annual-averages/#climatevar=tasmax&scenario=rcp45&lat=36.96875&lng=-122.03125&boundary=locagrid&units=fahrenheit. Accessed July 3, 2020.
- California Natural Resources Agency. 2018. *Safeguarding California Plan: 2018 Update*. Available: http://resources.ca.gov/docs/climate/safeguarding/update2018/safeguarding-california-plan-2018-update.pdf. Accessed July 7, 2020.
- CalRecycle. See California Department of Resources Recycling and Recovery.
- CAPCOA. See California Air Pollution Control Officers Association.
- CEC. See California Energy Commission.
- City of Santa Cruz. 2007. *City of Santa Cruz Climate Action Compact*. Available: https://www.cityofsantacruz.com/Home/ShowDocument?id=9309. Accessed October 12, 2020.
- ———. 2012 (June). City of Santa Cruz Climate Action Plan. Available: https://www.cityofsantacruz.com/home/showdocument?id=27824. Accessed October 8, 2020.
- CNRA. See California Natural Resources Agency.
- Eckerle, T., & Jones, T. (2015). Zero-Emission Vehicles in California: Hydrogen Station Permitting Guidebook. Governor's Office of Business and Economic Development, Sacramento, CA. Available: https://businessportal.ca.gov/wp-content/Documents/ZEV/Hydrogen-Permitting-Guidebook.pdf. Accessed May 3, 2020.
- EPA. See US Environmental Protection Agency.
- Governor's Interagency Working Group on Zero-Emission Vehicles. 2016. 2016 ZEV Action Plan. Available: https://dot.ca.gov/-/media/dot-media/programs/sustainability/documents/2016-zev-action-plan-a11y.pdf. Accessed August 30, 2020.
- Governor's Office of Planning and Research, California Energy Commission, and California Natural Resources Agency. 2018 (August 27). California's Changing Climate: A Summary of Key Findings from California's Fourth Climate Change Assessment. Available: https://www.energy.ca.gov/sites/default/files/2019-08/20180827_Summary_Brochure.pdf. Accessed June 30, 2020.

- Intergovernmental Panel on Climate Change. 2007. Climate Change 2007: The Physical Science Basis. Available: https://www.ipcc.ch/report/ar4/wg1. Accessed August 15, 2020. —. 2013. Chapter 6, Carbon and Other Biogeochemical Cycles. Pages 465–570 in Climate Change 2013: The Physical Science Basis. Working Group I Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Available: http://www.climatechange2013.org/images/report/WG1AR5 ALL FINAL.pdf. Accessed June 27, 2020. —. 2014. Climate Change 2014 Synthesis Report: Summary for Policymakers. Available: https://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_SPM.pdf. Accessed June 25, 2020. IPCC. See Intergovernmental Panel on Climate Change. MBARD. See Monterey Bay Air Resources District. Monterey Bay Air Resources District. 2008. CEQA Air Quality Guidelines. Monterey Bay Unified Air Pollution Control District. Available: https://www.mbard.org/files/f665829d1/CEQA_full+%281%29.pdf. Accessed May 22, 2020. ——. 2016 (February). Guidelines for Implementing the California Environmental Quality Act. Monterey Bay Unified Air Pollution Control District. Available: https://www.mbard.org/files/50d38962a/Attachment Guidelines-for-Implementing-CEQA.pdf. Accessed July 3, 2020. OPR. See Governor's Office of Planning and Research. Sahai, R., Kniazewycz, C., and Brown, K. 2014. Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings. Available: https://www.ucop.edu/sustainability/_files/whole-building-energy-performance-targetsfor-uc-buildings-study.pdf. Accessed July 31, 2020. Second Nature. 2018. Annual Progress Evaluation for University of California, Santa Cruz, 2018. Available: https://reporting.secondnature.org/ape/ape-public!337. Accessed July 31, 2020. 2020. Measuring Progress. From Reporting to Dynamic Assessment. Available: https://secondnature.org/signatory-handbook/measuring-progress/. Accessed December 9, 2020. The Climate Registry. 2018 (December). TCR's Voluntary Reporting Program. Frequently Asked Questions. Available: https://www.theclimateregistry.org/wp-content/uploads/2019/02/Reporting-FAQs.pdf. Accessed December 9, 2020. UCOP. See University of California Office of the President. UC Santa Cruz. See University of California, Santa Cruz. University of California Office of the President. 2018. Carbon Neutrality Initiative. Available: http://www.ucop.edu/carbon-neutrality-initiative/. Accessed May 12, 2020. -. 2020. Sustainable Practices Policy. University of California - Policy. Available: https://policy.ucop.edu/doc/3100155/SustainablePractices. Accessed July 26, 2020. University of California, Santa Cruz. 2017 (January). University of California – Santa Cruz. Climate & Energy Strategy (CES). Version 1.1. January 13, 2017. Available: http://reporting.secondnature.org/media/uploads/cap/597capfile_IWeaR6I.pdf. Accessed May 12, 2020. -. 2019. UCSC Campus Sustainability Plan - Progress Report 2017-2019. Available:
- Available: https://www.epa.gov/sites/production/files/2015-07/documents/ghgguid.pdf. Accessed June 7, 2020.

US Environmental Protection Agency. 2011 (March). PSD and Title V Permitting Guidance for Greenhouse Gases.

https://sustainabilityplan.ucsc.edu/implementation/progress-report-2018-2019-update-in-progress/.

Accessed May 12, 2020.



