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8 SUPERIOR COURT OF THE STATE OF CALIFORNIA
9 FOR THE COUNTY OF RIVERSIDE
10 RIVERSIDE HISTORIC COURTHOUSE

11 Coordination Proceeding Special Title
(Cal. Rules of Court, Rule 3.550)

JCCP No. 5265
Case No. CIV 208568

12 MOJAVE BASIN WATER CASES

Judge: Hon. Craig G. Riemer
Dept: 1

13 CITY OF BARSTOW,

14 Plaintiff,

15 vs.

16 CITY OF ADELANTO, et al.,

17 Defendant.
18

**DECLARATION OF W. RICHARD LATON
IN SUPPORT OF NEWBERRY SPRINGS
RECREATIONAL LAKES
ASSOCIATION'S OPPOSITION TO
MITSUBISHI CEMENT CORPORATION'S
NOTICE OF MOTION AND MOTION TO
SELECT HYDROLOGIC BASE PERIOD
OF 1995-2024**

19 AND RELATED CROSS ACTIONS
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*[Filed concurrently with Opposition to
Mitsubishi's Notice of Motion and Motion to
Select Hydrologic Base Period of 1995-2024 and
Memorandum of P's and A's; Jungreis
Declaration]*

Date: March 18, 2026
Time: 8:30 a.m.
Dept: 1

Reservation No.: Per Court Order 2/20/2026

Date: February 20, 2026
Time: 8:30 am
Dept: 1

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DECLARATION OF W. RICHARD LATON

I, W. Richard Laton, declare as follows:

1. I am the Principal Hydrogeologist and President/Owner of Earth Forensics, Inc. I am an expert in geology, hydrology, hydrogeology, environmental contamination, and contaminated site investigations. I possess extensive knowledge and experience in the areas of hydrogeology, soil and water contamination, water quality, corrective action, hydrology and surface water, site assessment, site investigation, site remediation, wetlands, coastal monitoring/geomorphology, environmental field sampling techniques, and well hydraulics, waste management, as well as environmental remote sensing, aerial photographic interpretation/analysis and geographical information system (GIS). See Curriculum Vitae of W. Richard Laton, a true and correct copy of which is enclosed herewith as **Exhibit 1**.

2. My educational background that relates to this case is as follows: 1997 – Ph.D. in Hydrogeology, Western Michigan University; 1992 – M.S. in Environmental Earth Science, Western Michigan University; 1989 – B.A. in Earth Science, St. Cloud State University, Minnesota.

3. I am a licensed Professional Geologist in California, Alaska, Arizona, Illinois, Indiana, Florida, Minnesota, New York, North Carolina, Oregon, Pennsylvania, Texas and Washington. I am also a licensed Professional Hydrogeologist in both California and Washington. I am a Certified Professional Geologist with the American Institute of Professional Geologists and a Certified Professional Geologist for the European Union.

4. I am a Professor of Hydrogeology in the Department of Geological Sciences at California State University, Fullerton, California where I've taught hydrogeology and related disciplines since 1999. My experience and expertise as a professor include years of teaching, consulting, litigation support, and management in hydrology and hydrogeology. My course topics include hydrogeology, water quality, environmental sampling, groundwater modeling, well hydraulics, remediation technologies, RCRA/CERCLA compliance and cleanups, meteorology, oceanography, geology, drilling and well construction, field hydrogeology, borehole geophysics, and surface geophysics. Through my years of experience and providing instruction, I have

1 extensive knowledge and understanding of groundwater and surface water relationships,
2 particularly in Southern California and the Mojave Basin.

3 5. I have worked as a consultant and researcher within the Mojave River/Groundwater
4 Basins and Sub-basins ("*Mojave Basin*"), including the Baja sub-basin, where I have conducted
5 various monitoring and sampling of groundwater and geology. My experience in the Mojave
6 Basin includes research conducted for and on behalf of the Mojave Water Agency ("*Agency*" or
7 "*MWA*") to develop conceptual basin models and to map the geological and hydrogeological
8 features of the Mojave Basin. Additional work, which I reviewed and commented upon, was
9 performed by the Agency to determine groundwater flow between basins and whether, if any,
10 changes had occurred at the time of the Agency's studies. This overall research, as detailed in my
11 CV, resulted in no fewer than 16 public reports, multiple peer-reviewed papers, 18+ presentations,
12 and 12+ theses on conditions and hydrogeology in the Mojave Basin. Consulting efforts have
13 included, but are not limited to, the evaluation of blowing sand and its impacts on resources,
14 groundwater replenishment from mountain-front recharge and surface flow, and site-specific
15 evaluations for water resource supplies in various subbasins in the Mojave Basin.

16 6. I have been retained by Newberry Springs Recreational Lake Association
17 ("*NSRLA*") as an expert for the purpose of providing expert opinions on the issues discussed
18 herein, which primarily pertain to the Alto Transition Zone, Centro sub-basin, and Baja sub-basin,
19 and the dearth of relevant data that is currently appropriate for use in establishing an alternative
20 baseline as proposed in Mitsubishi and Watermaster's respective motions. I have reviewed both
21 the Mitsubishi and Watermaster motions filed on February 24, and it is my opinion that the base
22 periods requested in both are scientifically improper at this time for the Baja Sub-basin.

23 7. The motion by MWA to change the hydrologic base period for Production Safe
24 Yield (PSY) and Free Production Allowance ("*FPA*") calculations in the Mojave Basin Area from
25 the current baseline period of 1931-1990 to a proposed 2001-2020 is premature in the Baja sub-
26 basin because there is simply not enough data to determine whether the current base period is
27 appropriate in the Baja sub-basin, nor whether a different base period would better reflect current
28 conditions in the aquifer and water sources that replenish it. Mitsubishi's motion suffers from the

1 same flaws with regard to the Baja sub-basin, at least until such time as MWA's data gathering
2 and modeling efforts to better understand the relationship between the Baja and Centro sub-basins
3 are completed.

4 8. Reasons Why the Proposed Adjustments to the Base Period Are Not Reasonable or
5 Appropriate Given Current Conditions and the Dearth of Data in the Baja sub-basin. The
6 proposed new base periods proposed by both Watermaster and Mitsubishi are inappropriate for
7 several reasons.

8 a. First, as shown in the enclosed map and associated tables depicting seven
9 Baja sub-basin wells, and their corresponding water levels, groundwater levels in the Baja sub-
10 basin have been steadily increasing over the past 4-5 years, making the reductions in PSY that
11 would potentially follow from adopting either the Watermaster or Mitsubishi Base Periods (both
12 of which would result in approximately a 30% reduction in the PSY Base Period in Baja) illogical
13 and unsupported by the best and most current information about the Baja sub-basin. Enclosed
14 herewith as **Exhibit 2** is a true and correct copy of a map I prepared of the Baja sub-basin. It
15 includes a plot of seven Baja sub-basin groundwater wells and tables showing recent groundwater
16 level measurements for each of the seven wells depicted on the map. It defies logic and good
17 scientific principles to potentially reduce safe yield by 30% or more in the Baja sub-basin at the
18 same time as groundwater levels are increasing, while at the same time approving a revised base
19 period that would increase safe yield in the sub-basin immediately upstream, Centro, by nearly 40
20 percent. Yet, as illustrated in the table that NSRLA's Mr. Jeff Gaastra and I prepared, entitled
21 "*PSY Base Period Recalculation*," a true and correct copy of which is enclosed herewith as
22 **Exhibit 3**, adopting either Watermaster or Mitsubishi's proposed base period would potentially
23 result in such an anomalous outcome in two subbasins that are immediately adjacent to each other.
24 Compounding this incongruity is the fact that, as Watermaster's expert Mr. Wagner recognizes in
25 his declaration at pages 13-14, Watermaster's data in the Baja sub-basin is limited in the area of
26 streamflow between the Centro and Baja sub-basins, and Mr. Wagner admits that "*the only*
27 *reliable data available is pumping and water level measurements (which show recent recovery)*".
28 Mr. Wagner is correct in this regard. The degree to which water travels between the Centro and

1 Baja sub-basins is poorly understood, owing in part to the poor reliability of the Barstow Stream
2 Gage, which, for many years, was the only gage available to measure the flows leaving Centro and
3 replenishing the Baja sub-area. The Barstow Gage is located in a wide area of the Mojave River
4 that does not always measure outgoing flows when water is in the thalweg, and, compounded by
5 its poor location, the gage has not been well-maintained over the years. The new gage at Daggett,
6 is better, but it has only been in operation since approximately 2023. Thus, the new proposed
7 baselines do not appear well calibrated to the ground conditions, particularly in the Baja sub-basin,
8 and it is simply not possible to extrapolate what Watermaster has observed at the Forks to
9 recharge conditions in both the Centro and Baja sub-basins.

10 b. Second, as demonstrated in the exhibit entitled Historical Annual Stream
11 Gage Flow Data that I prepared after reviewing stream gage data in the Mojave Basin between
12 1909 and 2025, a true and correct copy of which is enclosed herewith as **Exhibit 4**, it takes a very
13 wet year for stream flow to actually reach the Baja sub-basin, if the then existing gages were even
14 able to detect the flows. Unlike the upper Mojave Basin, in sub-basins such as Alto that receive
15 Mojave River flows nearly every year, surface flows to the Baja sub-basin are infrequent.
16 However, in the very wet years when they do arrive, they can dramatically raise groundwater
17 levels, enabling greater pumping. Thus, by removing nearly sixty years of data from the Base
18 Period, an extended period that included numerous wet years, the Baja sub-basin loses out on
19 numerous years where there was significant replenishment of the Baja sub-basin. Given the
20 importance of the original base period in determining how much water potentially replenishes the
21 Baja sub-basin, the better approach, if the Court desires to order a change prior to the completion
22 of Watermaster's model, would be for the Court to simply extend the original base period through
23 2026 rather than selecting the more limited snapshots in time recommended by Watermaster and
24 Mitsubishi.

25 c. Third, both motions fail to consider the impact of water rights transfers and
26 land use changes in the Baja sub-basin that have reduced overall groundwater production, likely
27 on a permanent basis. The purpose of calculating PSY is to provide an estimate of the mean
28 annual amount of groundwater that can be pumped without causing a long-term net change in

1 groundwater storage. If groundwater levels are already on the rise, using the historic base period,
2 imposing a new base period based on a period of relative dryness in other upstream sub-basins
3 would not seem to accurately reflect the current hydrologic and cultural conditions in the Baja
4 sub-basin. This will likely lead to an unnecessarily restrictive PSY calculation in the Baja sub-
5 basin while authorizing pumping that may cause groundwater levels to drop in other sub-basins,
6 such as the immediately adjacent Centro sub-basin, which would potentially be authorized an
7 additional 10,000 acre-feet (AF) of pumping if either of the motions before the Court is approved.
8 Indeed, the Watermaster’s Motion appears to acknowledge the potential incongruity of its
9 proposed new base period in the Baja sub-basin, observing that an appropriate hydrologic base
10 period should include “*recent cultural conditions*” such as “*patterns of groundwater production,*
11 *consumptive uses, and other relevant factors,*” (Watermaster Motion at p.11), but then seemingly
12 ignores these factors with its proposed revisions to the Base Period that are primarily tied to
13 changes observed by Watermaster at the Forks. By NSRLA acquiring water rights from former
14 agricultural operations, some of the largest historic water users in the Baja sub-basin have had
15 their pumping rights reduced or eliminated. For example, in October of 2012, the MWA
16 purchased 7,194 AF of water rights from the Genon Corporation; these rights are no longer being
17 pumped and will presumably not be in the future. Additionally, the Newberry Spring Lake
18 Association has purchased an additional 4,335 AF of water from persons who previously pumped
19 groundwater from the Baja Sub-basin. This major change in “*groundwater production*” and
20 “*consumptive use*” is a recent cultural condition that neither the proposed base period adequately
21 reflects. The acquisition of rights by NSRLA has resulted in a substantial net decrease in water
22 extraction throughout Baja, and it would be improper to use a historical base period that doesn’t
23 account for this fundamental shift in water usage occurring in the last four to five years, which
24 Watermaster has acknowledged,¹ changes that should be reflected in the model that Watermaster

25 _____
26 ¹ Wagner Decl., Watermaster Statement of Reasons, enclosed with Mitsubishi Motion at MM
27 000856 (“In 1995, agricultural water production in Baja was about 35,200 acre-feet. By
28 2024, agricultural water production dropped to roughly 5,500 acre-feet. Watermaster’s data on
irrigated acreage shows some variability; however, irrigated areas show a steady downward trend
during recent years. In 2000, irrigated crops were grown on 5,296 acres. By 2024, irrigated
acreages were reduced to 1,779 acres. Watermaster concludes that agricultural pumping patterns
and irrigated areas have changed during the last five years. This is consistent with the evidence

1 is working to complete as soon as September 2026 for Baja sub-basin. In the Baja sub-basin, solar
2 farms have replaced sixteen 160-acre pivot irrigation devices on the west side of the Calico fault;
3 this represents a significant cultural shift in the area, as solar energy uses little to no water.
4 Watermaster's motion quotes the Mojave Judgment in stating that PSY calculations must be based
5 on a period that includes "*given patterns of production, applied water, return flows and*
6 *Consumptive Use . . . without resulting in a long-term net reduction of groundwater in storage in*
7 *the Subarea.*" (Watermaster Motion at p. 12.) However, neither proposed base period appears
8 targeted to achieving this requirement of the Judgment, at least as pertains to water use in the Baja
9 sub-basin.

10 d. The Watermaster's renewed motion claims that the proposed base period is
11 representative of the long-term natural water supply is questionable for to Baja sub-basin because
12 Watermaster's motion relies on data that are not located at the sub-basin boundaries. As noted
13 herein, additional Mojave River stream gages have been installed only in the last 2 years and have
14 been collecting data for approximately that time. The data from these stream gages is insufficient
15 to draw conclusions about long-term hydrologic conditions. However, the motion refers to
16 **Exhibit 2**, which charts Mojave River flow at the Forks from 1931-2024, but fails to mention that
17 the most recent data points are based on these new gages or the older Barstow gage, which is
18 currently used to estimate surface inflow to the Baja sub-basin. As noted above, and as Mr.
19 Wagner admits in his most recent declaration at page 14, data from the Barstow gage and other
20 stream gages are of questionable usefulness in evaluating conditions in the Baja sub-basin, as Mr.
21 Wagner admits that in the Baja sub-basin, the "*only reliable data available is pumping and water*
22 *level measurements (which show recent recovery).*"

23 9. It is essential to postpone any changes to the Base Period, and by extension
24 adjustments to PSY, in the Baja sub-basin until more data is collected to ensure an accurate and
25 reliable evaluation of the actual flows into and out of the Baja sub-basin. As Watermaster's
26 renewed motion acknowledges at pg. 16, MWA is currently developing the Regional Mojave
27 River Basin Model (RMRBM) that will help solve some of the data deficiencies that Watermaster
28 _____
of land use changes observed in Baja during the 2020 to 2024 period").

1 admits currently exist in the Baja sub-basin. It nevertheless urges the Court to approve
2 Watermaster's motion anyway, with the assurance that "*after ongoing modeling is completed, the*
3 *Court could then determine the appropriate hydrologic base period to be used for subsequent*
4 *years, without Watermaster's reliance upon the 2001-2020 base period (for calculating PSY and*
5 *FPA values for Water Year 2026-2027) having any precedential value as to that subsequent*
6 *determination.*" This is a strange invitation to leap before looking, given the adjustments to PSY
7 that would presumably flow from granting Watermaster's proposed revision to the base period,
8 creating the risk of significant year-over-year deviations in PSY allocations without any material
9 changes in hydrologic or land-use conditions.

10 10. Given the known data gaps in information about how and when water flows
11 between the Centro and Baja sub-basins, combined with the fact that water levels in the Baja sub-
12 basin are rising, it is prudent, at least in the Baja sub-basin, to wait for the completion and release
13 of the RMRBM components for the Baja and Centro sub-basins, which could come as soon as
14 September 2026, before revising the base period in the Baja sub-basin. Making a change to the
15 base period now, based upon assumptions of drier conditions outside of the Baja sub-basin, only to
16 potentially change the base period again a year or two later based upon the RMRBM, would be
17 inefficient for the Court and the Parties before the Court while creating unnecessary instability in
18 the overall water management process. The RMRBM is designed to provide the kind of detailed
19 information necessary for a sound determination of the hydrologic base period for each sub-basin.
20 The Court should allow this ongoing data-gathering and modeling process to play out in the Baja
21 sub-basin before changing the base period, as neither motion provides a legitimate technical basis
22 for a change in the Baja sub-basin before the completion of the RMRMB for the Baja and Centro
23 sub-basins. Indeed, both motions largely ignore current conditions in the Baja sub-basin. Patience
24 and the improving status quo are, therefore, the prudent course in the Baja sub-basin until the
25 RMRBM is completed.

1 I declare under penalty of perjury of the laws of the State of California that the foregoing is
2 true and correct and that I have executed this declaration on the 5th day of March 2026, in Santa
3 Ana, California.



Dr. W. Richard Laton, PG, CHg
President of Earth Forensics, Inc.
Principal Consultant, Hydrogeology

EXHIBIT 1



earthforensics, inc.

W. RICHARD LATON, Ph.D.

**12532 VISTA PANORAMA
NORTH TUSTIN, CA 92705
714-296-4055
wlaton@earthforensics.com**

VITAE

EDUCATION

- Ph.D. (1997), Geology with an emphasis in Hydrogeology, Western Michigan University
Groundwater – Kalamazoo River Interaction near the Parchment City Well Field, Parchment, Michigan.
- M.S. (1992), Environmental Earth Science (Coastal Geomorphology), Western Michigan University
Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping.
- B.A. (1989), Earth Science (Oceanography), Saint Cloud State University, Minnesota
Density Flow Analysis of Turbidity Currents.

PROFESSIONAL SUMMARY

Dr. Laton is an expert in the fields of geology/hydrology/hydrogeology. He is currently a Professor of Hydrogeology in the Department of Geological Sciences, California State University, Fullerton, the prestigious 2014 Ross Oliver Award winner and a 2024 NGWA Fellow. This career continuation includes years of teaching, consulting, litigation support, and management experience. Dr. Laton possesses extensive knowledge in the areas of geology, hydrogeology, fluvial geomorphology (including erosion and sediment transport), meteorology/climatology (including rainfall, RADAR analysis, and wind), hydrology and surface water, wetlands, coastal monitoring/geomorphology, natural hazards (such as land/mudslides, flooding, and earthquakes), soil and water contamination (fate and transport), CEQA, environmental field sampling techniques and well hydraulics-well design as well as environmental remote sensing/GIS. His classes at the university encompass topics such as water quality, environmental sampling, groundwater modeling, well hydraulics, oceanography, and basic geology. He enjoys introducing students to applied research and is the faculty advisor to many upper-level students. He has also consulted for numerous companies and agencies that need input on the above subjects and natural hazard assessment and mapping.

CERTIFICATIONS

California Geologist	(PG-7098)	California Hydrogeologist	(CHg-958)
Alaska Geologist	(PG-673)	Oregon Geologist	(G2153)
Arizona Geologist	(PG-42253)	Pennsylvania Geologist	(PG-5095)
Florida Geologist	(PG-2618)	Texas Geologist	(PG-10018)
Illinois Geologist	(196.001370)	Washington Geologist	(PG-2517)
Indiana Geologist	(LPG-2191)	Washington Hydrogeologist	(CHg-2517)
Minnesota Geologist	(PG-44868)		
New York Geologist	(PG-001222)	AIPG-Certified Geologist	(CPG-10544)
North Carolina Geologist	(PG-2614)	European Geologist	(N-1128)

SELECTED CONSULTING, RESEARCH, AND EMPLOYMENT EXPERIENCE

Professional Profile

2010 - Present, President of *Earth Forensics Inc.*

1995 - 2010, Partner (Owner Operator) with *Environmental Science & Planning, LLC.*

1998 - 2001 & 2007 - 2012, Senior Consultant with *Earth Consultants International.*

2001 - 2007, Consultant to *Hromadka & Associates.*

1996 - 1998, Senior Hydrogeologist with *SimulProbe Technologies.*

2010 – Present. *Earth Forensics, Inc.* President (www.earthforensics.com)

Project experience includes management, expert testimony, fieldwork, oversight, and training. Clients have included the State of California, various cities, private firms, law firms, and other consulting companies.

