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The Newhall Land And Farming Company, "Draft Section 2081 Incidental Take Permit Application for Multiple Species - Resource Management and Development Plan - Newhall Ranch Project" (May 9, 2008).

The Newhall Land And Farming Company and California Department of Fish and Game, "Correspondence and Documentation Relating to the Draft Section 2081 CESA Incidental Take Permit for San Fernando Valley Spineflower - Newhall Land Spineflower Conservation Plan" (May and June 2008).

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California Court of Appeal, Second District, Division Four, "*Friends of the Santa Clara River v. Castaic Lake Water Agency*, Appellate No. B164027" (December 1, 2003).

California Court of Appeal, Second District, Division Six, "*Santa Clarita Organization for Planning the Environment v. County of Los Angeles* (2007) 157 Cal.App.4th 149" (2007).

California Court of Appeal, Second District, Division Three, "*Sierra Club, et al. v. City of Santa Clarita, et al.*, Case No. B194771" (January 2008).

California Department of Water Resources, "Bulletin 132-04, Management of the California State Water Project" (September 2005).

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Castaic Lake Water Agency, "Letter to Los Angeles County Department of Regional Planning regarding the Availability of Future Water Supply in the Santa Clarita Valley" (February 5, 2008).

Castaic Lake Water Agency, "Memorandum regarding Engineering and Operations Department Report" (February 2, 2009).

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CH2MHill, "Analysis of Perchlorate Containment in Groundwater Near the Whittaker-Bermite Property, Santa Clarita, California" (December 2004).

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CH2MHill, "Technical Memorandum No. 6, January 2007 Groundwater Monitoring Event, Eastern Santa Clara Subbasin Groundwater Study, Santa Clarita, California" (August 2007).

Geomatrix, "Letter to the Department of Toxic Substances Control Regarding the Former Whittaker-Bermite Facility, Santa Clarita, CA -- Summary Report for Month of November 2007" (January 15, 2008).

GSI Water Solutions, Inc., "Technical Memorandum, Water Demand Update for Newhall Ranch" (September 24, 2008).

Los Angeles County Superior Court, "Judgment Granting Peremptory Writ of Mandate, *Friends of the Santa Clara River v. Castaic Lake Water Agency*, Case No. BS056954" (October 25, 2002).

Los Angeles County Superior Court, "*Sierra Club, et al. v. City of Santa Clarita*, Case No. BS 098722" (August 14, 2006).

Los Angeles County Superior Court, "Statement of Decision, *California Water Impact Network v. Castaic Lake Water Agency*, Case No. BS 098724" (April 2, 2007).

Luhdorff & Scalmanini Consulting Engineers, "2007 Santa Clarita Valley Water Report" (April 2008).

Luhdorff & Scalmanini Consulting Engineers, "Evaluation of Groundwater Recharge Methods for the Saugus Formation in the Newhall Ranch Specific Plan Area" (March 2006).

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Office of the Governor, Arnold Schwarzenegger, "Press Release: Gov. Schwarzenegger Directs Immediate Actions to Improve the Deteriorating Delta, California's Water Supply" (July 17, 2007).

Santa Barbara County Superior Court, "*Santa Clarita Organization for Planning the Environment v. County of Los Angeles*, Case No. 1043805" (January 6, 2006).

United States District Court, Eastern District of California, "*Natural Resources Defense Council v. Kempthorne*, 506 F.Supp.2d 322 (E.D. Cal. 2007)" (2007).

United States District Court, Eastern District of California, "*Pacific Coast Federation of Fishermen's Associations, et al. v. Gutierrez, et al.*, No. 06-CV-00245-OWW-GSA (E.D. Cal. 2008)" (2008).

United States Environmental Protection Agency, "Perchlorate Update" (March 2002).

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ENTRIX, Inc., "Focused Special-Status Aquatic Species Assessment—Santa Clara River, Mission Village Project, Newhall Ranch, California" (2006; 2006A).

