

Sustainable Groundwater Management Act

1 message

Carmen Rodriguez <carmen@yuimamwd.com>

Fri, Dec 4, 2020 at 4:02 PM

To: Carmen Rodriguez <carmen@yuimamwd.com>

Bcc: charm@charmlogandesigns.com, ERIC.JILES@yahoo.com, gregpalms@aol.com, Michael Perricone <michaelperricone31@gmail.com>, orosart5@gmail.com, paumamama10@gmail.com, pvwaterco1914@gmail.com, ROBERTHUMASON@yahoo.com, USLRWA@gmail.com, W.CLYALL@gmail.com, "A Tamarkin Trust, Paul" <mellssamother1@aol.com>, "Abeyta, Nicholas" <nicholas.abeyta@yahoo.com>, Al Stehly <al@stehlygrove.com>, Alayna Dean <acctg.mfm@hotmail.com>, Albert & Pamela Degen <CORSAIR023@msn.com>, Alberto Cueva <acuevapv@gmail.com>, Alexander and Thomas Orchards LLC <jthomas@hotm.com>, "Alvarez, Oscar & Ramona" <ramona2753@gmail.com>, AMANDA AGCAOLI <amandasaac3@gmail.com>, Andy Lyall <LYALLRANCH@gmail.com>, Anna Cabo <annacabo@aol.com>, Anthony Cinquini <anthony@anthyncinquini.com>, Antonio & Charlene Bolado <abolado@ft.newyorklife.com>, Art Haber <arthurhaber9@outlook.com>, "Ash, Gary W" <gary@fences4less.com>, Aurie <aurie@burgepacific.com>, "Bailey, Kenneth A@DOT" <kenneth.bailey@dot.ca.gov>, BARCLAY LEWISON <barclay.lewison@gmail.com>, "Barlie, Marian" <mailran.barlie@zestdent.com>, "Beazley, Adrienne" <bluecity76@gmail.com>, Bill Bauer <bill4hisglory@gmail.com>, Bill Knutson <wdknute@yahoo.com>, "Blakey, Patti" <blakeyrranch@aol.com>, Bo Mazzetti <bomazzetti@aol.com>, Borden Ranches LLC <bordenranches@yahoo.com>, "Bosworth, Timothy L" <tbosworth69@gmail.com>, Brian Hitchcock <coty.hitchcock@icloud.com>, Bruce Donnelly <leo360mix@hotmail.com>, Bruce Knox <Bknox@diginsurance.net>, "Bullock, Julia A" <wtjabullock@gmail.com>, Burnet Wohlford <HRMBURNET@sbcglobal.net>, CA Division of Forestry <ileen.rodriguez@fire.ca.gov>, "Campbell, Christopher" <mur88phy@gmail.com>, "Carreon, Guadalupe" <carreonursery@gmail.com>, "Castillo, Julio & Nancy" <jccastillo@peoplepc.com>, Cavaletto/McMillan Trust <mcmillanfamgmt@msn.com>, "Cederblom, Leif" <leifcederblom@gmail.com>, Cemansky Family Trust <SANDYCERN@att.net>, "Cesmat, Keaton" <keaton_cesmat@yahoo.com>, "Cherry, Albert" <albert@cherryeng.com>, Chris Ambuul <chris@ssgms.net>, Christina Cuevas <christinacuevas@live.com>, Christine Whalley <c.whalley@yahoo.com>, Chuck Bandy <MCMILLANFARMMGMT@msn.com>, Clemente Ramirez <teresaramirez255@gmail.com>, Colleen Heublein <heublein.co@vcpsd.org>, "Collins, Casey & Carol" <carccollins@aol.com>, "Collins, James" <predatorjockey@gmail.com>, "Condle, Jamie" <mrsjcondle@gmail.com>, "Coshow, Paul" <pcoshow189@gmail.com>, Craig Childs <palomesa3@hughes.net>, Craig Maloff <CRAIGMALOFF@gmail.com>, "Crispi, Nick" <tlcbarberservices@gmail.com>, "Currier, Ronald F" <randic2buddy@gmail.com>, Damaris-Moore Lmd Prtn <tom.moore@att.net>, Daniel Ingalls <dannyng89@gmail.com>, Daren House <slmpson@mcn.org>, David <david@isacpa.com>, Dennis Judkins <drill4you@aol.com>, Desheng Luo <1314like@gmail.com>, "Di Nardo, Domenic" <carmellem@vanderspekcpas.com>, Donald Armstrong <PAUMADON@gmail.com>, "Donnally, Bruce" <brucedonnally@hotmail.com>, Doug Anderson <MORORANGE1939@gmail.com>, DWIGHT & FRANCES Everett <FDEVERETT@earthlink.net>, Earl Rutz <EARLRUTZ1@me.com>, Endia Price <ENOLA@ecofarmsusa.com>, EVAN FORAYTER <eforayter@gmail.com>, "Fitzsimmons, FD" <fitzsimmons45@aol.com>, "For His Glory Farms, Inc." <BILL4HISGLORY@gmail.com>, Freeberg Survivors Trust <sierradel_oro@msn.com>, "Fritz, Patricia" <patsyfritz@aol.com>, "Gaboury, Dixie" <gaboury2@yahoo.com>, "Garcia, Rosanna" <sukmal22@gmail.com>, Gary Arant <garant@vcwd.org>, Gerry Luna <FLUORRANCH1953@gmail.com>, Gilbert Caballero <adjustgo@gmail.com>, "Golding, Charles G" <chuck@goldingpublications.com>, Grace Cardone <cdd@internet.com>, Greg Kamin <atranchllc@gmail.com>, "Gregory Palm Farms, LLC" <gregpalms1@gmail.com>, "Haber, Art J" <hooknsew@hotmail.com>, "Hall, Jesse & Rhonda" <jes2ron@yahoo.com>, Harian Beck <JBECK2@me.com>, "Hemminger, Janet" <janhemminger@gmail.com>, "Henderson, Susan" <vchendersonmom@aol.com>, Herb Slocum <jenniferhansen1@gmail.com>, "Hernandez, David" <davidhernandezgmc@yahoo.com>, "Hopkins, Robert & Cornelia" <bhopkins@vcweb.org>, "Hsiao, Lisa" <L.Hsiao@musicpeeler.com>, Jackson Ranch LLC <robert@jacksontriallawyers.com>, Jaime Serrato <serratofarms@aol.com>, "James, Allan E" <allanejames@hotmail.com>, "James, Erica" <ejames417@aol.com>, "James, Kenneth A" <james@csulb.edu>, Jane Cinquini <janecinquini@mac.com>, Janica Tallman <kmjmtal@gmail.com>, Jason McFarland <pasadenaoldhouse@gmail.com>, Jenelle Lea <jmlea7@hotmail.com>, "Jensen, Bernard" <zabathjensen@gmail.com>, Jesse Hutchings <JESSEW101@earthlink.net>, Joe Acavedo <joe@acavedoconstruction.net>, Joel & Olivia Maldonado <64maldonado@gmail.com>, JOEL SALAZAR <JSFL63@aol.com>, John Beresford <mootamalimwd@gmail.com>, John Northrop <jndoublejranch@gmail.com>, John Smith <rsmith18@yahoo.com>, Jon Demorest <JONDEMOREST@gmail.com>, Jordan Friske <jfriske@kw.com>, "Jorgensen, Alan L" <TEAMJORG@gmail.com>, Jose Luis Hernandez <jose@elpollofino.com>, Joseph Travers <joseph@ncicinc.com>, Josh Sinohui <joshsinohui@gmail.com>, "Kells, Bruce & Charleen" <char@aprobilling.com>, Kenneth Shull <KEN@sunrisefarmscitrus.com>, Kimberly Cucinella <kimcucinella@gmail.com>, Lauriano and Rufina Hernandez <lizruiz1120@yahoo.com>, "Lavine, Tom Jr." <TOMLAVINE20@gmail.com>, "Lea, Jenelle M" <jenellelea@gmail.com>, Linda Vogt <lvogt6900@gmail.com>, "Lori Johnson" <lajsn1234@gmail.com>, "Luna, Jackie" <jlr8984@yahoo.com>, Lynne Villalobos <LANEY3727@gmail.com>, Maria Price <mtpcaproperties@gmail.com>, MARIANN VARIN <marpmvly@gmail.com>, Mary Peterman <RNPETERMAN@hotmail.com>, Matthew Mellor <ASHLYMELLOR@gmail.com>, "McCafferty, Kenny & Robyn" <kezsez@gmail.com>, "Mendoza, Macaria De" <mendoza.laura@live.com>, Metta Forest Monastery <METTAMONASTERY@protonmail.com>, Michael Jeron <m_jeron@hotmail.com>, Montel I. Jones <montel.I.jones@hotmail.com>, Neil & Sandra Carey <nbcconsulting@cox.net>, "Nguyen, Hong Le" <dnwin2000@yahoo.com>, "Northrop, John H" <john.northrop1026@att.net>, Oggie Watson <oggie@tynursery.com>, Orest Baransky <oobaransky@outlook.com>, Paige Prosser <paige_prosser@yahoo.com>, Pala Band of Mission Indians <jmartinez@palatribe.com>, Pauline Stehly <pauline@stehlybrothers.com>, Pauma Band of Mission Indians <tmcandrews@pauma-nsn.gov>, Pauma Ridge MWC <accounting@fbflowers.com>, "Payne, Kursten" <kurcarlson@gmail.com>, Pedro Mercado <brothers.nursery@verizon.net>, "Peleti, Martha" <wdpeleti@gmail.com>, PETER APLEGATE <PAUMAPETE@comcast.net>, "Pillado, Edgar & Esther" <pilladose@yahoo.com>, "Pontsier, Steven L" <spontsier@gmail.com>, "Puck, R Laurence" <RLPUCK@gmail.com>, "Raiano, John" <dalenascaterfing@gmail.com>, Rancho Estates <bobby.graziano@gmail.com>, Rancho Eugenio <rick@henryavocado.com>, "Read, Ed Jr." <eddieread14@gmail.com>, "Reissler, Richard C" <richreissler@yahoo.com>, Richard Ross <farhorizons@cox.net>, Richard Walworth <RRWALWORTH@gmail.com>, RICK KARIYA <DARCY.KARIYA@gmail.com>, "Rico, Joshua & Alice" <ricofsh@gmail.com>, Robert <roberthumason@yahoo.com>, Robert Polito <POLITOFARMS@gmail.com>, Roberta Counts <rcounts@surreterproperties.com>, "Rodriguez, Gerard and Marquita" <marquitar@aol.com>, Roland Simpson <SIMPSON@mcn.org>, "Rollins, Howard" <ROLLINSHANDJ@att.net>, Ron Johnson <14chance18@gmail.com>, Ronald Williams <PAUMARON@gmail.com>, "Rutherford, Mateo" <mateo_rutherford@yahoo.com>, Ryan Condle <rcondle@gmail.com>, "Salinas, Gloria" <gsvalley@earthlink.net>, "Samuelson, James B" <kpapa@gmail.com>, "Sanchez Tia, Jose J" <jrthurh25@icloud.com>, "Serrato, Adalberto" <serrato@citrusproinc.com>, Seth Jiles <JILESFRANCH@yahoo.com>, Shaun Summers <rebel91656@yahoo.com>, Shrelar Family Trust <BARRYSHREIAR@cox.net>, "Simmons, Sarah" <saraheslimmons@gmail.com>, "Skovgard, Mary T" <maryskovgard2@aol.com>, "Slack, Brian & Janie" <slack_bl@yahoo.com>, "Slocum, Herb" <herbangle@yahoo.com>, "Snyder, Cherie" <ankh677@yahoo.com>, "Stead, Barbara" <shanthi723@yahoo.com>, "Stehly, Frank & Erica" <ESTEHL@msn.com>, "Strack Van Schijndel, Jeroen" <jeromestrack@aol.com>, Sun Pacific Farming <LINDAS@sunpacific.com>, Susan Carpenter <CARPENTERIMSUE@gmail.com>, Sylvia Corona <scorona@gmail.com>, Tatiana Moore <tatianamarie13@yahoo.com>, Terry Yasutake <terry@tynursery.com>, "Thalmayer, Tim" <pvbrat@live.com>, "Thornton, William" <bliththornton724@yahoo.com>, Todd and Cathy Lower <tlower1@gmail.com>, Tom Huggins <tehugg@gmail.com>, Tom Kennedy <TKENNEDY@rainbowmwd.com>, Trevor Smith <smithracing747@yahoo.com>, "Valdivia, Jose" <jose.valdivia@cox.net>, Vanessa Velasquez <vaness.velasquez@yahoo.com>, "Velez, Jose & Sonia" <velezfam1234@sbcglobal.net>, Veronica Cesmat <vgcasmat89@gmail.com>, Village Nurseries <cstubbs@villagenurseries.com>, "Villalobos, Francisco" <frankvilla24@gmail.com>, Vincent Bernard <AJBERNARD@gmail.com>, "Weiss, Erich" <terce333@gmail.com>, William Berglun <w.c.berglund@gmail.com>, William Collier <COLLIERW@yahoo.com>, William Hahlbohm <JEANETTE@sundanceorganics.com>, William Steed <COMPLIANCE@fairfieldllc.com>, "wpvr101@yahoo.com" <wpvr101@yahoo.com>, "Yuok, Samuel" <SY44@yahoo.com>

Good Afternoon,

Please see the attached correspondence regarding the Sustainable Groundwater Management Act from Yuima Municipal Water District.

Sincerely,

Carmen Rodriguez | Administrative Assistant | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 |

Office: (760) 742-3704 | carmen@yuimamwd.com



Amy Reeh <amy@yuimamwd.com>

Invitation to Participate

1 message

Amy Reeh <amy@yuimamwd.com>
To: Chairman Bo Mazzetti <bomazzetti@aol.com>
Bcc: "Jungreis, Jeremy" <JJungreis@rutan.com>

Mon, Dec 7, 2020 at 7:11 PM

Good evening Chairman Mazzetti,

The monthly meeting of the Groundwater Sustainability Agency is being held on December 7, 2020. The GSA would like to again invite you or another representative from the IWA to participate in the meeting.

Below is the link to participate via Zoom and attached to this email is the meeting packet.

The GSA Team looks forward to the IWA's participation in this important process.

Take care!

Join Zoom Meeting

<https://us02web.zoom.us/j/7607423704?pwd=MIBQU3hYYW9FVFRGcE1JWU9jVTErdz09>

Meeting ID: 760 742 3704

Passcode: 200712

One tap mobile

+14086380968,,7607423704#,,,,,0#,,200712# US (San Jose)

+16699006833,,7607423704#,,,,,0#,,200712# US (San Jose)

Dial by your location

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 646 876 9923 US (New York)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

Meeting ID: 760 742 3704

Passcode: 200712

Find your local number: <https://us02web.zoom.us/j/7607423704?pwd=MIBQU3hYYW9FVFRGcE1JWU9jVTErdz09>

kindest Regards,

Amy Reeh | Interim General Manager / Finance & Administrative Services Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