2025

- Honolulu, HI. Retained to provide expert opinions on contamination of groundwater.
- Fullerton, CA. Hired to review potential contamination as it relates to groundwater.
- Wisconsin. Retained to provide expert opinions as they relate to drilling, well design, and standard of care (Defense: Frost v Sams Well Drilling (Case: 2025CV000219)).
- Texas. Retained to provide expert opinions as they relate to the remote sensing of oil field operations (Defense: SynMax v Kayros (Case No. 2:24-cv-0494)).
- Newport, CA. Retained to provide expert review and comments on a historical dry cleaner.
- Kalamazoo, MI. Hired to provide a review of several well-field geophysical surveys for the City.
- Mojave Desert, CA. Retained to provide insight into sand and dust movement via wind in and around a solar power plant; Declaration (Defense: Doles v Newberry Solar 1, et al. (Case No: 2135262)).
- Montrose, MO. Retained to provide expert opinions on coal combustion residuals (CCR) contamination of soil, groundwater, and surface water (Defense: Bauer v Evergy Metro, et al.)
- San Bernardino, CA. Hired to develop a Basin Monitoring Plan for TDS Solids.
- Wichita, KS. Retained to provide expert opinions associated with multiple contaminants in soil, groundwater, and soil vapor (vapor intrusion). Expert Report; Deposition (Plaintiff: Black and Tolson v Union Pacific Railroad (Case No: 6:23-cv-1218)).

2024

- Camp Lejeune, NC. Hired to review and comment on expert reports associated with fate and transport and groundwater modeling.
- San Diego, CA. Hired to oversee several aquifer tests and develop a construction dewatering plan.
- Torrance, CA. Retained to provide expert opinion associated with groundwater, soil, and soil vapor contamination (PCE, TCE, and 1,1 DCE); Expert Report; Expert Rebuttal Report, Deposition (Defense: City of Torrance v Hi-Shear Corp (Case No: 2:17-cv-07732) (cross-complaint)).
- Rolling Hills Estates, CA. Retained as an expert on groundwater and surface water impacts on a landslide.
- Encinitas, CA. Retained as an expert on flood damage.
- Los Angeles, CA. Retained as an expert on remediation, groundwater, soil, and soil vapor contamination (Defense: LA County Metro Transportation v California Drop Forge, et al., Case No. 2:23-cv01728-MWF-KS).
- Vernon, CA. Retained as an expert on groundwater and vapor pathways associated with VOCs, SVOCs, and metals (Superfund).
- Ypsilanti, MI. Retained to evaluate remedial efforts related to the factory.
- Palos Verde, CA. Retained to assess surface water and groundwater impacts on landslides. Multiple Cases; Mediation.

- Hicksville, NY. Retained to evaluate the groundwater model and fate and transport of contaminants.
- Port of Morrow, OR. Retained to evaluate nitrate contamination (Plaintiff, Pearson, et al., v Port of Morrow, et al., Case No.).

2023

- El Dorado County, CA. Hired and retained to evaluate rainfall runoff and slope stability (Plaintiff, Poipao, et al., v County of El Dorado, Case No. 2:23-cv-01265-CKD)
- Corbett, OR. Hired and retained to evaluate water well design and standard of care (Defense, Corbett Water District v SCS Engineers, et al., Case No.)
- Wausau, WI. Hired and retained to evaluate the fate and transport of PFAS/PFOS.
- Orange County, CA. Hired and retained to discuss groundwater flow (Plaintiff, Hadipour, et al., v Moulton Niguel Water District, Case No. 30-2020-01176360-CU-EI-CJC)
- Endicott, NY. Retained to evaluate the fate and transport of contamination. Expert Report, Rebuttal (Plaintiff, Brunelle et al., v Saint Gobain et al, Case No. 226-2022-cv-00416)).
- Oklahoma. Retained to evaluate PFAS/PFOS contamination statewide. Declaration
- Sarasota, CA. Retained as an expert on meteorology associated with flooding. Deposition and Trial Testimony (Plaintiff, Hedayati v Bhatnagar, Case No. 19CV357264).
- Maui, HI. Retained as an expert on GIS and meteorology associated with wildfires.
- New Cambria, KS. Retained as an expert on hydrogeology/geology/sampling, and fate and transport. Expert Report and Deposition (Defense, Grit v Koch Remediation & Environmental Services, et al.).
- Coronado, CA. Retained as an expert on surface water flow.
- Pacific Palisades, CA. Retained as an expert on groundwater (Plaintiff, Nash v Etco Homes, et al., Case No. 20SMCV01211).
- Los Angeles, CA. Retained as an expert on water sources and landslides.
- Claremont, CA. Hired to evaluate the source of high groundwater for multiple residential homes.
- San Diego, CA. Retained as an expert on water damage (Case No. 37-2023-00011116-CU-OR-CTL).
- San Diego, CA. Retained as an expert on flood damage.
- IL, IN, NM, FL, and LA. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Oceanside, CA. Hired to evaluate water issues surrounding a landslide.
- Dalton, NH. Hired by the City to review landfill permits and provide a written report.
- Orange County, CA. Hired to develop a dewatering plan for a landslide on an active landfill.
- Vernon, CA. Retained as an expert on groundwater and vapor pathways associated with VOCs, SVOCs, and metals. Expert Report, Rebuttal Report, Deposition and Trial (Plaintiffs, CA DTSC v NL Industries, Inc., et al., Case No. 2:20-cv-11293-SVW-JPRx).

2022

- Orange County, CA. Hired to evaluate data gaps in the environmental analysis of a landfill.
- Elysian, TX. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Inglewood, CA. Retained as an expert on non-karst sinkholes. (Plaintiff, Maiden v City of Inglewood, et al., Case No. 19STCV20008)
- Southern California. Retained as a hydrogeology/hydrology/meteorology expert for various wildfires (Plaintiff).
- Riverside, CA. Retained as an expert on surface water flow associated with flood damage (Defense, HSU et al., v County of Riverside, Case No. CVR12101209).
- California. Retained as an expert on hydrogeology/hydrology/geology, and meteorology associated with the Thomas Fire.

- Las Vegas, NV. Retained as an expert on water well design, drilling, development, and completion (Defense).
- Bakersfield, CA. Retained in association with oil field issues and leaking wells.
- Los Angeles County, CA. Retained as an expert on hydrogeology/hydrology and meteorology (Plaintiff, Werner, et al., v Azirian et al., Case No. 20smv01176).
- Union, IL. Retained as an expert on contamination from TCE and PCE in groundwater, soil, and soil vapor. Expert Report and Mediation (Plaintiff, Harper v TechAlloy Company, Inc., et al., Case No. 19-LA-307).
- Encinitas, CA. Retained as an expert in fluvial geomorphology (Defense, Trujillo et al., v City of Encinitas et al., Case No. 37-2021-00015834-cu-or-nc).
- Tampa, FL. Retained as an expert on Lead in the environment (Plaintiff, Brown v Gopher Resources, LLC et al., Case No.).
- Newton, MA. Retained as an expert in mapping and GIS.
- Los Angeles County, CA. Retained as an expert on hydrogeology/hydrology and meteorology (Defense, Bowmont Holding LLC, et al., v CAS Construction et al., Case No. 21SMCV01401).
- Riverside County. Retained as an expert on hydrology (Defense).
- Franklin, IN. Retained as an expert on groundwater and vapor pathways associated with VOCs. Expert Report, Expert Rebuttal Report, and Deposition (Plaintiff, Denny, et al., v Amphenol Corp, et al., Case No. 1:19CV-04757-JRS-DLP).
- Encinitas, CA. Retained as an expert on groundwater-surface water interaction in bluff areas. Declaration (Defense, Davis et al., v City of Encinitas et al., Case No. 37-2020-00030315-cu-np-nc).
- Illinois and Indiana. Hired to evaluate the potential groundwater impacts associated with CO₂ Sequestration.
- Maryland. Retained as an expert on impacted soil classification and potential for reuse (Defense, MCM Management Corp v DXI Construction, Case No. C-03-CV-21-003006).
- New Jersey and Pennsylvania. Retained as an expert on AFFF contamination within the public water supply (Plaintiff).
- Laguna Beach, CA. Retained as an expert on the water, including irrigation and construction moisture issues. Declaration and Mediation (Plaintiff, Woods Cove v Michael Liikala, Case No. 20-5685-DRC).

2021

- Santa Barbara County, CA. Retained as an expert on hydrogeology and water resource sustainability. Expert Report and Deposition (Plaintiff, Goleta Water District v Slippery Rock Ranch, LLC, Case No. 1487005).
- Pleasanton, CA. Retained as an expert in dry-cleaning operations and PCE/TCE contamination (Defense, Charles H Stoll v Timothy Ewing, et al., Case No. 3:17-cv-02226-JSC).
- Los Angeles County, CA. Cogswell Dam Review and Development of Dewatering Program.
- Santa Barbara, CA. Hydrogeological Evaluation for a Potential Cannabis Project.
- Vista, CA. Retained as an expert on wetlands and surface water flow (Defense, Goebel v City of Vista and State of California, et al., Case No. 37-2018-00058162-CU-PO-NC).
- Lake Elsinore, CA. Retained as an expert on surface water and debris flow (Defense, Gomes, et al., v County of Riverside, et al., Case No. RIC2003297).
- Bell Gardens, CA. Retained as an expert on remediation (Defense, Bell Gardens Avenue, LLC, et al., v 8000 Bell Gardens, LLC, et al., Case No. 20STCV26362).
- Canoga Park, CA. Retained as an expert on the fate, transport, and cleanup of TCE/PCE contamination. Declaration (Plaintiffs, Behar, et al., v Northrup Grumman et al., Case No 21-cv).

- Midwest City, OK. Retained as an expert associated with dry-cleaner operations and potential contamination. Declaration (Plaintiff, Weingarten Realty Investors, et al., v Brite Cleaners, Inc., et al., Case No. 5:18-cv-971-JD).
- Encinitas, CA. Retained as an expert in fluvial geomorphology. Declaration (Defense, Preciado v City of Encinitas, Case No. 37-2020-00037766-CU-EL-CTL).
- Merrimack, NH. Retained to review PFAS/PFOS contamination (Plaintiffs).
- East Chicago, IN. Retained to review and evaluate lead contamination. Expert Report (Plaintiffs, Alvarez, et al., v City of East Chicago et al. Case No. 2:16-cv-00525-PPS-PRC).
- Blades, DE. Retained to review PFAS/PFOS contamination (Plaintiffs).
- San Diego, CO. Retained as an expert in fluvial geomorphology. Declaration and Expert Report (Defense, Lodge v Barbanell, Case No. A265558-58).
- Encinitas, CA. Retained as an expert in fluvial geomorphology. Declaration (Defense, Gilligan v City of Encinitas, Case No. 37-2020-00038879-CU-EI-CTL).

2020

- Inglewood, CA. Retained as an expert in soil contamination. Expert Report (Plaintiff, TKG Management, Inc., et al., v Chubb Custom Insurance Company, et al., Case No. 2:19-cv-10986-AB-AS).
- Marinette, WI. Retained to review PFAS/PFOS contamination (Plaintiffs).
- Malibu, CA. Hired to review and report on multiple single-family homes' groundwater resources.
- Blythe, CA. Retained as an expert in surface water hydrology and canal flow (Plaintiff, Presley v Palo Verde Irrigation District).
- Hesperia, CA. Hired to review the City's water resources.
- Torrance, CA. Hired to develop a Conceptual Site Model for a former manufacturing facility.
- Michigan. Retained as an expert on the dam failure and resulting flooding (Plaintiffs).
- Los Angeles, CA. Retained as an expert in environmental consulting. Mediation (Defense, Madrone et al., v Odic Environmental, Case No. 19STCV27986).
- Central CA. Retained as an expert in hydrogeology and water resources.
- Orange County, CA. Hired to evaluate multiple historical dry-cleaning operations, including developing remedial options for cleanup.
- Chula Vista, CA. Retained as an expert associated with hydrology issues (Defense, Ludwig v City of Chula Vista, Case No. 37-2019-00034737-CU-EI-CTL).
- Laguna Niguel, CA. Hired to evaluate groundwater conditions associated with a landslide.

2019

- Newport Beach, CA. Hired to evaluate the risk posed by contaminated soil, soil vapor, and groundwater in the residential neighborhoods.
- Los Angeles, CA. Hired to evaluate the contaminated soil conditions along a freeway expansion.
- San Diego, CA. Hired to evaluate the hydrogeological conditions of the Mission Valley Project.
- Santa Barbara, CA. Retained as an expert associated with dry-cleaner operations and potential contamination. Expert Reports (Defense, Donald George, et al., v L&R Dry Cleaning, Case No. 5:14-cv-01872-DSF(SHx)).
- Apple Valley, CA. Retained as an expert on hydrogeology and water resources (Plaintiffs).
- Cannonsville, NY. Retained as an expert on hydrogeology associated with an earthen dam. Expert Reports (Plaintiff, City of New York v Gomez et al., Index No. 451296/2018).
- Santa Paula, CA. Retained as an expert on hydrometeorological conditions related to the Montecito-Thomas Fire (Defense).
- La Jolla, CA. Retained as an expert associated with the flooding of a single-family residence (Plaintiff).
- Rancho Palos Verdes, CA. Hired to conduct a site assessment, remedial investigation, and work plan.

2018

- Bethpage, Long Island, NY. Retained as an expert associated with groundwater and soil gas contamination. Expert Report and Deposition (Plaintiff, Romano, et al., v Northrop Grumman et al., Case No. 16-cv-5760).
- San Bernardino County, CA. Hired to conduct a Phase 1 and hydrogeological assessment.
- Glen Ivy, CA. Retained as an expert associated with flood damage. (Defense, Glen Ivy Investments Inc., et al., v Shea Homes, Inc., et al., Case No: RIC 1313300).
- Norwalk, CA. Hired to develop a CSM and a work plan to evaluate the historical gas and dry-cleaning facility.
- Merced, CA. Retained as an expert on hydrogeology, groundwater seepage, and surface water. Deposition (Plaintiff, Thorp, et al., v Merced Irrigation District et al.).
- Portland, OR. Retained as an expert associated with a landslide (Defense).
- Los Osos, CA. Hired to develop an RAP associated with BTEX contamination.
- Newberry Springs, CA. Hired to evaluate the water budget and any shortcomings in the Mojave Judgment. Letter Reports and Multiple Declaration (Plaintiff, City of Barstow, et al., v City of Adelanto, et al., Case No: CIV 208568).
- New Mexico. Retained as an expert associated with field drilling operations and well design. Declaration (Defense).
- Houston, TX. Retained as an expert associated with flood damage from Hurricane Harvey (hydrology and meteorology) (Plaintiffs).
- Huntington Beach, CA. Retained as an expert on PCE contamination, fate, and transport associated with a dry-cleaner. Deposition (Defense, Chan Property v Misak Olgun et al., Case No 30-2018-00984600-CU-PO-CJC).
- Torrance, CA. Retained as an expert on the fate and transport of contamination emanating from refinery operations. Declaration and Deposition (Plaintiff, Goldstein v Exxon Mobil, et al., Case No 2:17-cv-02477-DSF (SKx)).
- Malibu, CA. Hired to assess potential single-residence groundwater well.
- Los Angeles, CA. Hired to perform Phase II site assessment at former dry cleaners.
- Santa Barbara, CA. Retained as an expert on PCE contamination, fate, and transport (Plaintiff).
- Whittier, CA. Hired to review Phase II associated with both residential and commercial property.

2017

- San Diego, CA. Retained as an expert in hydrology and meteorology (Defense, Anderson, et al., v Cortez et al., Case No 37-2016-00004134-CU-BC-CTL).
- Roxboro and Mayo, NC. Retained as an expert in hydrology, hydrogeology, and geology. Expert Reports and Deposition (Defense, Roanoke River Basin Association v Duke Energy Progress, LLC, Case No 1:16-cv-607 and No 1:17-cv-452).
- Inglewood, CA. Retained to review soil contaminated with arsenic and potential sources (Plaintiff).
- Torrance, CA. Hired to review the refinery's soil, water, and soil gas contaminant history.
- Bakersfield, CA. Hired to review water quality at the bottled water plant.
- Santa Barbara, CA. Hired to review the contaminant history of a former dry cleaner's facility.
- Glendale, CA. Hired to perform background research on a dry cleaner's facility.
- San Jose, CA. Hired to perform Phase II site investigation.
- Bishop, CA. Retained as an expert on hydrology and hydrogeology concerning the Round Fire (Defense).
- Thousand Palms, CA. Retained as an expert in hydrology and geomorphology (Defense, Hernandez v Huth, et al., Case No PSC 1501365).
- Beverly Shores, IN. Retained as an expert on well drilling, abandonment, and geothermal wells. Expert Report and Deposition (Defense, Salomon, et al., v Mark Scott Construction, et al., Case No 2:15-cv-464).

- Moraga, CA. Hired to review Phase II Soil Vapor Site Investigation.
- Long Beach, CA. Hired to review the Phase II soil and soil vapor site investigation.
- Huntington Beach, CA. Retained as an expert on PCE fate and transport. Deposition (Defense, 17892 Jamestown, et al., v Goldenwest Laundry, et al., Case No. 30-2014-00705041-CU-NP-CJC).
- City of Industry, CA. Hired to determine dewatering options, calculate volumes, and review disposal options.
- Lafayette, CA. Hired to review the Soil and Groundwater Management Plan.

2016

- San Jose, CA. Hired to review and perform site investigation in association with PCE.
- Los Angeles, CA. Hired to develop soil and groundwater sampling plans for CalTrans.
- Malibu, CA. Hired to review groundwater withdrawal impacts on a local stream.
- Malibu, CA. Hired to develop and survey several groundwater monitoring wells.
- Malibu, CA. Hired to oversee pilot drill holes for the City's water injection program.
- Anaheim, CA. Hired to review RI/FS of a former dry-cleaning facility.
- Santa Barbara, CA. Retained as an expert on PCE contamination fate and transport. Expert Report, Rebuttal Report, and Deposition (Defense, Goldberg, et al., v Goss-Jewett Company, et al., Case No. EDCV 14-1872DSF).
- Malibu, CA. Hired to install several monitoring wells and rehabilitate an existing well.

2015

- Denver, CO. Retained as an expert on water wells and hydraulic fracturing. Expert Report, Rebuttal Report, and Deposition (Defense, Hydro v Denver Southeast Suburban Water, and Sanitation District et al., Case No. 201CV30849).
- Orange County, CA. Retained as an expert on groundwater. Deposition (Defense, Kirk, et al., v Varco, et al., Case No. 30-2010-00423097).
- Orange County, CA. Hired to review the South Coast Water District Desalination Program, specifically the slant intake wells.
- Malibu, CA. Hired to oversee groundwater issues associated with a landslide.
- Malibu, CA. Hired to install several groundwater monitoring wells in association with WDR permit.
- Los Angeles County, CA. Retained to provide expert testimony regarding well abandonment (Defense, Golden State Water Company v. General Pump, et al.).
- Los Angeles County, CA. Retained to provide expert geology and hydrogeology testimony (Defense, C. Donald Albin, et al., v David Leu, et al., County of Los Angeles, Case No. TC027060).
- Los Angeles County, CA. EIR review and comments for wastewater plant and disposal.