Prepared by Ninyo and Moore, Oakland, CA. State Water Resources Control Board. 2020a. University of California SC (T0608700178). Available: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0608700178. Accessed August 2020. –. 2020b. GeoTracker. Available: https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=71003553. Accessed August 2020. SWRCB. See State Water Resources Control Board. UCOP. See University of California Office of the President. University of California Office of the President. 2019. Facilities Manual. Available: https://www.ucop.edu/constructionservices/facilities-manual/. Accessed September 2, 2020. UC Santa Cruz. 2005. UC Santa Cruz 2005 Long Range Development Plan Environmental Impact Report. State Clearinghouse No. 2005012113. Prepared by Jones & Stokes Associates, Inc. San Jose, CA. . 2009 (July). Lead Compliance Plan. Available: https://ehs.ucsc.edu/programs/safety-ih/documents/lead compliance-plan.pdf. Accessed on August 2020. —. 2016a (September). Underground Storage Tanks. Available: https://ehs.ucsc.edu/programs/environmental/underground-storage.html. Accessed August 18, 2020. safety/LaserSafetyManual.pdf. August 2020. —. 2016c (September 27). Laboratory Safety Fundamentals. Available: https://ehs.ucsc.edu/lab-safetymanual/lab-safety-fundamentals.html. Accessed August 2020. ——. 2016d. Emergency Operations Plan. Available: https://oes.ucsc.edu/emergency-preparedness/eop-11-2016.pdf. Accessed August 2020. —. 2016e. Bloodborne Pathogens Program. Available: https://ehs.ucsc.edu/programs/researchsafety/biosafety/bloodborne-pathogens.html. Accessed August 2020. ——. 2017a (January 12). Radiation Safety. Available: https://ehs.ucsc.edu/programs/researchsafety/radiation/index.html. Accessed August 2020. ——. 2017b. Safety Data Sheets. Available: https://ehs.ucsc.edu/programs/research-safety/sds.html. Accessed August 2020. —. 2019 (April 11). Waste Water Discharge. Available: https://ehs.ucsc.edu/programs/environmental/wastewater.html. Accessed August 2020. —. 2020a. Injury and Illness Prevention Program. Available https://ehs.ucsc.edu/programs/IIPP/index.html. Accessed August 18, 2020. 2020b (February 11). Biosafety. Available: https://ehs.ucsc.edu/programs/research-safety/biosafety/index.html. Accessed August 2020. —. 2020c (March 23). Lab Inspections. Available: https://ehs.ucsc.edu/lab-safety-manual/labinspections.html. Accessed August 2020. —. 2020d. Asbestos Containing Construction Materials on Campus. Available: https://ehs.ucsc.edu/programs/safety-ih/documents/ucsc-asbestos.pdf. Accessed August 2020. -. 2020e. Hazardous Waste Storage and Disposal Guidelines. Available: https://ehs.ucsc.edu/programs/wastemanagement/documents/non-sci-hazwaste.pdf. Accessed August 2020.

Ninyo and Moore. 2004 (March 5). Environmental Due Diligence Study. Prepared for UC Santa Cruz, Santa Cruz, CA.

Gilchrist & Associates. 1990 (June). Expanded Initial Study - Farm and Arboretum Irrigation Well.

- Huffman-Broadway Group, LLC. 2018 (October 22). Year 4 Post-Restoration California Rapid Assessment Method Letter Report for the Stormwater Infrastructure Improvement Project, Santa Cruz, California (Corps File # 2000-25309S).
- —. 2019 (September 18). Year 5 Post-Restoration California Rapid Assessment Method Report for the Stormwater Infrastructure Improvement Project, University of California, Santa Cruz, Santa Cruz County, California.
- Johnson, N.M. 1988 (June). Evaluation of Drainage Conditions at the University of California Santa Cruz Under Existing and Proposed Campus Development. Impervious-surface and development areas, revised March 1989.
- 2003 (June). Evaluation of Drainage and Erosion Issues, Southeast UCSC Campus.
- Johnson, N.M., Weber & Associates. 1989 (March). Evaluation of Groundwater Resources at UCSC, Parts I and II.
- Kennedy/Jenks Consultants. 2004 (September). Stormwater & Drainage Master Plan.
- Land Trust of Santa Cruz County. 2020. Antonelli Pond. Available: https://www.landtrustsantacruz.org/category/protected-lands/antonelli-pond/. Accessed October 22, 2020.
- Nolan Associates. 2000 (July). Geologic, Hydrologic and Groundwater Resource Assessment for the North Campus Planning Area – Santa Cruz Campus.
- Nolan, Zinn and Associates. 2004 (February). Final Report Biotic (Seep) Area Hydrogeologic Investigation Inclusion Area D. UC Santa Cruz.
- PRISM Climate Group. 2004 (February 4). PRISM Climate Data. Available: http://prism.oregonstate.edu. Accessed January 2021.
- Rogers E. Johnson & Associates. 1985 (February). Groundwater Hydrology Study, Phase I Report.
- -. 1987 (March 17). Geologic Report for the UC Santa Cruz Campus.

- Rutherford & Chekene Consulting Engineers. 1992 (December 4) Campus Drainage and Erosion Project Lower Moore Creek, UC Santa Cruz. Cited in UC Santa Cruz 2005.
- Sherwood Design Engineers. 2020 (November). UC Santa Cruz Long Range Development Plan Water Demand Calculations Technical Memorandum.
- Trinity Source Group, Inc. 2018 (May 25). Source Area Data Gaps Investigation Report and Remedial Action Plan, Former Santa Cruz Industries, 411 Swift Street, Santa Cruz, California.
- UC Santa Cruz. 2005. *UC Santa Cruz 2005 Long Range Development Plan Final Environmental Impact Report*, SCH No. 2005012113.
- ———. 2016. UC Santa Cruz Post-Construction Stormwater Management Requirements.
- Weber, Hayes & Associates. 2000 (February 15). Dye Tracing Study in Limestone Karst UC Santa Cruz Physical Science and College 9 and 10 Residence and Dining Hall Proposed Building Sites.
- ———. 2001a (March 9). Dye Tracing Study in Limestone Karst Cowell College Housing Proposed Building Sites.
- ———. 2001b (August 30). Dye Tracing Study in Limestone Karst Proposed Engineering Building Site.
- ———. 2007 (December 7). 72-Hour Constant Rate Well Pumping and Aquifer Recovery Test and Pumping Impact Assessment for UCSC Water Supply Well#1 (WSW#1).
- ———. 2019a (November 15). UCSC Spring and Stream Flow Monitoring, 2019 Water Year.
- ———. 2019b (June). 2018-2019 Annual Water Quality Monitoring Results, UCSC Campus Storm Water Management Program.