USLR GSA 2020-12-09.pdf
841K

Sustainable Groundwater Management Act- Kickoff Meeting

1 message

Tue, Jan 5, 2021 at 2:16 PM

GSA Group <gsa@yulnamwd.com>
To: Carmen Rodriguez <carmen@yulnamwd.com>
Bcc: chamm@chammlogandesigns.com, ERIC JILES@yaho.com, gregpalms@aol.com, Michael Pericone <michaelpericone31@gmail.com>, orsan5@gmail.com, psuamama10@gmail.com, pwtwaterco1914@gmail.com, ROBERTHUMASON@yaho.com, USLRWA@gmail.com, W.CYLLALL@gmail.com, "A Tamarisk Trust, Paul" <mellaseanother1@aol.com>, "Alyssa, Nicholas" <nicholas.alyssa@yaho.com>, AJ Stehly <aj@stehlygrove.com>, Alysia Dean <accog.mfm@hotmail.com>, Albert & Pamela Degen <CORSAIRR23@man.com>, Alberto Cuevas <acuevasp@gmail.com>, Alexander and Thomas Orchards LLC <thomasem@honnail.com>, Alvarez, Oscar & Ramona" <ramona2753@gmail.com>, AMANDA AGCAOILI <amandaisaac3@gmail.com>, Andy Lysal <LYALLRANCH@gmail.com>, Anna Cabo <annacabo@aol.com>, Anthony Chiquini <anthony@anthonychiquini.com>, Antonio & Charlene Bialdo <cbialdo@tli.newyorkcity.com>, Art Haber <arturhaber9@outlook.com>, "Ash, Gary W" <gary@fences4less.com>, Aurie <aurie@burgspacific.com>, "Bailey, Kenneth A" <DOT <kenneth.bailey@dot.ca.gov>, BARCLAY LEWISON <barclay.lewison@gmail.com>, "Barile, Marlan" <marlan.barile@astudent.com>, "Beasley, Adrianna" <beasley76@gmail.com>, Bill Bauer <bill4hisglory@gmail.com>, Bill Knutson <wiknutz@yahoo.com>, "Blakey, Petr" <blakeytranch@aol.com>, Bo Mazzanti <bomaz28@aol.com>, Borden Ranches LLC <bordenranches@yahoo.com>, "Borworth, Timothy L" <tborworth68@gmail.com>, Brian Hitchcock <coty.hitchcock@icloud.com>, Bruce Donnelly <leo380ms@hotmail.com>, Bruce Knox <Bknox@dignisranch.net>, "Bullock, Julia A" <wtbullock@gmail.com>, Burnet Wohlford <HRMBURNET@sboglobal.net>, CA Division of Forestry <leen.rodriguez@irs.ca.gov>, Cemansky Family Trust <SANDYCERN@aol.com>, "Cesmat, Keaton" <keaton_cesmat@yahoo.com>, "Cherry, Albert" <albert@cherryeng.com>, Chris Ambsul <chris@sgms.net>, Christina Cuevas <christinacuevas@live.com>, "Cedarblom, Lea" <leacedarblom@gmail.com>, <_whalley@yahoo.com>, Chuck Bandy <MCMILLANFARMGMT@man.com>, Clemente Ramirez <teresaramirez255@gmail.com>, Coleen Heublein <heublein.co@vpsud.org>, Collins, Casey & Carol" <ccrcollins@aol.com>, "Collins, James" <predatorjockey@gmail.com>, "Condie, Jamie" <mrcjcondie@gmail.com>, "Coshov, Paul" <pcoshov189@gmail.com>, "Craig Child" <brucedonnelly@hotmail.com>, "Crisp, Nick" <nickbarbaric@services@gmail.com>, "Currier, Ronald F" <rancidzaddy@gmail.com>, Damarus-Moore Lmd Prtn <tom.moore@att.net>, Daniel Ingalls <dannyling89@gmail.com>, Daran House <simpeon@mcn.org>, David <david@isacpe.com>, Dennis Judkins <d4you@aol.com>, Desheng Luo <1314lisa@gmail.com>, "Di Nardo, Domenic" <camellie@menderspeckpas.com>, Donald Armstrong <PAUMADON@gmail.com>, "Donnelly, Bruce" <brucedonnelly@hotmail.com>, "Doug Anderson" <MRORANGE1939@gmail.com>, DWIGHT & FRANCES Everett <FDEVERETT@earthlink.net>, Earl Ruiz <EARLRUIZ1@me.com>, Enola Price <ENOLA@ecofarmsusa.com>, EVAN FORAYTER <eforayter@gmail.com>, "Fitzsimmons, FD" <fzsimmons45@aol.com>, "For His Glory Farms, Inc." <BILLAHISGLORY@gmail.com>, Freeberg Survivors Trust <sierradel_cra@man.com>, "Fritz, Patricia" <patryfritz@aol.com>, "Geboury, Dida" <gabouryd2@yahoo.com>, "Garcia, Rosanna" <suimaz22@gmail.com>, "Garcia, Rosanna" <suimaz22@gmail.com>, "Gary Arant" <garant@vcrwd.org>, Gerry Luns <FLUORRANCH1953@gmail.com>, "Haber, Art J" <1314lisa@gmail.com>, "Hamendaz, David" <davidhamendaz@mc.com>, "Henderson, Susan" <vhendersonmom@aol.com>, Herb Stocum <herbstocum@aol.com>, "Herman, Alan L" <TEAMJORG@gmail.com>, "Herman, Alan L" <alanl@hermanjames@hotmail.com>, "James, Erica" <ejames417@aol.com>, "James, Kenneth A" <james@csulb.edu>, "Haskins, Robert & Cornelia" <rhaskins@vcom.org>, "Hsiao, Lisa" <L.Hsiao@musicpeeler.com>, Jackson Ranch LLC <robert@jacksonranchllc.com>, Jaime Serrato <serratojames@aol.com>, "James, Jenelle Lee" <jlee7@hotmail.com>, "Jensen, Bernard" <bnjensen@gmail.com>, Jesse Hutchings <JESSEW101@earthlink.net>, Jon Demorest <JONDEMOREST@gmail.com>, Jason Taliman <jonymtal@gmail.com>, Jason McFarland <passdenaofshoes@gmail.com>, "Jenelle Lee Beresford" <moctamsinwd@gmail.com>, John Northrop <jndoublejranch@gmail.com>, John Smith <asmth18@yahoo.com>, Jordan Friska <friska@hw.com>, "Jorgensen, Alan L" <TEAMJORG@gmail.com>, Jose Luis Hernandez <jose@elpollofino.com>, Joseph Travers <joseph@ccinc.com>, Josh Stohul <josh.stohul@gmail.com>, "Kells, Bruce & Charlene" <char@aprobilling.com>, "Kimberly Cucinella" <kimcucinella@gmail.com>, "Lauriano and Rufina Hernandez" <lrufz1120@yahoo.com>, "Levine, Tom Jr." <TOMLVANE20@gmail.com>, "Lsa, Jenelle M" <jenellem@gmail.com>, "Linda Vogt" <vogt6900@gmail.com>, Lori Johnson <ljohnson1234@gmail.com>, "Luna, Jackie" <jlr884@yahoo.com>, Lyrene Villalobos <LANEY3727@gmail.com>, Marie Price <mprice@properties@gmail.com>, MARIANN VARIN <marpmv@yahoo.com>, "Mary Patsman" <RNPETERMAN@hotmail.com>, "Mathew Hektor" <ASHLYMELLOR@gmail.com>, "McCafferty, Kenny & Robyn" <kcazaz@gmail.com>, "Mendoza, Macarie De" <mendoza.saura@live.com>, Metta Forest Monastery <METTAMONASTERY@protonmail.com>, Michael Jeron <m_jeron@hotmail.com>, Mortal Jones <montelljones@hotmail.com>, "Neil & Sandra Caray" <nconsulting@cox.net>, "Nguyen, Hong Le" <dnrwin2000@yahoo.com>, "Northrop, John H" <john.northrop1026@att.net>, Oggle Watson <oggle@lynursery.com>, Orati Baransky <baransky@outlook.com>, Paige Prosser <paige_prosser@yahoo.com>, Pale Band of Mission Indians <jmarinez@palatibe.com>, Pauline Stehly <pauline@stehlybrothers.com>, Pauma Band of Mission Indians <mcandrews@pauma-nsn.gov>, Pauma Ridge MWC <accounting@hilltoppers.com>, "Payne, Kurstan" <kurcarlson@gmail.com>, Pedro Mercado <brothers.nursery@verizon.net>, "Peletti, Martha" <wdpeletti@gmail.com>, PETER APPLIGATE <PAUMAPETE@comcast.net>, "Pillado, Edgar & Esther" <epilladoe@yahoo.com>, "Portisler, Steven L" <sporisler@gmail.com>, "Puck, R Laurence" <RLPUCK@gmail.com>, "Raleno, John" <dialenascatering@gmail.com>, Rancho Estates <bobby.graziano@gmail.com>, Rancho Eugenio <rick@henryvocado.com>, "Reed, Ed Jr." <eddiereed14@gmail.com>, "Reisler, Richard C" <richreisler@yahoo.com>, Richard Ross <srhorizons@cox.net>, Richard Walworth <RRWALWORTH@gmail.com>, RICK KARIYA <DARCY.KARIYA@gmail.com>, "Rico, Joshua & Alice" <ricojsh@gmail.com>, Robert <roberthumason@yahoo.com>, Robert Polito <POLITOFARMS@gmail.com>, Roberta Counts <rcounts@surtansproperties.com>, "Rodriguez, Gerard & Marquita" <marquitar@aol.com>, Roland Simpson <SIMPSON@mcn.org>, "Rollins, Howard" <ROLLINSHAND@att.net>, Ron Johnson <14chancas18@gmail.com>, Ronald Williams <PAUMARON@gmail.com>, "Rutherford, Mateo" <mateo_rutherford@yahoo.com>, Ryan Conde <rcondie@gmail.com>, "Salinas, Gloria" <gvalley@earthlink.net>, "Samuelson, James B" <lpapaj@gmail.com>, "Sanchez & Sarah Simmons" <gmail.com>, "Skovgard, Mary T" <maryskovgard2@aol.com>, "Stack, Brian & Jenie" <stack_b@yahoo.com>, "Stocum, Herb" <herbstocum@yahoo.com>, "Snyder, Charlie" <cnk877@yahoo.com>, "Stead, Barbara" <shanth723@yahoo.com>, "Stehly, Frank & Edna" <ESTEHLY@man.com>, "Strack Van Schijndel, Jeroen" <jeromestrack@aol.com>, Sun Pacific Farming <LINDAS@sunpacific.com>, Susan Carpenter <CARPENTERIMSUE@gmail.com>, Sylvia Corona <scorona@gmail.com>, Tatiana Moore <tatianamoore13@yahoo.com>, Terry Yasutaka <tenry@lynursery.com>, "Thalmsayer, Tim" <tyt@ra@live.com>, "Thornton, William" <billthornton724@yahoo.com>, Todd and Cathy Lower <clower1@gmail.com>, Tom Huggins <thugg@gmail.com>, Tom Kennedy <vcycsmat89@gmail.com>, Village Nurseries <scatubs@villagenurseries.com>, "Villalobos, Francisco" <frankvill24@gmail.com>, Vincent Bernard <AJBERNHARD@gmail.com>, "Velez, Jose & Sonia" <velezsm1234@sboglobal.net>, Veronica Cesmat <TKENNEDY@rainbowmwd.com>, Trevor Smith <smthtracing747@yahoo.com>, "Valdivia, Jose" <jose.valdivia@cox.net>, Vanessa Velasquez <vanessa.velasquez@yahoo.com>, "Velez, Jose & Sonia" <velezsm1234@sboglobal.net>, Veronice Cesmat <COLLIERW@yahoo.com>, William Halbohm <JEANETTE@sundanceorganics.com>, William Stead <COMPLIANCE@fairfieldic.com>, "Wpvr101@yahoo.com" <wpvr101@yahoo.com>, "Yuck, Samuel" <SY44@yahoo.com>, Douglas Humphrey <dgs.ca.gov, rtroc06@gmail.com, bms0345@gmail.com, h.hooper@musicpeeler.com, carlaburns@hotmail.com, e.wetzlar@musicpeeler.com, plumdreams@yahoo.com

Good Afternoon,
Happy New Year! Please see the attached correspondence regarding the Sustainable Groundwater Management Act Stakeholder Engagement Kickoff Meeting from Yuima Municipal Water District.

Sincerely,
Carmen Rodriguez | Administrative Assistant | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92661 |
Office: (760) 748-3704 | carmen@yulnamwd.com



Amy Reeh <amy@yuimamwd.com>

GSA Stakeholder Kickoff Meeting

1 message

Amy Reeh <amy@yuimamwd.com>
To: Chairman Bo Mazzetti <bomazzetti@aol.com>
Bcc: "Jungreis, Jeremy" <JJungreis@rutan.com>

Wed, Jan 27, 2021 at 10:25 AM

Good Morning Chairman Mazzetti,

I understand that neither you or any of the other tribal interests in the basin signed up to attend the Stakeholder Outreach Kickoff meeting that is this afternoon. I wanted to provide you the link to join if you change your mind; and I hope you do. Take care.

GSP Stakeholder Engagement Kickoff Meeting

When Wed Jan 27, 2021 4pm – 6:30pm Pacific Time - Los Angeles

Where <https://us02web.zoom.us/j/89690926185?pwd=RDNyUmZLSjRVcUIUNXNISTR4RG83UT09> (map)

Who • carmen@yuimamwd.com - creator

Join from a PC, Mac, iPad, iPhone or Android device:

Please click this URL to join. <https://us02web.zoom.us/j/89690926185?pwd=RDNyUmZLSjRVcUIUNXNISTR4RG83UT09>

Passcode: 056570

Or join by phone:

Dial(for higher quality, dial a number based on your current location):

US: +1 669 900 6833 or +1 408 638 0968 or +1 346 248 7799 or +1 253 215 8782 or +1 301 715 8592 or +1 312 626 6799 or +1 646 876 9923

Webinar ID: 896 9092 6185

Passcode: 056570

International numbers available: <https://us02web.zoom.us/j/89690926185?pwd=RDNyUmZLSjRVcUIUNXNISTR4RG83UT09>

kindest Regards,

Amy Reeh | Interim General Manager / Finance & Administrative Services Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain





Amy Reeh <amy@yuimamwd.com>

GSA Executive Team Meeting

1 message

Amy Reeh <amy@yuimamwd.com>

Mon, Apr 5, 2021 at 7:58 PM

To: Chairman Bo Mazzetti <bomazzetti@aol.com>

Bcc: Roland Simpson <roland@yuimamwd.com>, Steve Wehr <steve@yuimamwd.com>, Steve Wehr <steve.wehr@yahoo.com>, "Jungreis, Jeremy" <JJungreis@rutan.com>

Dear Chairman Mazzetti,

Please find the link to the Board packet for the next GSA Executive Team meeting which is to take place this Wednesday at 3:00 p.m. I will have my assistant forward the Zoom meeting link.

<https://www.yuimamwd.com/newdev/65-services/143-gsp>

As always, the IWA is invited to join and encouraged to participate in this meeting.

Chairman Mazzetti, after this morning's LAFCO meeting it occurred to me that you may be unaware of some of the specifics of the 2019 MOU that I referenced in my comments today in relation to the structure of the GSA (before and after 2019), and what the parties agreed to regarding funding of the GSA and the GSP. To this end, I wanted to share with you the final 2019 MOU that memorializes the information to which I referred. Specifically, as you can see on page 6, Section 7(c)(ii) the SLRIWA agreed to contribute \$150,000; though the GSA did not receive funds at the time the Request for Qualifications was issued as required by the M.O.U. in section 7(e) from the SLRIWA. I did not make my statements lightly or without having first reviewed the pertinent documents, and that's why I wanted to bring this matter to your attention so hopefully we are able to develop a shared understanding moving forward.

We at PVGSA want to ensure we are keeping faith with you and the other members of the Authority, and that hopefully includes developing a shared understanding of how we got to our current situation--which Yuima and others would very much like to improve upon by working collaboratively with the Tribes on the development of the GSP. To that end, Section 4.1 of the draft JPA Agreement that the Parties have been negotiating includes two voting seats for the SLRIWA, and no financial obligation as a condition of Tribal participation. Please advise when we can discuss the potential return of SLRIWA to the GSP development process in a manner that the Tribes feel comfortable participating.

Kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



2019 SGMA MOU.pdf
4429K



Amy Reeh <amy@yuimamwd.com>

June 16, 2021 Stakeholder Outreach Meeting

1 message

Amy Reeh <amy@yuimamwd.com>

Fri, Jun 11, 2021 at 4:02 PM

To: Amy Reeh <amy@yuimamwd.com>

Cc: Roland Simpson <roland@yuimamwd.com>, Steve Wehr <steve@yuimamwd.com>

Bcc: Anthony Cinquini <anthony@anthonycinquini.com>, "Bennett, Jim" <JIM.BENNETT@sdcounty.ca.gov>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <bill@fairfieldllc.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Carla Burrus <carlaburrus@hotmail.com>, Chairman Bo Mazzetti <bomazzetti@aol.com>, Charles Mathews <mathews.charles@gmail.com>, Charles Stubbs <cstubbs@everde.com>, Charm Crandall <charm@charmlogandesigns.com>, Chris Hoyer <chris.h@bermudadunesc.com>, Christopher Griess <chris@griessfamily.com>, "Crow, Leanne" <Leanne.Crow@sdcounty.ca.gov>, "Douglas.Humphrey@dgs.ca.gov" <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@me.com>, Ellen Anderson <ellenanderson555@gmail.com>, Emily Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gregg and Lori Johnson <lajsn1234@gmail.com>, "Hooper, Bobbie" <b.hooper@musickpeeler.com>, Jack Hoagland <Jehassociates@msn.com>, Jackson Ranch LLC <robert@jacksontriallawyers.com>, Jeannie Schell <jjisgma@gmail.com>, Jim Cipriano <jecippy@gmail.com>, John Beresford <john.beresford@lajolla-nsn.gov>, Lauren Wicks <LWicks@geoscience-water.com>, Laurie Kariya <pvcchouse@gmail.com>, Lorna Ross <lornahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <deniseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mootamai Municipal Water District <mootamaimwd@gmail.com>, Norma Larios <nlarios@csusm.edu>, Paul Marangella <pmmaran@gmail.com>, Ray Rodriguez <rtrcc08@gmail.com>, "Regmi, Anita@DWR" <Anita.Regmi@water.ca.gov>, Ricardo Cortez <zetrocr@gmail.com>, Spencer Steed <spencer@fairfieldllc.com>, Subhash Patel <kkmpsilvermink@gmail.com>, Tom McAndrews <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, "Wetzler, Sandra" <S.Wetzler@musickpeeler.com>, Bobby Graziano <bobby.graziano@gmail.com>, Mike Perricone <michaelperricone31@gmail.com>, Greg Kamin <aatranchllc@gmail.com>, "W. Lyall" <wcllyall@gmail.com>, Andy Lyall <awlyall@gmail.com>, Oggie Watson <oggie@tynursery.com>, Gary Arant <GARant@vcmwd.org>, Jack Hall <info@lazyh.com>

Good Afternoon All,

Please find the agenda for the June 16th Stakeholder Outreach Meeting attached. I have also included a link to the meeting below. Please feel free to contact me or my assistant Carmen with any questions.

Amy Reeh is inviting you to a scheduled Zoom meeting.

Topic: GSA Stakeholder Outreach

Time: Jun 16, 2021 04:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/7607423704?pwd=MVVqeFB0Mk1BUitwckZvWFd0RzE1Zz09>

Meeting ID: 760 742 3704

Passcode: 26163704

One tap mobile

+14086380968,,7607423704#,,,,*26163704# US (San Jose)

+16699006833,,7607423704#,,,,*26163704# US (San Jose)

Dial by your location

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 646 876 9923 US (New York)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

Meeting ID: 760 742 3704

Passcode: 26163704

Find your local number: <https://us02web.zoom.us/j/84461212633>

Kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



 **USLRGSA20210616.pdf**
73K

GSA Executive Team Meeting

1 message

Carmen Rodriguez <carmen@yulmamwd.com>

Fri, Jun 25, 2021 at 2:50 PM

To: Amy Reah <amy@yulmamwd.com>

Bcc: Andy Lyall <awlyall@gmail.com>, Anita Regmi <anita.regmi@water.ca.gov>, Bo Mazzetti <bomazzetti@aol.com>, Bobby Graziano <bobby.graziano@gmail.com>, Chuck Bandy <mcmillanfarmmgmt@msn.com>, Greg Kamin <atranchlc@gmail.com>, Jack Hoagland <jehassociates@msn.com>, Jeremy Jungreis <JJungreis@rutan.com>, Jim Bennett <Jim.Bennett@sdcounty.ca.gov>, Leanne Crow <Leanne.Crow@sdcounty.ca.gov>, Michael Perricone <michaelperricone31@gmail.com>, Roland Simpson <roland@yulmamwd.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve@yulmamwd.com>, Warren Lyall <wcllyall@gmail.com>

Good afternoon,

Please find the attached meeting packet for next week's GSA Meeting. If you have any questions or concerns feel free to contact Amy. I will be sending the link to the Zoom Meeting shortly.