2014

- Northern California. Phase II Site Investigation.
- Los Angeles County, CA. Retained to provide expert rebuttal testimony on regional hydrogeology. Expert Rebuttal Report (Defense, City of Cerritos et al., v Water Replenishment District of Southern California, Case No. BS128136).
- Los Angeles, CA. Hired to collect samples of both seepage water and treated effluent water.
- Loma Linda, CA. Retained to provide expert opinion on meteorological analysis (Plaintiff, SoCal Self-Storage – Loma Linda v City of Loma Linda, et al., Case No. CIVDS 1200111).
- Los Angeles, CA. Hired to review multiple potentially responsible parties' case files for the Los Angeles Department of Power and Water (Plaintiffs).
- Malibu, CA. Hired to abandon multiple groundwater monitoring wells.

2013

- San Diego, CA. Retained to provide expert testimony on surface water hydrology, geomorphology, and meteorological analysis (Defense, Jaffe v Bradshaw, et al., Case No. 37-2011-00055925-CU-PO-NC).

- Lancaster, CA. Hired to peer-review a groundwater model and subsidence issues.
- Malibu, CA. Hired to review wastewater treatment options.
- Malibu, CA. Hired to review and reply to EIR comments about wastewater discharge and hydrology, hydrogeology, and geology.
- Olivenhain Municipal Water District. Hired to evaluate groundwater resources. Conceptual Water Resource Evaluation.

2012

- Torrance, CA. Retained to provide expert testimony on groundwater seepage (Defense, Torrance Matrix Center Property Owners Association v Headlands Realty Corporation, et al., Case No. BC462023).
- Duncan, OK. Retained to provide expert testimony on the fate and transport of perchlorate and other contaminants of concern, geology, and hydrogeology. Expert Reports, Depositions, and Mediation Conferences (Plaintiff, Alexander, et al., v Halliburton Company, et al., Case No. 5:11-cv-01343-M).
- North Central Texas. Hired to evaluate the possible causation of potable water well failures.
- San Francisco, CA. Conducted evaluation of contaminated soils for CalTrans.
- Malibu, CA. Hired to conduct a groundwater investigation and model wastewater discharge into the subsurface. Includes the evaluation of ASR wells and groundwater-seawater interaction. Includes developing groundwater and surface water sampling protocols for long-term monitoring.
- Malibu, CA. Hired to conduct a groundwater investigation for a wastewater treatment system upgrade on a single-family residence.
- Fennville, MI. Retained to provide expert testimony on the fate and transport of contaminants of concern, geology, and hydrogeology. Expert Report and Deposition (Plaintiff, Barnes, et.al., v Birds Eye Foods, Case No. 1:10-cv-541).
- San Nicolas Island, CA. Hired to develop a white paper on the feasibility of deep-well brine injection.
- Long Beach, CA. Hired to develop calculations of dewatering operations for the Gerald Desmond Bridge Replacement Project.
- Malibu, CA. Hired to conduct quarterly and annual groundwater and effluent sampling of commercial property.

2011

- Orange County, CA. Retained to provide expert testimony on hydrogeology, TCE/PCE, perchlorate contaminant sources, and remediation. Deposition (Defense, Orange County Water District v Sabic Innovative Plastics, Case No. 30-2008-00078246-CU-TT-CXC).
- Parker Dam, CA. Semi-Annual Groundwater Reporting to the Bureau of Land Management.
- Baldwin Park, CA. Hired to oversee soil and groundwater sampling for CalTrans freeway expansion in association with FlatIron Corp., including both environmental and geotechnical sampling.
- Pomona, CA. Retained as a rebuttal expert to provide opinions on hydrogeology, contaminant sources (perchlorate), and historical fertilizer use. Expert Rebuttal Report and Trial Testimony (Defense, City of Pomona v SQM North America Corporation, Federal Court).
- Malibu, CA. Retained and hired to evaluate groundwater conditions of a landslide area in association with geotechnical mitigation. This included overseeing groundwater monitoring, drilling of monitoring wells, and meteorological assessment. Included Mediation (Defense).
- Laguna Beach, CA. Hired to photo-document coastal cave collapse.
- Baldwin Park, CA. Hired to evaluate the soil contamination of several stockpiles associated with FlatIron Corp. for road construction.
- Malibu, CA. Hired to evaluate and construct artificial recharge wells associated with the City's wastewater system. This included drilling test wells, aquifer testing, and water chemistry.

- San Jose, CA. Aided in the development of a construction proposal for FlatIron Corp.
- Riverside County, CA. Reviewed ADL reports for SEMA Construction Corp.
- Los Angeles County, CA. Provided a Hydrogeologic evaluation of the landslide-impacted area.
- City of Los Angeles and Riverside County, CA. Wrote ADL Reports for CalTrans.

2010

- Fullerton, CA. Retained to provide expert testimony on contamination sources and remedial alternatives (Plaintiff, M&H Realty Partners v Aerojet-General Corp et al., CA State Court).
- Carson, CA. Provided review of contaminated soil data and sampling plan for hydrocarbon investigation.
- Fresno, CA. Wastewater sampling at National Raisin Plant. Provide consulting services on wastewater reuse.
- Pleasant Hill, CA. Retained to provide expert assessment of BTEX/MTBE (Declaration (Plaintiff)).
- Victorville, CA. Hired to provide background information on Desert Knolls Wash.
- Placer County, CA. Retained to provide a hydrogeological assessment of the production well and its impact on neighboring domestic wells on behalf of the plaintiffs.
- Merced, CA. Retained as designated expert for Chromium VI contamination case. Work included providing hydrogeological analysis and guidance. Declarations, Expert Reports, Deposition, and Trial Testimony (Plaintiff, Abarca, et al., v. Merck-Federal Court).

1995 – 2010. *Environmental Science & Planning, LLC*. Partner (Owner Operator).

Project experience includes management, expert testimony, fieldwork, bid preparation, and consulting for public agencies and private companies in remediation, water resource evaluations, geophysical investigations, surface water management, sampling, and modeling. Selected consulting projects are as follows:

2008

- Torrance, CA. Provided expert analysis of dry-cleaner facility for commercial property.
- Long Beach, CA. Aided in developing a conceptual model of a manufacturing facility.
- Provide technical oversight and alternatives for San Bernardino County Flood Control.
- Orange County, CA. Retained as a designated expert on a single-family home associated with potential water issues (Defense).
- San Bernardino County, CA. Provided consulting services concerning the water supply to an area of single-family residences.
- Signal Hill, CA. Provided expert analysis of downhole video of the suspected drain.

2007

- La Jolla, CA. Retained as a designated expert on surface and groundwater issues related to landslides (Plaintiff).
- Long Beach, CA. Retained as a designated expert on surface and groundwater issues surrounding a coastal condominium complex (Plaintiff).
- Norco, CA. Provide expert oversight to Wildermuth Environmental, Inc., on surface water and groundwater sampling protocols and training.

2006

- Riverside, CA. Environmental Impact Report. Provided technical support on land development associated with an old mining claim.
- Irvine, CA. Environmental Engineering and Contracting. Provided support and review of CPT, ROST data for an environmental contamination project in Illinois.

2005

- Malibu, CA. Retained as a designated expert on the hydrogeologic analysis of existing wastewater systems. Included Deposition (Defense).
- Riverside, CA. Oversaw specialized soil and groundwater sampling for Layne Christenson.

2004

- Oakland, CA. Soil and groundwater sampling for CalTrans.
- California. Statistical analysis of lead in soil samples for CalTrans highway expansion.
- Carpinteria, CA. Retained as a wetland expert, including HEC-RAS modeling.

2002

- Playa Vista, CA. Developed methane mitigation plan for residential and commercial development. This included testifying before the County Commissioners.

1999 – 2000

- Norco, CA. Oversaw development of methane sampling and mitigation standards for Riverside, California.
- Norco/Corona, CA. Methane Mitigation Investigation.
- Long Beach, CA. Conducted both soil and groundwater sampling for Carlin Environmental Consulting.

1998 – 2001 & 2007 – 2012. *Earth Consultants International, Inc.*, Senior Consultant (www.earthconsultants.com). Work includes project management and hydrogeologist duties. Other activities include business development and marketing. Projects include wastewater, oil field seepage, methane mitigation, dewatering for construction purposes, EIR development, water resources investigations, watershed studies, and a regional groundwater GIS study for Riverside County.

2010

- Ocotillo/Coyote Wells, CA. Retained to review groundwater basin conditions associated with Wind Zero development (Testimony on behalf of Client – Imperial County).

1998 – Present: City of Malibu Specific Projects

- Hired to provide hydrogeologic services in association with a zero-discharge wastewater system. Aided in Salt Management Plan.
- Hired to provide hydrogeologic services associated with on-site wastewater, Miramar Investment Co.
- Retained to provide consulting services associated with wastewater discharge impacts to the subsurface at Malibu Racquet Club, Casa Malibu Inn, Wavebreak Restaurant, and Malibu Cantina Restaurant (Testimony on behalf of Client – LARWQCB).
- Retained by the City of Malibu to represent them in a surface water lawsuit (Defense).
- Oceanographic-Hydrogeological analysis and modeling of tidal fluctuations, storm surge, and impacts on a coastal development's wastewater discharge system.
- Conducted a regional groundwater study for the City of Malibu associated with a groundwater flow model of the downtown area. This includes fieldwork, data analysis, and modeling support (Testimony for Client – LARWQCB).
- Provided expert testimony for the City of Malibu on local groundwater conditions (Testimony on behalf of Client – LARWQCB).
- Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Crummer Property, Malibu, California.
- Hydrogeological Characterization and modeling of subsurface wastewater discharge (mounding) – Winter Canyon, Malibu, California.
- Hydrogeologic Characterization and testimony to wastewater discharge to subsurface – Malibu, California. (Testimony on behalf of Client – LARWQCB)
- Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for proposed wastewater treatment facility in downtown Malibu (Testimony on behalf of Client – LARWQCB).

- Hydrogeologic Characterization and Assessment of Wastewater Discharge Impacts for Thirteen Single-Family Residences' Proposed Construction in Trancas Canyon, Malibu, California.
- Groundwater study of Winter Canyon, Malibu, California, to determine the feasibility of using the canyon for wastewater disposal.
- Groundwater study of 200 acres in preparation for the Malibu Civic Center EIR.
- Provide expert witness testimony on sewer seepage and geology for the City of Malibu (Testimony on City of Malibu – LARWQB).

2001

- Developed Safety Elements for Newport Beach, Brea, Glendale, and Pasadena.

2000

- Los Angeles, CA. Playa Vista Corporation – Groundwater and Methane Migration Investigation on Playa Vista Property (Testimony for Client – City of Los Angeles).

1999

- Safety Element of the General Plan, Riverside County.
- Orange, CA. Environmental Impact Report – Geologic, Seismic, and Hydrologic Sections of the Environmental Impact Report for the Proposed Sully-Miller Fieldstone Project.
- Brea, CA. Feasibility investigation to review mitigation options for active crude oil seeps (tar) and methane generation.

2001- 2007. Hromadka & Associates. Consultant

Provided litigation support, computer and physical modeling, expert report reviews, writing, and managing multiple cases and field-site inspections for the company.

2006

- San Diego, CA. PCB transport in San Diego Bay.
- San Francisco, CA. Physical model of apartment complex combined sewer and storm drain network.
- San Francisco, CA. Severe rainfall analysis for four storm events, including flooding.

2005

- Yorba Linda, CA. Analysis of sediment transport from a large grading project and nursery debris production at a school site.
- Irvine, CA. Groundwater uplift analysis of clogged filter fabric in the flexible lining and sediment transport in San Diego Creek in a 2-mile reach using flexible block lining.
- Torrance, CA. Sediment transport in Compton Creek downstream of the Montrose Plant. Transport analysis of sediment in major/minor events.
- Development of Volume-based BMP design procedure for San Bernardino County WQMP.
- Multi-lake hydrologic and water quality analysis at Lake Merced, California. Phosphates, nitrates, golf courses, coliform in groundwater, flood control, and risk reduction. Tunnel flow capacity analysis. Hydrologic balance analysis.
- Santa Rosa, CA. Transport and fate of TCE, PCE in surface water.
- Anaheim Hill, CA. Soil water transport and ET studies for several hundred residences. Water balance studies.
- Fullerton, CA. Soil water transport and ET studies for several dozen residences. Soil water flux in concrete.
- San Clemente, CA. Soil water transport and hydrologic balance analysis near landslides.
- Castaic Lake, CA. Soil water transport and hydrologic balance analysis of a residential tract.
- Oahu, HI. Groundwater plume transport, analysis of BTEX in rising groundwater, and tidal effects.
- Daly City and San Francisco, CA. Flooding and tunnel capacity analysis.

2004

- Tehachapi, CA. Analysis of TDS, cement Kiln dust, chlorinated hydrocarbons, BTEX, TCA, TCE, DCA, and DCE, groundwater flow in fractured and faulted media.
- Irvine, CA. Groundwater hydrostatic pressure analysis, waterproofing of the office center.
- Laguna Canyon, CA. Modeled Landslide.
- Fullerton, CA. Sediment and Debris production, transport, 50-acre watershed.
- Palm Springs, CA. Transport of Aeolian Sand, PM10, saltation, creep, and entrainment in the "*Blow Sand*" area.
- Water Quality holding time criteria development, 85 percent of average storm analysis, County of San Bernardino, Water Resources Division.

2003

- Torrance, CA. Sediment transport analysis between the city of Torrance and Santa Monica Bay. DDT transport.
- Analysis of TDS, viruses, bacteria, and raw sewage in New River and Salton Sea. Evaporation impacts on the Salton Sea salinity.
- San Clemente, CA. Analysis of landslide development.
- Henderson, NV. Analysis of soil water excess. Perchlorate sampling and analysis
- Review of perchlorate modeling and transport, Mid-Valley Landfill, San Bernardino County, California.
- Groundwater supply and TDS inflow levels into New River and Salton Sea, Imperial Valley, California.
- Henderson, NV. Man-made preferential pathways and groundwater transport in land development.
- Anaheim Hills, CA. Water Supply, soil water saturation, landscape methodology review, moisture accumulation, and percolation tests.
- San Diego, CA. Analysis of releases, BTEX, MTBE, lead, groundwater flow, plume evolution, soil gas, soil TPH, CPT/LIF, HydroPunch data at Mission Valley.

2002

- Honolulu, HI. Sediment transport and erosion.
- Las Vegas, NV. Debris and sediment flow in Duck Creek.
- Irvine, CA. Statistical analysis of all Orange County sediment and contaminant data, San Diego Creek watershed.
- Ontario, CA. Groundwater modeling and analysis of the Kaiser TDS plume.
- San Clemente, CA. Analysis of landslide hydrologic balance.

2001

- Irvine, CA. Stability of erosion control measures in San Diego Creek.
- Dana Point, CA. Erosion analysis of slope failures.
- Torrance, CA. Transport of DDT in surface water, groundwater, sediment, and atmosphere, M2000 transport of DDT from a chemical plant.
- San Diego, CA. Groundwater transport of fuel, free-product, in Mission Valley.

1996 – 1998, *SimulProbe Technologies*. Senior Hydrogeologist

Traveled extensively throughout North America and Europe, marketing various technologies. Promoted to head of marketing in the Midwest and Southwest regions. Responsibilities included budgeting, supervising staff, project management, and presenting to government officials and private contractors. My duties also included direct marketing to drilling firms and environmental consultants, supervising all sales personnel and marketing efforts, scheduling service calls and field operations, and assisting with R&D, field training, and site management.

Miscellaneous Projects

1995 – 1998, Project/Staff Geologist

- Kalamazoo, MI. Worked with United Environmental Technologies, Inc. to help develop sampling and well-construction protocols for various projects.
- Kalamazoo, MI. I worked for the GEM Regional Center at *Western Michigan University*. Conducted water budget analysis for a watershed located in Calhoun County.
- Kalamazoo, MI. Worked with the *Health Division of the Michigan Department of Environmental Quality* on well-grouting issues surrounding public and private water supplies.
- Kalamazoo, MI. I worked with the Michigan Department of Environmental Quality on the hydrogeological and geochemical aspects of the Panelyte site. This involved the use of geophysics and geochemical analysis for the detection and mapping of possible contaminants.
- Ross Township, MI. Retained through *Western Michigan University* by the City of Kalamazoo to determine the impact of a proposed wellfield on the surrounding surface water bodies (streams, lakes, and wetlands).

1993 – 1995

- Minden, MI. Retained by *Michigan Peat Company* to evaluate peat reserves. The evaluation involved sampling and mapping the peat reserves for litigation.
- Salem, IL. Retained by *Hi-Shots Aerial Photography Inc.*, to setup and demonstrate internet capabilities for small businesses.
- Michigan. Retained by *Superior Environmental Corp.* to conduct EM-31 geophysical surveys. The surveys were designed to locate possible buried tanks in a downtown bank parking lot, a corner restaurant parking lot, fabrication/manufacturing buildings, and a former car dealership.
- Schoolcraft, MI. *Alpha GeoSciences Inc.* (Through Department of Geology, Western Michigan University). Hired to run a hollow stem auger drill rig. Three 30-foot wells were installed.
- Kalamazoo, MI. *Golder Associates Inc.* (through the Institute for Water Sciences, Western Michigan University) retained geophysical log monitoring wells within the KL-landfill CERCLA site using natural gamma radiation.
- Champaign/Urbana, IL. Conducted an aerial photographic survey of the Champaign/Urbana landfills to locate hot spots where possible sub-surface fires may be burning. The contract was funded through the *Illinois State Geological Survey*.
- Ann Arbor, MI. Conducted aerial photographic survey of a contaminated wetland for *Alpha GeoSciences Inc.* of Kalamazoo, Michigan. Provided site maps of monitoring wells and sampling locations.

1991 – 1993

- Sanibel Island, FL. Retained by the *City of Sanibel Island, Florida*, to evaluate coastal erosion along the Gulf Coast side of the island for litigation.
- Paris, France. Retained by *Littoral et Patrimoine* for projects in France and India. Evaluated coastal erosion and constructed possible solutions to ongoing erosion problems.
- Sandusky, OH. Designed a sediment coring program along the Sandusky River and part of Lake Erie for a project funded by the *Ohio Department of Natural Resources*. The sediment cores were used to define the sediment input from the Sandusky River and Lake Erie on adjacent estuaries/marshes.
- Three Rivers, MI. Retained by *Reid and Reid Law Offices*, Kalamazoo, Michigan, to evaluate the effects of the construction of a golf course and adjacent buildings on the water quality of Lake Templene for litigation.
- Portage, MI. Designed and coordinated the work on an aeration pilot project on Austin Lake. This project involved bottom sampling, coring, and sediment profiling. Collected and analyzed the

sediment and water samples for the *Ramco Company*. Prepared an independent report on the success of the entire project.

- Ludington, MI. Assisted on the Department of Geology's state-funded project involving erosion control monitoring of Undercurrent Stabilization systems.
- Michigan. Assisted the Western Michigan University Department of Geology on a state-funded project regarding erosion monitoring along Lakes Michigan and Huron.
- Wilmington, NC, and Plainwell, MI. Retained by Dr. Thomas Straw to analyze various meteorological parameters for a host of hydrology projects.
- Plainwell, MI. Retained by Dr. Thomas Straw to solve problems associated with a gravel pit operation.

1990 – 1991

- Atlanta, GA. Retained as a consultant by *Sutherland, Asbill & Brennan*, to address a wetland problem within one of *Mobil Land Development Company's* major developments. This included wetland hydrology, soil chemistry monitoring, and aerial photographic interpretation. Litigation support.
- Benton Harbor, MI. Member of Scientific Party – Great Lakes Mapping cruise of eastern Lake Michigan (United States Geological Survey cruise No. NPTN91-1). The resultant sediment samples were split between WMU and the USGS, allowing for research on Fourier shape analysis to possibly fingerprint sediment origin.
- Western Michigan University, Institute for Water Sciences. Research assistant on a USGS-funded project along the Lake Michigan shoreline.