ENTRIX, Inc., "Focused Special-Status Aquatic Species Assessment—Santa Clara River, Landmark Village Project, Newhall Ranch, California" (2006; 2006B).

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Glenn Lukos Associates, Inc. and Sapphos Environmental, Inc., "Biology of the San Fernando Valley Spineflower, Ahmanson Ranch, Ventura County, California" (2000).

Guthrie, D.A., "Status of the Least Bell's Vireo along the Santa Clara River and Its Tributaries near Valencia, California, Spring 1988" (1988).

Guthrie, D.A., "Status of the Least Bell's Vireo along the Santa Clara River and Its Tributaries near Valencia, California, Spring 1989" (July 5, 1989).

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Guthrie, D.A., "Surveys along Castaic Creek for least Bell's Vireo" (1991; 1991B).

Guthrie, D.A., "Bird Surveys along the Santa Clara River and Its Tributaries near Valencia, California" (1992).

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Haglund, T.R., "Current Status of the Unarmored Threespine Stickleback (*Gasterosteus aculeatus williamsoni*) along Portions of the Santa Clara River Drainage" (1989).

Haglund, T.R., and J.N. Baskin, "Fish and Wildlife Survey and Habitat Assessment of the Santa Clara River at Interstate 5" (October 2000).

Impact Sciences, Inc., "North Valencia Annexation Buffer Study" (April 28, 1997).

Impact Sciences, Inc., "Results of Focused Surveys for the Coastal California Gnatcatcher, ±156-Acre Project Site, Santa Clarita, Los Angeles County, California" (July 7, 2000).

Impact Sciences, Inc., "Results of Focused Surveys for Arroyo Toad and Special-Status Aquatic Reptiles and Amphibians within the Natural River Management Plan Area, Valencia, California" (September 19, 2001).

Impact Sciences, Inc., "Results of Focused Surveys for Arroyo Toad and Special-Status Aquatic Reptiles and Amphibians, Newhall Ranch, Valencia, California" (May 21, 2002).

Impact Sciences, Inc., "Results of Focused Surveys for Unarmored Threespine Stickleback and Other Special-Status Fish Species; Newhall Ranch, Valencia, California" (January 24, 2003; 2003A).

Impact Sciences, Inc., "Results of Focused Surveys for Unarmored Threespine Stickleback and Other Special-Status Fish Species; Natural River Management Plan Area, Valencia, California" (June 2003; 2003B).

Impact Sciences, Inc., "Annual Status Report for Unarmored Threespine Stickleback within the Natural River Management Plan Area, Valencia, California" (October 1, 2003; 2003C).

Impact Sciences, Inc., "Results of Focused Surveys for Unarmored Threespine Stickleback and Other Special-Status Fish Species; Castaic Mesa, Castaic Creek, Los Angeles County, California" (June 2003; 2003D).

Impact Sciences, Inc., "Assessment and Survey of Mammals within the Newhall Ranch Specific Plan Area, Los Angeles County, California" (May 2005).

Impact Sciences, Inc., "2004 and 2006 Reptile Survey Results, Newhall Ranch Specific Plan Area, Los Angeles County, California" (October 2006; 2006A).

Impact Sciences, Inc., "Newhall Ranch Oak Tree Survey" (2006; 2006B).

Impact Sciences, Inc., "Mission Village Oak Tree Report, Los Angeles County, California" (December 2006; 2006C).

Impact Sciences, Inc., "Landmark Village Planning Area Oak Tree Report, Los Angeles County, California" (September 2006; 2006D).

Johnson, H.L., "Bat Survey; August 7–10, 2006 for the Newhall Ranch, Valencia, California" (October 10, 2006).

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Jones, C.E., S. Walker, F. Shropshire, R. Allen, D. Sandquist, and J. Luttrell, "Newhall Ranch Investigation of the San Fernando Valley Spineflower, *Chorizanthe parryi* var. *fernandina* (S. Watson) Jepson" (2004).