I hope everyone has a great weekend.

Sincerely,

Carmen Rodriguez | Administrative Assistant | [Yulma Municipal Water District](#)

P.O. Box 177 | Pauma Valley, CA 92061 |

Office: (760) 742-3704 | carmen@yulmamwd.com



 **USLR GSA 2021-06-02 Board Packet.pdf**
8322K

Re: GSA Executive Meeting

1 message

Steve Wehr <stave.wehr@yahoo.com>

Fri, Jun 25, 2021 at 3:09 PM

To: carmen@yulmamwd.com

Cc: roland@yulmamwd.com, mcmlilanfarmgmt@msn.com, bobby.graziano@gmail.com, atranchllc@gmail.com, michaelperricone31@gmail.com, jjungreis@rutan.com, Steve.Anderson@bbklaw.com, Jim.bennett@sdcounty.ca.gov, leanne.crow@sdcounty.ca.gov, anita.regmi@water.ca.gov, jehassociates@msn.com, bomazzetti@aol.com, wciyall@gmail.com, awiyall@gmail.com

This is a combo meeting with the exec committee and Geo Science correct?? I only have Geo Science on the calendar as of now.

Sent from my iPad

On Jun 25, 2021, at 14:52, carmen@yulmamwd.com wrote:

Please find Zoom Meeting Details

GSA Executive Meeting

When Wed Jun 30, 2021 3pm – 4:30pm Pacific Time - Los Angeles

Where <https://us02web.zoom.us/j/7607423704?pwd=ekVubWtLakhjNThwdUM5U3p0bWxyUT09> (map)

Who • carmen@yulmamwd.com - creator

Amy Reeh is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

<https://us02web.zoom.us/j/7607423704?pwd=ekVubWtLakhjNThwdUM5U3p0bWxyUT09>

Meeting ID: 760 742 3704

Passcode: 302106

One tap mobile

+14086380968,,7607423704#,,,,*302106# US (San Jose)

+16699006833,,7607423704#,,,,*302106# US (San Jose)

Dial by your location

+1 408 638 0968 US (San Jose)

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 646 876 9923 US (New York)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

Meeting ID: 760 742 3704

Passcode: 302106

Find your local number: <https://us02web.zoom.us/j/7607423704?pwd=ekVubWtLakhjNThwdUM5U3p0bWxyUT09>



Amy Reeh <amy@yuimamwd.com>

Fwd: Zoom Meeting

1 message

Amy Reeh <amy@yuimamwd.com>

Tue, Sep 14, 2021 at 7:50 AM

To: Amy Reeh <amy@yuimamwd.com>

Bcc: Roland Simpson <roland@yuimamwd.com>, Steve Wehr <steve.wehr@yahoo.com>, Greg Kamin <atranchllc@gmail.com>, Mike Perricone <michaelperricone31@gmail.com>, Charles Bandy <cbandy.mfm@gmail.com>, Bobby Graziano <bobby.graziano@gmail.com>, Warren Lyall <wcllyall@gmail.com>, Andy Lyall <awlyall@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Lauren Wicks <LWicks@geoscience-water.com>, Chairman Bo Mazzetti <bomazzetti@aol.com>, "Regmi, Anita@DWR" <Anita.Regmi@water.ca.gov>, "Bennett, Jim" <JIM.BENNETT@sdcounty.ca.gov>, "Crow, Leanne" <Leanne.Crow@sdcounty.ca.gov>, "Jungreis, Jeremy" <JJungreis@rutan.com>, Steve Anderson <steve.anderson@bbklaw.com>, Jack Hoagland <Jehassociates@msn.com>

Good Afternoon All,

I hope this email finds you well.

Please find the link to the GSA Executive Team meeting on Wednesday, September 15 at 3:00 p.m. below. Also attached please find the packet for that meeting.

Please feel free to contact me with any questions.

Join Zoom Meeting

<https://us02web.zoom.us/j/7607423704?pwd=dXJGZDA1b1BpeWFhcngvSW5BVzJqZz09>

Meeting ID: 760 742 3704

Passcode: 20215

kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



 **USLR GSA 2021-09-15.pdf**
192K



Amy Reeh <amy@yuimamwd.com>

Revised agenda

1 message

Amy Reeh <amy@yuimamwd.com>

Wed, Sep 29, 2021 at 5:36 PM

To: Amy Reeh <amy@yuimamwd.com>

Bcc: Andy Lyall <awlyall@gmail.com>, Anita Regmi <Anita.Regmi@water.ca.gov>, Anthony Cinquini <anthony@anthonycinquini.com>, "Bennett, Jim" <JIM.BENNETT@sdcounty.ca.gov>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <Bill@fairfieldllc.com>, Bo Mazzetti <bomazzetti@aol.com>, Bobbie Hooper <b.hooper@musicpeeler.com>, Bobby Graziano <bobby.graziano@gmail.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Bruce Knox <bknnox@dlginsurance.net>, "Cari Dale (CDale@oceansideca.org)" <CDale@oceansideca.org>, Carla Burrus <carlaburrus@hotmail.com>, Charles Mathews <Mathews.charles@gmail.com>, Charles Stubbs <cstubbs@everde.com>, Charm Crandall <charm@charmlogandesigns.com>, Chris Hoyer <chris.h@bermudadunescc.com>, Christopher Griess <chris@griessfamily.com>, Chuck Bandy <mcmillanfarmmgmt@msn.com>, "Crow, Leanne" <Leanne.Crow@sdcounty.ca.gov>, Don Broomell <don.broomell5@gmail.com>, Douglas Humphrey <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@mac.com>, Ellen Anderson <ellenanderson555@gmail.com>, Emily Fan Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gary Arant <garant@vcmw.org>, Greg Kamin <atranchllc@gmail.com>, Jack Hall <info@lazyh.com>, Jack Hoagland <jehassociates@msn.com>, Jeannie Schell <jjs1sgma@gmail.com>, Jim Bennett <jim.bennett@sdcounty.ca.gov>, Jim Cipriano <jecippy@gmail.com>, John Beresford <john.beresford@lajolla-nsn.gov>, "Jungreis, Jeremy" <JJungreis@rutan.com>, Laney Villalobos <Laneyforyuimawaterdistrict1@gmail.com>, Lauren Wicks <lwicks@geoscience-water.com>, Laurie Kariya <pvcchouse@gmail.com>, Leanne Crow <leanne.crow@sdcounty.ca.gov>, Lori Johnson <lajsn1234@gmail.com>, Lorna Ross <lornahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <deniseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mike Perricone <michaelperricone31@gmail.com>, Mootamai <mootamaimwd@gmail.com>, Norma Larios <nlarios@csusm.edu>, Paige Hughes <tncgroundwater@gmail.com>, Paul Marangella <PMMARAN@gmail.com>, Ray Rodriguez <rtrcc08@gmail.com>, Ricardo Cortez <zetrocr@gmail.com>, Richard Williamson <Richard@williamsonengineers.com>, Robert Jackson <robert@jacksontriallawyers.com>, Roland Simpson <roland@yuimamwd.com>, Sandra Wetzler <s.wetzler@musicpeeler.com>, Spencer Steed <spencer@fairfieldllc.com>, Stephanie Hastings <shastings@bhfs.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve.wehr@yahoo.com>, Subhash Patel <kkmpsilvermink@gmail.com>, Tim Lyall <LyallRanch@gmail.com>, Tom McAndrews <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, Warren Lyall <wcllyall@gmail.com>

My apologies, the meeting is on Wednesday, October 6th. Please see the revised agenda attached.

kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



 USLR GSA 2021-10-06.pdf
87K



Amy Reeh <amy@yuimamwd.com>

Groundwater Sustainability Stakeholder Outreach

1 message

Amy Reeh <amy@yuimamwd.com>

Wed, Sep 29, 2021 at 5:05 PM

To: Amy Reeh <amy@yuimamwd.com>

Bcc: Andy Lyall <awlyall@gmail.com>, Anita Regmi <Anita.Regmi@water.ca.gov>, Anthony Cinquini <anthony@anthonycinquini.com>, "Bennett, Jim" <JIM.BENNETT@sdcounty.ca.gov>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <Bill@fairfieldllc.com>, Bo Mazzetti <bomazzetti@aol.com>, Bobbie Hooper <b.hooper@musicpeeler.com>, Bobby Graziano <bobby.graziano@gmail.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Bruce Knox <bknox@dlginsurance.net>, Cari Dale <cdale@oceanside.org>, Carla Burrus <carlaburrus@hotmail.com>, Charles Mathews <Mathews.charles@gmail.com>, Charles Stubbs <cstubbs@everde.com>, Charm Crandall <charm@charmlogandesigns.com>, Chris Hoyer <chris.h@bermudadunescc.com>, Christopher Griess <chris@griessfamily.com>, Chuck Bandy <mcmillanfarmmgmt@msn.com>, Don Broomell <don.broomell5@gmail.com>, Douglas Humphrey <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@mac.com>, Ellen Anderson <ellenanderson555@gmail.com>, Emily Fan Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gary Arant <garant@vcmw.org>, Greg Kamin <atranchllc@gmail.com>, Jack Hall <info@lazyh.com>, Jack Hoagland <jehassociates@msn.com>, Jeannie Schell <jjs1sgma@gmail.com>, Jim Cipriano <jecippy@gmail.com>, John Beresford <john.beresford@lajolla-nsn.gov>, "Jungreis, Jeremy" <JJungreis@rutan.com>, Laney Villalobos <Laneyforyuimawaterdistrict1@gmail.com>, Lauren Wicks <lwicks@geoscience-water.com>, Laurie Kariya <pvcchouse@gmail.com>, Leanne Crow <leanne.crow@sdcounty.ca.gov>, Lori Johnson <lajsn1234@gmail.com>, Lorna Ross <lornahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <deniseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mike Perricone <michaelperricone31@gmail.com>, Mootamai <mootamaimwd@gmail.com>, Norma Larios <nlarios@csusm.edu>, Paige Hughes <incgroundwater@gmail.com>, Paul Marangella <PMMARAN@gmail.com>, Ray Rodriguez <rtrcc08@gmail.com>, Ricardo Cortez <zetrocr@gmail.com>, Richard Williamson <Richard@williamsonengineers.com>, Robert Jackson <robert@jacksontrillawyers.com>, Roland Simpson <roland@yuimamwd.com>, Sandra Wetzler <s.wetzler@musicpeeler.com>, Spencer Steed <spencer@fairfieldllc.com>, Stephanie Hastings <shastings@bhfs.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve.wehr@yahoo.com>, Subhash Patel <kkmpsilvermink@gmail.com>, Tim Lyall <LyallRanch@gmail.com>, Tom McAndrews <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, Warren Lyall <wcllyall@gmail.com>

Good Afternoon,

Please find the agenda for the next Upper San Luis Rey Groundwater Basin Stakeholder Outreach meeting attached. Located within the agenda are both a link to the Zoom meeting and a link to the next chapter that will be discussed.

Please feel free to contact me should you have any questions regarding the meeting.

Kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



 USLR GSA 2021-10-06.pdf
87K

Website Contact: GSP

1 message

Yulma Municipal Water District <travis@parker-mall.com>
To: gsa@yulmamwd.com

Thu, Oct 21, 2021 at 10:48 AM

Copy of request

Subject: GSP

Message: Please add my name to your mailing list of interested parties regarding progress toward adoption of a GSP.

Sent by details

Name: Art Bunce

Email: buncelaw@aol.com

Mailing Address: P.O. Box 2516, Escondido, CA 92033

Sent from details

Sent from this website: Yulma Municipal Water District

Sent from this URL: <https://www.yulmamwd.com/newdev/ground-water-future-updates>

GSP

1 message

GSA Group <gsa@yuimamwd.com>
To: buncelaw@aol.com

Thu, Oct 21, 2021 at 11:02 AM

Good morning Art,

We received your request to be added to the GSP list. We have added your contact information to our email list. Have a great day!

Sincerely,

Carmen Rodriguez | Administrative Assistant | Yuima Municipal Water District

P.O. Box 177 | Pauma Valley, CA 92061 |

Office: (760) 742-3704 | carmen@yuimamwd.com



Amy Reeh <amy@yuimamwd.com>

Special Executive Team Meeting

1 message

Amy Reeh <amy@yuimamwd.com>

Mon, Nov 8, 2021 at 2:49 PM

To: Amy Reeh <amy@yuimamwd.com>

Bcc: "Regmi, Anita@DWR" <Anita.Regmi@water.ca.gov>, "Bennett, Jim" <JIM.BENNETT@sdcounty.ca.gov>, "Crow, Leanne" <Leanne.Crow@sdcounty.ca.gov>, Roland Simpson <roland@yuimamwd.com>, Steve Wehr <steve.wehr@yahoo.com>, Charles Bandy <cbandy.mfm@gmail.com>, Bobby Graziano <bobby.graziano@gmail.com>, Greg Kamin <atranchllc@gmail.com>, Mike Perricone <michaelperricone31@gmail.com>, Warren Lyall <wcllyall@gmail.com>, "Jungreis, Jeremy" <JJungreis@rutan.com>, Steve Anderson <steve.anderson@bbklaw.com>, Bo Mazzetti <bomazzetti@aol.com>

Good Afternoon All,

Please find the Board Packet for the Special Executive Team Meeting for tomorrow afternoon at 3:00 p.m.

Kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



USLR GSA 2021-11-09 Packet.pdf

439K

GSA Stakeholder Outreach Meeting

1 message

GSA Group <gsa@yulmamwd.com>

Tue, Nov 9, 2021 at 9:17 AM

To: Amy Reeh <amy@yulmamwd.com>

Bcc: mootamaimwd@gmail.com, Andy Lyall <awlyall@gmail.com>, Anita Regmi <Anita.Regmi@water.ca.gov>, Anthony Cinquini <anthony@anthonycinquini.com>, **Art Bunce** <buncelaw@aol.com>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <Bill@fairfieldllc.com>, Bobbie Hooper <b.hooper@musicckpeeler.com>, Bobby Graziano <bobby.graziano@gmail.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Bruce Knox <bknox@diginsurance.net>, Cari Dale <cdale@oceanside.org>, Carla Burrus <carlaburrus@hotmail.com>, Charles Mathews <Mathews.charles@gmail.com>, Charles Stubbs <cstubbs@everde.com>, Charm Crandall <charm@charmlogandesigns.com>, Chris Hoyer <chris.h@bermudadunescc.com>, Christopher Griess <chris@griessfamily.com>, Chuck Bandy <mcmillanfarmgmt@msn.com>, Don Broomell <don.broomell5@gmail.com>, Douglas Humphrey <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@mac.com>, Ellen Anderson <ellenanderson555@gmail.com>, Emily Fan Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gary Arant <garant@vcmwd.org>, Greg Karmin <atranchilc@gmail.com>, Jack Hall <info@lazyh.com>, Jack Hoagland <jehassociates@msn.com>, Jeannie Schell <jjs1sgma@gmail.com>, Jeremy Jungrels <JJungrels@nutan.com>, Jim Cipriano <jeciippy@gmail.com>, Jime Bennett <jim.bennett@sdcounty.ca.gov>, John Beresford <john.beresford@lajolla-nsn.gov>, Laney Villalobos <Laneyforulmawaterdistrict1@gmail.com>, Lauren Wicks <lwicks@geoscience-water.com>, Laurie Kariya <pvcchouse@gmail.com>, Leanne Crow <leanne.crow@sdcounty.ca.gov>, Lori Johnson <lajsn1234@gmail.com>, Lorna Ross <lornahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <denlseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mike Perricone <michaelperricone31@gmail.com>, Norma Larios <nlarios@csusm.edu>, Paige Hughes <tncgroundwater@gmail.com>, Paul Marangella <PMMARAN@gmail.com>, Ray Rodriguez <rtrcc08@gmail.com>, Ricardo Cortez <zetroc@gmail.com>, Richard Williamson <Richard@williamsonengineers.com>, Robert Jackson <robert@jacksontrifallawyers.com>, Roland Simpson <roland@yulmamwd.com>, Sandra Wetzler <s.wetzler@musicckpeeler.com>, Spencer Steed <spencer@fairfieldllc.com>, Stephanie Hastings <shastings@bhfs.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve.wehr@yahoo.com>, **Subhash Patel** <kkmpsilvermink@gmail.com>, **Tom McAndrews** <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, Warren Lyall <wlyall@gmail.com>

Good morning,

I hope this email finds everyone well. Please find the attached meeting packet for next week's GSA Stakeholder Outreach Meeting. The meeting will be held via Zoom (link provided in the agenda) on Monday, November 15, 2021 at 4:00 p.m. If you have any questions or concerns feel free to contact me. Have a wonderful day.