1989 – 1990

- Western Michigan University. Worked with the Department of Geology on small construction projects and consulted on a State of Michigan-funded project addressing shoreline erosion.

1983 – 1989

- Hutchinson, MN. *3M Company*. Summer Intern - I worked at various jobs for the 3M Company, including being a heavy equipment operator, a plastic injection molding, and a VHS line operator.

TEACHING EXPERIENCE

2024 – Present California State University, Fullerton, CA

Professor of Hydrogeology. Responsible for teaching lower division classes in Hydrogeology (GEOL 436); Physical Geology (GEOL 101-GE); Water Crisis in California (GEOL 310T); Sedimentology and Stratigraphy (GEOL 321); Hydrology and Surface Processes (GEOL 335); Meteorology (GEOL 340-GE); Oceanography (GEOL 333-GE); Physical Geology (GEOL 101-GE) and Lab (GEOL 101L-GE); Field Camp (GEOL 481) and upper division classes in Groundwater Modeling; Environmental Sampling and Protocols; Well Hydraulics and Aquifer Analysis (GEOL 535T); Research Methods in Geology (501); Geology Seminar (GEOL 590).

2006 – 2024 California State University, Fullerton, CA

Associate Professor of Hydrogeology.

2015 – 2026 Western Michigan University, Kalamazoo, MI

Adjunct Associate Professor, Department of Geological and Environmental Sciences.

2000 – 2006 California State University, Fullerton, CA

Assistant Professor of Hydrogeology.

2001 – 2016, 2023-2025 Western Michigan University, Kalamazoo, MI

Responsible for the Summer Field Course in Hydrogeology. Teach at least a 1-week graduate-level field course(s) every year, including (1) Principles of Well Drilling and Installation; (2) Principles and Practices of Aquifer Testing; (3) Remediation Design and Implementation

1999 – 2000 California State University, Fullerton, CA

Part-time instructor. Responsible for Oceanography (GEOL 333) and Water Quality (GEOL 437).

1992 – 1996 Western Michigan University, Kalamazoo, MI

Graduate Student Instructor responsible for Hydrogeology (GEOL 435), Oceanography (GEOL 333), and Hydrogeology Summer Field Course (GEOL 535 a, b, c, d, e, and f). This field course consisted of six individual modules (40-Hour HAZWOPER, Environmental Surface Geophysics, Principles of Well Drilling and Installation, Principles and Practices of Ground-Water Sampling and Monitoring, Principles and Practices of Aquifer Testing and Analysis, and Remediation Design and Implications). Other responsibilities included construction measurements and layouts for the Department of Engineering Technology. Responsible for the lab sequences only.

Other Teaching Experience

- 2025 Instructor – Groundwater & Wells Class, Large Capacity Water-Supply Wells Cradle to Grave
- 2021-23 Instructor – Gregg Drilling Field Day
- 2021 Instructor – California Public Water Supply Systems
- 2018 Instructor – CalGeo – Soil Logging and Litigation
- 2016-17 Instructor – SCGS – Soil Sampling and Classification Short-Course
- 2012 Instructor – NGWA Hydrogeology Field Methods Course: What you didn't learn in School. Andover, MN.
- 2010-11 Reviewer/Participant – Worked with Healthy Heroes, LLC, developing educational videos.
- 1996 – 98 Instructor – *Eight-hour OSHA HAZWOPER* supervisor course (29 CFR 1910.120 (e)(3)).
- 1995 Hi-Shots International Conference. I taught short courses on environmental remote sensing utilizing a helium-filled tethered blimp.
- 1992 Kalamazoo, Michigan. Teaching Assistant for a course titled *Shoreline Geology and Processes*. Course sponsored by the Secondary Education of Michigan Summer (SEMS). This was a state-funded project.
- 1991 St. Joseph, Michigan, Berrien County. Teaching assistant for a *Shoreline Geology and Processes* course sponsored by the SEMS State-funded project.

Developed CSUF-Departmental Short Courses:

- GeoProbe Demonstration Days (2009 – 2011, 2017)
- Westbay Multiport Sampling (2004-09, 2017)
- CPT Demonstration Day – Gregg Drilling (2010)
- AMS Demonstration Day (2009)
- CPT Field Demonstration on Quality Environmental Site Investigation. (In-cooperation with Gregg Drilling) (2004)
- Environmental Sampling Procedures and Practices (2003)
- Borehole and Well Logging Interpretation (Taught at Layne Christenson) (2003)
- Baroid Industrial Drilling Products – Drilling and Boring Fluids (2002)
- GIS Course I & II – What is GIS and how can it be utilized in research (2001)
- FEMA – Advanced HAZUS Training for GIS Professionals (2001)

TEACHING PHILOSOPHY

As a professor, I aim to provide students with practical experience essential for building a successful career. In addition to providing the “*nuts and bolts*” of a subject, I encourage students to apply traditional knowledge to innovative approaches through applied research and hands-on experience. I aspire to motivate students by fostering participation in unique learning opportunities, many provided by local companies, agencies, and vendors willing to share their services and expertise.

Through private and government grants and contracts, I can provide multiple funding opportunities to my students, allowing them the means to spend more time on their academic studies and providing experience through field-related projects. My main research focus is groundwater hydrology and hydrogeology of arid environments. Most of my students directly participate in this research and can obtain either bachelor’ or master’s degrees through individual projects for which they are responsible.

I encourage my students to actively participate in professional organizations to build strategic partnerships and create a broad-reaching network of individuals and indispensable resources. Further, I encourage students to present abstracts and posters at local and national conferences and to publish their research as much as possible to stimulate educated discussions with their peers and accomplished professionals.

The best way to measure the effectiveness of my objectives and judge my goals is to elicit student feedback and evaluation. My students consistently rate me very high in their end-of-semester assessments. My biggest reward as a teacher is a lasting professional and personal relationship with my students. I enjoy working with and supporting students through their academic careers and feel honored when they graduate with a professional degree.

AWARDS, HONORS, SPECIAL QUALIFICATIONS

- NSM 2025 Outstanding Service Award
- NGWA 2024 Fellow Designation
- NGWA 2024 Robert Storm Intersectional Cooperation Award
- NGWA 2014 Ross L. Oliver Award
- NGWA 2014 Keith E. Anderson Award
- Western Michigan University 2011 – Distinguished Alumni Award
- NGWA 2009 McElhiney Lecturer for Water Well Technology
- International Ground Source Heat Pump Association (IGSHPA) Accredited Trainer (20589-0709)
- Boy Scouts of America – Merit Badge Sponsor: Geology, Oceanography, Environmental Science, and Soil and Water Conservation
- CSUF – Student Association, Outstanding Academic Advisor (2003/04)
- CSUF – NSM Nominee for Outstanding Contributions to Student Success Award (2002/03 & 2003/04)
- Western Michigan University established a scholarship in my honor for the outstanding hydrology field camp students. Awarded annually since 1998.
- Western Michigan University, Department of Geology, Distinguished Service Award, 1997
- Western Michigan University Research Fellowship 1991-1992
- IEEE OCEANS 92' student paper finalist
- OSHA 40-Hour Hazwoper Supervisor, Active

NATIONAL AND UNIVERSITY COMMITTEES

- CSUF, Geology Club Faculty Advisor (2024 – present)
- CSUF, Hiring Committee for VP Government and Community Relations (2020)
- CSUF, Campaign Congress, 2020-2024
- CSUF, Strategic Planning Committee Member, 2019-2022
- CSUF, Hiring Committee for VP Advancement (2018)
- CSUF, University Advancement Committee Member, 2003-05; 2011-15; 2017-21 (chair 2017-20)
- CSUF, Freshman Pathways (Sustainability), Committee Member, 2013-2015
- CSUF, ENST Advisory Committee, 2004 - present
- WMU, Geosciences Advisory Council Member 2007 - present (Chair 2021-)
- GRAC – Educational Committee Member 2009 - 2020
- NWRI – Independent Advisory Panel; OCWD Santa Ana River Monitoring Program, 2006-2012
- Long Valley Hydrologic Advisory Committee, 2003-2009

NATIONAL GROUND WATER ASSOCIATION

- NGWA Research and Education Foundation, President, 2015-2017
- NGWA Research and Education Foundation, Board Member, 2010-2014, 2017-2018
- Scientists and Engineers Division, Past Chair 2012-2014
- Scientists and Engineers Division, Chair 2010-2012
- Scientists and Engineers Division, Vice-Chair, 2008-2010
- Scientists and Engineers Division, Board Member, 2004-2008; 2016-2020
- NGWA - McElhiney Lecture Committee, 2014 - 2018 (chair 2014); 2019 - 2021
- NGWA – Board of Directors, 2008-2014
- NGWA – Professional Development Committee Member, 2000 - (chair 2009-2010)
- NGWA – Groundwater Summit Co-Chair (2006): Committee Member (2005, 2007-2012)

FUNDED GRANTS and CONTRACTS
(CSUF total to date through 2025: over \$ 3,000,000)

2016-2020

- California High Speed Rail Authority (\$500,000); Oversee Groundwater issues as they may pertain to the construction and operations of the California High Speed Rail. Including groundwater modeling review and deep groundwater monitoring.

2004 – 2014

- Mojave Water Agency (\$2,099,000); *Grant for work on Water Resource Evaluation and Mapping – Mojave Desert Region* (Alto, Este, Oeste, and Centro Hydrologic Sub-areas).

2003

- Mojave Water Agency (\$217,000); Water Resource Research within the Mojave Desert. Part of this project is to develop a GIS/Database inventory of all wells, groundwater elevations, and hydrogeochemistry of each basin within the boundaries of MWA. Specific portions of the grant were set aside to oversee, collect, and analyze data from a 2,500-foot-deep multiport monitoring well near Oro Grande Wash.
- Friends of the San Gabriel River (\$32,000); *Citizens Monitoring Program Development and Implementation*. This was funded through a State of California Grant (Prop 50).

2002

- Mojave Water Agency (\$57,405); *Groundwater Investigations to look at potential recharge areas throughout the Southern Mojave Desert Area*. Establish a digital well log inventory and bibliographic search of all documents on the MWA Water Agency. CSUF also developed a key well program for Lucerne Valley based on groundwater basin recharge.
- CSUF Service-Learning Mini-Grant (\$1,500); *Integrating Service Learning into Advanced Environmental Geology*.
- Earth Consultants International, Inc. (\$3,000); *Geologic Interpretation of borehole geophysics. Involves the gamma-ray logging and interpretation of subsurface geology*.

2001

- CSUF Service-Learning Mini-Grant (\$3,000); *Integrating Service Learning into Advanced Hydrogeology Sampling*.
- San Elijo Lagoon Conservancy (\$35,000); *Sediment Quality and Depositional Environment of San Elijo Lagoon*.
- Los Angeles Regional Water Quality Control Board (\$31,000); *The Santa Clara River Watershed; GPS and Observational Report on the Santa Clara River*
- Grant to develop a web-based model on Distance Calibration of Earth Images (\$800). This was part of the Advanced Technology in Science Learning Environments Grant through the Department of Biology.
- CSUF Summer Support Assistance (\$5,000): This was summer support money to aid in sampling water and soil throughout Orange County, California.

2000

- Los Angeles Regional Water Quality Control Board (\$25,000); *The San Gabriel River Watershed; GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*.

IN-KIND DONATIONS for Research / Projects

- Supplies for Screen and Gravel Pack Analysis (est. \$8,000); Donated by Johnson Screens
- DJI Phantom II (est. \$2,500); Donated by Earth Forensics Inc.
- Woolly Mammoth (est. \$500,000); Donated by Gregg Family Foundation
- Software (Visual Modflow) (\$2,700); Donated by Earth Forensics Inc.
- Soil sampling supplies and equipment (\$2,500); Donated by GeoProbe
- Deep Multiport Westbay Monitoring Well (\$300,000); A deep multiport monitoring well was installed on the northwestern portion of campus to develop a long-term monitoring program for groundwater in the north Orange County groundwater basin. The well was installed with sampling ports at six different zones to 850 feet below ground level. The entire project was donated.
- Miscellaneous equipment supplies and laboratory analysis have been donated for many different projects (\$50,000). These donations have been used for student thesis research and classroom activities.
- Sampling Truck (value \$30,000). The vehicle is specially designed to collect water samples downhole – equipped with twin generators and a large-capacity hydraulic system. Donated by Earth Technologies, Inc.
- Ford F-250 Pickup (\$8,000); Donated by URS Corporation
- Generator (\$2,500); Donated by Aquifer Science and Technology
- Software (Waterloo Hydrogeologic – Visual Modflow, AquiferTest and Aquachem) (\$10,000)
- Software (Groundwater Vistas) (\$2,500+\$2,250 for update)
- Conference table and chairs (\$500); Donated by URS Corporation
- Arboretum Groundwater Study (approximately \$10,000); Drilling and installation of 3 monitoring wells for the purpose of developing curriculum for general hydrogeology. These wells are part of a larger project to interpret the hydrogeology of CSUF and the local area.

PROFESSIONAL PUBLICATIONS, ABSTRACTS, PRESENTATIONS and POSTERS

Peer-Reviewed Publications (Published, Accepted, Submitted)

1. Laton, W.R., Figueroa, O., Foster, J.F., and Perez, R., 2025. *Historical Knowledge of the Toxicity of TCE in the United States*. Remediation 2025; v35-4: <http://dx.doi.org/10.1002/rem.70032>
2. Laton, W.R., Perez, R., Foster, J.F., 2024, *UAV Thermal Mapping as a New Tool to Document Baseline Environmental Conditions: The California High-Speed Rail through the San Gabriel Mountains, California*. Groundwater Monitoring & Remediation. <http://doi.org/10.1111/gwmr.12644>
3. Laton, W.R.; Foster, J.H. 2023. *Abrupt Late Holocene Closure of San Elijo Lagoon, Northern San Diego County, California*. Coasts 2023, 3, 227-239. <https://doi.org/10.3390/coasts3030014>
4. Laton, W.R., 2021. *Malibu, California: A Story of Wastewater, Politics, and Science*. The Professional Geologist. 2021; Vol. 58. No. 2, pages 15-19. USPS 590-810 and ISSN 0279-0521
5. Laton W.R., 2019. *New perspectives on horizontal to vertical well ratios for site cleanup*. Remediation. 2019; 30: 27–31. <https://doi.org/10.1002/rem.21628>
6. ²D. Dailey, W. Sauck, M. Sultan, ²A. Milewski, ²M. Ahmed, W.R. Laton, R. Elkadiri, J. Foster, C. Schmidt, and T. Al Harbi., 2015. *Geophysical, geochemical, and remote sensing applications for a better understanding of the structural controls on groundwater flow in the Lucerne Valley, California*. Journal of Hydrology: Regional Studies 3 (2015) 211-232. <https://doi.org/10.1016/j.ejrh.2014.12.002>
7. Laton, W.R., 2006. *Building Groundwater Monitoring Wells on Campus – A Case Study and Primer*. Journal of Geoscience Education (Vol. 54, No. 1), pgs 50-53. <https://doi.org/10.5408/1089-9995-54.1.50>
8. Laton, W.R., Whitley, R.J., and Hromadka II, T.V., 2006. *A Methodology for Identifying the Potential Source of Groundwater Contamination in a Multiple Source Problem Using a New Mathematical Approach*. Hydrogeology Journal. <https://doi.org/10.1007/s10040-006-0106-4>
9. Laton, W.R., Hromadka II, T.V. and Picciuto J.A., 2006. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. Hydrological Science and Technology, Volume 22, No.1-4.
10. Laton, W.R., 2004. *Seepage, Flow, and Chemical Partitioning Between the City of Parchment Wellfield and the Kalamazoo River, Southern Michigan*. Journal of Floodplain Management (Vol. 4, No. 1), pgs 11-32.
11. Perez, R., Foster, J.F. and Laton, W.R., *Hydrostratigraphy of Victorville Fan and Water Resources Implications*. (in prep)

Guidebooks, Full Paper Proceedings, and Articles

1. Laton, W.R., Perez, R., and Bausch, D., 2018. Hazard Maps for Riverside County, California. San Diego Association of Geologists annual field trip guidebook (update of earlier version).
2. Laton, W.R. and Krstich, B., 2010. *Zoom Zoom, Public works managers are now using Google Earth to track environmental and water resources*. Public Works Online. (Public Works Manual 2010)
3. Laton, W.R., 2005. The Cutting Edge “*Teaching Hydrogeology in the 21st Century*”. NGWA-AGWSE News and Views. (article September 2005)
4. Jenson, J. and Laton, W.R., 2005. Second Annual Groundwater Summit. NGWA-AGWSE News and Views. (article September 2005)
5. Laton, W.R., 2004. *Building Ground Water Monitoring Wells on Campus: A Case Study and Primer*. NGWA-AGWSE News and Views. Vol. 1, Issue 1.
6. D. Bausch, E. Gath, T. Gonzales, and R. Laton, 2000. *GIS-Based Hazard Mapping and Loss Estimation in the Safety Element of the General Plan for Riverside County, California*. California: EERI 6th International Conference on Seismic Zonation, Riverside County, California.
7. Laton, W.R., ¹Perez, R., and Bausch, D., 2000. *New Hazard Maps for Riverside County, California*. San Diego Association of Geologists annual field trip guidebook.
8. Laton, W.R., 1992. *Small-Scale Coastal Cells as Control Mechanisms on Sediment Movement; Identification and Mapping*. OCEANS ‘92, Newport, Rhode Island.

Public Reports and White Papers

1. Laton, W.R., Foster, J., Perez, R., and Becker, M., 2020. *Phase II Groundwater Study – Palmdale to Burbank Section of California High Speed Rail*. California High-Speed Rail Authority.
2. Laton, W.R., 2019. *Reconsidering Horizontal to Vertical Well Ratios for Site Clean-up*. EnRx.
3. Laton, W.R., 2016. *Phase I Groundwater Study – Palmdale to Burbank Section of California High Speed Rail*. California High-Speed Rail Authority.
4. Laton, W.R., 2016. *DTSC Aquifer Test Guidance*. Reviewer for draft guidance document.
5. Laton, W.R., 2012. *Disposal of Desalination Effluent; Deep-Well Injection Feasibility San Nicolas Island, California*. US Navy.
6. Foster, J., Laton, W.R., et al., 2008. *Geologic Map Series of Mojave Region*. (750, 500, 250, 24’ and 15’). Mojave Water Agency. Revised series, Fall 2010.
7. Laton, W.R., Foster, J., et al., 2007. *Oeste Hydrologic Sub-Basin Report*. Mojave Water Agency.
8. Hromadka, II, T.V., Laton, W.R. and ²Perez, R., 2006. *Hydrologic Data Report October 17-21, 2004 Storms*. Orange County Flood Control District.
9. Laton, W.R., Foster, J., et al., 2007. *Groundwater Atlas of Oeste Hydrologic Sub-basin*. Mojave Water Agency.
10. Laton, W.R., Foster, J., ²Ebbs, V., ²Blazevic, M., and ¹Napoli, N., 2007. *Harper Lake Hydrologic Sub-Basin Report*. Mojave Water Agency.
11. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Baja Hydrologic Sub-Basin to Afton Canyon Report*. Mojave Water Agency.
12. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Este to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
13. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Oeste to Alto Hydrologic Sub-Basins Report*. Mojave Water Agency.
14. Laton, W.R., ²Napoli, N., and Eckhart, L., 2006. *Flow between Basins –Alto to Centro Hydrologic Sub-Basins Report*. Mojave Water Agency.
15. Laton, W.R., ¹Napoli, N., and Eckhart, L., 2006. *Flow between Basins – Centro to Baja Hydrologic Sub-Basins Report*. Mojave Water Agency.