Section 3.11, "Land Use and Planning"

AMBAG. See Association of Monterey Bay Area Governments.

- Association of Monterey Bay Area Governments. 2018 (June 3). 2018 Regional Growth Forecast. Available: https://www.ambag.org/sites/default/files/2020-01/08-AMBAG_MTP-SCS_AppendixA_PDFA.pdf. Accessed June 3, 2020.
- ——. 2020. Regional Coordination. Available: https://ambag.org/about-us/regional-coordination. Accessed May 17, 2020.
- California Department of Finance. 2007. Report E-4: Historical City, County, and State Population Estimates, 1991-2000, with 1990 and 2000 Census Counts. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-4/1991-2000/. Accessed June 1, 2020.
- ———. 2020a. *Report E-1: Population Estimates for Cities, Counties, and the State*. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-1/. Accessed May 19, 2020.
- ———. 2020b. Report E-4: Population Estimates for Cities, Counties, and the State, 2011-2020, with 2010 Benchmark. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-4/2010-20/. Accessed May 19, 2020.
- ———. 2020c. Report E-5: Population Estimates for Cities, Counties, and the State. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-5/. Accessed May 19, 2020.
- California Employment Development Department. 2020. Santa Cruz County Employment by Industry. Available: https://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/localAreaProfileQSResults.asp?selectedarea=&sel ectedindex=&menuChoice=localAreaPro&state=true&geogArea=0604000087&submit1=View+the+Local+A rea+Profile. Accessed June 2, 2020.
- City of Santa Cruz. 2011 (September). City of Santa Cruz General Plan 2030 Draft EIR. Available: https://www.cityofsantacruz.com/government/city-departments/planning-and-community-development/long-range-policy-planning/general-plan/draft-eir-for-the-draft-general-plan-2030. Accessed August 18, 2020

- ———. 2012 (June). City of Santa Cruz 2030 General Plan.
- ———. 2016 (March). 2015-2023 Housing Element of the General Plan.
- DOF. See California Department of Finance.
- EDD. See California Employment Development Department.
- HUD. See U.S. Department of Housing and Urban Development.
- Santa Cruz County. 2016 (April). 2015 Santa Cruz County Housing Element. Available: http://sccoplanning.com/PlanningHome/Housing/HousingElement.aspx. Accessed July 1, 2020.
- UC. See University of California.
- UCOP. See University of California Office of the President.
- UC Santa Cruz. See University of California, Santa Cruz.
- University of California. No date. *Budget for Current Operations 2020-21*. Available: https://www.ucop.edu/operating-budget/_files/rbudget/2020-21-budget-detail.pdf. Accessed August 18, 2020.
- University of California Office of the President. 2018 (November 14). Update on the President's Student Housing Initiative. Available: https://regents.universityofcalifornia.edu/regmeet/nov18/b1.pdf. Accessed August 2020.
- University of California, Santa Cruz. 2020. Long Range Development Plan Draft.
- U.S. Department of Housing and Urban Development. 2019. Comprehensive Housing Market Analysis, Santa Cruz-Watsonville, California. Available: https://www.huduser.gov/portal/publications/pdf/SantaCruzCA-CHMA-19.pdf. Accessed November 2, 2020.

Section 3.12, "Noise"

- California Department of Transportation. 2013a. (September). *Transportation and Construction Vibration Guidance Manual*. Sacramento, CA: Noise, Division of Environmental Analysis. Available: http://website.dot.ca.gov/env/noise/docs/tcvgm-sep2013.pdf. Accessed April 7, 2020.
- ——. 2013b (September). *Technical Noise Supplement*. California Department of Transportation Division of Environmental Analysis. Sacramento, CA. Prepared by ICF Jones & Stokes, Sacramento, CA.
- Caltrans. See California Department of Transportation.
- City of Merced. 2009. *Merced Wal-Mart Distribution Center DEIR*. Available: https://www.cityofmerced.org/departments/development-services/planning-division/wal-mart-environmental-impact-report/-folder-1222. Accessed August 28, 2020.
- City of Santa Cruz. 2012. *City of Santa Cruz 2030 General Plan*. Available: https://www.cityofsantacruz.com/government/about-us/general-plan. Accessed May 20, 2020.
- County of Santa Cruz. 2020a. Santa Cruz County Code Chapter 8.30: Noise. Available: https://www.codepublishing.com/CA/SantaCruzCounty/#!/SantaCruzCounty08/SantaCruzCounty08.html. Accessed July 8, 2020.
- ———. 2020b. *Santa Cruz County Code Chapter 13.15: Noise Planning*. Available: https://www.codepublishing.com/CA/SantaCruzCounty/#!/SantaCruzCounty13/SantaCruzCounty1315.html#13 .15. Accessed October 20, 2020
- ———. 2020c. County of Santa Cruz General Plan Noise Element. Available: https://www.sccoplanning.com/PlanningHome/SustainabilityPlanning/GeneralPlan.aspx. Accessed May 20, 2020.
- EPA. See U.S. Environmental Protection Agency.