Sincerely,

Carmen Rodriguez | Administrative Assistant | **Yuima Municipal Water District**

P.O. Box 177 | Pauma Valley, CA 92061 |

Office: (760) 742-3704 | carmen@yulmamwd.com 2021-11-15 packet.pdf
3935K

Important Notice Re: Pauma Valley GSA

1 message

GSA Group <gsa@yuimamwd.com>

Tue, Nov 23, 2021 at 12:40 AM

To: Andy Lyall <awlyall@gmail.com>, Andy Lyall <LYALLRANCH@gmail.com>, Anita Regmi <Anita.Regmi@water.ca.gov>, Anthony Cinquini <anthony@anthonymcinquini.com>, Art Buncel <buncelaw@aol.com>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <Bill@fairfieldllc.com>, Bobby Graziano <bobby.graziano@gmail.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Bruce Knox <bknnox@dlginsurance.net>, Carl Dale <cdale@oceansideca.org>, Carla Burrus <carlaburrus@hotmail.com>, Charles Mathews <Mathews.charles@gmail.com>, Charles Stubbs <cstubbs@everde.com>, Charm Crandall <charm@charmlogandesigns.com>, Chris Hoyer <chris.h@bermudadunescc.com>, Christopher Gress <chris@griessfamily.com>, Chuck Bandy <mcmillanfarmmgmt@msn.com>, Don Broomell <don.broomell5@gmail.com>, Douglas Humphrey <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@mac.com>, Eilen Anderson <eilenanderson555@gmail.com>, Emily Fan Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gary Arant <garant@vcmwd.org>, Greg Kamin <atranhllc@gmail.com>, Jack Hall <info@lazyh.com>, Jack Hoagland <jehassociates@msn.com>, Jeannie Schell <jjs1sigma@gmail.com>, Jeremy Jungreis <JJungreis@rutan.com>, Jim Cipriano <jecippy@gmail.com>, Jime Bennett <jim.bennett@sdcounty.ca.gov>, John Beresford <john.beresford@lajolla-nsn.gov>, Laney Villalobos <Laneyforyuilmawaterdistrict1@gmail.com>, Lauren Wicks <lwicks@geoscience-water.com>, Laurie Kariya <pvcchouse@gmail.com>, Leanne Crow <leanne.crow@sdcounty.ca.gov>, Lori Johnson <lajsn1234@gmail.com>, Lorna Ross <lomahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <deniseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mike Perricone <michaelperricone31@gmail.com>, Mootamai MWD <mootamaimwd@gmail.com>, Norma Larios <nlaros@csusm.edu>, Palge Hughes <tcgroundwater@gmail.com>, Paul Marangella <PMMARAN@gmail.com>, Ray Rodriguez <rrcc08@gmail.com>, Ricardo Cortez <retrocr@gmail.com>, Richard Williamson <Richard@williamsonengineers.com>, Robert Jackson <robert@jacksontriallawyers.com>, Roland Simpson <roland@yuimamwd.com>, Sandra Wetzler <s.wetzler@musicpeeler.com>, Spencer Steed <spencar@fairfieldllc.com>, Stephanie Hastings <shastings@bhfs.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve.wehr@yahoo.com>, Subhash Patel <kkmpsilvermink@gmail.com>, Tom McAndrews <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, Warren Lyall <wcllyall@gmail.com>

Please see the attached document regarding the Pauma Valley Groundwater Sustainability Agency's posting of a draft Groundwater Sustainability Plan.

 **Public Comment Notica.pdf**
62K

Pauma Valley GSA Stakeholder Outreach

1 message

GSA Group <gsa@yulmamwd.com>

Fri, Dec 3, 2021 at 7:27 AM

To: Amy Reeh <amy@yulmamwd.com>, Carmen Rodriguez <carmen@yulmamwd.com>
Bcc: Andy Lyall <awlyall@gmail.com>, Andy Lyall <LYALLRANCH@gmail.com>, Anita Regmi <Anita.Regmi@water.ca.gov>, Anthony Cinquini <anthony@anthonycinquini.com>, Art Bunce <buncealaw@aol.com>, Bernardo Marquez <plumdreams@yahoo.com>, Bill Knutson <wdknute@yahoo.com>, Bill Steed <Bill@fairfieldllc.com>, Bobby Graziano <bobby.graziano@gmail.com>, Bradley Smith <bms0345@gmail.com>, Brian Villalobos <bvillalobos@geoscience-water.com>, Bruce Knox <bknnox@dlginsurance.net>, Cari Dale <cdale@oceansideca.org>, Carla Burrus <carlaburrus@hotmail.com>, Charles Mathews <Mathews.charles@gmail.com>, Charles Stubbs <cstubbs@averde.com>, Charm Crandall <charm@charmlogandesigns.com>, Christopher Griess <chris@griessfamily.com>, Chuck Bandy <mcmillanfarmgmt@msn.com>, Don Broomell <don.broomell5@gmail.com>, Douglas Humphrey <Douglas.Humphrey@dgs.ca.gov>, Earl Rutz <earlrutz1@mac.com>, Eilen Anderson <eilenanderson555@gmail.com>, Emily Fan Michaelson <emichaelson@katzandassociates.com>, Fritz Stumpges <fritzstumpges@gmail.com>, Gary Arant <garant@vcmw.org>, Greg Kamin <atranchllc@gmail.com>, Jack Hall <info@lazyh.com>, Jack Hoagland <jehassociates@msn.com>, Jeannie Scheil <jjs1sgma@gmail.com>, Jeremy Jungreis <JJungreis@rutan.com>, Jim Bennett <jim.bennett@sdcounty.ca.gov>, Jim Cipriano <jecippy@gmail.com>, John Beresford <john.beresford@lajolla-nsn.gov>, Laney Villalobos <LaneyforYulmawaterdistrict1@gmail.com>, Lauren Wicks <lwicks@geoscience-water.com>, Laurie Kariya <pvchouse@gmail.com>, Leanne Crow <leanne.crow@sdcounty.ca.gov>, Lori Johnson <lajsn1234@gmail.com>, Lorna Ross <lornahross@hotmail.com>, Lydia Vogt <lvogt6900@gmail.com>, Michael Gibson <deniseandmikeg@att.net>, Michael Robertson <mr@michaelrobertson.com>, Mike Perricone <michaelperricone31@gmail.com>, Mootamai MWD <mootamaimwd@gmail.com>, Norma Larios <nlarlos@csusm.edu>, Paige Hughes <incgroundwater@gmail.com>, Paul Marangella <PMMARAN@gmail.com>, Ray Rodriguez <rtcc08@gmail.com>, Ricardo Cortez <zetrocr@gmail.com>, Richard Williamson <Richard@williamsonengineers.com>, Robert Jackson <robert@jacksontriallawyers.com>, Roland Simpson <roland@yulmamwd.com>, Sandra Wetzler <s.wetzler@musicpeeler.com>, Spencer Steed <spencer@fairfieldllc.com>, Stephanie Hastings <shastings@bhfs.com>, Steve Anderson <Steve.Anderson@bbklaw.com>, Steve Wehr <steve.wehr@yahoo.com>, Subhash Patel <kkmpsilvemink@gmail.com>, Tom McAndrews <tmcandrews@pauma-nsn.gov>, Tricia Arredondo <tarredondo2018@gmail.com>, Warren Lyall <wcyall@gmail.com>, Bo Mazzetti <bomazzetti@aol.com>

Good Morning PVGSA Stakeholders,

The Pauma Valley GSA will conduct a Stakeholder Outreach meeting to review the Draft Groundwater Sustainability Plan that was released for public comment on November 23, 2021 with a question and answer session after the review. Please click the link below to register for the meeting.

You are invited to a Zoom webinar.

When: Dec 8, 2021 04:00 PM Pacific Time (US and Canada)

Topic: Pauma Valley GSA Stakeholder Outreach

Register in advance for this webinar:

https://us02web.zoom.us/webinar/register/WN_s1WoK4SITGKpso24pZbibA

After registering, you will receive a confirmation email containing information about joining the webinar.

Please note that any official public comments regarding the draft plan must be submitted in writing by January 7, 2022. The Notice and directions for comment submission are also attached to this email for your convenience.

2 attachments

 Public Comment Notice (1).pdf
62K USLR GSA 2021-12-08 Stakeholder meeting.pdf
52K

Re: Upper San Luis Rey Groundwater Subbasin G.S.A Executive Team Meeting

1 message

GSA Group <gsa@yulmamwd.com>
To: Jeff Helsley <jeffh@stetsonengineers.com>

Fri, Dec 3, 2021 at 12:54 PM

Hi Jeff,

Please find the Zoom link below per your request. Let me know if you have any questions or concerns.

Join Zoom Meeting

<https://us02web.zoom.us/j/7607423704?pwd=L05lQzF1bVNrMHo4aHhRdzkxYktrUT09>

Meeting ID: 760 742 3704

Passcode: 901121

Sincerely,

Carmen Rodriguez

On Fri, Dec 3, 2021 at 10:47 AM Jeff Helsley <jeffh@stetsonengineers.com> wrote:

Hello,

I would like to get the Zoom link for the Upper San Luis Rey Groundwater Subbasin G.S.A Executive Team meeting at 9am on December 6, 2021.

Thank you

Jeff Helsley

**Jeff Helsley, PE** Engineering Manager T: 626-967-6202 jeffh@stetsonengineers.com

STETSON ENGINEERS INC. 881 Village Oaks Drive, Suite 100, Covina CA 91724



Amy Reeh <amy@yuimamwd.com>

PVGSA Executive Team Meeting

1 message

Amy Reeh <amy@yuimamwd.com>
To: Bo Mazzetti <bomazzetti@aol.com>
Cc: "Jungreis, Jeremy" <JJungreis@rutan.com>
Bcc: Steve Anderson <steve.anderson@bbklaw.com>

Fri, Dec 3, 2021 at 7:40 AM

Good Morning Chairman Mazzetti,

Please find a copy of the agenda for the next GSA Executive Team Meeting attached to this email.

As always, the team welcomes and encourages you, or any representative you choose, to participate in the meeting.

Thank you; I hope you have a pleasant day.

Kindest Regards,

Amy Reeh | General Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: **760-742-3704** | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



 **REVISED USLR GSA 2021-12-06 Special.pdf**
60K



Department of Water Resources
Facilitation Support Services Application

Corresp
Re:
Facilitation

The Department of Water Resources (DWR) is offering Facilitation Support Services (FSS) to help GSAs and local water management groups foster discussions among diverse water management interests and jurisdictions in support of Sustainable Groundwater Management Act (SGMA) implementation.

For questions or assistance with this FSS Application, please contact Simar Dhanota at Simarjit.Dhanota@water.ca.gov or (916) 651-0889.

I. Applicant Background: (Questions 1-6 of 17)

*** 1) Select the groundwater basin/subbasin that is requesting FSS:**

SAN LUIS REY VALLEY - UPPER SAN LUIS REY VALLEY (9-007.01)

*** 2) Enter applicant information:**

Applicant Name: Yuima Municipal Water District

Point of Contact: Amy Reeh

Phone Number: 760-742-3704

Email Address: amy@yuimamwd.com

*** 3) Is the applicant affiliated with a GSA?**

Which GSA is the applicant affiliated with, or if not affiliated with a GSA, briefly describe how the request for professional facilitation will aid SGMA implementation for the groundwater basin/subbasin identified above, and how the applicant plans to work with the GSAs.

Yes, affiliated with a GSA

Pauma Valley GSA (Upper San Luis Rey GSA)

*** 4) Please provide a brief narrative discussion on the applicant's current involvement, roles, and responsibilities regarding SGMA Implementation activities located within the groundwaterbasin/subbasin.**

Yuima Municipal Water District is the lead agency of the Groundwater Sustainability Agency (GSA). Yuima holds two grants whose funds are being utilized to develop a Groundwater Sustainability Plan (GSP). Yuima has contracted with a consultant to develop the GSP. As the lead agency Yuima holds monthly GSA meetings to coordinate the GSP development process.

*** 5) What other professional facilitation funding or services has the applicant received from the State?**

None

DWR Prop 1

DWR Prop 68

DWR Facilitation Support Services

State Water Resources Control Board

Other (please specify)

6) Please explain the scope of any active professional facilitation.

N/A

II. Collaboration within and across Groundwater Basin/Subbasin Boundaries: (Questions 7-10 of 17)

*** 7) List all GSAs (and/or other water management entities) within the groundwater basin/subbasin that the applicant is currently collaborating with, or intends to collaborate with, on SGMA implementation:**

The Pauma Valley GSA (or Upper San Luis Rey GSA) is the only GSA in the basin / sub-basin. This GSA is comprised of three local agencies: Yuima Municipal Water District, Upper San Luis Rey Resource Conservation District, and Pauma Valley Community

Services District.

- * 8) Are there any GSAs (and/or other water management entities) across the groundwater basin/subbasin boundary, that the applicant currently is, or intends to collaborate with, on SGMA implementation?

No

- * 9) Please discuss the nature of collaboration. What are the GSAs collaborating on?

N/A

- * 10) Which beneficial uses and users of groundwater has the applicant established a venue for engagement, or plans to establish a venue for engagement?(List all applicable uses and users of groundwater – see [Water Code Section 10723.2](#))

Although the basin is comprised mainly of commercial agricultural interests, there are many different stakeholders. Located within the basin are three municipal water districts, 6 mutual water companies, tribal interests and uses, private pumpers, hundreds of domestic users and several commercial endeavors. The GSA has established a comprehensive stakeholder outreach list that includes every parcel owner in the basin.

III. Facilitation Needs: (Questions 11-14 of 17)

- * 11) Please explain the key challenges the applicant has encountered that has led to the need for professional facilitation.

The GSA has had difficulty engaging the participation of the Tribes in the basin. Since an impasse was reached within the 2019 GSP Development Executive Team and the GSA had to move forward under the original governance structure, the Tribes have repeatedly decline the GSA's invitations to participate.

- * 12) DWR's FSS program requires applicants to have a well-defined goal for the requested services. What is the applicant's goal for professional facilitation?

The facilitate a meeting with the Tribal interests of the basin in an effort to determine their concerns and how the GSA can address those concerns in order to develop a cohesively working GSP development team that includes Tribal participation.

- * 13) Which facilitation support services are you seeking? (*select all that apply*)

- Stakeholder assessment
- Tribal government outreach and engagement
- Meeting facilitation
- Intra-basin and inter-basin coordination support
- Interest-based negotiations/consensus building
- Stakeholder communication and engagement planning and support
- Public and stakeholder outreach
- Governance development
- Targeted outreach to underrepresented groundwater users - Severely disadvantaged communities/ disadvantaged communities
- Targeted outreach to underrepresented groundwater users - Private domestic well owners
- Targeted outreach to underrepresented groundwater users - Small growers
- Targeted outreach to underrepresented groundwater users - Communities on small water systems
- Targeted outreach to underrepresented groundwater users - Other (*please specify*)

- 14) Regarding SGMA implementation activities, is there any additional information you would like to provide that professional facilitation will help support?

No

IV. Applicant's Commitments: (Questions 15-16 of 17)

- * 15) DWR requires ALL of the following commitments from applicants benefiting from DWR's FSS program. Please review and select the commitments you agree to:

- Commit to meet regularly and work diligently toward a clear and defined goal.
- Agree to work in an open, inclusive, and collaborative manner toward SGMA implementation.

Support an inclusive process that encourage and welcomes involvement of all stakeholders and interested parties.

Commit to providing a meeting space that is suitably located and sized.

Is there any additional information you would like to add?

No

16) Are there any other considerations DWR should take into account?

No

V. Anticipated Tasks and Timeline: *(Questions 17 of 17)*

17) Please summarize anticipated tasks, deliverables, and completion dates to be completed with support of DWR FSS.

(Applicants can use the text box or attach files below.)

While there are no specific completion date for facilitating a possible meeting with the Tribal interests of the basin; the GSA is hoping to accomplish development of a working relationship with the Tribes as soon as possible so that they can participate in every facet of the GSP development process.



Amy Reeh <amy@yuimamwd.com>

Receipt of FSS Application for Upper San Luis Rey Valley Subbasin

1 message

Dhanota, Simarjit@DWR <Simarjit.Dhanota@water.ca.gov>

Thu, Nov 12, 2020 at 1:19 PM

To: Amy Reeh <amy@yuimamwd.com>

Cc: "Regmi, Anita@DWR" <Anita.Regmi@water.ca.gov>, "Ross, Timothy@DWR" <Timothy.Ross@water.ca.gov>, "Moniz, Brian@DWR" <Brian.Moniz@water.ca.gov>

Hello Ms. Reeh,

DWR has received Yuima Municipal Water District's application for Facilitation Support Services for Upper San Luis Rey Valley subbasin; it is under review. A copy of the application is attached for your records.

DWR staff will contact you if there are questions regarding the request.

Sincerely,

Simar Dhanota

 **SanLuisReyValley_20201112.pdf**
141K



Amy Reeh <amy@yuimamwd.com>

FW: Receipt of FSS Application for Upper San Luis Rey Valley Subbasin

1 message

Moyle, Craig <craig.moyle@stantec.com>
To: "amy@yuimamwd.com" <amy@yuimamwd.com>

Wed, Nov 18, 2020 at 4:44 PM

Ms. Reeh,

Good evening. I hope this message finds you, our family and colleagues well. By way of introduction, I serve as the senior managing facilitator and project manager for the DWR Facilitation Support Service Program. I work directly with Simar Dhanota and Keith Wallace on preparation of the scope, schedule and budget for professional facilitation services to GSAs based on their application.

As mentioned by Simar's email to you below, a meeting was held today to discuss the application and identify the appropriate next steps. Among my next steps is to introduce myself to you and schedule a follow up call to discuss your application. Would you have time mid-afternoon Thursday or Friday afternoon work with your schedule?

Kind regards,

Craig

Craig Moyle, PMP

Principal Public Affairs Specialist
Stantec

3301 C Street, Suite 1900

Sacramento, Calif. 95816

Phone: +1 (916) 418-8248

Cell: +1 (916) 642-6383

Craig.Moyle@stantec.com

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

Please consider the environment before printing this email.

From: Dhanota, Simarjit@DWR <Simarjit.Dhanota@water.ca.gov>
Sent: Tuesday, November 17, 2020 5:16 PM
To: Moyle, Craig <craig.moyle@stantec.com>
Subject: FW: Receipt of FSS Application for Upper San Luis Rey Valley Subbasin

For our discussion tomorrow.

From: Dhanota, Simarjit@DWR
Sent: Thursday, November 12, 2020 1:19 PM
To: Amy Reeh <amy@yuimamwd.com>
Cc: Regmi, Anita@DWR <Anita.Regmi@water.ca.gov>; Ross, Timothy@DWR <Timothy.Ross@water.ca.gov>; Moniz, Brian@DWR <Brian.Moniz@water.ca.gov>
Subject: Receipt of FSS Application for Upper San Luis Rey Valley Subbasin

Hello Ms. Reeh,

DWR has received Yuima Municipal Water District's application for Facilitation Support Services for Upper San Luis Rey Valley subbasin; it is under review. A copy of the application is attached for your records.

DWR staff will contact you if there are questions regarding the request.

Sincerely,

Simar Dhanota

 **SanLuisReyValley_20201112.pdf**
141K



Amy Reeh <amy@yuimamwd.com>

FW: Karuk Tribe/Siskiyou County MOU

1 message

Moyle, Craig <craig.moyle@stantec.com>
To: Amy Reeh <amy@yuimamwd.com>

Thu, Nov 19, 2020 at 4:06 PM

Amy,

Very nice to meeting you virtually this evening. Attached is the MOU that was prepared by our team with the Karuk tribe in Northern California.