16. Hromadka, II, T.V., Laton, W.R., and Picciuto, J.A., 2005. *Estimating Runoff Quantities for Flow and Volume-based BMP Design*. San Bernardino County Flood Control District.
17. Laton, W.R., Foster, J., et al., 2004. *Este Hydrologic Sub-Basin Report*. Mojave Water Agency.
18. Laton, W.R., Foster, J., et al., 2004. *Groundwater Atlas of Este Hydrologic Sub-basin*. Mojave Water Agency.
19. Laton, W.R., et al., 2004. *San Gabriel River Watershed Atlas*. Friends of the San Gabriel River.
20. Laton, W.R., et al., 2004. *San Gabriel River Watershed QAPP and Sampling Manual*. Friends of the San Gabriel River.
21. Laton, W.R., ²Kendall, D. and ²Lizzy, A., 2004. *Drilling Methods and Materials*. Online course material for NGWA.
22. ¹Blazevic, M. and Laton, W.R., 2004. *Mojave River Stream Gauging*. Mojave Water Agency
23. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy.
24. Laton, W.R. and Foster, J., 2001. *Sediment Quality and Depositional Environment of San Elijo Lagoon, San Diego County, California*. San Elijo Nature Conservancy and Fish and Wildlife Service.
25. Laton, W.R. and Foster, J., 2001. *Santa Clara River Watershed Inventory*. Los Angeles Regional Water Quality Control Board.
26. Laton, W.R. and Foster, J., 2000. *The San Gabriel River Watershed GPS and Observational Report on the San Gabriel River from the Whittier Narrows region to Seal Beach*. Los Angeles Regional Water Quality Control Board.
27. Straw, W.T., ²Hascall, A.P., ²Laton, W.R., and ¹Dalman, M., 1997. *Groundwater – Surface Water Interaction Study in Ross Township*. City of Kalamazoo, Michigan.
28. Straw, W.T. and ²Laton, W.R., 1993. *WMU Austin Lake Aeration Feasibility Study Evaluation*. City of Portage, Portage, Michigan.
29. Straw, W.T., ²Wardwell, D.A. and ²Laton, W.R., 1992. *An Evaluation of Undercurrent Stabilization Anchor System Installation at Douglas and Tawas City, Michigan*. Michigan Department of Natural Resources.

¹Undergraduate Student

²Graduate Student

Abstracts, Presentations, and Posters

1. Laton, W.R., 2025. *From the Classroom to the Office/Field*. (AEHS – Soil, Water, Energy, and Air; Invited)
2. ^{*1}Woodard, B., and Laton, W.R., 2024. *The Requirements for Constructing a Favorable Recharge Well in San Juan Capistrano, CA*. (NGWA Expo, Student Poster Winner)
3. ^{*1}Ruiz, R., and Laton, W.R., 2024. *Finding Suitable Locations for Recharge Systems in and around Rancho Mission Viejo Riding Park, CA*. (NGWA Expo, Student Poster Winner)
4. ^{*2}Kawaski, J., Laton, W.R. and Hanna, T., 2024. *Are Man-Made Glass Beads Better than Silica Sands as Filter Packs in a Water Well?* (NGWA Expo)
5. ^{*1}DuCharme, B., Pham, C., and Laton, W.R., 2024. *Modeling of Percolation of An Alternative Absorbent Considered for PFAS Treatment During Managed Aquifer Recharge*. (NGWA Expo)
6. Laton, W.R., 2024. *25-Years of CSUF Research*. (Sac State Geology Department, Invited)
7. Hanna, T., Laton, W.R., and ²Kawaski, 2023. *Physical Parameters Compared for the Installation and Development of Glass Bead and Natural Filter Packs*. (NGWA Expo)
8. Laton, W.R., 2022. *UAV Thermal Mapping to Develop Baseline Conditions for California High-Speed Rail through San Gabriel Mountains!* (SCGC Invited)
9. Laton, W.R., 2021. *20-Years of CSUF Research – From the Mojave to the Ocean*. (GRAC Invited)
10. Laton, W.R., 2021. *Working with that new Geologist in the field*. (NGWA Expo - workshop)

11. Laton, W.R., 2021. *20-Years of CSUF Research – From the Mojave to the Ocean*. (ENST Invited)
12. Laton, W.R., 2021. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. Florida Remediation Conference (recorded virtual presentation).
13. Laton, W.R., Havranek, T., Robinson, L. and Koenigsberg, S., 2021. *Fundamentals of Horizontal Well Systems and Modeling Tools*. AEHS, 30th Annual International Conference on Soil, Sediments, Water, Energy (Virtual - Workshop)
14. Laton, W.R., 2021. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. AEHS, 30th Annual International Conference on Soil, Sediments, Water, Energy, (Virtual - Presentation)
15. Laton, W.R., 2021. *Groundwater of California*. WMU Geology (Invited)
16. Laton, W.R., Havranek, T., Robinson, L. and Koenigsberg, S., 2020. *Fundamentals of Horizontal Well Systems and Modeling Tools*. AEHS, 36th Annual International Conference on Soil, Sediments, Water, Energy (Virtual - Workshop)
17. Laton, W.R., 2020. *Groundwater of the States: California*. NGWA Webinar Series.
18. Laton, W.R., 2020. *A Decision Tool to Determine if Horizontal Well Systems Can Replace Vertical Well Systems*. AEHS, 36th Annual International Conference on Soil, Sediments, Water, Energy, (Virtual). (abstract/presentation)
19. Laton, W.R., 2020. *New Perspectives on Horizontal to Vertical Well Ratios for Site Cleanup*. 12th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Battelle, Portland, OR. (abstract/presentation) (conference postponed)
20. Laton, W.R., 2020. *Malibu California, Wastewater and Politics* Cal State University, Fresno, CA. (Invited)
21. *Alonzo, T., Laton, W.R., Hanna, T., 2019. *Comparing Natural Silica Sand and Glass Bead Filter Packs Used in Production Well Design and Construction*. NGWA Expo, Las Vegas, NV. (abstract/presentation) (Outstanding Research Award)
22. Laton, W.R., 2019. *The Concept of Sustainability and the Recruiting of Younger Millennials*. NGWA Expo, Las Vegas, NV. (workshop)
23. Laton, W.R., 2019. *Reconsidering Horizontal to Vertical Well Ratios for Site Clean-up*. AEHS, 29th Annual International Conference on Soil, Water, Energy, and Air. San Diego, CA. (abstract/presentation)
24. Laton, W.R., 2018. *Take my Job*. NGWA Expo, Las Vegas, NV. (workshop)
25. Laton, W.R., 2018. *Groundwater – The Water Beneath Our Feet*. CSUF Fullerton Arboretum. (Invited)
26. *Perez, R. and *Laton, W.R., 2018. *The Use of UAVs for Groundwater Research*. California State University, San Bernardino. (Invited)
27. *Perez, R. and Laton, W.R., 2017. *UAV's for Use in Groundwater Resources*. NGWA Expo, Nashville, TN. (workshop)
28. Laton, W.R., 2017. *Introduction to Borehole Geophysics*. NGWA Expo, Nashville, TN. (workshop)
29. Laton, W.R., 2017. *Malibu California, Wastewater and Politics*. Southern California Chapter of AEG. (Invited)
30. Laton, W.R., 2017. *Low Altitude Photography Utilizing UAVs – Geologic and Hydrologic Applications*. Los Angeles Basin Geological Society. (Invited)
31. Laton, W.R., 2016. *Preparing for the Field, What to Take?* NGWA Expo, Las Vegas, NV. (workshop)
32. Laton, W.R., 2016. *Wastewater, Politics and Science*. South Coast Geological Society (Invited).
33. Laton, W.R., 2016. *Malibu, California; A Story of Wastewater, Politics and Science*. Western Michigan University. (Invited)
34. Laton, W.R., 2016. *Holding Back the Ocean and Recharging Aquifers with Treated Wastewater*. Minnesota Groundwater Association, Annual Meeting. (Invited)
35. Laton, W.R., 2016. *UAV Mapping and Business Opportunities*. Ground Water Institute. Tucson, AZ. (Invited)

36. Laton, W.R., 2016. *Malibu, California; A Story of Wastewater, Politics and Science*. GSA Section meeting, Ontario, CA. (abstract/presentation)
37. *Perez, R., Laton, W.R., Cruikshank, M. and ¹Hugh, C., 2016. *UAV Imagery and Mapping: What are the Capabilities and Limitations?* SAGEEP 2016, Denver, CO. (abstract/presentation)
38. Laton, W.R., 2015. *Souder Selection – Show and Tell*. NGWA Expo, Las Vegas, NV. (workshop)
39. Laton, W.R., 2015. *Preparing for the Field – What to Take?* NGWA Expo, Las Vegas, NV. (workshop)
40. Laton, W.R., 2015. *Using Sand Tank Models to Explain Groundwater Flow*. NGWA Expo, Las Vegas, NV. (workshop)
41. Laton, W.R., 2015. *When does it make Sense to Learn from a Person vs. Learn from a Device?* NGWA Expo, Las Vegas, NV. (workshop)
42. Laton, W.R. and Perez, R., 2015. *Low Altitude Photography Utilizing UAV's*. Long Beach State University – GIS Day Mixer. (Invited)
43. *Laton, W.R., *Perez, R. and *Cruikshank, M., 2015. *Low Altitude Photography utilizing UAV's – Geologic and Hydrologic Applications*. IGS, Riverside, CA. (Invited)
44. Laton, W.R. 2015. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint and Drones for Use in Water Resources*. Mountain States Groundwater Expo, Laughlin, NV. (Invited)
45. Laton, W.R. 2015. *Backyard Soils*. Natural OC, Santa Ana, CA. (Invited)
46. Laton, W.R. 2014. *Using Google Earth for Hydrogeological Problem Solving*. NGWA Expo, Las Vegas, NV. (workshop)
47. Laton, W.R. and *Perez, R., 2013. *Got Geological Problems-How to Use Innovative Multimedia Applications to Identify and Analyze Them*. NGWA Expo, Nashville, TN. (workshop)
48. Laton, W.R., 2013. *Hydrogeology 101*. NGWA Expo, Nashville, TN. (lecture)
49. Laton, W.R., 2012. *Hydrogeology 101*. NGWA Expo, Las Vegas, NV. (lecture)
50. Laton, W.R., 2012. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
51. Laton, W.R., 2012. *Geothermal Forum: Business Success Through Excellent Performance – Hydrogeology (Really) Does Matter*. NGWA Expo, Las Vegas, NV (lecture)
52. Laton, W.R., 2011. *Using Sand Tank Models to Teach about Groundwater*. NGWA Expo, Las Vegas, NV. (workshop)
53. ²Dailey, D.R., Sauck, W.A., Sultan, M., ²Milewski, A., Laton, W.R. and Foster, J.H., 2011. *Geophysical and Remote Sensing Applications for better understanding of the Structural (Faults/Basement Uplifts) Controls on Groundwater Flow in the Lucerne Valley, California*. GSA Annual Meeting. (abstract/presentation)
54. Laton, W.R., 2011. *Implications of Surface Water/Groundwater Interaction or Groundwater and the Impacts on Surface Water Delivery*. Declining Groundwater Levels: Measuring, Monitoring, and Mitigation. NGWA Virtual Conference.
55. Laton, W.R., 2011. *Hydrogeology 101*. Santa Susana Field Laboratory seminar series. (workshop)
56. ²Barker, S., Laton, W.R. and Foster, J.H., 2010. *An investigation of potential surficial recharge in the Lucerne Valley groundwater basin, Mojave Desert, CA*. Anaheim, CA. GSA Abstract with Programs. Vol. 42, No. 4, p. 97, Paper No. 45-2.
57. Laton, W.R., 2010. *Boring Logs – What's Important and What's Not: A Scientific Viewpoint*. GRA Webinar.
58. Laton, W.R., 2010. *Using Google Earth in Water Resources Research*. NGWA Webinar.
59. Laton, W.R., 2010. *Hydrogeology 101*. NGWA National McEllhiney Lecture 2010, Sponsored by the NGWAREF (Invited 7 presentations throughout the U.S.)
60. Laton, Richard, ²Al Harbi, Talal, Sauck, William A., Foster, John, Sultan, Mohamed, ²Milewski, Adam, ²Marsala, Peter, ²Balekai, Rajesh, and ²Salim, Hassan, 2009. *Use of Geophysical and Remote Sensing Data for a Better Understanding of the Hydrologic Role of Faults in the Mojave Desert*. GSA Annual Meeting. (abstract/poster)
61. Laton, W.R., 2009. *Using Google Earth*. NGWA Expo, New Orleans, LA. (workshop)

62. Laton, W.R., 2009. *Hydrogeology 101*. NGWA Expo, New Orleans, LA. (workshop)
63. Laton, W.R., 2009. *Boring Logs – What’s Important and What’s Not: A Scientific Viewpoint*. NGWA National McElhiney Lecture 2009, Sponsored by NGWAREF. (Invited 30+ presentations throughout North America)
64. Foster, J.H. and *Laton, W.R., 2008. *Groundwater Resources Sustainability in the Victorville Area: Results from the Oro Grande Wash Recharge Pilot Study*. Association of Engineering Geologist. (abstract/presentation)
65. *¹Dailey, D., Laton, W.R., and Foster, J.H., 2008. *New Detailed Model for El Mirage Subsurface Geology, El Mirage, CA*. GRA Annual Meeting. (abstract/poster)
66. *¹Velarde, J.C., Foster, J.H., and Laton, W.R., 2008. *The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County California*. GRA Annual Meeting. (abstract/poster)
67. *²Monzon, E. and Laton, W.R., 2008. *Estimating Applied Irrigation for Urban Landscapes in South Coast California, using Theoretical and Conventional Means*. GRA Annual Meeting. (abstract/poster)
68. *²Lizzi, A., Laton, W.R., Foster, J.H., 2008. *Evaluation of the Potential Groundwater Resources of A Confined Aquifer, San Diego County, California*. NGWA Groundwater Summit (abstract/presentation)
69. Laton, W.R., 2006. *Surface Water and Ground Water: How the Two Interact*. NGWA National Meeting. (Invited)
70. *¹Cruikshank, M.J., Foster, J.H. and Laton W.R., 2006. *Presence of Deep High-Quality Ground Water in El Mirage Valley, San Bernardino County, California*. NGWA Groundwater Summit (abstract/poster) (NGWA, Outstanding Student Research Award)
71. *²Surko, T., Armstrong, P.A. and Laton, W.R., 2006. *Gravity Survey of Lucerne Valley Ground Water Basin, Mojave Desert, Southern California: Implications for Basin Geometry and Structure*. NGWA Groundwater Summit (abstract/presentation)
72. *²Barthel, P.S. and Laton, W.R., 2006. *Desert Studies Center: A Hydrogeologic Model and Water Budget*. NGWA Groundwater Summit (abstract/presentation)
73. Laton, W.R., 2005. *Methods to Determine Basin Yield*. GRA Groundwater Resources Series – Basin Yield and Overdraft: Scientific and Legal Perspective. (Invited)
74. Laton, W.R., 2005. *Borehole Logging from Sample Collection to Borehole Geophysics*. Presented at NSF Workshop on “Teaching Hydrogeology in the 21st Century”. (presentation/lab write-up)
75. Laton, W.R., 2005. *Water Budget Analysis – A Story of Two Arid Region Groundwater Basins*. CEA-Crest Symposium on Arid Hydrology. (abstract/presentation)
76. *Laton, W.R., Hromadka, T., Yeager, M., Picciuto, J. and Whitely, B., 2005. *A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design*. CASQA Conference. (abstract/presentation)
77. *²Lizzi, A.L., Laton, W.R. and Foster, J., 2005. *Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
78. *²Boeke, B., Laton, W.R. and Foster, J., 2005. *Groundwater Potential for Harper Dry Lake: Implications for Ground Water Availability in Harper Valley, San Bernardino County, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
79. *²Kolstad, K. and Laton, W.R., 2005. *Hydrocarbon Soil Vapor: Actual vs Predicted*. NGWA 2005 Groundwater Summit. (abstract/poster)
80. *¹Napoli, N. and Laton, W.R., 2005. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
81. *²Perez, R. Foster, J. and Laton, W.R., 2005. *The Redefining of a Groundwater Basin, Alto Sub Basin, Southwestern Mojave Desert, California*. NGWA 2005 Groundwater Summit. (abstract/poster)
82. *²Surko, T.L., Armstrong, P. and Laton, W.R., 2005. *Gravity Survey of Lucerne Valley Groundwater Basin, Mojave Desert, Southern California: implications for basin geometry and structure*. NGWA 2005 Groundwater Summit. (abstract/poster)

83. ^{*1}Blazevic, M., ¹Napoli, N., Foster, J. and Laton, W.R., 2004. *Subsurface Geologic Investigation of a closed Alluvial Basin: Lucerne Valley, San Bernardino County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
84. ^{*1}Napoli, N., ¹Blazevic, M., Laton, W.R. and Foster, J., 2004. *Hydrogeologic Evaluation of a Desert Groundwater Basin; Lucerne Valley, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
85. ^{*2}Perez, R., Foster, J. and Laton, W.R., 2004. *Just how deep is it? Alto Deep Well and its impacts to Alto Groundwater Sub-Basin Geology*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
86. ²Hunt, S. and ^{*}Laton, W.R., 2004. *Update on Geochemical Analysis of the Central Basin, Los Angeles County, California*. Groundwater Resources Association of California Annual Meeting. (abstract/poster)
87. ^{*2}Haj-Manouchehri, D. and Laton, W.R., 2003. *Water Quality in Relation to Watershed Management in the Lower San Gabriel River, Southern California*. WRI conference (abstract/poster)
88. Laton, W.R., 2003. *Lessons Learned; Groundwater Flow Model – Taylor Yard, Los Angeles*. South Coast Geological Society. October 6, 2003. (Invited)
89. ^{*}Laton, W.R. and ¹Dolmat, J., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. National Ground Water Conference. (abstract/TIPS)
90. ²Figueroa, O. and ^{*}Laton, W.R., 2003. *Ground Water Modeling of a Coastal Aquifer Malibu, California*. National Ground Water Conference. (abstract/TIPS)
91. ^{*2}Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Water Level Monitoring, Lower Borrego Canyon Wash, Irvine CA*. National Ground Water Conference. (abstract/TIPS)
92. ^{*2}Hasegawa, S. and Laton, W.R., 2003. *Risk Assessment of Point and Non-Point Source Pollution on Water Resources along the Santa Ana River*. California Groundwater Conference. (abstract/poster)
93. ^{*1}Dolmat, J. and Laton, W.R., 2003. *Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting*. California Groundwater Conference. (abstract/poster)
94. ^{*2}Williams, S. and Laton, W.R., 2003. *Hydrogeologic Investigation of a Shallow Aquifer System Using Long Term Aquifer Tests and Precipitation Induced Recharge Data Lower Borrego Canyon Wash, Orange County California*. California Groundwater Conference. (abstract/poster)
95. ²Hunt, S. and ^{*}Laton, W.R., 2003. *Geochemical Analysis of the Central Basin, Los Angeles County, California*. California Groundwater Conference. (abstract/poster)
96. Laton, W.R., 2002. *Taylor Yard and Los Angeles River, Preliminary Groundwater and Surface Water Study Groundwater Model of Taylor Yard and Vicinity Los Angeles, California*. NGWA National Meeting. (abstract/poster)
97. ¹Otto Figueroa and ^{*}Laton, W.R., 2002. *Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California*. NGWA National Meeting. (abstract/poster)
98. ^{*}Laton, W.R., ²Sean Hunt, and Foster, J., 2002. *The Impact of Groundwater – Surface Water Interaction on Contaminant Distribution, San Elijo Lagoon, California*. NGWA National Meeting. (abstract/poster)
99. Laton, W.R., 2002. *Taylor Yard and Los Angeles River Preliminary Groundwater and Surface Water Study, Groundwater Model of Taylor Yard and Vicinity, Los Angeles, California*. California Coastal Conservancy. (Invited)
100. Laton, W.R., 2001. *Distance Calibration of Earth Images – To design and develop a Web delivered lesson showing an Advance in Information Technology that can be used in a Science Learning Environment for In-service Teachers (online lesson plan)*.
101. Laton, W.R., 2001. *The Role of Groundwater in Geologic Hazards*. California Science Academy (CEA-Crest). (abstract/presentation)
102. Laton, W.R., 2001. *Natural Hazards Mapping, Thailand*. Thailand Geological Survey. (Invited)