Federal Highway Administration. 2004. Traffic Noise Model, Version 2.5. Available: https://www.fhwa.dot.gov/environment/noise/traffic noise model/purchasing tnm/. Accessed August 20, 2020. 2006 (January). Roadway Construction Noise Model User's Guide. Washington, DC. Prepared by Research and Innovative Technology Administration, Cambridge, MA. Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment Manual. Washington, DC. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noiseand-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed January 23, 2020. FHWA. See Federal Highway Administration. FTA. See Federal Transit Administration. Governor's Office of Planning and Research. 2017 (October). State of California General Plan Guidelines. Sacramento, CA. Available: http://opr.ca.gov/docs/OPR_COMPLETE_7.31.17.pdf. Accessed February 21, 2020. Lennox. 2019 (March). 716ACX MERIT Series R-410A Two-Stage Compressor Product Specifications. Available: https://www.lennoxpros.com/docs/Technical/210873.pdf. Accessed February 21, 2020. OPR. See Governor's Office of Planning and Research. UC Santa Cruz. 2010. General Building Requirements. Available: https://ppc.ucsc.edu/consultants/standards.html. Accessed July 15, 2020. ———. 2017. Major Events Policy. Available: https://policy.ucsc.edu/policies/index.html. Accessed July 15, 2020. U.S. Environmental Protection Agency. 1971 (December). Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances. Washington, DC. Prepared by Bolt Baranek and Newman. WHO. See World Health Organization. World Health Organization. 1999 (April). Guidelines for Community Noise. Available: https://www.who.int/docstore/peh/noise/Comnoise-1.pdf. Accessed August 2020. Section 3.13, "Population and Housing" AMBAG. See Association of Monterey Bay Area Governments. Association of Monterey Bay Area Governments. 2018 (June 3). 2018 Regional Growth Forecast. Available: https://ambag.org/sites/default/files/documents/2018_Regional_Growth_Forecast_PDFA.pdf. Accessed June 3, 2020. 2020. Regional Coordination. Available: https://ambag.org/about-us/regional-coordination. Accessed May 17, 2020. California Department of Finance. 2007. Report E-4: Historical City, County, and State Population Estimates, 1991-2000, with 1990 and 2000 Census Counts. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-4/1991-2000/. Accessed June 1, 2020. –. 2019. Report E-5: Population and Housing Estimates for Cities, Counties, and the State, January 1, 2011-2019, with 2010 Benchmark. Available: http://dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed January 11, 2020. -. 2020a. Report E-1: Population Estimates for Cities, Counties, and the State. Available:

http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-1/. Accessed May 19, 2020.

-. 2020b. Report E-4: Population Estimates for Cities, Counties, and the State, 2011-2020, with 2010 Benchmark. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-4/2010-20/. Accessed May 19, 2020.

-. 2020c. Report E-5: Population Estimates for Cities, Counties, and the State. Available: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-5/. Accessed May 19, 2020. California Employment Development Department. 2020. Santa Cruz County Employment by Industry. Available: https://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/localAreaProfileQSResults.asp?selectedarea=&sel ectedindex=&menuChoice=localAreaPro&state=true&geogArea=0604000087&submit1=View+the+Local+A rea+Profile. Accessed June 2, 2020. City of Santa Cruz. 2011 (September). City of Santa Cruz General Plan 2030 Draft EIR. Available: https://www.cityofsantacruz.com/government/city-departments/planning-and-communitydevelopment/long-range-policy-planning/general-plan/draft-eir-for-the-draft-general-plan-2030. Accessed August 18, 2020 –. 2012 (June). City of Santa Cruz 2030 General Plan. ——. 2016 (March). 2015-2023 Housing Element of the General Plan —. n.d. Housing Strategy. Available: https://www.cityofsantacruz.com/government/city-departments/housingengagement. Accessed October 27, 2020. DOF. See California Department of Finance. EDD. See California Employment Development Department. HUD. See U.S. Department of Housing and Urban Development. San Francisco Chronicle. 2020a. 'Heartbreaking': Sonoma County homes rebuilt after fires could be just as vulnerable to flames. Available: https://www.sfchronicle.com/california-wildfires/article/Heartbreaking-Sonoma-Countyhomes-rebuilt-15538947.php. Accessed October 21, 2020. —. 2020b. Santa Cruz County lose almost 1,000 homes to CZU fire. Its housing crisis is now worse than ever. Available: https://www.sfchronicle.com/california-wildfires/article/Santa-Cruz-County-lost-almost-1-000homes-to-the-15611152.php. Accessed October 21, 2020. Santa Cruz County. 2020a (September 2). CZU Lighting Incident Damage Inspection Report CA-CZU-005205. -. 2020b. Vacation Rentals Map. Available: http://sccounty01.co.santacruz.ca.us/PlanningVacationRentals/Home/Map. Accessed October 21, 2020. Santa Cruz Sentinel. 2020. As hotel funds dry for fire survivors, a new housing crisis emerges. Available: https://www.santacruzsentinel.com/2020/10/24/as-hotel-funds-dry-for-fire-survivors-a-new-housing-crisisemerges/. Accessed October 29, 2020. UC. See University of California. UCOP. See University of California Office of the President. UC Santa Cruz. See University of California, Santa Cruz. University of California. No date. Budget for Current Operations 2020-21. Available: https://www.ucop.edu/operatingbudget/_files/rbudget/2020-21-budget-detail.pdf. Accessed August 18, 2020. University of California Office of the President. 2018 (November 14). Update on the President's Student Housing Initiative. Available: https://regents.universityofcalifornia.edu/regmeet/nov18/b1.pdf. Accessed August 2020. University of California, Santa Cruz. 2020a. Long Range Development Plan - Draft.

https://shr.ucsc.edu/applicant_resources/world_of_opportunities.html#:~:text=As%20the%20largest%20empl

oyer%20in,in%20non%2Dacademic%20positions%20alone. Accessed December 2, 2020.

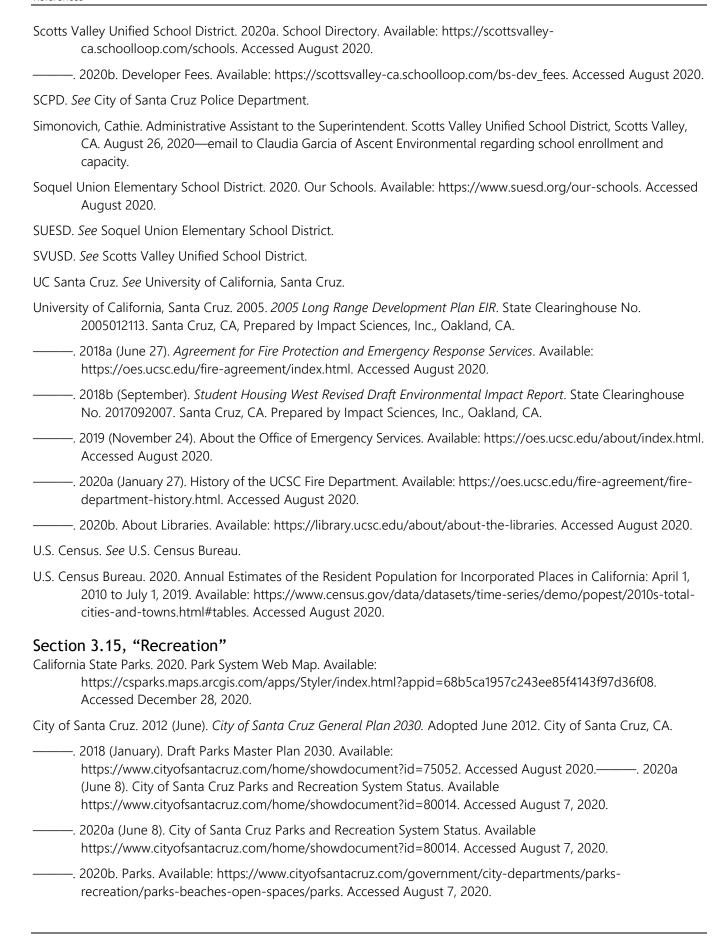
-. 2020b. A World of Opportunities at UC Santa Cruz. Available:

U.S. Department of Housing and Urban Development. 2019. Comprehensive Housing Market Analysis, Santa Cruz-Watsonville, California. Available: https://www.huduser.gov/portal/publications/pdf/SantaCruzCA-CHMA-19.pdf. Accessed November 2, 2020.

Section 3.14, "Public Services"

- City of Santa Cruz. 2011 (September). *General Plan 2030*. State Clearinghouse No. 2009032007. Santa Cruz, CA. Prepared by Strelow Consulting. CA.
- ———. 2012 (June). City of Santa Cruz General Plan 2030. Adopted June 2012. Santa Cruz, CA.
- City of Santa Cruz Police Department. 2020. Recruitment. Available: https://www.cityofsantacruz.com/government/city-departments/police/employment-new. Accessed August 12, 2020.
- Donovan, Katherine. Senior Planner. City of Santa Cruz, Advance Planning Division, Santa Cruz, CA. July 15, 2020 and August 12, 2020 emails to Erika Carpenter of UC Santa Cruz regarding police protection services to UC Santa Cruz.
- Ed-Data. 2020. Live Oak Elementary School. Available: https://www.ed-data.org/district/Santa-Cruz/Live-Oak-Elementary. Accessed August 2020.
- Live Oak School District. 2020a. Our schools. Available: https://www.losd.ca/apps/pages/index.jsp?uREC_ID=1551551&type=d&pREC_ID=1678985.Accessed August 2020.
- LOSD. See Live Oak School District.
- Mosher, Matthew. Environmental Scientist. California Department of Forestry and Fire Protection, Felton, CA. June 17, 2020—email to Erika Carpenter of UC Santa Cruz regarding fire protection services to UC Santa Cruz.
- Oatey, Rob. Division Chief. Santa Cruz Fire Department, Santa Cruz, CA. July 16, 2020—email to Erika Carpenter of UC Santa Cruz regarding fire protection services to UC Santa Cruz.
- Oweis, Nader. Chief of Police. University of California, Santa Cruz Police Department, Santa Cruz, CA. June 16, 2020 and August 4, 2020—email to Erika Carpenter of UC Santa Cruz regarding police protection services to UC Santa Cruz.
- Kyle, Stacey. Director of Special Projects, Research, and Evaluation. Live Oak School District, Santa Cruz, CA. August 27, 2020—email to Claudia Garcia of Ascent Environmental regarding student enrollment.
- Santa Cruz City Schools. 2016. Santa Cruz City Schools Secondary Capacities and Enrollment Current and Projected.

 Available:
 - http://sccs.net/UserFiles/Servers/Server_222705/File/Facilities/Ad%20Hoc%20Facilities%20Committee%20201 6/2016%20DecisionInsite%20Enrollment%20Projections%20.pdf. Accessed August 2020.
- ——. 2020a. Schools. Available: http://sccs.net/schools. Accessed August 2020.
- ——. 2020b. 2019-2020 California Basic Education Data System Enrollment Report. Available: http://sccs.net/workspaces/one.aspx?objectid=91696333&contextld=93629609. Accessed August 2020.
- ———. 2020c (February 19) 2020-21 Enrollment Projections. Available: http://sccs.net/workspaces/one.aspx?objectid=92513720&contextId=1005998. Accessed August 2020.
- ——. 2020d. Developer Fees. Available: http://sccs.net/community/developer_fees. Accessed August 2020.
- Santa Cruz County Sheriff's Office. 2018. Santa Cruz County Sheriff Annual Report. Available: https://www.scsheriff.com/Portals/1/County/sheriff/SCSO_Report_2018.pdf. Accessed August 2020.
- SCCS. See Santa Cruz City Schools.