Kind regards,

Craig

 **FLD_20200317_Karuk SGMA MOU - Executed.pdf**
241K

By: Wendy D. Wick
Deputy

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE SISKIYOU COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
AND
THE KARUK TRIBE

This Memorandum of Understanding is entered into by and between the Karuk Tribe ("Tribe") and the Siskiyou County Flood Control and Water Conservation District ("District"), collectively referred to as "the Parties".

WHEREAS, in September of 2014, the Governor of the State of California signed legislation known as the Sustainable Groundwater Management Act, codified as California Water Code, §§ 10720 *et seq.*, ("SGMA") that requires groundwater resources throughout California to be managed by local Groundwater Sustainability Agencies; and,

WHEREAS, the District has been designated by the California Department of Water Resources as the Groundwater Sustainability Agency ("GSA") for the Butte, Scott and Shasta Valley Groundwater Basins ("Basins"); and,

WHEREAS, the Basins have been designated under SGMA as medium priority basins, requiring the District to prepare and adopt a Groundwater Sustainability Plan ("GSP") for the Basins by January 31, 2022; and,

WHEREAS, the Tribe is a federally recognized Indian tribe; and,

WHEREAS, the District recognizes the established Federal and State laws under which Native American tribal governments are treated as distinct legal and political entities, with their own powers of self-governance and self-determination; and,

WHEREAS, the Tribe has notified the District that the Tribe's aboriginal territory includes the mouth of the Scott River and it has a long standing interest in the health and productivity of both the Scott and Shasta Rivers; and,

WHEREAS, the Tribe has expressed that these rivers are fundamental to the health of the Klamath Basin fisheries, supporting populations of Spring Chinook Salmon, Fall Chinook salmon, ESA-listed Coho salmon, Pacific Lamprey, Summer steelhead, and Winter steelhead, and each of these species are intrinsic parts of the Tribe's culture and identity; and,

WHEREAS, the Scott River is a navigable waterway and 303(d) listed for water temperature impairment and sediment impairment; and,

WHEREAS, the North Coast Regional Water Quality Control Board's September 2006 Action Plan for the Scott River Sediment and Temperature Total Maximum Daily Loads stated that excessive sediment loads and elevated temperatures had resulted in degraded water quality conditions that impaired designated beneficial uses of water for the Scott River; and,

WHEREAS, the Shasta River is a navigable waterway and 303(d) listed for water temperature impairment and dissolved oxygen impairment; and,

WHEREAS, the North Coast Regional Water Quality Control Board's June 28, 2006 Action Plan for the Shasta River Temperature and Dissolved Oxygen Total Maximum Daily Loads stated that elevated temperature and low dissolved oxygen had resulted in degraded water quality conditions that impaired designated beneficial uses of water for the Shasta River; and,

WHEREAS, the Tribe continues to develop technical and scientific data through its Department of Natural Resources, which the District agrees to consider, with the understanding that a fair and balanced approach is pivotal to the success of a collaboratively developed GSP for the Basins; and,

WHEREAS, the Parties intend to memorialize a Communications Protocol intended to strengthen meaningful communication and information sharing, with the goal of enhancing the quality of the GSP that will result from the District's implementation of SGMA.

I. AUTHORITY.

- a. The Tribe, acting by and through the Karuk Tribal Council pursuant to the Karuk Constitution exercises its inherent sovereign authority to enter into this MOU.
- b. The District is a special district, established in 1959 by the Siskiyou County Flood Control and Water Conservation District Act, (Cal Uncod. Water Deer, Act 1240 §§ 1-38), and is the GSA for the Shasta, Scott and Butte Valley groundwater basins. The District's powers include the ability to enter into agreements and memorandums of understanding with other parties.

II. PURPOSE.

The Purpose of this MOU is to formalize good faith Communication Protocols between the Tribe and the District to i) mutually exchange and disseminate information pertinent to the District's development of a GSP pursuant to SGMA, and ii) discuss and ensure full dialog around science and technical information in order to understand and attempt to dispel discrepancies.

III. IMPLEMENTING ACTIONS.

- i. The Parties agree to meet in order to share disclosable information pertinent to the development of the GSP at mutually agreed upon dates, locations and times.
- ii. Any information the Tribe considers confidential, which the Tribe desires to share with the District, shall be marked as "confidential" in bold red font at the top of the first page of the document, and shall be accompanied by a statement of the legal basis upon which the District may withhold the document from the public pursuant to the California Public Records Act, Government Code section 6250 *et seq.*
- iii. The Parties agree that each Party will appoint a single representative to respond to inquiries on issues addressed in or affected by the MOU. The Tribe's representative may address public inquires, but is not required to.
- iv. The Parties agree that each Party may request DWR facilitation services to ensure the Parties continue working together.
- v. The Parties agree that at any time any Party may request an informal consultation meeting that will include two (2) Siskiyou County elected representatives and two (2) Karuk Tribal Council elected representatives and relevant staff for the purpose of attempting to resolve any issues arising from Technical Meetings or development of the GSP.
- vi. The Parties agree that if there is a lack of resolution at the informal consultation meeting any Party may request and be given an official Government to Government consultation meeting that would include a majority of the Karuk Tribal Council and the District Board, and be held in accordance with California's Ralph M. Brown Act.
- vii. In the event, after good faith communication, the Tribe considers an issue unresolved, the Tribe may document the issue by way of letter or memorandum and submit it to the District prior to the District's adoption of the GSP during the local comment period. The Tribe's letter or memorandum and the District's response shall be included in full in a Tribal Comments and Response appendix of the GSP.

IV. TERM.

- a. This MOU shall become effective upon execution by each of the Parties.

- b. The term of this MOU is from the effective date to January 31st, 2022, or, if earlier, to the date of the District's GSP submittal to DWR, unless terminated in accordance with the provisions of Section V.

V. TERMINATION.

Either Party may terminate this agreement upon thirty (30) days written notice to the other Party.

VI. LEGAL EFFECT.

- a. This MOU imposes no legally binding obligations upon any Party hereto. Rather it sets out terms for cooperation and data sharing, with the goal of enhancing the quality of the GSP that will result from the District's implementation of SGMA.
- b. The parties agree that the MOU is a public document.

VII. NOTIFICATIONS.

Any notification required under the MOU shall be in writing and shall be addressed as follows:

If to District:

Matt Parker
1312 Fairlane Road
Yreka, California 96097
mparker@co.siskiyou.ca.us

If to Tribe:

Joshua Saxon
64236 Second Avenue
PO Box 1016
Happy Camp, California 96039
jsaxon@karuk.us

VIII. AMENDMENT.

This MOU may be amended at any time during the term of this MOU upon the mutual consent of both parties. No addition to, or alteration of, the terms of this MOU shall be valid unless made in writing and signed by the parties hereto.

IX. ENTIRE AGREEMENT.

This MOU contains all of the terms and conditions agreed upon by the parties hereto and no other agreements, oral or otherwise, regarding the subject matter of this MOU shall be deemed to exist.

X. AUTHORITY TO EXECUTE.

Each person executing this MOU represents and warrants that he or she is duly authorized and has legal authority to execute and deliver this MOU.

KARUK TRIBE:

By: *Russell "Buster" Attebery*
Russell "Buster" Attebery
Karuk Tribe Chairman

Date: 3-12-2020

SISKIYOU COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

By: *Michael Kobseff*
Michael Kobseff, Board Chair
Board of Directors

Date: 3/17/2020

ATTEST:
LAURA BYNUM
Clerk, Board of Directors

By: *Wendy Dijk*
Deputy



Amy Reeh <amy@yuimamwd.com>

RE: Correspondence with the SLRIWA

1 message

Moyle, Craig <craig.moyle@stantec.com>
To: Amy Reeh <amy@yuimamwd.com>

Fri, Dec 4, 2020 at 10:45 AM

Good morning, Amy

Hope all is well with you, your family and colleagues. Wanted to provide a quick update on my conversations/correspondence associated with the GSA's FSS application. Would you have time today or early next week to discuss?

Kind regards,

Craig

From: Amy Reeh <amy@yuimamwd.com>
Sent: Friday, November 20, 2020 1:16 PM
To: Moyle, Craig <craig.moyle@stantec.com>
Subject: Re: Correspondence with the SLRIWA

My apologies; I have a bad habit of hitting send before the file has finished attaching. Here you go!

Kindest Regards,

Amy Reeh | Interim General Manager / Finance & Administrative Services Manager | Yuima Municipal Water District

PO Box 177 | Pauma Valley, CA 92061 | O: 760-742-3704 | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



On Fri, Nov 20, 2020 at 1:03 PM Moyle, Craig <craig.moyle@stantec.com> wrote:

Hi Amy – Doesn't look like the attachments made it through.

Craig

From: Amy Reeh <amy@yuimamwd.com>
Sent: Friday, November 20, 2020 12:14 PM

To: Moyle, Craig <craig.moyle@stantec.com>
Subject: Re: Correspondence with the SLRIWA

Hi Craig,

Sorry for the delay in getting this to you; crazy morning. I've attached the correspondence I sent to Taryn because it has all of the pertinent documentation and may be helpful. Please let me know if I can provide you with any other information. Take care and have a nice weekend!

Kindest Regards,

Amy Reeh | Interim General Manager / Finance & Administrative Services Manager | Yuima Municipal Water District
PO Box 177 | Pauma Valley, CA 92061 | O: **760-742-3704** | amy@yuimamwd.com

"Kindness is the language the deaf can hear and the blind can see." - Mark Twain



On Thu, Nov 19, 2020 at 6:41 PM Moyle, Craig <craig.moyle@stantec.com> wrote:

Hi Amy,

Would it be possible to get a copy of the letters you sent to the tribe to invite their participation and their response?

Thanks,

Craig

DIRECTORS

Bo Mazzetti, President
Geneva Lofton, Vice President
Pamela Arviso, Treasurer
Steven Cope, Secretary
Temet Aguilar, Member At Large
Robert H. Smith
Reuben Rodriguez
Matthew Quis Quis
Tuukut Sass
Venessa Brown



Post Office Box 428
Pauma Valley, CA 92061
Telephone: (760) 742-1903
Facsimile: (760) 742-1745
www.slrwa.org

SPECIAL COUNSEL
Robert S. Pelcyger

SPECIAL COUNSEL
Art Bunce

GENERAL COUNSEL
Eugene R. Madrigal

August 14, 2020

Dear David,

The situation with respect to the application of SGMA to the Upper San Luis Valley Basin continues to deteriorate. The San Luis Rey Indian Water Authority understands that the Board of Directors of the Yuima MWD has approved and entered into (or is about to enter into) a contract with Geoscience Support Systems to prepare a GSP for the entire SLR Basin. The scope of work for the approved contract does not include any consideration or analysis of the reserved water rights of the 5 Indian Bands. It is therefore inconsistent with the requirement of SGMA that "Indian Reserved Water Rights shall be respected in full."

The IWA believes that Yuima intends to use the money from two previously approved DWR grants to pay for most or all of the work to be performed by Geoscience under the proposed contract. The Indian Water Authority respectfully requests DWR to immediately notify Yuima that its proposed contract with Geoscience is inconsistent with SGMA and that State grant funds therefore may not be used to pay for any work to be performed under that contract.

The Indian Water Authority also respectfully requests that DWR and the State Board use the full extent of their authorities to take all appropriate measures to carry out the requirements of SGMA to the Upper Basin in accordance with the SGMA's deadlines. The IWA and the Bands are ready, willing and able to assist the State's efforts.

Please distribute this email to the appropriate officials of DWR and the State Board.

Thank you.

Sincerely,

Bo Mazzetti, President
San Luis Rey Indian Water Authority

Board of Directors
 Roland Simpson - President
 Steve Wehr - Vice-President
 Don Broomell - Secretary/ Treasurer
 Lasey Villalobos - Director
 Richard Fontaine - Director



MUNICIPAL WATER DISTRICT

P.O. BOX 177, 34928 VALLEY CENTER ROAD
 PAUMA VALLEY, CA 92061-0177

Tel: (760) 742-3704 • Fax: (760) 742-2069

e-mail: yuima@yuimamwd.com

October 9

August 2, 2020

Taryn Ravazinni
 Deputy Director
 Statewide Groundwater Management
 California Department of Water Resources (DWR)
 P.O. Box 942836
 Sacramento, CA 94236-001
Taryn.ravazinni@water.ca.gov

TRANSMITTAL VIA E-MAIL

RE: Upper San Luis Rey Valley GSP Development – Response to DWR September 15, 2020 Letter

Dear Ms. Ravazinni,

Thank you for your September 15 letter following up on our telephone conversations on August 28 and September 10, 2020. As I indicated during our conversation, the Pauma Valley GSA, and Yuima as the lead agency, is eager to assist DWR, and other interested state agencies, in addressing any concerns that may arise during the process of developing a groundwater sustainability plan (GSP) in the Upper San Luis Rey Valley Sub-Basin ("Sub-Basin").

In an effort to do just that the GSA offers the following information in response to your questions posed in your letter.

- 1) *"Please describe the specific nature of and reasons for the impasse as reported in YMWD's Proposition 1 SGMP Grant Progress Report Numbers 3 through 5 to the Department over the last year?"*

During the GSP consultant selection and Scope of Work development process the participants of the 2019 Memorandum of Understanding were unable to agree on a contract scope of work for GSP preparation. As part of the 2019 MOU, the Parties to the MOU, including the San Luis Rey Indian Water Authority (USLRIWA), approved a relatively simple draft scope of work (attached hereto with 2019 MOU), that followed DWR regulations for GSP development. However, when it came to agreeing upon actual contract tasks with a GSP Consultant, the SLRIWA sought to add a new and controversial task that was not addressed, nor contemplated, in the 2019 MOU, or at any other prior time. This specific proposed directive (referred to by the MOU participants as proposed Task 2.3) would require the GSP consultant to evaluate, and de-facto adjudicate, the water rights of all groundwater users in the basin, interpret state law rights and analyze them vis-a-vis federal

reserved water rights (FRWR) asserted by USLRIWA members, and then use the Consultant's conclusions about the relative rights of various groundwater producers in the Sub-Basin to develop a water budget.

The representatives of the San Luis Rey Indian Water Authority desired to have the physical amount of land (number of acres) owned by each groundwater producer to be the determining water rights factor and included in the calculation methodology of the water budget. The representatives of the other participants felt strongly that it is not the job of the GSP consultant to adjudicate water rights—indeed SGMA would not appear to permit such an approach¹—and that a water budget should be developed based upon the DWR GSP Regulations and upon how much water enters and leaves the Basin under different hydrologic conditions. Unfortunately, despite many months and numerous attempts by Yuima and other stakeholders to revise this section of the draft consultant contract to reach a compromise approach, USLRIWA continued to insist upon an adjudication/quantification of FRWR in the GSP, and the workgroup was unable to reach agreement on an approach acceptable to all parties.

That stated, Yuima, and the other members of the USLR GSA, continue to encourage robust participation by USLRIWA (and its Tribal members) in the development of a GSP for the USLR Sub-Basin in a manner in which Tribal members feel comfortable participating. To date, the USLRIWA has been unwilling to participate, but Yuima will continue to invite Tribal representatives, and solicit their participation at every stage of GSP development. Bottom line, whether Tribal representatives choose to participate in the GSP development process or not, any GSP developed for the Sub-Basin will fully comply with SGMA's mandate that "Indian Reserved Water Rights shall be respected in full."²

- 2) *"Does either the impasse or the amended GSA MOU uploaded to the Department's GSA formation webpage on July 17, 2020, affect preparation of a GSP?"*

Neither the impasse nor the amended GSA MOU will affect the preparation of a GSP since the members of the GSA after amendment of the 2017 MOU are the same agencies that were going to manage the Sub-Basin per SGMA before the impasse with the USLRIWA arose in 2019. Amending the 2017 MOU allowed the governing body of the GSA to move forward with the preparation of a GSP in order to meet the deadlines for GSP submission established in SGMA. It is important to note that the 2019 MOU was established only to form a committee to potentially develop the GSP and did not change the governance structure of the GSA created by the 2017 MOU, nor did it in any way negate the governing powers of the signatories to the 2017MOU. This was clearly stated in section 2(d) of the 2019 MOU of which I have attached a copy. Amendment of the 2017 MOU in July 2020

¹ Water Code section 10720.5(b) states that nothing in a GSP "alters surface water rights or groundwater rights under common law or any provisions of law that determines or grants surface water rights." Determining and quantifying FRWR in a GSP would appear inconsistent with Section 10720.5(b). FRWR are not awarded by the State (or a federal agency).

² The Scope of Work for the GSP specifically mandates the GSP be developed in a manner that fully respects FRWR. From page 7 of the Request for Qualifications (incorporated by reference into the Geoscience GSP Contract): *"Portions of the La Jolla, Pala, Pauma, and Rincon Tribes are located within the Upper Subbasin. The San Pasqual Tribe is also located in the vicinity of the Upper Subbasin. The GSP and GSA will need to consider and respect federally reserved water rights to groundwater as part of the management of the Basin. A confidentiality agreement between the consultant and tribes (as well as other pumpers) may be required in order to ensure the consultant can obtain pumping, well elevation, and other data to complete the GSP."*

was needed not because of the impasse with the Tribes, but because of the need to clarify Yuima's role as lead agency for GSP development given the County of San Diego's withdrawal from the 2017 MOU (and the GSP development process) in 2019.

Since the signing of the amended MOU in July 2020, the Executive Committee of the GSA has selected a GSP consultant, Geoscience Support Services, Inc., who has been retained by Yuima and who has already begun work on development of a GSP—including a robust stakeholder outreach and participation plan.

3) *"How will the current GSP preparation process under the recently revised MOU integrate or consider Tribal interests?"*

The Pauma Valley GSA believes that participation of *all* basin stakeholders, including Tribal stakeholders, is of great importance throughout the development of the GSP for the Sub-Basin.

The Pauma Valley GSA demonstrated their desire to include Tribal interests by repeatedly requesting the participation of the San Luis Rey Indian Water Authority (IWA) in the amended MOU Executive Team. The IWA declined to participate, stating that the IWA "does not recognize the current legitimacy of the Groundwater Sustainability Agency created under the 2017 Memorandum of Understanding". As previously stated, the GSA formed under the 2017 MOU has always been the GSA for the Sub-Basin. The GSA continues to engage Tribal interests by sending invitations and meeting notices to the President of the IWA, Rincon Tribal Chairman Bo Mazzetti, via email and regular mail service. These attempts have thus far not resulted in Tribal participation.