103. Laton, W.R., 2001. *Subsidence evaluation and assessment, Bangkok, Thailand*. Thailand Geological Survey. (Invited)
104. *Laton, W.R., *¹Perez, R., and *¹Figuerola, O., 2000. *Natural Hazard Mapping – A GIS Approach*. CSUF Geology Department.
105. Laton, W.R., 2000. *Natural Hazards Assessment of Temecula, California*. San Diego Association of Geologists annual field trip. (Invited)
106. *Sauck, W. A., Laton, W.R., ²Seng, D.L., and ²Vandereide, M.A., 2000. *Ground-penetrating radar investigations of nearshore sediments of eastern Lake Michigan*. IAGLR 2000.
107. Laton, W.R., 1999. *Watershed Management and Sampling Protocol*. Korean Ministry of Environment and Environmental Management Corporation short course. (Invited)
108. Laton, W.R., 1999. *Environmental Sampling – what, when and why*. Port of Los Angeles, Environmental Group. (Invited)
109. Laton, W.R., 1998. *Single Point Pneumatic Slug Test, Soil Vapor Extraction (SVE) Testing During Initial Site Investigation*. Hazardous Waste Section, SMARTech '98, Raleigh, NC. (abstract/presentation)
110. Laton, W.R., 1998. *SimulProbe® Environmental Core Barrel*. EPA National Site Assessment Conference. Denver, CO. (Invited)
111. *Marcus, D.L., ²Bonds, C.L. and Laton, W.R., 1997. *Rapid Screening using the SimulProbe Multimedia Sampler – Case Histories and Future Directions*. New England Environmental Exposition. (abstract/presentation)
112. *²Laton, W.R., ²Hascall, A.P., ²Atekewana, E.A., Hampton, D.R., 1996. *Seepage Meter Spatial and Temporal Variability in the Study of Groundwater Interaction with Surface Water Features*. American Geophysical Union, San Francisco, CA. (abstract/presentation)
113. ²Laton, W.R., 1996. *Well Grouting Research*. Michigan Environmental Health Association, Ground Water Conference, Thompsonville, MI. (Invited)
114. ²Laton, W.R., 1996. *SimulProbe Sampling in Contaminated Areas*. University of Michigan Summer Hydrogeology Field Course, Wortsmit Research Center, MI. (demonstration/presentation)
115. *Barnes, D.A., ²Kovacich, M.S., ²Limez, S., and ²Laton, W.R., 1995. *Error Analysis in Great Lakes Beach Profile Surveying Techniques*. Canadian Coastal Conference, Dartmouth, Nova Scotia. (abstract/presentation)
116. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Colloquium on Environmental Earth Science, Western Michigan University, Kalamazoo, MI.
117. ²Laton, W.R., 1995. *Environmental Uses of Low-Altitude Aerial Photography*. Hi-Shots International Conference, Saint Louis, Missouri. (Invited)
118. *Mackey, S.D., Guy, D.E., ²Laton, W.R., and ²Kovacich, M., 1994. *Geologic Framework of an Eroded Lake Erie Coastal Marsh – Metzger Marsh, Ohio*. North-Central Geological Society of America, Kalamazoo, Michigan. (abstract/presentation)
119. *Vincent, R.K., ²Laton, W.R. and ²Sattler, J., 1993. *Detailed Modeling of Solid Waste Landfill Surface Water Run-off from High Resolution Elevation Data Automatically extracted From Stereo Photos Taken by a Camera on a Tethered Balloon Platform*. Association of Engineering Geologists, San Antonio, Texas. (abstract/presentation)
120. ²Laton, W.R., 1993. *Site Characterization and Mapping Utilizing a Tethered Balloon System*. HI-SHOTS International Convention, Saint Louis, Missouri. (Invited)
121. ²Laton, W.R., 1992. *Coastal Processes and Use of a Blimp*. Shoreline Erosion and Coastal Processes in Berrien County, Lake Michigan College Environmental Center, St. Joseph, Michigan. (abstract/presentation)
122. *²Laton, W.R. and Straw, W.T., 1992. *Small-Scale Coastal Cells; Identification and Mapping*. First Thematic Conference, Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana. (abstract/poster)

123. ²Laton, W.R., 1991. *Undercurrent Stabilization Anchor Systems at Tawas on Lake Huron and Douglas on Lake Michigan – A One-Year Study*. Michigan Academy of Science, Ypsilanti, Michigan. (abstract/presentation)

¹Undergraduate Student; ²Graduate Student; * Presenter

SUPERVISED COMPLETED THESES

Student Name	Year	Degree	Thesis Title
Moss, Michael	2025	BS	Investigating the Crushability of Natural and Synthetic Materials by Size and Shape for Water Well Applications
Ducharme, Brian	2025	BS	Percolation Modeling of An Alternative Adsorbent Considered for PFAS Treatment During Managed Aquifer Recharge
Ruiz, Roberto	2025	BS	Finding Suitable Locations For Recharge Systems In And Around The Rancho Mission Viejo Riding Park, California
Woodard, Brennen	2025	BS	Evaluating Potential Recharge Sites Using Three-Dimensional Modeling In The Rancho Mission Viejo Riding Park, California
Gomez, Jaysen	2024	BS	Automated Grain Shape and Size Characterization from Digital Images Using Computer Vision Techniques
Villegas, Isaak	2023	BS	PFAS Chemical Monitoring in Orange County, California
Williams, Andrew	2023	MS-ENST	Monitoring Water Quality of a Wetland: A Case Study in Norco, CA
Montgomery, Jakob	2022	BS	Flowability of Filter Packing Materials Based on Grain Size and Fluid
Esparza, Nestor	2022	BS	Fate and Transport of Contaminants in the South Basin Plume
Velasco, Melissa	2022	BS	Chino Basin Dairy Farm Nitrate Contributions
Kreller, Ethan	2021	BS	Analysis of Caltrans Boring Logs to Evaluate the Shallow Subsurface Vulnerabilities
Nagata, Brayden	2021	BS	Relationship Between Groundwater, Selenium Concentration, and the Corcoran Clay, NW Fresno County, CA
Zeko, Mike	2021	BS	Pomona Perchlorate Study
Strohm, Chelsea	2021	MS-ENST	The Use of Physical Groundwater Models in Higher Education
Allen, Ronald	2020	BS	The Carboniferous and Pleistocene; An Analysis on the Genus Preset within Geologic Time
Rangel, Liliana	2020	BS	Water Budget of the San Geronio Mountains Mill Creek and Santa Ana River Water Basin
Martinez, Charles	2020	BS	Implications of Grain Size on Hydraulic Conductivity
Murphy, Patrick	2020	MS-ENST	Evaluating the Fate of Legacy 1,4-Dioxane and NDMA in Orange County's Coastal Aquifers
Severin, Vitoria	2020	MS-ENST	Analyzing the Mission Valley Aquifer as a Groundwater Source in San Diego, CA.
Barragan, Adrian	2019	BS	Examining the Water Quality from a Section of the Santiago Creek
Chacon, Diana	2019	MS	Thermal Infrared Remote Sensing for Water Temperature Assessment Along the Santa Ana River Using an Unmanned Aerial Vehicle (UAV) System

Alonzo, Terrinda	2018	BS	13-Year Analysis of Water Pressure and Chemical Changes from Well CSF-1, Fullerton, CA
Case, Aaron	2018	MS-ENST	Perchlorate in Urban and Industrial Environments
Cragg, Byron	2018	BS	Designing Scientific Payloads for Use on Extra-Planetary Rovers
Emilio, Chelsea	2018	MS-ENST	Urban Firework Fallout
Escobar, Adrian	2018	BS	Ground Source Heat Pump Potential Characterization for California State University, Fullerton
Lopez, Daniel	2018	MS-ENST	Should California Price Water as a Commodity to Increase Conservation?
Meadows, Adam	2018	BS	Investigation and Monitoring the Spread of Water Contaminates Using an Open-Source Database in the Orange County Area
Offner, Erica	2018	MS-ENST	Carbon Dioxide Levels in Water Vapor
Vanderwal, Joshua	2018	BS	Safety Element for Cal State University Fullerton – Understanding of Hazards Surrounding the Campus
Grajeda, Remington	2017	MS-ENST	Shaping Environmental Attitudes in Students: An Inquiry-based Approach
Kennedy, Taylor	2017	MS-ENST	Investigation of the Laguna Cell Beaches Using Lidar and Erosional Examination
Masters, John Paul	2017	MS-ENST	Subsurface Analysis of Orange County Water District's La Palma Groundwater Recharge Basin in Anaheim, California
Forester, Danielle	2017	BS	Water Budget and Audit: Premier Color Nursery
Ibarra, Nancy	2016	BS	Drilling Methodology: A Field Guide and its Use for the Drilling Industry
Pham, Christine	2016	MS-ENST	Efficacy of Capsaicin-based epoxy coating for preventing attachment of Quagga mussels (<i>Dreissena Bugensis</i>)
Battig, Lisa	2015	MS-ENST	An Educational Kit Elucidating the Connections Between Sanitation, Hygiene and Waterborne Disease
Masters, John Paul	2015	BS	Subsurface Analysis of fluvial sediments from the Holocene-Pleistocene Epochs at California State University, Fullerton, California
Natividad, Anthony	2015	BS	A Hydrogeological Survey of a Mountainous Region: The Significance of Monitoring a Water Budget at a Localized Source
Carreon, Rosangela	2014	MS-ENST	Remote Sensing Climatic Impact on Snow Cover for the San Gabriel Mountains in Southern California
Cortez, Lucy	2014	BS	Wetlands Delineation using Dendrochronology and Historical Rainfall Data to Cross-date the Climatic Stress Regimes in the Prado Dam Basin Located in Corona, Riverside County, California
Law, Natalie	2014	BA	Evolution and Growth of a Mitigation Wetland: A Case Study in Norco, California
Morlan, Randall	2014	MS	The Effects of Agricultural Activities on the Migration of the Hinkley Chromium Plume, San Bernardino County, California
Dubberke, Kirk	2013	BS	Malibu Creek Watershed – Aquifer Testing Analysis
Kennedy, Taylor	2013	BS	Metasomatism of the Bird Spring Formation near Slaughterhouse Springs, California
Irani, Fabian	2013	BS	The Use of Groundwater Fluctuations in a Tidal Zone for the Determination of Aquifer Properties
Lockhart, Benjamin	2013	MS-ENST	Colonial Nesting Seabirds in Burris Basin: Forage Prey Availability Assessment and Habitat Enhancement Suggestions

Maine, Lindsay	2013	MS-ENST	Media Blending: Which Combination is Best for Stormwater Discharge from Scrap Metal Recycling Operations?
Vavricka, Emily	2013	MS-ENST	A Forensic Evaluation of Dry Cleaners: A Case Study in Santa Ana, California
Cadaret, Erik	2012	BS	Hydrogeologic Investigation and Geochemistry Analysis of the Sheep Creek Fans Regional Aquifer, San Bernardino County, CA
Dotzer, Alec	2012	BS	Lithologic Analysis of a Soil Layer at Various Points via a Biosparge Pilot Test at a Contaminant Impacted Site in Coachella Valley, Riverside County, CA
Hoffman, Michael	2012	MS	Hydraulic Tomographic Modeling of the Yorba Linda Water Well Field, Yorba Linda, California
Martin, Allen	2012	MS-ENST	Lower Owens River Project, Recovery: A longitudinal imagery analysis of near river vegetation change along the Owens River, Owens Valley, Inyo County, California
Sickler, Heidi	2012	MS-ENST	Environmental Change in the Wetland Ecosystem of Fish Slough in Bishop, California Derived from Wetland Delineation Methods and Aerial Photography
Xayarath, Van	2012	MS-ENST	Orange County's Water Supply: A preliminary research to convert storm channels to natural bottom streams for basin recharge
Evans, Patrick James	2011	MS-ENST	Desalination in Southern California: The Inevitable wave of the future!
Rimbenieks, Mikaila	2011	MS-ENST	Quantifying Forest Natural Background and Road Sediment Yield in Big Bear Lake, California
Barker, Shelby	2010	MS	An Investigation of the Potential for Surficial Recharge in the Lucerne Valley Groundwater Basin, Mojave Desert, CA
Velarde, John	2009	BS	The Geology of Spring Systems in the Vicinity of White Mountain/Silver Creek, Lucerne Valley, San Bernardino County, California
Carle, Chris	2009	BS	The Phase I Environmental Site Assessment
Luedy, Justin	2008	MS-ENST	Testing the Relationship of Dissolved Metals in Stormwater, Newport Beach, California
Barthel, Peggy	2008	MS	Water Budget and Hydrogeologic Model of Spring Flow at Limestone Hill, Zzyzx Desert Studies Center
Daley, Dale	2008	BS	Subsurface Mapping of the El Mirage Groundwater Barrier, San Bernardino County, California
Monzon, Eric	2008	MS-ENST	Estimating Applied Irrigation for Urban Landscapes in South Coast Southern California, Using Theoretical and Conventional Means
Ebbs, Veva	2008	MS-ENST	Quantification of Sub-Surface Groundwater Flow from Middle Mojave River Valley Basin into the Harper Lake Basin
Kolstad, Kenneth	2007	MS	Analysis of a Steady-State Model: Prediction of Trichloroethylene Vapor Concentration, Using Known Dissolved Phase Concentration
Lizzi, Anthony	2007	MS	Evaluation of the Potential Groundwater Resources of the Golem Well West Rancho Bernardo, San Diego County, California
Patschull, Eric	2007	MS	Evidence of a North Projecting Ancient Boulder Thalweg in Latest Quaternary Deposits of the Santa Ana River, Orange County, California
Cruikshank, Michael	2006	BS	Hydrogeological Investigation of an Open Alluvial Basin: Oeste Hydrologic Sub-basin, San Bernardino County, California

Dolmat, Joan	2006	BS	Deep Multiport Research Monitoring Well, CSF-1, Fullerton, CA: Stratigraphy, Lithology and Geologic Setting
Hunt, Sean	2006	MS	Artificial Recharge as Possible Causes of Observed Long –Term Change in Transmissivity for the Aquifers of the San Pedro Formation in the Central Basin of the Greater Los Angeles Basin, California
Williams, Steve	2006	MS	Hydrogeologic Investigation of a Shallow Aquifer System with Emphasis on Precipitation Induced Groundwater
Surko, Tammy	2006	MS	Gravity survey of Lucerne Valley, San Bernardino County, Mojave Desert, southern California: implications for basin geometry and structure
Blazevic, Mike	2005	BS	Hydrogeological Investigation of a Closed Alluvial Basin: Lucerne Valley, San Bernardino County, California
Napoli, Nick	2005	BS	Change in Groundwater Storage in the Lucerne Valley Groundwater Sub-Basin — 1954 To 2002, Lucerne Valley, California
Nguyen, Chinh	2005	MS-ENST	Application of Convex Hull in Identifying Pollution Sources in the Central and West Coast Basins, Los Angeles County, California
Brendle, Christine	2004	BS	Remediation of Soil and Groundwater at a Former Service Station
Hajmanouchehri, Daneh	2004	MS-ENST	Water Quality in Relation to Watershed Management in The Lower San Gabriel River, Southern California
McCurdy, Jim	2004	MS-ENST	Water Chemistry and Groundwater Flow for the San Bernardino Mountains
Versluis, Patrick	2004	MS-ENST	The Fate of Perchlorate: A Look at Perchlorate Entering Orange County's Groundwater
Yuen, Pansy	2004	MS-ENST	Performance Assessment on Water Quality and Biological Effects of Urban Stormwater Runoff, Norco Hills Wetland, Riverside County, California
Evans, Rachel	2003	BS	Water Quality Analysis – Yellowstone National Park
Figueroa, Otto	2003	MS	Groundwater Flow Model of a Coastal Aquifer, Malibu, California
Hasegawa, Shuichi	2003	MS-ENST	Environmental Hazard Risk Assessment on Water Resources along the Santa Ana River
Kerza-Kwiatecki, Paul	2003	MS-ENST	Monitoring the Rocky Inter-Tidal Zone of Crystal Cove State Park; Creation of an interactive GIS bio-database
Springer, Ben	2003	MS-ENST	The Importance of Wetland Monitoring: A Case Study of a Restored Wetland in Norco, California
Thomas, Sean	2003	BS	Dewatering Plan for the El Toro Area
DeKraker, Dan	2003	BS	Development of a Ninth Grade Earth Science Course
Brand, Randy	2002	BS	Hydrogeologic and Geologic Considerations for Selected sites near the Santa Margarita, Upper Ysidora, and Lower Ysidora Groundwater Basins in Southern California
Figueroa, Otto	2002	BS	Hydrogeologic Characterization and Assessment of Impacts of Wastewater Discharge for Proposed Construction, Trancas Canyon, Malibu, California
Rosales, Tom	2002	MS-ENST	An examination of the benefits and costs to implement the Municipal Storm Water Permit for Orange County – similarities and differences between coastal and inland cities
Schmucker, Kelly	2002	MS-ENST	Water Quality of a Wetland A Case Study in Norco, CA
Wiles, Steffy	2002	BS	Angels Camp – Gamma Ray Logging Examination and Correlation

Eckhart, Lance	2001	MS-ENST	Vertical Gradient Investigation of a Southern California Landfill
Fields, David	2001	BS	Orange County Groundwater Contour Maps for 2000
Rashidi-Fard, Shaghayegh	2001	BS	Water Quality Testing and Monitoring Program at the Santa Rosa Ecological Reserve
Vortis, Kevin	2001	BS	Geologic History of San Elijo Lagoon San Diego County, California
Mathew Blinstub	2000	MS-ENST	Spatial and Temporal Differences in Surface Water Quality in Newport Bay and San Diego Creek, Orange County, California, from 1976 to 1996

SELECTED SHORT COURSES, AND WORKSHOPS ATTENDED

- Johnson Screens – Groundwater and Wells
- IGSHPA – Train the Trainer Course
- NGWA – Keeping the Pump Primed, Aquifer Sustainability
- AAPG – Environmental Regulatory Course
- Advanced Technologies for Accelerated Natural Attenuation
- Applied Microbiology – Understanding Bacterial Augmentation, Montreal, Canada
- Baroid Industrial Drilling Products – Drilling and Boring Fluids
- CWEA – How to Start, Perform, and Complete a Successful Public Works Water/Wastewater Project
- EPA – Bioremediation of Hazardous Wastes: Research, Development, and Field Evaluations
- EPA – Natural Attenuation; EPA – Statistical Analysis of Ground Water Data (GRITSTAT)
- EPO/GRA – Aquifer Remediation: Bioremediation and Oxidation Technologies
- FEMA – Advanced HAZUS Training for GIS Professionals
- Managing Toxics in Michigan – Air, Waste and Remediation
- MGWA & MDPH – Ground Water & Wells Fundamentals
- Michigan Citizens Conference/Workshop on Great Lakes Areas of Concern
- NGWA – Remediation of Ground Water Contamination
- NSF – The Cutting Edge “*Teaching Hydrogeology in the 21st Century*”
- EPA - Protecting Water Quality through Land Use Planning & Zoning
- Reducing Risk in High Seismic Hazard Zones
- Seismic Reflection/Refraction Interpretation