UC Santa Cruz. 2005. Construction and Maintenance Policy. Available: https://physicalplant.ucsc.edu/PDFs/CandM.Policy2005.pdf. Accessed August 2020. —. 2016 (April 11). Measure 65. Available: https://opers.ucsc.edu/archived%20pages/referenda2016/measure-65.html. Accessed August 7, 2020. -. 2019. Recreation General Facility Policies. Available: https://recreation.ucsc.edu/facilities/policies.html. Accessed December 2020. —. 2020a (June 12). Arboretum and Botanic Garden. Available: https://arboretum.ucsc.edu/. Accessed August 2020. —. 2020b (March 16). UCSC Farm, Chadwick Garden, and Cowell Ranch Hay Barn. Available: https://casfs.ucsc.edu/about/facilities.html. Accessed August 2020. UCOP. See University of California Office of the President. University of California Office of the President. 2019 (December). BFB-BUS-29: Management and Control of University Equipment. Available: https://policy.ucop.edu/doc/3220477/BFB-BUS-29. Accessed December 2020. — 2020a. University of California Policy Process. Available: https://www.ucop.edu/ethics-compliance-auditservices/_files/policy-toolkit/policy-or-procedure.pdf. Accessed December 2020. —. 2020b. Operation and Maintenance. Available: https://www.ucop.edu/construction-services/facilitiesmanual/volume-6/vol-6-chapter-1.html#1-3. Accessed August 2020. Section 3.16, "Transportation, Circulation, and Parking" AMBAG. See Association of Monterey Bay Area Governments. Association of Monterey Bay Area Governments. 2018. 2040 Metropolitan Transportation Plan and the Sustainable Communities Strategy. Available: https://ambag.org/plans/2040-metropolitan-transportation-plan-sustainablecommunities-strategy. Accessed September 2, 2020. California Department of Transportation. May 20, 2020a. Vehicle Miles Traveled-Focused Transportation Impact Study Guide. Available: https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/sb-743/2020-05-20-approved-vmt-focused-tisg-a11y.pdf. Accessed September 2, 2020. -. July 2020b. Interim Land Development and Intergovernmental Review (LDIGR) Safety Review Practitioners Guidance. Available: https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/sb-743/2020-07-01-interim-Idigr-safety-guidance-a11y.pdf. Accessed September 2, 2020. California Transportation Commission. 2017. 2017 Regional Transportation Plan Guidelines for Metropolitan Transportation Planning Organizations. Available: https://dot.ca.gov/-/media/dotmedia/programs/transportation-planning/documents/f0009312-2017rtpguidelinesformpos-a11y.pdf. Accessed November 12, 2020. Caltrans. See California Department of Transportation. City of Santa Cruz. 2012 (June). City of Santa Cruz 2030 General Plan. Available: https://www.cityofsantacruz.com/home/showdocument?id=71130. Accessed September 2, 2020.

RTC. See Santa Cruz County Regional Transportation Commission.

—. 2017 (February 28). City of Santa Cruz Active Transportation Plan. Available:

Santa Cruz County. 1994. General Plan. Available:

http://www.sccoplanning.com/PlanningHome/SustainabilityPlanning/GeneralPlan.aspx. Accessed November 12, 2020.

https://www.cityofsantacruz.com/home/showdocument?id=60966. Accessed September 2, 2020.

- ———. 2020. February 18, 2020. *Santa Cruz County General Plan* Circulation Element. Available: https://www.sccoplanning.com/Portals/2/County/userfiles/106/GP_Chapter%203_Circulation.pdf. Accessed September 2, 2020.
- Santa Cruz County Regional Transportation Commission. 2018 (June). 2040 Santa Cruz County Regional Transportation Plan. Available: https://sccrtc.org/wp-content/uploads/2018/04/2040RTP/FinalDraft2040RTP.pdf. Accessed September 2, 2020.
- UCOP. See University of California Office of the President.
- University of California Office of the President. 2019. *Facilities Manual*. Available: https://www.ucop.edu/construction-services/facilities-manual/. Accessed September 2, 2020.
- ——. 2020. Sustainable Practices Policy. Available: https://policy.ucop.edu/doc/3100155/SustainablePractices. Accessed September 2, 2020.
- UCSC. See University of California, Santa Cruz.
- University of California, Santa Cruz. 2008 (November). *University of California, Santa Cruz 2008 Bicycle Plan*. Available: https://www.cityofsantacruz.com/home/showdocument?id=42113. Accessed September 2, 2020.
- ——. 2019. 2017 2022 Campus Sustainability Plan. Available: https://sustainabilityplan.ucsc.edu/campus-sustainability-plan/. Accessed September 2, 2020.
- University of California, Santa Cruz Police Department. 2013. *Traffic and Parking Regulations*. Available: https://police.ucsc.edu/services/parking/parkreg.html. Accessed September 2, 2020.

Section 3.17, "Utilities and Service Systems"

- California Department of Resources Recycling and Recovery. 2020. SWIS Facility/Site Activity Details City of Santa Cruz Resource Recovery Facility (44-AA-0001). Available: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1394?siteID=3417. Accessed August 23, 2020.
- CalRecycle. See California Department of Resources Recycling and Recovery.
- City of Santa Cruz. 2015. 2015 Urban Water Management Plan. Prepared by City of Santa Cruz Water Department. Santa Cruz, CA.
- ——. 2018 (June). Santa Cruz Regional Recycled Water Facilities Planning Study. Prepared by Kennedy/Jenks Consultants. San Francisco, CA.
- ——. 2020a. City of Santa Cruz Water Department. Annual Water Consumption University of California Santa Cruz 1986-2018.
- 2020b. Public Works Department. Wastewater System. Available:
 https://www.cityofsantacruz.com/government/city-departments/public-works/wastewater-treatment-facility.
 Accessed August 17, 2020.
- Nelson, Bob. City of Santa Cruz Resource Recovery Facility, Resource Recovery Operations Manager. July 15, 2020—email to Katherine Donovan, Senior Planner Advance Planning Division City of Santa Cruz.
- Santa Cruz Mid-County Groundwater Agency. 2019. Santa Cruz Mid-County Groundwater Basin Groundwater Sustainability Plan. Available: https://www.midcountygroundwater.org/sites/default/files/uploads/MGA_GSP_2019.pdf.
- Santa Margarita Groundwater Agency. 2020. Available: https://smgwa.org/background/sgma/.
- Sherwood Engineers. 2020 (November). UC Santa Cruz Long Range Development Plan Water Demand Projections Technical Memorandum.
- UC Santa Cruz. 2017 (December). Water Action Plan.