Not only will the GSA continue to encourage the participation of the Tribes by sending invitations and meeting notices for each GSA meeting, and giving them a seat on the GSP development Executive Team should they desire to participate in this capacity, we will also solicit their participation via the GSP stakeholder outreach process. Outreach for participation will not only be sent to the IWA but to each Tribe individually.

As indicated in your letter, the GSA recognizes the need for Tribal participation throughout this process and is committed to making every effort to build a cooperative working relationship with the Tribal interests in the Sub-Basin. Their knowledge and experience will be a valuable asset to the process as we move forward. As suggested by your Department, Yuima has reached out to Simar Dhanota in DWR's facilitation support services division to assist in this endeavor. It is our fervent hope that she can assist the GSA with facilitation of a meeting with, and future participation in GSP development of, the IWA. Until this comes to pass, we will continue our outreach efforts in the hopes the Tribes will soon choose to join us in developing a fair, equitable, and legally compliant GSP for the Upper San Luis Rey Groundwater Sub-Basin.

I sincerely appreciate the Department's commitment in assisting our agency through this difficult process. I also appreciate your time and effort in helping the Pauma Valley GSA and the IWA find common ground on which to build a strong, cohesive relationship for the future.

Warmest Regards,



Amy Reeb
Interim General Manager
Yuima Municipal Water District, GSA Lead Agency

cc: Bo Mazzetti, President, San Luis Rey Indian Water Authority

enclosures: Copy of 2019 Memorandum of Understanding (with approved scope of work)
Copy of outreach letters to IWA
Copy of letter received from IWA



CALIFORNIA DEPARTMENT OF WATER RESOURCES
**SUSTAINABLE GROUNDWATER
MANAGEMENT OFFICE**

901 P Street, Room 313-B | Sacramento, CA 95814 | P.O. Box 942836 | Sacramento, CA 94236-0001

September 15, 2020

TRANSMITTAL VIA E-MAIL

Ms. Amy Reeh
Interim General Manager
Yuima Municipal Water District
P.O. Box 177
Pauma Valley, CA 92061-0177
amy@yuimamwd.com

RE: Upper San Luis Rey Valley GSP Development

Dear Ms. Reeh,

This letter follows our phone conversations on August 28 and September 10, 2020, regarding groundwater sustainability plan (GSP) preparation in the Upper San Luis Rey Valley groundwater subbasin (DWR Bulletin 118 Basin No. 9-007.01). I appreciated receiving an update on Pauma Valley GSA's efforts to develop a GSP inclusive of all beneficial uses and users of the subbasin.

At the outset of GSP preparation for the basin, the Department was encouraged by the agreement struck between local agencies and local Tribes in a 2019 memorandum of understanding (MOU) that integrated Tribal stakeholders into the GSP preparation process. As we discussed, the Department is aware of the self-described "impasse" among members of the executive committee that resulted in a disruption to the previously established agreement and process. This "impasse" has led to an amended MOU recently uploaded to the Department's SGMA Portal. The Department has monitored the GSP development effort in the Upper San Luis Rey Valley Subbasin due to the unique nature of the basin and its stakeholders and, of course, in accordance with the guidelines for the Proposition 1 GSP Planning grant awarded to Yuima Municipal Water District (YMWD).

The Department recognizes that local agencies and communities throughout the state are dealing with many stressors and appreciate that the Pauma Valley GSA is working to stay on track with SGMA's statutory deadlines. Per our conversations, the Department is interested in better understanding and documenting the current status of the GSP development efforts pursuant to Pauma Valley GSA's amended MOU. Accordingly, the Department is seeking a written response to the following questions and would appreciate answers to be provided by October 9, 2020.

- 1) Please describe the specific nature of and reasons for the impasse as reported in YMWD's Proposition 1 SGWP Grant Progress Report Numbers 3 through 5 to the Department over the last year?

- 2) Does either the impasse or the amended GSA MOU uploaded to the Department's GSA formation webpage on July 17, 2020, affect preparation of a GSP? Please explain.
- 3) How will the current GSP preparation process under the recently revised MOU integrate or consider Tribal interests?

Our conversations also touched on Pauma Valley GSA's previous use of the state's facilitation support services specifically to support improved coordination between the GSA and Tribal interests. The Department continues to believe that the best chance for successful and robust local SGMA implementation is for both the Tribes and GSA to work transparently and cooperatively, along with other basin stakeholders. You stated clearly that Pauma Valley GSA recognizes the need for cooperative and inclusive engagement between the GSA and tribal governments to achieve sustainability of groundwater resources in the subbasin. Additionally, I noted your interest in resuming use of the Department's facilitation support services. In my email to you on August 28, 2020, per your request, I provided the contact information of our Facilitation Support Services Coordinator, Simar Dhanota, along with other key Department contacts to further facilitate Pauma Valley GSA's access to the range of local assistance offerings and support tools designed to help GSAs engage in an inclusive and transparent GSP development process.

The Department is committed to assisting local agencies with navigating the challenges of SGMA implementation. As the point of contact for the Pauma Valley GSA, should you have any questions or concerns with fulfilling the Department's request for information or with SGMA more generally, please do not hesitate to reach out to me or any of the contacts previously identified for you. Thank you again for our recent conversations and I look forward to the follow up.

Sincerely,



Taryn Ravazzini
Deputy Director
Statewide Groundwater Management

cc:

Mr. Bo Mazzetti, President and Chair, San Luis Rey Indian Water Authority



**CALIFORNIA DEPARTMENT
OF WATER RESOURCES**
1416 NINTH STREET, P.O. BOX 942836
Sacramento, CA 94236-0001



September 15, 2020

Mr. Bo Mazzetti, President and Chair
San Luis Rey Indian Water Authority
P.O. Box 428
Pauma Valley, CA 92061

TRANSMITTAL VIA E-MAIL

RE: Tribal Consultation on Upper San Luis Rey Valley SGMA Implementation

Dear President and Chair Mazzetti,

We hope this letter finds you, your respective Tribal members, and your Tribal offices safe and doing well amidst the ongoing challenges we are all experiencing. We provide this letter on behalf of the California Department of Water Resources (DWR) and the State Water Resources Control Board (SWRCB) in response to the January 28, 2020 government-to-government consultation conducted in Sacramento regarding the ongoing dynamics around implementation of the Sustainable Groundwater Management Act (SGMA) in the Upper San Luis Rey Valley subbasin (basin).

Our respective agencies appreciate and acknowledge the opportunity to consult with the Tribal Governments of the La Jolla, Rincon, San Pasqual, Pauma, and Pala Bands of Mission Indians (Tribes), which compose the San Luis Rey Indian Water Authority (SLRIWA). DWR and the SWRCB acknowledge the "*Resolution of the Board of Directors of the San Luis Rey Indian Water Authority Regarding Implementation of the Groundwater Sustainability Plan for the Upper San Luis Rey Valley Groundwater Basin*," dated January 16, 2020 (Resolution). Our agencies also acknowledge the SLRIWA's commitment and desire to support and participate in the development and implementation of the groundwater sustainability plan (GSP) for the basin as demonstrated by a 2019 memorandum of understanding (2019 MOU), between the Tribes and local agencies, arrived at, in part, through a series of facilitation sessions supported by the State and attended by staff from DWR and the SWRCB.

While the specific details remain somewhat unclear, we understand members of the basin executive team reached an impasse over SGMA requirements regarding whether or how to address Tribal water rights in the scope of work to develop the basin GSP. This impasse resulted in the apparent conclusion by at least some of the parties to the 2019 MOU that the 2019 MOU is defunct and that further progress toward GSP development under that agreement is unlikely. We have also recently become aware that certain local agencies in the basin have amended the 2017 MOU, establishing the Pauma Valley Groundwater Sustainability Agency. The amendment was uploaded to

Mr. Bo Mazzetti
September 15, 2020
Page 2

DWR's groundwater sustainability agency (GSA) formation webpage on July 17, 2020 and revises the Pauma Valley GSA's composition and decision-making structure (e.g., without the County of San Diego as a member). DWR and the SWRCB understand that the local agency signatories to the amended MOU may now be proceeding with GSP preparation.

Concurrent with the sending of this letter, DWR has contacted the Pauma Valley GSA to gain its perspective regarding these events and how they have affected preparation of the GSP and integration of Tribal interests in that process. DWR has also asked whether the Pauma Valley GSA has interest in renewed third-party facilitation services with the goal of restoring constructive engagement between the Tribes and the Pauma Valley GSA during GSP preparation.

At our government-to-government consultation, the SLRIWA requested a summary of the SGMA compliance documentation for the basin as published on DWR's SGMA Portal and webpages since SGMA was enacted. Attachment 1 provides a timeline of the significant SGMA compliance actions taken and changes in legislation related to the basin including basin boundary modification, GSA formation, and initial notification of intent to develop a GSP. DWR and the SWRCB understand that the SLRIWA may have concerns regarding the GSA for the basin and consequently that the Resolution suggested the basin be categorized as probationary under SGMA. We believe the information in Attachment 1 will be helpful in providing the current documentation submitted to DWR regarding that issue.

The SLRIWA's August 14, 2020 letter asserts that the currently proposed consultant's scope of work for the GSP in the basin is inconsistent with the requirements of SGMA, and it requests that DWR and the SWRCB "take all appropriate measures to carry out the requirements of SGMA to the Upper Basin in accordance with the SGMA's deadlines."

The SWRCB is the agency with authority and jurisdiction under SGMA to assess, after June 30, 2017, whether a local agency or collection of local agencies have formed one or more GSAs to develop one or more GSPs for the entire basin (Water Code §10735.2, subd. (a)(1)). Based on available information regarding the Pauma Valley GSA, it is not clear to the SWRCB whether State intervention could be triggered in this case.

DWR's jurisdictional role under SGMA is to review the final, adopted GSP for the basin in compliance with the GSP Regulations and legal adequacy under SGMA, and to issue an assessment (Water Code §10733.4). The basin GSP has not yet been submitted to DWR and is not due until January 31, 2022. After January 31, 2022, the SWRCB may declare the basin probationary if there is no adopted GSP (or GSPs) covering the entire basin (Water Code §10735.2, subd. (a)(4)). If an adopted GSP (or GSPs) is submitted for the basin, DWR will have up to two years to review the final,

adopted plan(s) and issue its assessment (*Id.*). At that time, if DWR, in consultation with the SWRCB, determines that the submitted GSP or (GSPs) is inadequate or not being implemented in a manner that will achieve the sustainability goal and the SWRCB determines that the basin is also in a condition of long-term overdraft, then the SWRCB may, after notice and hearing, declare the basin probationary under SGMA (Water Code §10735.2, subd. (a)(5)).

DWR and the SWRCB recognize this response does not resolve the impasse described in the Resolution or the concerns raised in the SLRIWA's August 14 letter. However, we continue to believe the best chance for successful and robust local SGMA implementation in the basin is for the Tribes and GSA to work transparently and cooperatively, along with other basin stakeholders, during GSP preparation and implementation. Both DWR and the SWRCB remain supportive of that goal. Accordingly, our agencies will continue to monitor circumstances in the basin, gather information on GSP preparation, and seek ways to resolve conflict. As part of that effort, we would like to better understand your point of view and the details of the current situation, and we, therefore, ask that you provide a written response to the following questions. We recognize that many governments, including tribal nations, are under multiple stresses right now but, in the interest of trying to help address your concerns expeditiously, we would appreciate if answers could be provided by October 9, 2020. If that is not possible, please let us know.

- 1) Could you please provide a detailed explanation for the assertion in the SLRIWA's August 14 letter that the scope of work for the GSP must include a "consideration or analysis of the reserved water rights of the 5 Indian Bands"?
- 2) Besides the issue addressed in Question 1, are there other options the SLRIWA would recommend or consider as ways to successfully integrate Tribal interests into the current GSP preparation process?

Presently, DWR and the SWRCB believe that reinitiating the third-party facilitation support services that assisted in establishing the previous framework for Tribal participation in the basin's GSP preparation process may be helpful and warranted. If you have interest in renewing facilitation services, please contact Simar Dhanota with DWR's Sustainable Groundwater Management Office at (916) 651-0889 or Simarjit.Dhanota@water.ca.gov. If you believe that convening a meeting between the Tribes and the GSA with the participation of DWR and the SWRCB could help support constructive collaboration, please let us know.

Mr. Bo Mazzetti
September 15, 2020
Page 4

In closing, should you have any additional information or concerns you believe we should consider, please feel free to contact either of us directly using our respective contact information below.

Sincerely,



Taryn Ravazzini, Deputy Director
Statewide Groundwater Management
California Department of Water Resources
(916) 653-4781
Taryn.Ravazzini@water.ca.gov



James Nachbaur, Director
Research, Planning, and Performance
State Water Resources Control Board
(916) 322-6509
James.Nachbaur@waterboards.ca.gov

Attachment 1: Summary of San Luis Rey Valley Basin SGMA Documentation

Attachment 1

Summary of San Luis Rey Valley Basin SGMA Documentation

Purpose:

This document is intended to summarize the voluntary and required information provided to the Department of Water Resources (DWR) that supports implementation of the Sustainable Groundwater Management Act (SGMA) in the San Luis Rey Valley Groundwater Basin – primarily related to the newly-formed Upper San Luis Rey Valley Subbasin. This document briefly addresses information pertaining to basin boundary modifications, the formation of a Groundwater Sustainability Agency (GSA), and initial notification to develop a Groundwater Sustainability Plan (GSP).

Assumptions:

This summary assumes the conditions in the basin that existed on and after January 1, 2015, when SGMA was first enacted. As stated in the SGMA legislation, the requirement to form a GSA and develop a GSP only applies to the boundaries of high- and medium-priority groundwater basins identified and described in DWR's Bulletin 118, 2003, or as modified. A GSA consists of one or more local agencies overlying a basin that is formed in accordance with provisions listed in Chapter 4 of SGMA – a GSA has no other definition prior to the implementation of SGMA. Descriptions of basin boundary modifications and GSA formation in the San Luis Rey Valley Basin are described below. The supporting information in this summary is available on DWR's SGMA Portal (<https://sgma.water.ca.gov/portal/>) or as provided in California Water Code, Division 6, Part 2.74.

DWR's SGMA Portal makes available to the public the information provided to DWR by local agencies that supports SGMA implementation and addresses a local agency's or GSA's compliance with legislative and regulatory requirements. The Pauma Valley GSA currently covers a portion of the Upper San Luis Rey Valley Subbasin.

Chronology of DWR related SGMA actions:

- October 1, 2003 – **Basin Boundary** (Bulletin 118, 2003): DWR's foundational groundwater document, defines the boundaries of groundwater basins initially used in SGMA. The San Luis Rey Valley Basin was considered a medium-priority basin in 2015.
- March 29, 2016 – **Basin Boundary** (2016 Basin Boundary Modification Period): The City of Oceanside requested a modification of the San Luis Rey Valley Basin by dividing the basin along the boundaries defined by the State Water Resources Control Board (SWRCB) under its subterranean stream findings. The boundary modification request was denied due to limited scientific technical studies supporting the requested modification. A summary of the 2016 boundary modification request is here: <https://sgma.water.ca.gov/basinmod/modrequest/preview/57>
- June 27, 2017 – **GSA**: The Pauma Valley GSA formed under the authorities and assumptions described in a MOU, dated June 27, 2017, as provided in Section B3 of the SGMA Portal link provided below. The information specific to the Pauma Valley GSA and the Upper San Luis Rey Valley Subbasin is located here: <https://sgma.water.ca.gov/portal/gsa/print/359>
 - The MOU covered a portion of the then-defined San Luis Rey Valley Basin and was initially entered into by the following four local agencies: Pauma Valley Community Services District; Upper San Luis Rey Resource Conservation District; Yuima Municipal Water District; and the County of San Diego.