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Labinger, Z. and J. Greaves, "Results of 1998 Avian Surveys and Least Bell's Vireo Monitoring: Restoration Phase of the ARCO/Four Corners January 17, 1994 Oil Spill on the Santa Clara River, California" (March 1, 1999; 1999A).

Labinger, Z., J. Greaves, and D. Haupt, "Preliminary Results of Avian Surveys Following the January 17, 1994, ARCO/Four Corners Oil Spill on the Santa Clara River, California" (1995).

Labinger, Z., J. Greaves, and D. Haupt, "Results of 1995 Avian Surveys following the January 17, 1994, ARCO/Four Corners Oil Spill on the Santa Clara River, California" (January 17, 1996).

Labinger, Z., J. Greaves, and D. Haupt, "1996 Avian Survey Results following the ARCO/Four Corners Oil Spill (January 17, 1994) on the Santa Clara River, California" (January 9, 1997: 1997A).

Labinger, Z., J. Greaves, and D. Haupt, "Results of 1997 Avian Surveys and Least Bell's Vireo Monitoring: Restoration Phase of the ARCO/Four Corners January 17, 1994, Oil Spill on the Santa Clara River, California" (November 30, 1997; 1997B).

Land Design Consultants, "Entrada Oak Tree Report" (February 2007).

Lemons, P., "Focused California Gnatcatcher Surveys for Mission Village, Los Angeles County, California" (January 26, 2008).

Magney, D.L., and S. Hoskinson, "Landmark Village Draft EIR (SP 00-198/VTTM No. 53108/RCUP 200500112/OTP 00196/CUP 00-196)" (January 30 2007).

Niemela, C., "Memo from C. Niemela (Bloom Biological) to Jesse Grantham (USFWS) regarding observations of California condor in Potrero Canyon in January 2009" (March 11, 2009).

Olson, G., "Letter containing comments on the Draft Environmental Impact Report for Landmark Village" (January 19, 2007).

Ortega, B., "Del Valle Training Center Access Road Maintenance Project—California Gnatcatcher Monitoring, County of Los Angeles, California" (October 3, 2008).

PCR (Planning Consultants Research), "Results of Focused California Gnatcatcher Surveys for the West Creek/East Creek Project Site, Valencia, Los Angeles County" (August 25, 1998).

Priest, J., "Documentation of California Gnatcatcher Observation at Newhall, Valencia Commerce Center Project on 10/5/07" (October 8, 2007; 2007A).

Priest, J., "Focused California Gnatcatcher Survey, Landmark Village Project, Los Angeles County, California" (July 9, 2007; 2007B).

RECON, "Survey for Arroyo Southwestern Toad for Newhall Ranch" (1999; 1999A).

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RECON, "Santa Clara River Corridor Habitat Assessment for Newhall Ranch" (1999; 1999B).

RECON, "Quino Checkerspot Butterfly Habitat Assessment for Phase 1 Development and Permit Areas of Newhall Ranch" (1999; 1999C).

RECON and Impact Sciences, Inc. "Biota Report: Newhall Ranch Specific Plan; Santa Clara River Valley, California; Tentative Tract Map 44831" (July 1996).

Richard Johnson & Associates (RJA), Inc., "Arborist Survey Report for Valencia Commerce Center VTPM 18108, Los Angeles County, California" (April 3, 2007).

SAIC (Science Applications International Corporation), "Results of Focused Coastal California Gnatcatcher Surveys for the Stevenson Ranch Phase V Project Site, Los Angeles, California" (September 3, 2003).

Sandburg, N.H., "Field Summary of Santa Clara River Surveys for Bufo californicus and Rana aurora draytonii, May 8 through May 29, 2001" (June 6, 2001).