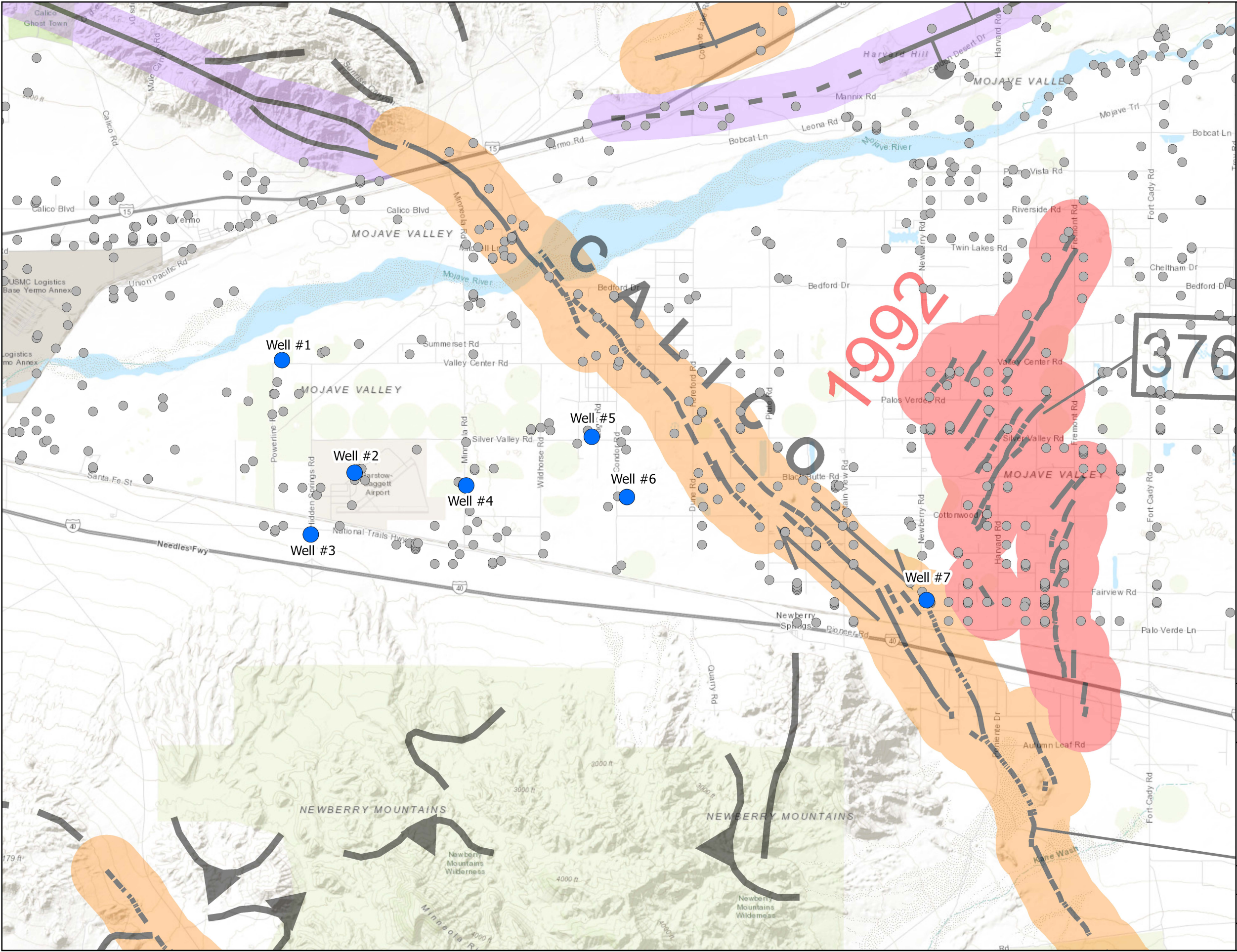
AFFILIATIONS

- California Groundwater Association
- Groundwater Resources Association of California
- International Association of Hydrogeology
- National Ground Water Association
- South Coast Geological Society
- International Ground Source Heat Pump Association
- American Institute of Professional Geologists

VOLUNTEER WORK

- WMU Spring Geobree (2021 – present)
- WMU Alumni Gathering (2019 - present)
- CSUF Alumni Fall Dinner (2013 - present)
- CSUF Geology Research Day (2017 - present)
- Santiago Middle School – Taught Plate Tectonics and Science (2018)
- Science Olympiad Assistant (2013 - 17)
- Elementary School presentations annually: “*The Water Cycle*”
- Little League: Coaching assistant, scorekeeper (2010 – 15)
- CSUF – Gerontology Seminar Series (2005)
- Boy Scouts of America Troop, Identification of Rocks (2000 – 2008)
- NGWA – Developed online Well Construction and Development Course (2004)
- El Dorado Nature Center – Provided expertise for a variety of activities.
- National Sanitary Foundation – Worked on a task force to rewrite standards for water well materials.

EXHIBIT 2



LEGEND

- Groundwater Monitoring Well (See Figures 3b & 3c for Hydrographs)
- Other Monitoring Wells

NOTES

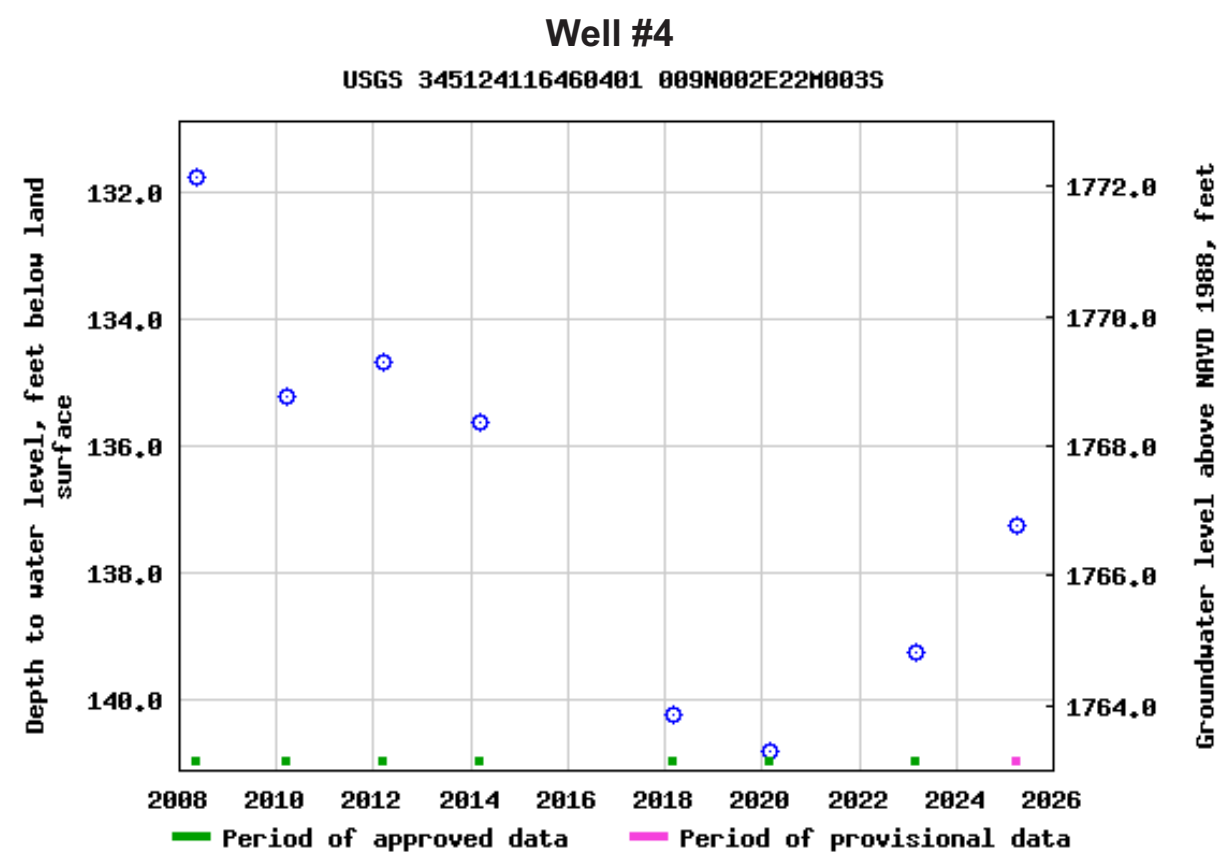
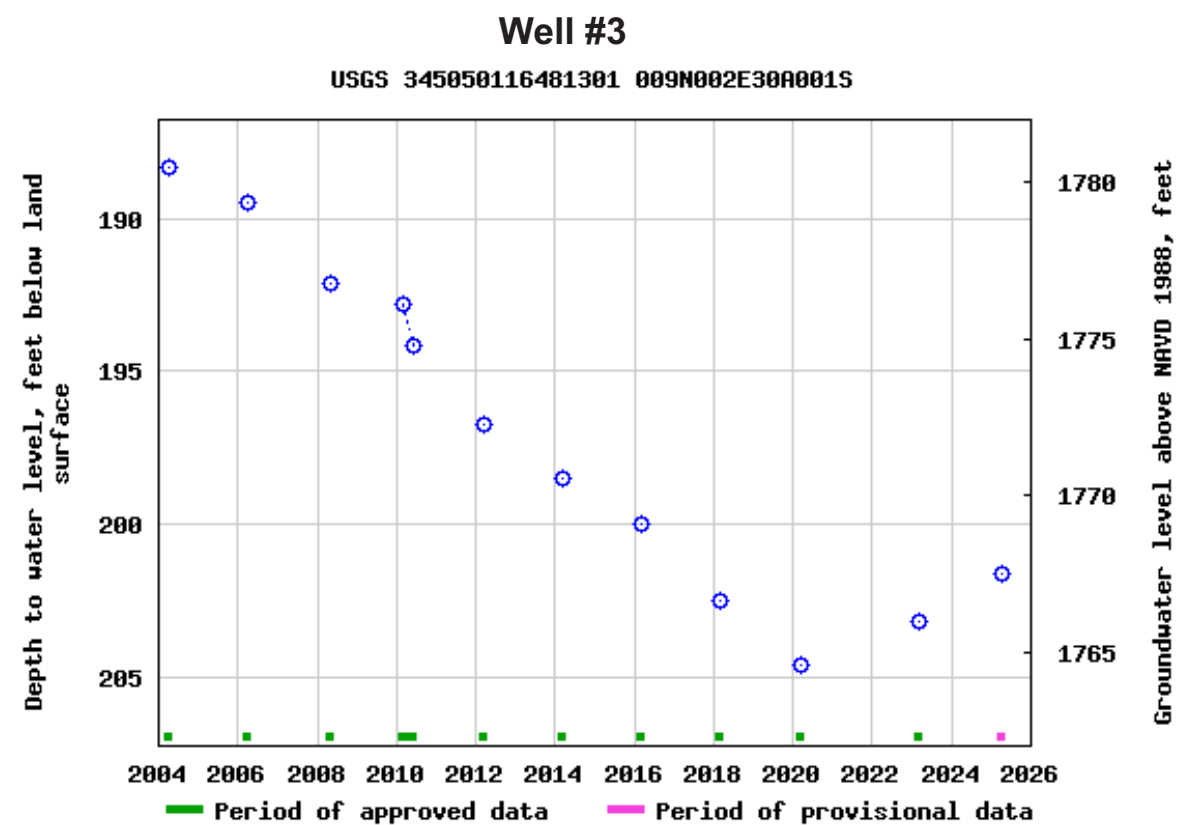
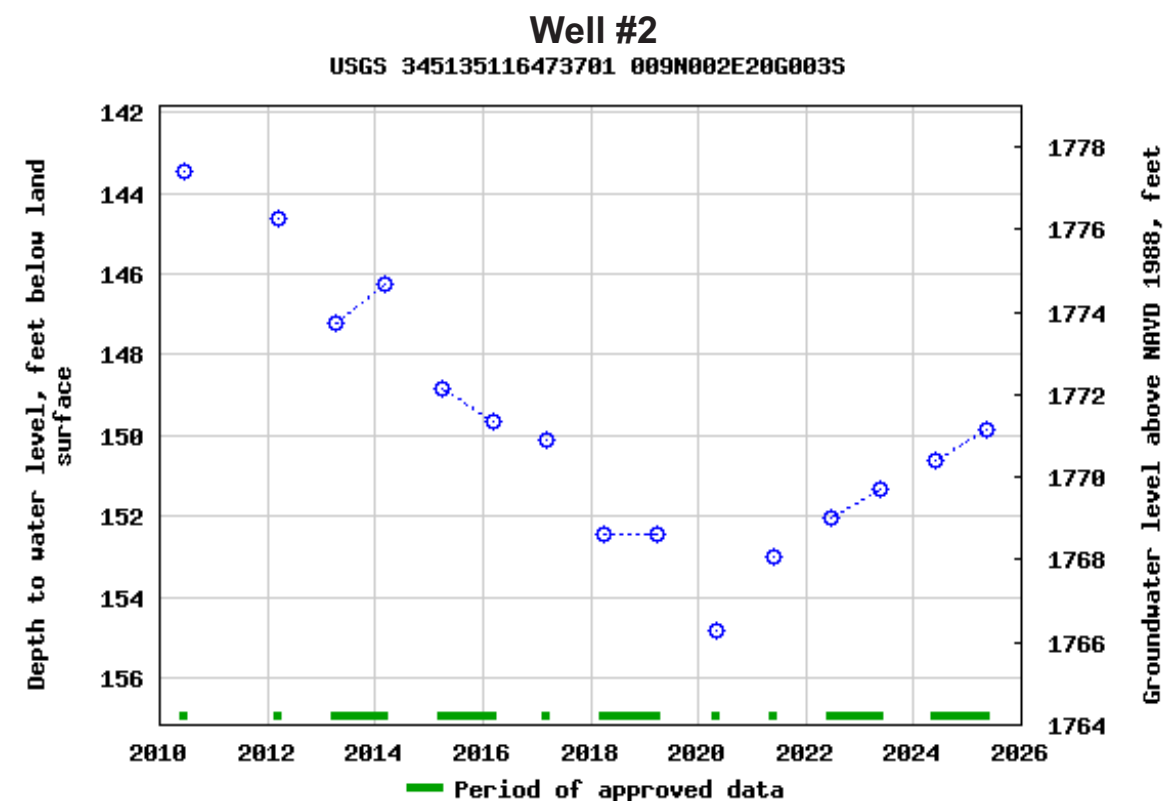
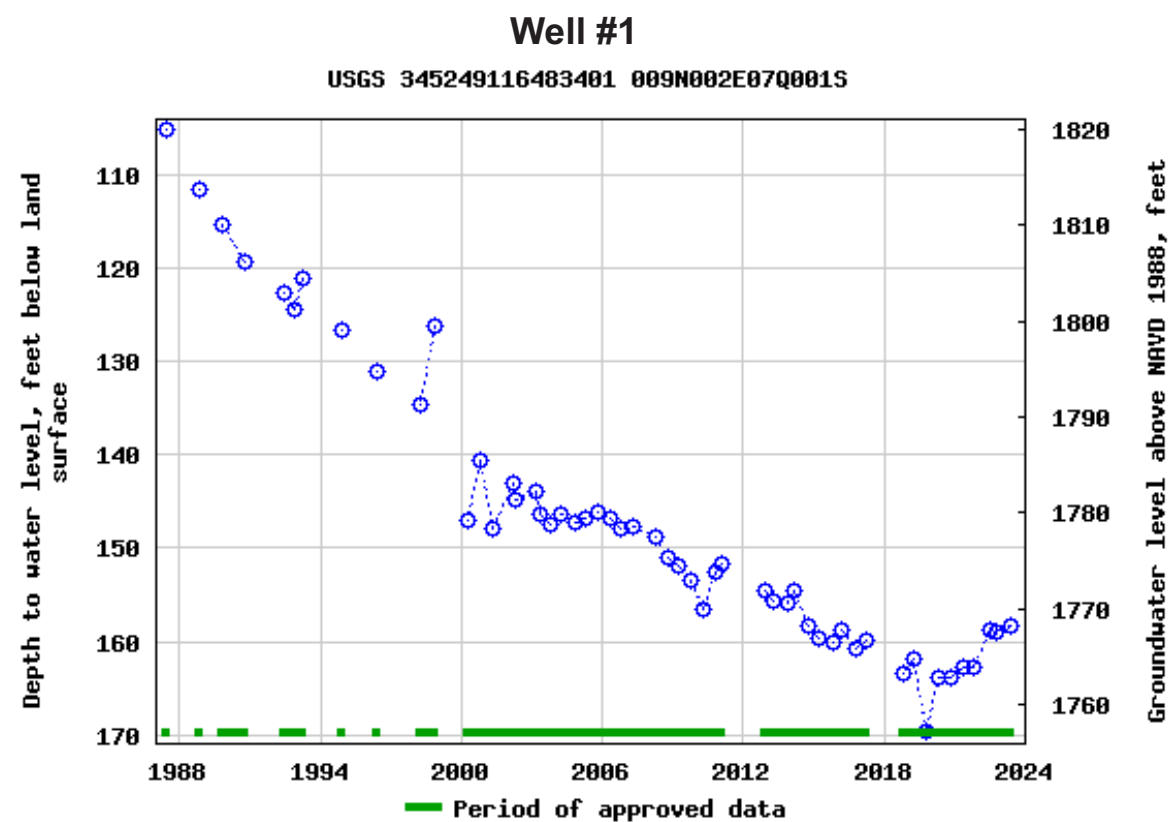
ESRI, 2025; USGS, 2025;
California Geological Survey, 2010.