- November 19, 2018 – **GSP**: An Initial Notification to prepare a GSP in the San Luis Rey Valley Basin was submitted to DWR on November 19, 2018 and has not been updated since. The GSP Initial Notification is available here:
<https://sgma.water.ca.gov/portal/gsp/init/preview/154>
- January 1, 2019 – **Basin Boundary**: The San Luis Rey Valley Basin boundary was modified by legislation (Assembly Bill 1944, 2018) and incorporated into California Water Code (§10722.5) on January 1, 2019. The resulting condition subdivided the basin into the Upper San Luis Rey Valley Subbasin and the Lower San Luis Rey Valley Subbasin and provided clarification on the definition of 'Groundwater' in this basin.
- January 31, 2019 – **GSA**: The County of San Diego withdrew from the Pauma Valley GSA on January 31, 2019, as indicated in a letter dated January 23, 2019. The County's letter is provided in Section E3 of the SGMA Portal link shown above. The County's letter states, "As stated in Section X of the MOU, the County's withdrawal does not affect the status of the MOU for the remaining members..."
 - The Pauma Valley GSA is the only GSA in the Upper San Luis Rey Valley Subbasin and the point of contact is Amy Reeh, Assistant General Manager of the Yuima Municipal Water District.
 - 2019 - It is understood that a separate MOU was agreed-upon by local agencies and non-local agencies in 2019 that addresses GSP development in the Upper San Luis Rey Valley Subbasin and outlines GSP management coordination among the beneficial uses and users of groundwater in the basin; the 2019 MOU specifies tribal government inclusion. The 2019 MOU has not been included as part of the record for GSA formation authority purposes.
- January 1, 2020 – **Basin Boundary**: The San Luis Rey Valley Basin boundary modification was clarified by legislation (Senate Bill 779, 2019) and incorporated into California Water Code (§10722.5) on January 1, 2020. The change included a more specific boundary definition than was defined in AB 1944, described above.
- May 1, 2020 – **Basin Boundary / Basin Prioritization**: The Lower San Luis Rey Valley Subbasin was reprioritized by DWR as a very-low priority basin and is generally managed under SWRCB subterranean stream determinations. The Upper San Luis Rey Valley Subbasin is considered a medium-priority basin and must be managed under a GSP by January 31, 2022. The GSP must be developed and implemented by a GSA.
- July 17, 2020 – **GSA**: The Pauma Valley GSA information was updated with a revised MOU which modified the member agencies to include Upper San Luis Rey Resource Conservation District, Pauma Valley Community Service District, and the Yuima Municipal Water District, among other amendments as provided in Section B4 of the SGMA Portal link provided below. The information specific to the Pauma Valley GSA and the Upper San Luis Rey Valley Subbasin is located here:
<https://sgma.water.ca.gov/portal/gsa/print/359>

DISTRIBUTION LIST**Via Email and First Class Mail:**

Wade Crowfoot
 Secretary for Natural Resources California Natural
 Resources Agency 1416 Ninth Street, Suite 1311
 Sacramento, CA 95814
 Email: secretary@resources.ca.gov

Eileen Sobeck
 Executive Director
 State Water Resources Control Board
 P.O. Box 100
 Sacramento, CA 95812-0100
 Email: Eileen.Sobeck@waterboards.ca.gov

Roland Simpson
 Board President
 Yuima Municipal Water District
 P.O. Box 177, 34928 Valley Center Road
 Pauma Valley, CA 92061-0177
 Email: roland@yuimamwd.com

Bobby Graziano
 General Manager
 Pauma Valley Community Services District
 33129 Cole Grade Road
 Pauma Valley, CA 92061
 Email: gm.pvcسد@gmail.com

Via First Class Mail Only:

Mike Esparza
 Board Vice President
 Pauma Valley Community Services District
 33129 Cole Grade Road
 Pauma Valley, CA 92061

Via Email Only:

Bo Mazzetti, President
 San Luis Rey Indian Water Authority and
 Chairman, Rincon Band of Luiseño Indians
 Email: bomazzetti@aol.com

Temet Aguilar, Chairman
 Pauma Band of Luiseño Indians,
 Email: taguilar@pauma-nsn.gov

Geneva Thompson
 Assistant Secretary for Tribal Affairs
 California Natural Resources Agency 1416
 Ninth Street, Suite 1311 Sacramento, CA
 95814
 Email: geneva.thompson@resources.ca.gov

Anecita Agustinez
 Tribal Policy Advisor
 California Department of Water Resources
 P.O. Box 942836
 Sacramento, CA 94236-0001
 Email: tribalpolicyadvisor@water.ca.gov

Amy Reeh
 General Manager
 Yuima Municipal Water District
 P.O. Box 177, 34928 Valley Center Road
 Pauma Valley, CA 92061-0177
 Email: amy@yuimamwd.com

Lloyd W. Pellman & Gina R. Nicholls
 Nossaman LLP
 777 South Figueroa Street, 34th Floor
 Los Angeles, CA 90017
lpellman@nossaman.com
gnicholls@nossaman.com

Andrew Lyall
 Board President
 Upper San Luis Rey Resource
 Conservation District
 P.O. Box 921
 Pauma Valley, CA 92062

Robert Smith, Chairman
 Pala Band of Luiseño Indians
 Email: rsmith@palatribe.com

Jerimy Billy, Chief Executive Officer
 San Luis Rey Indian Water Authority
 Email: jbilly@slriwa.org

Steve Anderson, General Counsel, Pauma
Valley Community Services District, Email:
Steve.Anderson@bbklaw.com

Bob Pelcyger, Special Counsel
San Luis Rey Indian Water Authority
Email: bob@rspelcyger.com

Jeffrey Morris, General Counsel, Upper
San Luis Rey Resource Conservation
District, Devaney Pate Morris and
Cameron, LLP
Email: jmorris@dpmclaw.com

Norma M. Contreras, Chairwoman, La
Jolla Band of Luisefio Indians,
Email: norma.contreras@lajollansn.gov

APPENDIX 3A

Well Logs used for Cross-Section Development

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page of
 Owner's Well No. No. **456802**
 Date Work Began Jan 18, 1994, Ended Feb. 21 1994
 Local Permit Agency Dept. of Health Services
 Permit No. Permit Date Jan. 12 1994

GEOLOGIC LOG

WELL OWNER

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE (SPECIFY)

DEPTH TO FIRST WATER Unkn (Ft.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION	Yield
Ft.	to Ft.		
105	140	boulders, sand, clay	
140	156	salt & pepper granite	
156	170	fault in sand, river gravel	100gpm
170	190	granite	
190	200	fracture	50gpm
200	240	granite	

WELL LOCATION

Township 9S Range 1W Section 31
 Latitude NORTH Longitude WEST

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

ACTIVITY (∠)

- NEW WELL
- MODIFICATION/REPAIR
 - Deepen
 - Other (Specify)
- DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
- PLANNED USE(S) (∠)
 - MONITORING
- WATER SUPPLY
 - Domestic
 - Public
 - Irrigation
 - Industrial
 - "TEST WELL"
 - CATHODIC PROTECTION
 - OTHER (Specify)

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD ROTARY FLUID WATER

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 80 (Ft.) & DATE MEASURED 2/21/94

ESTIMATED YIELD 150 (GPM) & TEST TYPE air lift

TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 240 (Feet) 135
 TOTAL DEPTH OF COMPLETED WELL 240 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						DEPTH FROM SURFACE	ANNULAR MATERIAL					
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE			
		BLANK	SCREEN	CON-DUCTOR	FILL PIPE						CE-MENT (∠)	BEN-TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)
Ft. to Ft.							Ft. to Ft.							
	<u>10</u>					<u>STEEL</u>	<u>6</u>	<u>188</u>	<u>1/32</u>	<u>EXISTING</u>				

ATTACHMENTS (∠)

CERTIFICATION STATEMENT

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instructions Pamphlet

No. **1085029**

Page 1 of 1

Owner's Well No. _____

Date Work Began 6/2/05, Ended 6/17/05

Local Permit Agency DEH

Permit No. _____ Permit Date June 1, 2005

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER _____

DEPTH FROM SURFACE		DESCRIPTION
Fl.	to Fl.	
0	3	Silty sand, fine grained brown color
3	10	Sandy fine to coarse
10	41	Sandy fine to coarse with boulders to 24"
41	61	Sandy, fine to coarse with small 12' dia boulders
61	91	sand and boulders - very rough drilling
91	126	Hard, partly cemented sand and rocks
126	150	semi weathered rock - granite
150	172	weathered rock with quartz seams
172	177	Major fracture zone - water approx 400 gpm
177	360	Granite rock, hard, firm

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

DRILLING METHOD Rotary FLUID gel & air

Describe material, grain size, color, etc.

WELL LOCATION

Township 9S Range 2W Section 25

LOCATION SKETCH

ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (∠)

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY) _____

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 40 (Fl.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 24 (Fl.) & DATE MEASURED 6/22/05

ESTIMATED YIELD 400+ (GPM) & TEST TYPE airlift

TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN 100 (Fl.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)						DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE		
Fl.	to Fl.	BLANK	SCREEN	CON-DUCTOR	FILL PIPE								
0	22	24	X				Steel	17.5	.250				
0	70	18	X				Steel	10	.250				
70	130	18		X			304SS	10	.250	.080			5/16x7
130	150	18	X				Steel	10	.250				
0	152	8	X				Steel	8	.250				

ATTACHMENTS (∠)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site Maps

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

File with DWR

MAY 31 1977

THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT
09S02W26L0015

No. 01319

State Well No. 93/2W26L15
Other Well No.

Notice of Intent No. _____

Local Permit No. or Date _____

(2) LOCATION OF WELL (See instructions):

[Redacted location information]

[Redacted location information]

[Redacted location sketch]

(3) TYPE OF WORK:

- New Well Deepening
 - Reconstruction
 - Reconditioning
 - Horizontal Well
 - Destruction (Describe destruction materials and procedures in Item 12)
- (4) PROPOSED USE:
- Domestic
 - Irrigation
 - Industrial
 - Test Well
 - Stock
 - Municipal
 - Other

WELL LOCATION SKETCH

(5) EQUIPMENT:

- Rotary Reverse
- Cable Air
- Other Bucket

(6) GRAVEL PACK:

- Yes No Size 1/8" Rea
- Diameter of bore 24"
- Packed from 0 to 180 ft.

(7) CASING INSTALLED:

- Steel Plastic Concrete

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	50	26	.272	75	115	No. 75 Slot (Johnson stainless steel screen)
0	50	24	.250	115	175	3/32" (Roscoe Moss Louver)
0	180	12	.250			

(9) WELL SEAL:

- Was surface sanitary seal provided? Yes No If yes, to depth 50 ft.
- Were strata sealed against pollution? Yes No Interval _____ ft.
- Method of sealing Cemented and double-cased

Work started 11/13 1976 Completed 4/13 1977

(10) WATER LEVELS:

Depth of first water, if known 70 ft.
Standing level after well completion 65 ft.

(11) WELL TESTS:

- Was well test made? Yes No If yes, by whom? Same
- Type of test Pump Bailor Air lift
- Depth to water at start of test 65 ft. At end of test 65 ft.
- Discharge 425 gal/min after 13 hours Water temperature Ukn
- Chemical analysis made? Yes No If yes, by whom? _____
- Was electric log made? Yes No If yes, attach copy to this report

WELL DRILLER'S STATEMENT:

[Redacted well driller's statement]

State of California
Well Completion Report

Refer to Instruction Pamphlet

No. e0368684

DWR Use Only - Do Not Fill In

State Well Number/Site Number			
N	W		
Latitude		Longitude	
APN/TRS/Other			

Geologic Log		
Orientation <input type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Mud Drilling</u> Drilling Fluid _____		
Depth from Surface	Feet	Description
Feet to Feet		Describe material, grain size, color, etc
0	20	Boulders and Sand
20	165	Gravel and Boulders
165	277	Gravel and Clay Water: 75 GPM Total
Total Depth of Boring <u>277</u> Feet		
Total Depth of Completed Well <u>277</u> Feet		

Well Owner (confidential pursuant to CA Water Code 13752)	
Well Location	
Township <u>9S</u> Range <u>2W</u> Section <u>26</u>	
<p style="text-align: center; border-bottom: 1px solid black;">Location Sketch <small>(Sketch must be drawn by hand after form is printed.)</small></p> <p style="text-align: center; border-bottom: 1px solid black;">North</p> <div style="border: 1px solid black; height: 150px; position: relative;"> <p style="position: absolute; left: -30px; top: 50%; transform: translateY(-50%);">West</p> <p style="position: absolute; right: -30px; top: 50%; transform: translateY(-50%);">East</p> <p style="position: absolute; bottom: -30px; text-align: center;">South</p> <p style="font-size: 24px; color: blue; text-align: center; opacity: 0.5; transform: rotate(-5deg);">See Attached</p> </div> <p style="font-size: 8px; text-align: center; margin-top: 5px;">Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete</p>	<p style="text-align: center; border-bottom: 1px solid black;">Activity</p> <input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small> <p style="text-align: center; border-bottom: 1px solid black;">Planned Uses</p> <input checked="" type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____
<p style="text-align: center; border-bottom: 1px solid black;">Water Level and Yield of Completed Well</p> Depth to first water <u>165</u> (Feet below surface) Depth to Static _____ Water Level _____ (Feet) Date Measured _____ Estimated Yield * <u>75</u> (GPM) Test Type <u>Air Lift</u> Test Length _____ (Hours) Total Drawdown _____ (Feet) <small>*May not be representative of a well's long term yield.</small>	

Casings							
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any
Feet to Feet	(Inches)			(Inches)	(Inches)		(Inches)
0	47	17	Blank	Low Carbon Steel	.250	12.75	
0	117	12	Blank	PVC Sch. 40	SDR21	6.9	
117	277	12	Screen	PVC Sch. 40	SDR21	6.9	

Annular Material			
Depth from Surface	Fill	Description	
Feet to Feet			
0	47	Cement	
0	277	Filter Pack	Gravel #6

Attachments
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Location Sketch</u>
Attach additional information, if it exists.

Certification Statement

SEP 4 1970

No 36813

State Well No. 09S/2W-27

Other Well No.

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

9S, 2W-27

(1) OWNER:

1
2

(11) WELL LOG:

Total depth 125 ft. Depth of completed well 126 ft.

Formation: Describe by color, character, size of material, and structure

(2) LOCATION OF WELL:

Township, Range, and Section 70 R2W Sec 27

0ft to 30ft Rocks

30ft to 42ft Rock DG

42ft to 50ft Rock DG

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Destroying

If destruction, describe material and procedure in Item 11.

50ft to 65ft Rock

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) EQUIPMENT:

Rotary
Cable
Other

65ft to 95ft Silt Sand, Clay

95ft to 120 Sand DG CLAY

(6) CASING INSTALLED:

STEEL: OTHER:
SINGLE DOUBLE

If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0ft	126	8"	12			

Size of shoe or well ring:

Size of gravel:

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth 125 ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

Work started 7-20 19 70. Completed 7-30 19 70

(9) WATER LEVELS:

Depth at which water was first found, if known 80 ft.

Standing level before perforating, if known ft.

Standing level after perforating and developing ft.

(10) WELL TESTS:

Was pump test made? Yes No If yes, by whom?

yield: gal./min. with ft. drawdown after hrs.

Temperature of water Was a chemical analysis made? Yes No

Was electric log made of well? Yes No If yes, attach copy

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SKETCH LOCATION OF WELL ON REVERSE SIDE

09S02W29R001S

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

No 37210

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

State Well No. 09S/02W-29R01 S

Other Well No.

(1) LOCATION OF WELL:
Township, Range, and Section 09S, R2W, SEC 29

(11) WELL LOG:
Total depth 59 ft. Depth of completed well ft.
Formation: Describe by color, character, size of material, and structure
0 ft. to 43 ft.

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Destroying
If destruction, describe material and procedure in Item 11.

Grey Sand Gravel And Cobbles
43 ft 50 ft
Grey to black sand and toolie mud.

(3) PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other

50 ft 55 ft.
Grey, Clean Course sand, Gravel and large cobbles.

(4) EQUIPMENT:
Rotary
Cable
Other

55 ft. 59 ft.

(6) CASING INSTALLED:
STEEL: SINGLE DOUBLE OTHER:
If gravel packed
Diameter of Bore From ft. To ft.
From ft. To ft. Diam. Gage or Wall

Cemented Sand, Gravel And Bobbles,
12" Casing is for irrigation water,
8" Casing is for Domestic water.
2" is sounding tube, and to treat water for well maintainance.

Describe joint Welded 10 ft of 2 1/2" casing Gravel conductor at top

(7) PERFORATIONS OR SCREEN: left in hole.
Type of perforation or name of screen Machine Cut & #125 Screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.	
8"	50	59	4	4	1/8" X 2 1/2"
12"	10	46	6	4	1/8" X 2 1/2"
2"	52	54	3	2	1/8" X 2"
12"	Johnson Irrigator # 125	Shot 50			to 55 ft.

2 1/2" casing provides Seal and is closed at top and has a gravel tube.
8" & 12" casing has a cement plug in bottom.

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes No To what depth 10 ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata

Method of sealing neat cement grout

Work started 12/17 19 66, Completed 1/9 19 67

(9) WATER LEVELS:
Depth at which water was first found, if known 6 ft.

Standing level before perforating, if known 6 ft.

(10) WELL TESTS:
Was pump test made? Yes No If yes, by whom?

Temperature of water Was a chemical analysis made? Yes No
Was electric log made of well? Yes No If yes, attach copy

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page of
 Owner's Well No.
 Date Work Began 4-13-98, Ended 4-18-98 No. 506145
 Local Permit Agency San Diego Co.
 Permit No. Permit Date 4-13-98

GEOLOGIC LOG

ORIENTATION (∠)		VERTICAL	HORIZONTAL	ANGLE	(SPECIFY)
DEPTH FROM SURFACE		DEPTH TO FIRST WATER (Ft.) BELOW SURFACE			
Ft.	to Ft.	DESCRIPTION <i>Describe material, grain size, color, etc.</i>			
0	15	Broken up Granite			
15	85	D.G. Boulders + some clay zones			
85	137	Soft Brown D.G.			
137	166	B+W D.G. Med.			
166	168	Fracture 20 GPM			
168	220	B+W Granite Hard			
220	235	Fractures loose Rock 30 GPM total			
235	290	B+W Granite Hard			
290	295	Pink + Tan Color Granite			
295	445	B+W Granite Hard			
445	455	Pink + Tan Color Granite Fracture 37-40 GPM total			
455	540	B+W Granite Hard			
540	545	Fracture 45 GPM total			
545	667	B+W Granite Hard			
667	680	Fracture 55-60 GPM total			
680	750	B+W Granite Hard			

WELL LOCATION

Township 10S Range 1W Section 3

Latitude DEG. MIN. SEC. NORTH Longitude DEG. MIN. SEC. WEST

LOCATION SKETCH

ACTIVITY (∠)
 NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify)
 DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
 PLANNED USE(S)
 MONITORING
 WATER SUPPLY
 Domestic
 Public
 Irrigation
 Industrial
 "TEST WELL"
 CATHODIC PROTECTION
 OTHER (Specify)

SOUTH
 Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
 PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD Air Rotary FLUID

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 50 (Ft.) & DATE MEASURED 4-18-98

ESTIMATED YIELD 55 (GPM) & TEST TYPE Air Lift

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 750 (Feet)
 TOTAL DEPTH OF COMPLETED WELL 750 (Feet)

DEPTH FROM SURFACE		BORE-HOLE DIA. (Inches)	CASING(S)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	ANNULAR MATERIAL			
Ft.	to Ft.		TYPE (∠)								TYPE			
Ft.	to Ft.		BLANK	SCREEN	CONDUCTOR	FILL PIPE				CE-MENT (∠)	BEN-TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)	
0	153	12	✓				Steel	8	.189			✓		

ATTACHMENTS (∠)

Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other

ATTACH ADDITIONAL INFORMATION IF IT EXISTS.