SMEA (San Marino Environmental Associates), "Two-Striped Garter Snake Data" (1994; 1994A).

SMEA (San Marino Environmental Associates), "Southwestern Pond Turtle Data" (1994; 1994B).

SMEA (San Marino Environmental Associates), "Sensitive Aquatic Species Survey; Santa Clara River and San Francisquito Creek; Newhall Land and Farming Company Property; Los Angeles" (1995; 1995A).

SMEA (San Marino Environmental Associates), "Rare Plant and Animal Survey; Santa Clarita Water District Service Area" (1995; 1995B).

Swift, C.C., "Summary of the recent reconnaissance survey work conducted to detect freshwater snail presence in selected aquatic habitat locations on Newhall Ranch" (April 7, 2009).

URS, "Results of 2000 Rare Plant Surveys on Newhall Ranch" (2002).

White and Leatherman BioServices, "Results of Arroyo Toad Habitat Assessment at Tesoro del Valle" (July 18, 2000).

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The Newhall Land And Farming Company and U.S. Department of Defense, Army Corps of Engineers, "Correspondence Relating to Amendment to Jurisdiction Delineation Package, Newhall Ranch Project, for a Portion of the Santa Clara River and Its Tributaries, Los Angeles County, California" (February and July 2004).

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URS, "Composite Wetland Delineation for the Newhall Ranch Resource Management and Development Plan Site and Entrada Planning Area" (2009).

URS, "Delineation of CDFG Jurisdictional Streambeds within the Valencia Commerce Center Planning Area" (November 21, 2008; 2008b).

URS, "Draft Hybrid Assessment of Riparian Condition for the Newhall Ranch Resource Management and Development Plan, Valencia, California" (October 10, 2008; 2008a).

URS, "Jurisdiction Delineation, Newhall Ranch Project, for a Portion of the Santa Clara River and Its Tributaries, Los Angeles County, California" (December 2003).

URS, "Preliminary Jurisdictional Determination for the Newhall Ranch Resource Management and Development Plan Site and Entrada Planning Area, Los Angeles County, California" (2009).

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Impact Sciences, Inc., "Construction Emissions: Grading and Improvements Emissions, Indirect Emissions" (2008).

Impact Sciences, Inc., "Construction Emissions: Summary of Unmitigated Emissions, Direct and Indirect" (2008).

Impact Sciences, Inc., "Construction Emissions: URBEMIS2007 Building Construction Emissions" (April 15, 2008).

Impact Sciences, Inc., "Construction Health Risk Assessment for the Newhall Ranch Resource Management and Development Plan and Specific Plan" (April 2008).

Impact Sciences, Inc., "Localized Significance Threshold Analysis for the Newhall Ranch Resource Management and Development Plan and Specific Plan" (April 2008).

Impact Sciences, Inc., "Operational Emissions with Mitigation: Summary of Alternatives with Entrada and VCC" (April 2008).

Impact Sciences, Inc., "Operational Emissions: Summary of Alternatives with Entrada and VCC" (2008).

Impact Sciences, Inc., "Operational Emissions: Unmitigated and Mitigated Summary of Alternatives for Entrada and VCC" (2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Entrada Alternative 2" (March 10, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Entrada Alternative 3" (March 31, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Entrada Alternative 4" (March 31, 2008).

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Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Entrada Alternative 6" (March 31, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Entrada Alternative 7" (March 31, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 2" (March 5, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 3" (March 5, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 4" (March 5, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 5" (March 5, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 6" (March 10, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and Operational Emissions, Newhall Ranch Alternative 7" (March 10, 2008).

Impact Sciences, Inc., "Operational Emissions: URBEMIS2007 Area and operational Emissions, VCC" (March 10, 2008).

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Austin-Foust Associates, Inc., "I-5 PA&ED HOV and Truck Lanes -- SR-14 to Parker Road Traffic Study" (October 2007).