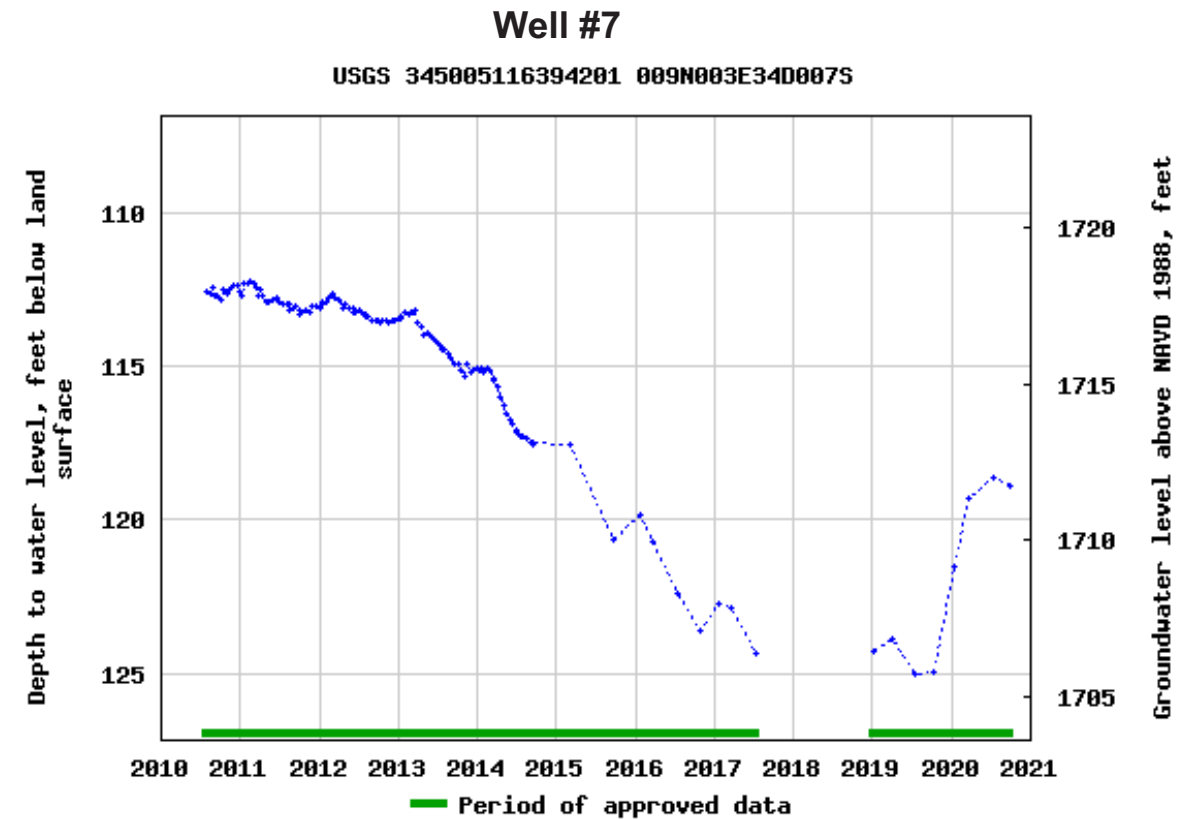
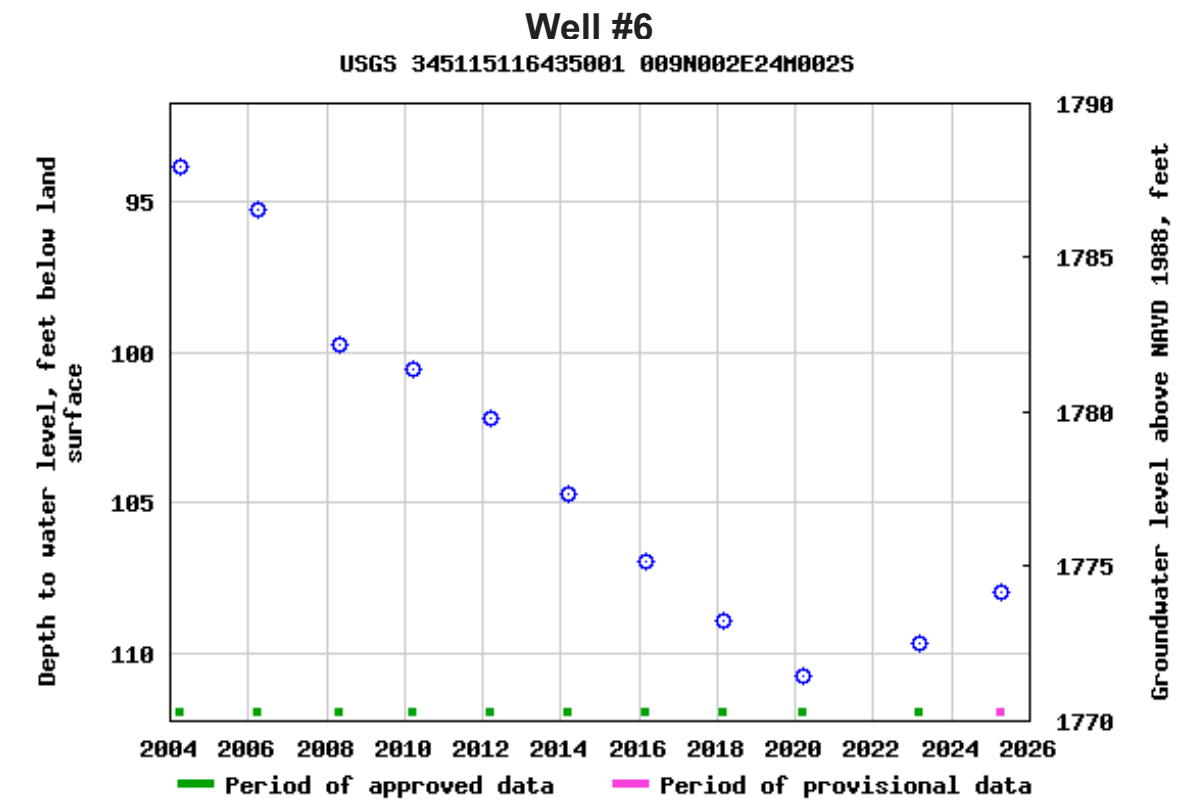
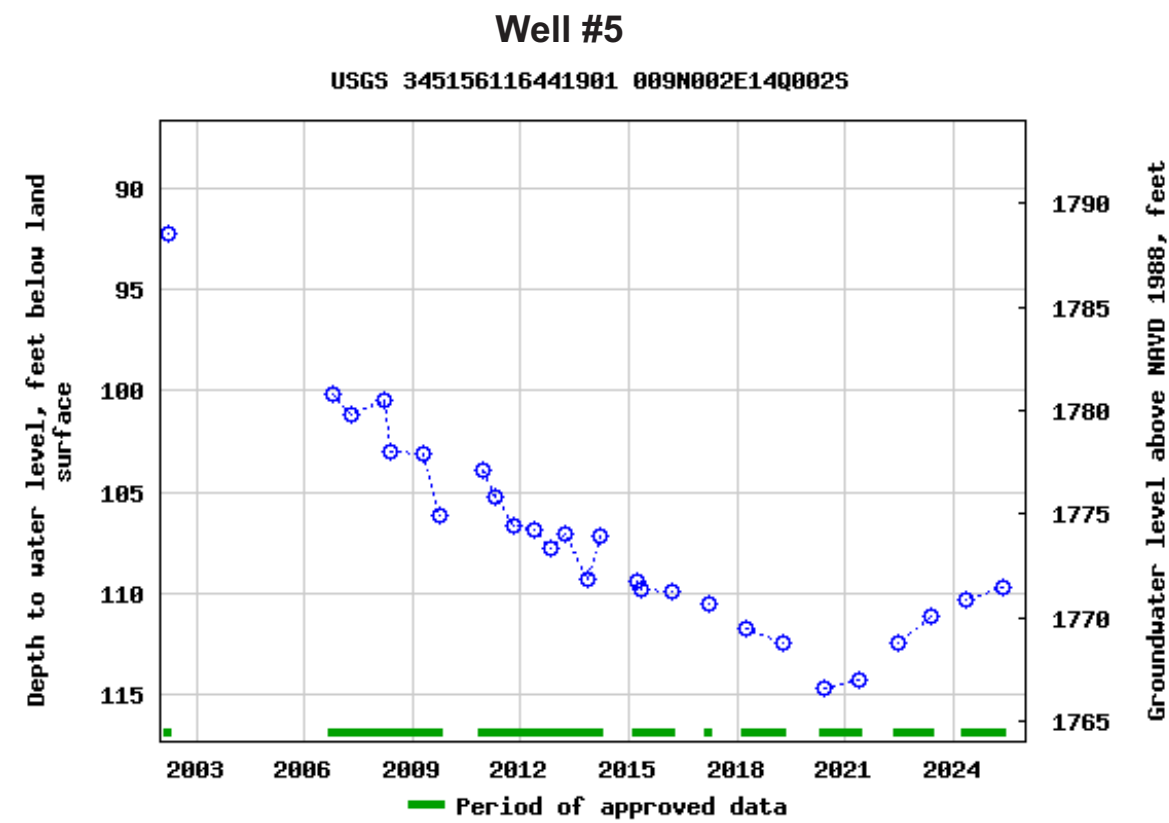
USGS Wells

Newberry, CA

Date	October 2, 2025	Prepared By	DY
Project Name	Newberry_Water	Figure	03a
Project Number	2018.245		



Source: USGS, 2025



Source: USGS, 2025

EXHIBIT 3

Exhibit 3: PSY Base Period Recalculation

	PSY based on 1931-1990 Base Period	PSY based on 2001-2020 Base Period	Difference	Percent Difference
Este	4,728	5,108	+ 380	+ 7.73%
Oeste	1,712	3,634	+ 1,922	+ 71.90%
Alto	64,406	62,233	- 2,173	- 3.43%
Centro	21,088	31,420	+ 10,332	+ 39.35%
Baja	14,544	10,866	- 3,678	- 28.95%

EXHIBIT 4

Exhibit 4

Exhibit 1: Historical Annual Stream Gage Flow Data

Water Year	1909	1910	1911		1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
West Fork+Deep Creek	96,200	181,000	147,000		34,316	15,471	101,500	22,443	16,087	57,555	24,000	169,119	218,783	40,470	31,065	161,083	25,990	149,934	86,514	70,732	54,515	50,243	13,611	23,022	12,409	2,215	102,659	8,818	54,370	17,904	16,152	22,045	148,920
Upper Narrows						22,170	84,200																										
Lower Narrows	90,700	138,000	130,000			22,463	83,950	23,915	23,820	33,806	20,366	150,246	188,037	29,675	27,394	143,332	25,789	127,293	77,429	54,641	43,228	37,206	26,261	22,854	21,628	20,824	66,591	21,810	31,232	22,528	21,691	20,557	98,041
Point of Rocks	80,100	111,000	112,765																														
Wild Crossing																																	
Hodge						2,317	59,510																										
Barstow						0	37,374	0	0	1,184	0	103,879	138,094	550	0	96,003	100	90,974	36,155	22,087	12,577	2,876	0	0	0	0	12,514	0	0	0	0	20,067	
Dagett																																	
Afton					947	1,267	18,850	1,000	1,000	1,000	1,000	54,070	72,200	1,000	1,000	49,900	1,000	47,200	18,200	10,800	6,720	1,000	1,000	1,000	1,000	1,000	2,190	990	953	913	901	752	2,784
Water Year	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
West Fork+Deep Creek	18,382	8,761	4,483	67,257	5,645	10,867	21,458	116,269	128,070	24,542	341,495	17,107	20,423	21,647	40,687	18,316	16,847	23,638	11,699	362,635	112,215	306,310	16,094	57,773	262,148	29,248	24,542	45,972	10,816	17,332	10,946	7,783	38,262
Upper Narrows																																	
Lower Narrows	20,341	19,229	18,904	26,756	17,034	17,052	16,797	51,010	74,212	18,745	291,090	23,117	20,416	22,733	34,750	17,737	16,651	20,126	28,235	209,082	72,324	228,918	23,167	35,330	189,173	26,932	21,067	16,941	14,479	16,072	11,511	8,905	10,932
Point of Rocks																																	
Wild Crossing									40,977	14	229,063	3,779																					
Hodge												0	660	4,387	4	0	0	0	10	147,472	31,855	171,580	0	10,136	148,124	1,962	0	3	0	0	0	0	
Barstow	4	0	0	734	0	1	6	6,352	7,693	0	146,600	0	0	43	151	1	0	1	2	50,460	5,560	137,264	0	1	92,957	42	0	0	0	8	0	0	
Dagett																																	
Afton	596	681	669	563	752	537	566	4,782	1,466	356	72,730	543	360	595	310	436	159	295	898	46,841	1,200	66,700	1,383	1,050	13,321	1,810	682	550	562	912	432	547	738
VVWRA																												4,346	4,635	5,502	6,369	6,971	7,308

Water Year	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
West Fork+Deep Creek	75,293	428,516	36,271	198,946	34,750	31,710	169,915	9,288	19,236	17,404	2,454	34,178	36,778	355,251	106,930	5,877	50,243	30,899	102,441	210,095	29,683	9,419	12,083	9,035	10,664	57,483	16,275	90,641	56,469	4,213	19,670	250,275	103,889	7,406
Upper Narrows																																		
Lower Narrows	24,470	285,388	10,932	113,301	11,004	8,181	83,473	9,412	6,972	5,618	4,554	6,248	5,372	192,575	27,221	4,937	9,122	4,366	19,185	126,405	9,484	7,312	6,784	5,611	4,952	9,629	3,786	27,511	15,421	4,923	3,967	96,577	41,339	6,856
Point of Rocks																																		
Wild Crossing																																		
Hodge	2,128	181,716																														84,415	41,700	0
Barstow	28	122,785	0	11,077	0	0	10,498	0	0	0	0	0	0	126,187	182	0	10	1	374	23,384	0	0	42	0	0	0	0	169	0	0	0	8,688	32	0
Dagett																																4,445	4	0
Afton	626	66,605	484	434	631	646	1,289	565	282	350	239	248	392	44,669	186	150	166	112	190	6,407	301	117	1,404	366	159	292	197	86	245	89	1144	1,028	140	24
VVWRA	7,428	7,356	7,789	7,958	8,512	8,728	9,378	8,776	9,065	9,306	9,739	10,317	11,425	13,255	13,568	13,086	13,881	13,664	14,555	14,868	14,724	14,338	12,918	12,942	12,990	13,279	12,870	13,719	13,719	13,346	15,095	14,274	14,290	

Incomplete, Estimated

LOW FLOW YEARS: Years where less than 29,000 AF measred at Lower Narrows
Years where over 29,000 AF, but less than 100,000 AF were measured at Lower Narrows
STOM YEARS: Years where over 100,000 AF were measured at Lower Narrows

Water Year [YEAR]= October 1, [YEAR-1] to Septeber 30, [YEAR]

PROOF OF SERVICE

STATE OF CALIFORNIA, COUNTY OF ORANGE

I am employed by the law office of Rutan & Tucker, LLP in the County of Orange, State of California. I am over the age of 18 and not a party to the within action. My business address is 18575 Jamboree Road, 9th Floor, Irvine, CA 92612.

On March 5, 2026, I served on the interested parties in said action the within:

1. NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO WATERMASTER'S RENEWED MOTION FOR DETERMINATION OF HYDROLOGIC BASE PERIOD FOR CALCULATION OF PRODUCTION SAFE YIELD VALUES; MEMORANDUM OF POINTS AND AUTHORITIES;

2. DECLARATION OF W. RICHARD LATON IN SUPPORT OF NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO WATERMASTER'S RENEWED MOTION FOR DETERMINATION OF HYDROLOGIC BASE PERIOD FOR CALCULATION OF PRODUCTION SAFE YIELD VALUES; MEMORANDUM OF POINTS AND AUTHORITIES;

3. DECLARATION OF JEREMY JUNGREIS' IN SUPPORT OF NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO WATERMASTER'S RENEWED MOTION FOR DETERMINATION OF HYDROLOGIC BASE PERIOD FOR CALCULATION OF PRODUCTION SAFE YIELD VALUES; MEMORANDUM OF POINTS AND AUTHORITIES;

4. NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO MITSUBISHI CEMENT CORPORATION'S NOTICE OF MOTION AND MOTION TO SELECT HYDROLOGIC BASE PERIOD OF 1995-2024; MEMORANDUM OF POINTS AND AUTHORITIES;

5. DECLARATION OF W. RICHARD LATON IN SUPPORT OF NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO MITSUBISHI CEMENT CORPORATION'S NOTICE OF MOTION AND MOTION TO SELECT HYDROLOGIC BASE PERIOD OF 1995-2024; and

6. DECLARATION OF JEREMY JUNGREIS IN SUPPORT OF NEWBERRY SPRINGS RECREATIONAL LAKES ASSOCIATION'S OPPOSITION TO MITSUBISHI CEMENT CORPORATION'S NOTICE OF MOTION AND MOTION TO SELECT HYDROLOGIC BASE PERIOD OF 1995-2024

as stated below:

☒ (BY EMAIL or ELECTRONIC TRANSMISSION TO THE WATERMASTER)

I did not receive, within a reasonable time after the transmission, any electronic message or other indication that the transmission was unsuccessful; and pursuant to the Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.8.2 which provides for service by electronic mail upon election by the Party or paragraph 10.D, which provides that Watermaster shall mail a postcard describing each document being served, to each Party or its designee according to the official service list, a copy of which is attached hereto, and which shall be maintained by the

1 Mojave Basin Area Watermaster pursuant to Paragraph 37 of the Judgment. Served documents
2 will be posted to and maintained on the Mojave Water Agency's internet website for printing
and/or download by Parties wishing to do so.

3 Executed on March 5, 2026, at Irvine, California.

4 I declare under penalty of perjury under the laws of the State of California that the
5 foregoing is true and correct.

6 Beth P. Vaca
7 (Type or print name)

/s/ Beth P. Vaca
(Signature)

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SERVICE LIST

Mojave Basin Area Watermaster
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Watermaster Services Manager
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PROOF OF SERVICE

**STATE OF CALIFORNIA }
COUNTY OF SAN BERNARDINO}**

I am employed in the County of the San Bernardino, State of California. I am over the age of 18 and not a party to the within action; my business address is 13846 Conference Center Drive, Apple Valley, California 92307.

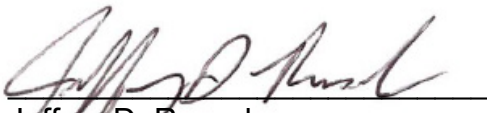
On March 5, 2026, the document(s) described below were served pursuant to the Mojave Basin Area Watermaster's Rules and Regulations paragraph 8.B.2 which provides for service by electronic mail upon election by the Party or paragraph 10.D, which provides that Watermaster shall mail a postcard describing each document being served, to each Party or its designee according to the official service list, a copy of which is attached hereto, and which shall be maintained by the Mojave Basin Area Watermaster pursuant to Paragraph 37 of the Judgment. Served documents will be posted to and maintained on the Mojave Water Agency's internet website for printing and/or download by Parties wishing to do so.

Document(s) filed with the court and served herein are described as follows:

Declaration of W. Richard Laton in Support of Newberry Springs Recreational Lakes Association's Opposition to Mitsubishi Cement Corporation's Notice of Motion and Motion to Select Hydrologic Base Period of 1995-2024

 X (STATE) I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

Executed on March 5, 2026 at Apple Valley, California.



Jeffrey D. Ruesch

Mojave Basin Area Watermaster Service List as of March 05, 2026

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Contratto, Ersula
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Crystal Lakes Property Owners Association
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Attn: Renee Beaty (daggettsd@aol.com;
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Daggett Community Services District (via
email)
P. O. Box 308
Daggett, CA 92327-0308

Attn: Steve and Dana Rivett
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Daggett Solar Power 3 LLC (via email)
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Denver, CO 80202-1908

Darr, James S.
40716 Highway 395
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Attn: Alan L. De Jong
De Jong Family Trust
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Mojave Basin Area Watermaster Service List as of March 05, 2026

Attn: Randy Wagner
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Lucerne Valley, CA 92356-0392

Attn: Penny Zaritsky
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Desert Girlz LLC (via email)
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Lucerne Valley, CA 92356-0709

Attn: Denise Courtney
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Attn: Debby Wyatt
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Apple Valley, CA 92307-5525

Attn: Judith Dolch-Partridge, Trustee
Dolch Living Trust Robert and Judith
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Donaldson, Jerry and Beverly
16736 B Road
Delta, CO 81416-8501

Attn: Virginia Shaw
Dora Land, Inc.
PO Box 1405
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Attn: David Dorrance
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Dowell, Leonard
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Van Nuys, CA 91405-1423

Attn: Richard Bruce Fitzwater
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Frates, D. Cole (via email)
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Gabrych Family Trust dated October 9, 2007
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Fallbrook, CA 92028

Gabrych Family Trust dated October 9, 2007
2006 Old Highway 395
Fallbrook, CA 92028-8816

Gaeta, Miguel and Maria
9366 Joshua Avenue
Lucerne Valley, CA 92356-8273

Attn: Jay Storer
Gaeta, Trinidad
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Mojave Basin Area Watermaster Service List as of March 05, 2026

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San Dimas, CA 91773-5121

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Gordon Acres Water Company
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Attn: Eric Archibek
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Attn: Nick Grill (Nick.terawatt@gmail.com)
Grill, Nicholas P. and Millie D. (via email)
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Mojave Basin Area Watermaster Service List as of March 05, 2026

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Hesperia, CA 92345-3493

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Mojave Basin Area Watermaster Service List as of March 05, 2026

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Dammeron Valley, UT 84783-5211

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Johnston, Harriet and Johnston, Lawrence W.
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Attn: Magdalena Jones
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Jones Trust dated March 16, 2002 (via email)
35424 Old Woman Springs Road
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Jordan Family Trust
1650 Silver Saddle Drive
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Attn: Ray Gagné
Jubilee Mutual Water Company
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Attn: Jilin Xiao
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Mojave Basin Area Watermaster Service List as of March 05, 2026

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Mojave Basin Area Watermaster Service List as of March 05, 2026

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Mojave Basin Area Watermaster Service List as of March 05, 2026

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