Reference
———. 2018. Student Housing West Project Revised Draft Environmental Impact Report. State Clearinghouse No. 2017092007. Santa Cruz, CA. Prepared by Impact Sciences, Inc., Oakland, CA.
———. 2020. UCOP Waste Data 2018-2019.
West Yost. 2020 (December). <i>UC Santa Cruz 2020 Long Range Development Plan Water Supply Evaluation</i> . Prepared for UC Santa Cruz.
Section 3.18, "Wildfire" Abatzoglou, J.T. and A.P. Williams. 2016 (October 16). Impact of anthropogenic climate change on wildfire across western U.S. forests. <i>Proceedings of the National Academy of Sciences</i> 113(42):11770-11775.
Balch, J. K., B. A. Bradley, J. T. Abatzoglou, R. C. Nagy, E. J. Fusco, and A. L. Mahood. 2017 (March 14). Human-started wildfires expand the fire nice across the United States. <i>Proceedings of the National Academy of Sciences</i> 114(11):2946-2951.
Board and CAL FIRE. See State Board of Forestry and Fire Protection and California Department of Forestry and Fire Protection.
CAL FIRE. See California Department of Forestry and Fire Protection.
California Department of Forestry and Fire Protection. 2007 (November 7). Santa Cruz County Fire Hazard Severity Zones in SRA. 1:100,000. Available: https://osfm.fire.ca.gov/media/6768/fhszs_map44.pdf. Accessed December 28, 2020.
———. 2019 (January). <i>Strategic Plan</i> . Available: https://www.fire.ca.gov/media/5504/strategicplan2019-final.pdf. Accessed August 2020.
———. 2020a. Homeowners Checklist How to Make Your Home Safe. Available: https://www.lakeshastina.com/Docs_PDFs/Checklist.pdf. Accessed October 15, 2020.
——. 2020b. CAL FIRE Stats and Events Available: https://www.fire.ca.gov/stats-events/. Accessed: October 15, 2020.
California Governor's Office of Emergency Services. 2017 (October 1). State of California Emergency Plan.
Cal OES. See California Governor's Office of Emergency Services.
Carey, H. and M. Schumann. 2003 (April). Modifying wildfire behavior – the effectiveness of fuel treatments. National Community Forestry Center. Southwest Region Working Paper.
City of Santa Cruz. 2018 (October 9). <i>Local Hazard Mitigation Plan</i> . Available: https://www.cityofsantacruz.com/home/showdocument?id=77162. Accessed October 15, 2020.
——. 2020a. Santa Cruz City CWPP. Available https://www.cityofsantacruz.com/home/showdocument?id=78236.

- 2020b. Reducing Wildfire Risk. Available: https://www.cityofsantacruz.com/government/citydepartments/fire-department/fire-prevention/residents-reducing-wildfire-risks. Accessed October 15, 2020.
- County of Santa Cruz. 2015 (October). Operational Area Emergency Management Plan. Available: http://www.co.santacruz.ca.us/Portals/0/County/OES/pdfs/DRAFTOPERATIONAL%20AREA%20EMERGENCY%20MANAGEMENT% 20PLAN%20%28EMP%29%202015pdf.pdf. Accessed August 2020.
- Johnson, M. C. and M.C. Kennedy. 2019. Altered vegetation structure from mechanical thinning treatments changed wildfire behaviour in the wildland-urban interface on the 2011 Wallow Fire, Arizona, USA. International Journal of Wildland Fire 28(3): 216-229.
- Kalies, E. and Yocom Kent, L. 2016. Tamm Review: Are fuel treatments effective at achieving ecological and social objectives? A systematic review. Forest Ecology and Management, 375, 84-95.

Accessed October 15, 2020.

- Kim, Y., W. Covington, P. Ervin, R. Fitch, E. L. Kalies, D. Rideout, K. Rollins, A. Sanchez-Meador, M. Taylor, D. Vosick, T. Wu, J. Yoder. 2013 (May). The Efficacy of Hazardous Fuel Treatments: A Rapid Assessment of the Economic and Ecologic Consequences of Alternative Hazardous Fuel Treatments. Northern Arizona University.
- Loudermilk, E. L., Stanton, A., Scheller, R. M., Dilts, T. E., Weisberg, P. J., Skinner, C., & Yang, J. 2014. Effectiveness of fuel treatments for mitigating wildfire risk and sequestering forest carbon: A case study in the Lake Tahoe Basin. *Forest Ecology and Management*, 323, 114–125.
- Lydersen, J. M., B.M. Collins, M.L. Brooks, J.R. Matchett, K.L. Shive, N.A. Povak, V.R. Kane, and D.F. Smith. 2017. Evidence of fuels management and fire weather influencing fire severity in an extreme fire event. *Ecological Applications* 27(7): 2013-2030.
- Mann, M.L. E. Batllori, M. A. Moritz, E. K. Waller, P. Berck, A. L. Flint, L. E. Flint, E. Dolfi. 2016 (April 28). Incorporating anthropogenic influences into fire probability models: effects of human activity and climate change on fire activity in California. PLoS One 11(4): e0153589.
- Martinson, E. J., and P.N. Omi. 2013. Fuel treatments and fire severity: a meta-analysis. Res. Pap. RMRS-RP-103WWW. Fort Collins, CO: US Department of Agriculture, Forest Service, Rocky Mountain Research Station. 38 p., 103.
- Prichard, S.J., D.L. Peterson, and K. Jacobson. 2010 (July 24). Fuel treatments reduce the severity of wildfire effects in dry mixed conifer forest, Washington, USA. *Canadian Journal of Forest Research* 40(8):1615-1626.
- Radeloff, Volker C. et al. 2018. Rapid Growth of the US Wildland-Urban Interface Raises Wildfire Risk. *Proceedings of the National Academy of Sciences* 115(13): 3314-3319.
- Restaino, C., D. Young, B. Estes, S. Gross, A. Wuenschel, M. Meyer, and H. Safford. 2019. Forest structure and climate mediate drought-induced tree mortality in forests of the Sierra Nevada, USA. *Ecological Applications* 29(4): e01902.
- Syphard, A. D., V. C. Radeloff, J. E. Keeley, T. J. Hawbaker, M. K. Clayton, S. I. Stewart, and R. B. Hammer. 2007. Human influence on California fire regimes. *Ecological Applications* 17(5):1388-1402.
- Syphard, A.D. and J.E. Keeley. 2015. Location, timing, and extent of wildfire vary by cause of ignition. *International Journal of Wildland* Fire 24(1): 37-47.
- Tubbesing, C. L., D.L. Fry, G.B. Roller, B.M. Collins, V.A. Fedorova, S.L. Stephens, and J.J. Battles. 2019. Strategically placed landscape fuel treatments decrease fire severity and promote recovery in the northern Sierra Nevada. Forest Ecology and Management 436, 45-55.
- UC Santa Cruz. See University of California, Santa Cruz.
- U.S. Forest Service. 2009 (July). Fuel Treatments, Fire Suppression, and their Interactions with Wildfire and its Effects:

 The Warm Lake Experience During the Cascade Complex of Wildfires in Central Idaho, 2007. General Technical Report RMRS-GTR-229. Fort Collins, CO.
- University of California, Santa Cruz. 2016. *Emergency Operations Plan*. Available: https://oes.ucsc.edu/emergency-preparedness/eop-11-2016.pdf. Accessed August 2020.
- ———. 2019. Campus Security and Fire Safety Report. Available: https://police.ucsc.edu/crime-prevention/fire-clery-2019.pdf. Accessed October 2020.
- ———. 2020. Long Range Development Plan Draft.
- University of Nevada. 2010 (October). Fire Adapted Communities: The Next Step in Wildfire Preparedness.
- Winford, E.M., J. T. Stevens, and H. D. Safford. 2015. Effects of fuel treatments on California mixed-conifer forests. California Agriculture 69: 75-81. http://dx.doi.org/10.3733/ca.v069n03p150.

Chapter 4, "Cumulative Impacts"

- California Air Resources Board. 2018. Maps of State and Federal Area Designations. Available: https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations. Accessed December 28, 2020.
- California Department of Conservation. 2019. Santa Cruz County 1984-2018 Land Use Summary. Available: https://www.conservation.ca.gov/dlrp/fmmp/Pages/SantaCruz.aspx. Accessed December 28, 2020.
- CARB. See California Air Resources Board.
- DOC. See California Department of Conservation.
- Santa Cruz County. 2017 (August). *Draft Environmental Impact Report Commercial Cannabis Cultivation and Manufacturing Regulations and Licensing Program*. Section 3.2, Agricultural and Timber Resources.
- ——. 2018. 2018 Crop Report. Prepared by the Office of the Agricultural Commissioner.
- Santa Cruz County Regional Transportation Commission. 2018. 2040 Regional Transportation Plan Chapter 7 (System Performance). Available: https://sccrtc.org/wp-content/uploads/2018/04/2040RTP/Chpt7.pdf. Accessed September 2, 2020.
- Santa Cruz County RTC. See Santa Cruz County Regional Transportation Commission.
- Searson, C. 2020 (August 11). Personal communication with Cynthia Searson, Engineering and Compliance Specialist, Monterey Bay Air Resources District, to Christopher Lovett of Ascent Environmental. Regarding odor complaints.
- Sempervirens Fund. 2020 (August). What Recovery Means for Big Basin and Santa Cruz Redwoods. Available: https://sempervirens.org/news/what-recovery-means-for-big-basin-and-santa-cruz-redwoods/. Accessed April 15, 2021.

Chapter 5, "Other CEQA Sections"

AMBAG. See Association of Monterey Bay Area Governments.

- Association of Monterey Bay Area Governments. 2018. 2018 Regional Growth Forecast. Available: https://ambag.org/sites/default/files/2020-01/08-AMBAG_MTP-SCS_AppendixA_PDFA.pdf. Accessed August 25, 2020.
- California Department of Finance. 2020. P-1. Total Estimated and Projected Population for California and Counties: July 1, 2010 to July 1, 2060 in 1-year Increments. Available: http://www.dof.ca.gov/Forecasting/Demographics/Projections/. Accessed August 25, 2020.
- DOF. See California Department of Finance.
- UC Santa Cruz. See University of California, Santa Cruz.
- University of California, Santa Cruz. 2019. The Annual Impacts of University of California Santa Cruz in 2017 and Over the Last 50 Years. Available: https://planning.ucsc.edu/budget/reports-overviews/ucsc_economic_impact_2019.pdf. Accessed August 30, 2020.

Chapter 6, "Alternatives"

AMBAG. See Association of Monterey Bay Area Governments.

- Association of Monterey Bay Area Governments. 2018. 2018 Regional Growth Forecast. Available: https://ambag.org/sites/default/files/2020-01/08-AMBAG_MTP-SCS_AppendixA_PDFA.pdf. Accessed August 25, 2020.
- California Department of Finance. 2019. Report E-5: Population and Housing Estimates for Cities, Counties, and the State, January 1, 2011-2019, with 2010 Benchmark. Available: http://dof.ca.gov/Forecasting/Demographics/Estimates/E-5/. Accessed January 11, 2020.

- DOF. See California Department of Finance.
- Fort Ord Cleanup. 2020. Munitions. Available: https://fortordcleanup.com/programs/munitions/. Accessed November 2020.
- Fort Ord Reuse Authority. 2001 (November). For Ord Reuse Plan Final Environmental Impact Report (State Clearinghouse No. 96013022). Available: https://www.fora.org/Reports/BRP/BRP_v4_FinalEIR_1997.pdf. Accessed November 2020.
- Marina Coast Water District. n.d. *Urban Water Management Plan Planning for the Future*. Available: https://www.mcwd.org/docs/conservation/18556-06%20MCWD16%20UWMP%20Infographic-06.pdf. Accessed November 12, 2020.
- Monterey County. 2006. Scenic Highway Corridors and Visual Sensitivity Map. Available: https://www.co.monterey.ca.us/Home/ShowDocument?id=45072. Accessed September 1, 2020.
- ———. 2008. Monterey County 2007 General Plan Environmental Impact Report. Available: https://www.co.monterey.ca.us/home/showdocument?id=43978. Accessed November 13, 2020.
- UC Santa Cruz. See University of California, Santa Cruz.
- University of California, Santa Cruz. 2011. UC Monterey Bay Education, Science, and Technology Center Visioning Process. Available: http://www.fora.org/Reports/FinalVisionRpt12-05-11.pdf. Accessed September 1, 2020.
- US Army Corps of Engineers. 2002. Final Interim Action Ordnance and Explosives Remedial Investigation/Feasibility Study for Ranges 43-48, Range 30A, Site OE-16 Former Fort Ord California. Available: https://docs.fortordcleanup.com/ar_pdfs/AR-OE-0332JJ/f_ia_oe_rifs_complete.pdf. Accessed November 2020.