Austin-Foust Associates, Inc., "Newhall Ranch RMDP and SCP EIR/EIS Traffic Analysis" (December 2008).

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Austin-Foust Associates, Inc., "Newhall Ranch Supplemental Traffic Analysis: Ventura County Impact Analysis" (February 2001).

Austin-Foust Associates, Inc., "Newhall Ranch Traffic Analysis" (January 1999).

California Department of Transportation, District 7 Office of Advance Planning, System Planning Unit, "Transportation Concept Report" (November 1998).

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Impact Sciences, Inc., "Alternative 4, Distances to Contours from Centerline: Alternative 4, and Predicted Alternative 4 Cumulative Roadway Noise Levels at Noise Sensitive Locations" (September 2007).

Impact Sciences, Inc., "Alternative 5, Distances to Contours from Centerline: Alternative 5, and Predicted Alternative 5 Cumulative Roadway Noise Levels at Noise Sensitive Locations" (September 2007).

Impact Sciences, Inc., "Alternative 6, Distances to Contours from Centerline: Alternative 6, and Predicted Alternative 6 Cumulative Roadway Noise Levels at Noise Sensitive Locations" (September 2007).

Impact Sciences, Inc., "Alternative 7, Distances to Contours from Centerline: Alternative 7, and Predicted Alternative 7 Cumulative Roadway Noise Levels at Noise Sensitive Locations" (September 2007).

Impact Sciences, Inc., "Existing Noise Levels: Existing (2006) Modeled Off-Site Roadway Noise Levels at Noise Sensitive Locations" (June 2007).

Impact Sciences, Inc., "Noise Monitoring Results: January 21, 2004 Noise Monitoring (Location 1); May and June 2005 Noise Monitoring (Locations 2-8); September 2005 Noise Monitoring (Locations 9-11); and, December 2006 Noise Monitoring (Locations 12-18)" (2004-2006).

Impact Sciences, Inc., "Traffic Input Data for Alternatives D-3 Through D-7" (August 2007).

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The Newhall Land And Farming Company and Fernandeño Tataviam Band of Mission Indians, "Memorandum of Agreement" (2007).

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California Resources Agency, "Memorandum Regarding Resources Agency Policy On Projects Involving Agricultural Land" (May 4, 2005).

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Allan E. Seward Engineering Geology, Inc., "Geology/Geotechnical Report" (January 2005).

Allan E. Seward Engineering Geology, Inc., "Preliminary Geologic and Geotechnical Report" (October 2007).

County of Los Angeles Department of Regional Planning, "Valencia Commerce Center Environmental Impact Report, Geotechnical Information" (April 1990).

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R.T. Frankian & Associates, "Report of 100-Scale Plan Review, Vesting Tentative Tract Map No. 53295, Valencia, California" (March 2005).

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Dudek, "CDFG Streambed Projects" (2008).

URS, "Supporting Data for Cumulative Agricultural Resources Discussion" (December 2008).

U.S. Department of Defense, Army Corps of Engineers, "Corps 404 Permits" (2008).

U.S. Fish and Wildlife Service, "Federal Biological Opinions, Santa Clara Watershed" (2007).

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Austin-Foust Associates, Inc., "Westside Santa Clarita Valley Roadway Phasing Analysis" (November 2006).

ENVIRON, "Climate Change Technical Report: Resource Management and Development Plan and Spineflower Conservation Plan" (February 2009).

GSI Water Solutions, Inc., "Technical Memorandum Regarding Potential Effects of Climate Change on Groundwater Supplies for Newhall Ranch Specific Plan, Santa Clarita Valley, California" (March 18, 2008).

Impact Sciences, Inc., "Global Climate Change And Its Effects On California Water Supplies" (February 2009).

Impact Sciences, Inc., "Global Climate Change And Its Effects On Sensitive Biological Resources" (February 2009).

The Newhall Land and Farming Company, "Sustainability in Action: Landmark Village" (2007).