CERTIFICATION STATEMENT

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page of
 Owner's Well No.
 Date Work Began 5/15/10, Ended 5/30/10
 Local Permit Agency San Diego
 Permit No. Permit Date 5/11/10

No. **0943674**

GEOLOGIC LOG

ORIENTATION (≠) VERTICAL HORIZONTAL — ANGLE — (SPECIFY)
 DRILLING METHOD Air Rotary FLUID

DEPTH FROM SURFACE		DESCRIPTION
Ft.	to Ft.	
0	25	Topsoil + Sand
25	30	Sand + Boulders
30	50	Sand, Boulders + Clay
50	125	D.G. + Clay
125	250	Weathered Granite (Clay)
250	380	Weathered Granite
380	385	Clay Zone
385	470	Weathered Granite
470	490	B.W Granite
490	495	Fractured B.W Granite
495	510	B.W Granite
510	515	Fractured B.W Granite
515	540	B.W Granite
540	555	Large Fracture B.W Granite
555	580	B.W Granite
580	585	Fractured B.W Granite Water
585	715	B.W Granite
715	720	Fractured B.W Granite
720	775	B.W Granite
775	780	Fractured B.W Granite
780	1175	B.W Granite

Township 10S Range 1W Section 5

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 560 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 202.5 (Ft.) & DATE MEASURED 7-1-10

ESTIMATED YIELD * 150 (GPM) & TEST TYPE Air Lift

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 1175 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1175 (Feet)

WELL LOCATION

LOCATION SKETCH

NORTH

NEW WELL

MODIFICATION/REPAIR

— Deepen

— Other (Specify)

— DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (≠)

WATER SUPPLY

— Domestic Public

— Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY)

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE (≠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
		BLANK	SCREEN	CONDUCTOR	FILL PIPE				
0	490	16	<input checked="" type="checkbox"/>				Steel	10	.250

DEPTH FROM SURFACE	ANNULAR MATERIAL TYPE			
	Ft.	to Ft.	CE-MENT (≠)	BEN-TONITE (≠)
0	490	<input checked="" type="checkbox"/>		

- ATTACHMENTS (≠)**
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other
- ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

08/29/11

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR 10501W05C

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0249406

Page 1 of 2

Owner's Well Number XXXXXXXXXX

Date Work Began 10/07/2014 Date Work Ended 11/5/2014

Local Permit Agency County of San Diego

Permit Number XXXXXXXXXX Permit Date 2/25/14

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude N Longitude W

APN/TRS/Other

Geologic Log

Orientation Vertical Horizontal Angle Specify _____

Drilling Method Mud Drilling Drilling Fluid _____

Depth from Surface		Description
Feet	to Feet	
0	15	Red Clay
15	120	Sand and Brown D.G.
120	150	B&W Granite
150	155	Fractured Clay and B&W Granite
155	180	B&W Granite Clay
180	195	Clay (like adobe)
195	220	Clay and Rose & White Granite
220	360	Clay and B&W Granite
360	410	B&W Granite with a Little Clay
410	500	B&W Granite
500	510	Small Fracture B&W Granite Mostly White Granite
510	610	B&W Granite
610	620	Small Fracture B&W Granite Mostly White Granite
620	805	B&W Granite
805	810	Small Fracture B&W Granite
810	850	B&W Granite
850	860	Small Fracture B&W Granite
860	910	B&W Granite

Well Owner:

Well Location:

Township 10S Range 1W Section 51

Location Sketch
(Sketch must be drawn by hand after form is printed.)

North

South

See Attached

West East

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

New Well

Modification/Repair

Deepen

Other _____

Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

Water Supply

Domestic Public

Irrigation Industrial

Cathodic Protection

Dewatering

Heat Exchange

Injection

Monitoring

Remediation

Sparging

Test Well

Vapor Extraction

Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 180 (Feet) Date Measured 11/11/2014

Estimated Yield * 60 (GPM) Test Type Air Lift

Test Length 3.0 (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Total Depth of Boring 910 Feet

Total Depth of Completed Well 910 Feet

Casings

Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any
Feet	Inches			Inches	Inches		Inches
0	117	24	Blank	Low Carbon Steel	.250	16	
0	197	15	Blank	PVC Sch. 80	SDR17	9	
197	397	15	Screen	304 Stainless Steel	.250	8	Wire Wrap 0.050
397	417	15	Blank	304 Stainless Steel	.250	8	

Annular Material

Depth from Surface	Fill	Description
Feet to Feet		
0	117	Cement
0	417	Filter Pack #6 Well Rock

Attachments

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Location Sketch

Attach additional information, if it exists.

Certification Statement

SIGNATURE

ORIGINAL
Filed with DWR

Page 1 of 1

Owner's Well No.

Date Work Began 6/27/05, Ended 7/27/05

Local Permit Agency DEH

Permit No. Permit Date 6/23/05

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1085032**

DWR USE ONLY — DO NOT FILL IN

101S1011W051D1002S

STATE WELL NO./STATION NO.

LATITUDE: LONGITUDE:

APN/TRS/OTHER:

GEOLOGIC LOG

ORIENTATION (✓) VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRILLING METHOD Rotary FLUID Gel

DEPTH FROM SURFACE		DESCRIPTION
FL	to FL	
0	8	Alluvial fill as follows: silty sand - brown color
8	11	Boulder
11	50	Sand, fine to coarse with some small aggregates - brown color
50	82	Sand, fine to coarse, partly cemented
82	92	Boulders, Hard
92	102	Sand, partly cemented
102	120	sand, boulders, partly cemented
120	132	Clayey sand, hard, firm
132	134	Boulder
134	145	Clayey sand, hard, firm
145	170	Cemented sand, small rocks
170	200	Weathered bed rock
200	228	Granitic bed rock, hard grey color black & white mineral

TOTAL DEPTH OF BORING 228 (Feet)

TOTAL DEPTH OF COMPLETED WELL 180 (Feet)

WELL LOCATION

Township 10S Range 1W Section 6 05

LOCATION SKETCH

ACTIVITY (✓)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (✓)

WATER SUPPLY Public

Domestic Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY)

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 95 (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 95 (FL) & DATE MEASURED 7/27/05

ESTIMATED YIELD * 500 (GPM) & TEST TYPE pump

TEST LENGTH 24 (Hrs.) TOTAL DRAWDOWN 70 (FL)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
FL	to FL	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
0	100	32	X			Steel	23.5	.250	
0	100	23.5	X			Steel	13.4	.375	
100	180	23.5	X			Steel SS	13.4	.250	.080

DEPTH FROM SURFACE	ANNULAR MATERIAL TYPE				
	FL	to FL	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)
0	100	X			

ATTACHMENTS (✓)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

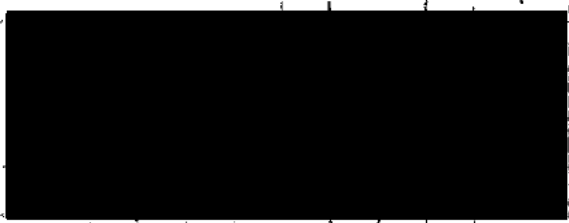
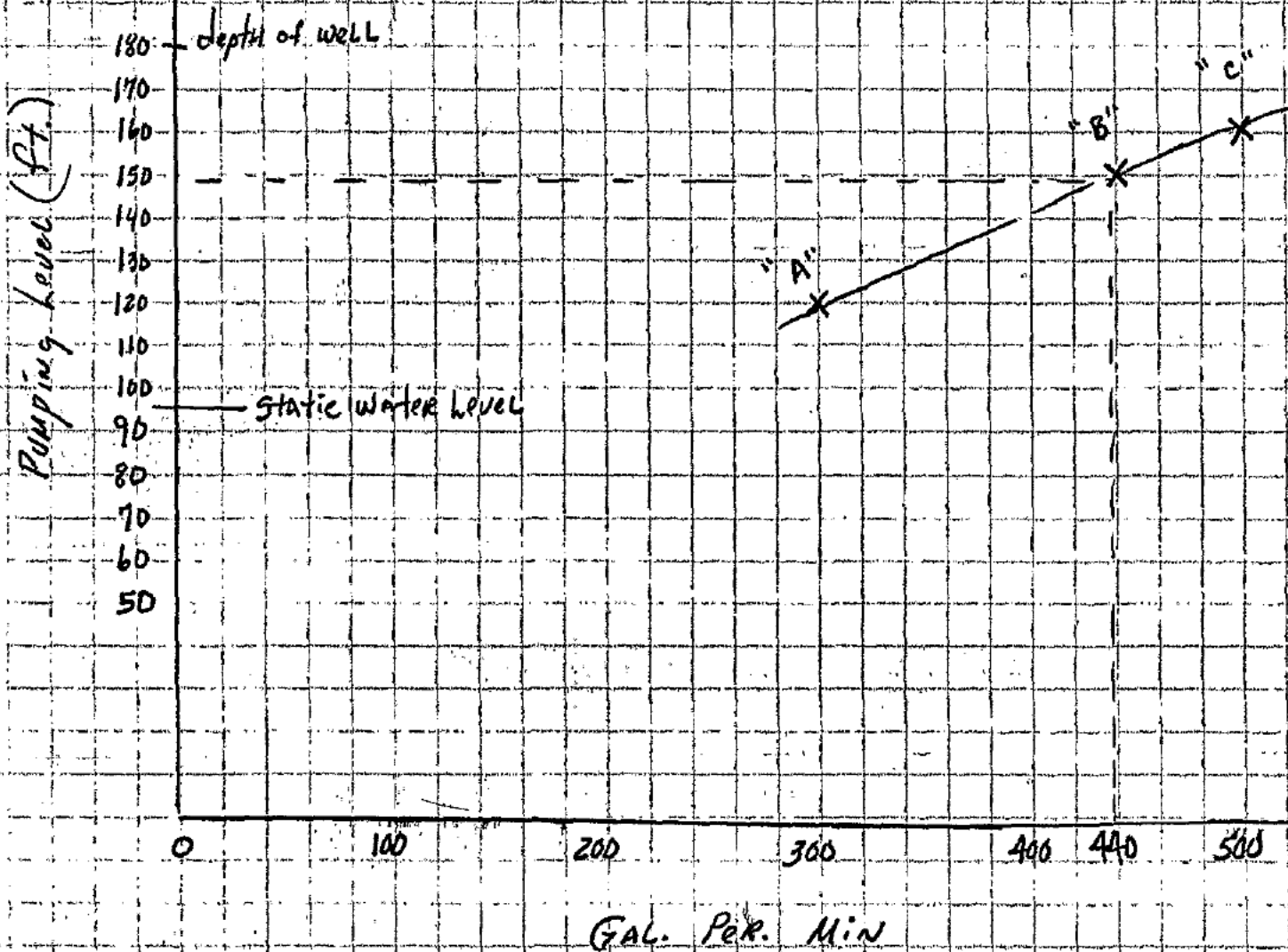
Soil/Water Chemical Analysis

Other Site Map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

1085032

Note. Well Pumping Level "B"
After 24 Hr. Pumping
Continuously



PUMP SETTING 170 FEET HP 50

DATE JULY 26 2005

TIME G.P.M. PUMPING LEVEL

TIME	G.P.M.	PUMPING LEVEL
12:00	300	120 FT.
12:30	300	120 FT.
1:00	500	140
1:30	500	142
2:00	500	146
2:30	500	146
3:00	500	146
3:30	500	146
4:00	500	146
4:30	500	146
5:00	500	146
5:30	500	146
6:00	500	144
6:30	500	145
7:00	500	147
7:30	500	147
8:00	500	148
8:30	500	148
9:00	500	148
9:30	500	148
10:00	450	147
10:30	450	147
11:00	450	147
11:30	450	147
12:00	450	147
12:30	450	147
1:00	450	147
1:30	450	147
2:00	440	147
2:30	440	147
3:00	440	147
3:30	440	147
4:00	440	147

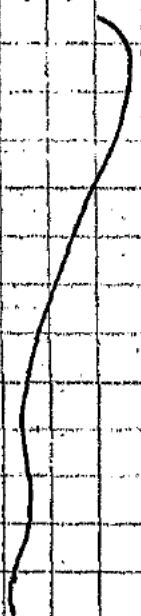
July 28-05

1085032

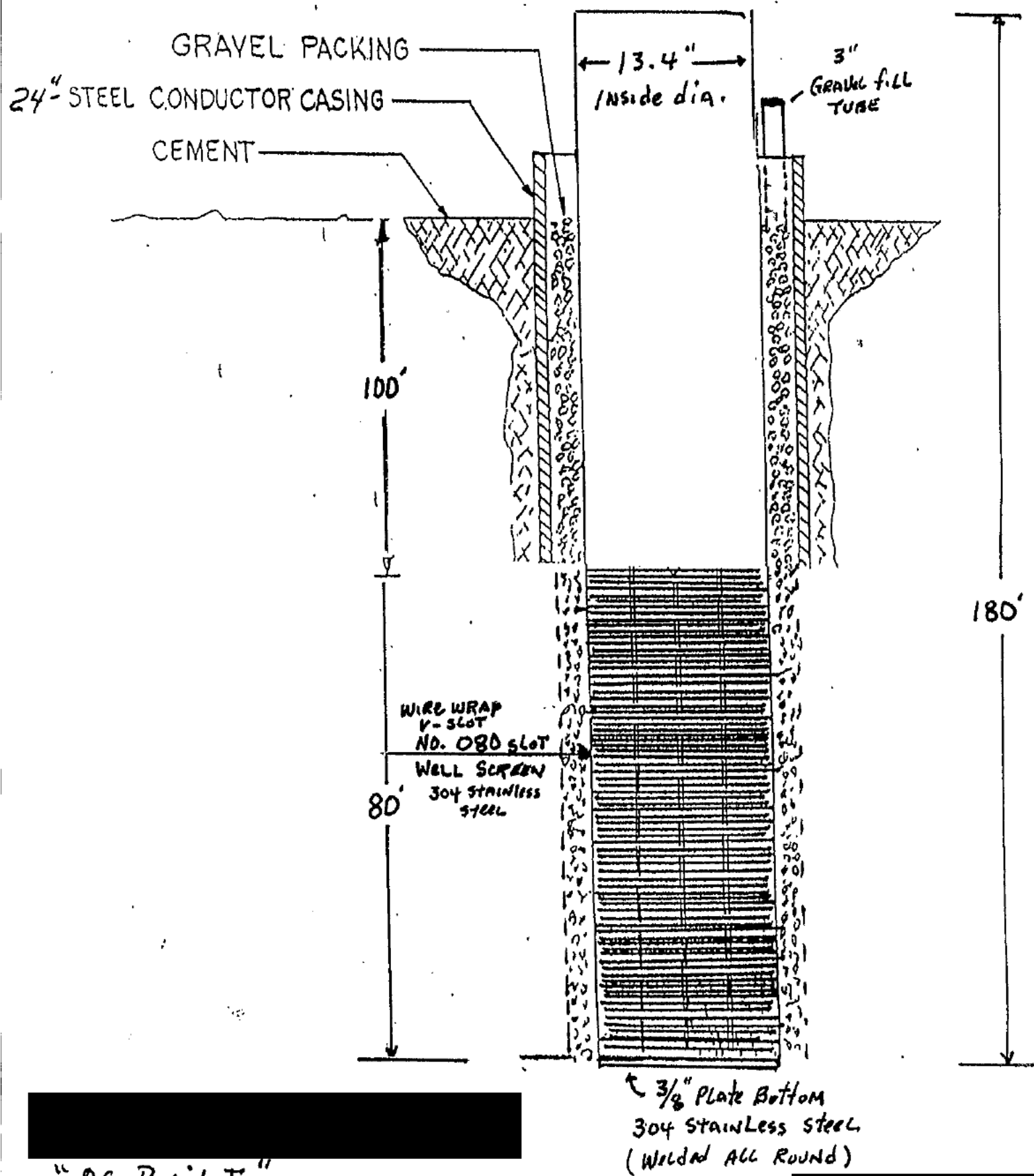
DATE JULY 28 2005

TIME G.P.M. PUMPING LEVEL (ft)

4:30	440
5:00	440
5:30	440
6:00	440
6:30	440
7:00	440
7:30	440
8:00	440
8:30	440
9:00	440
9:30	440
10:00	440
10:30	440
11:00	440
11:30	440
12:00	440

147
147.5

147.5 ft.

1085032



"AS BUILT"

10501W08

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 1

Owner's Well No. _____

No. **487614**

Date Work Began 9/14/92, Ended 9/29/92

Local Permit Agency San Marcos

Permit No. _____ Permit Date 9/9/92

GEOLOGIC LOG

WELL OWNER

ORIENTATION (✓) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

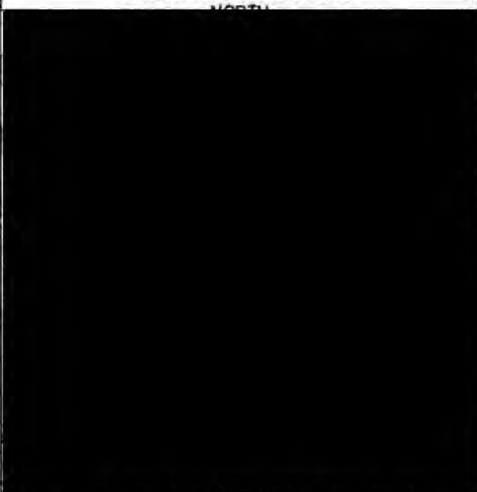
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION <i>Describe material, grain size, color, etc.</i>
Ft.	to Ft.	
0	45	heavy sand, bolders
45	60	heavy sand, some clay
60	75	medium sand, some bolders and clay
75	95	medium sand, bolders, black sticky clay
95	155	light sand some dark clay
155	200	cemented light sand, some bolders and clay
200	225	light sand layer
225	227	light sand, bolders
227	235	light sand
235	275	cemented light sand
275	277	light sand
277	280	cemented light sand
280	281	light sand
281	296	cemented light sand
296	300	light sand
300	308	semi hard rock
308	309	granite

WELL LOCATION

APN Book _____ Page _____ Parcel _____
 or
 Township _____ Range _____ Section Rancho Land
 or
 Latitude _____ Longitude _____
 DEG. MIN. SEC. NORTH Longitude DEG. MIN. SEC. WEST

LOCATION SKETCH



ACTIVITY (✓)
 NEW WELL

MODIFICATION/REPAIR
 Deepen
 Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)
 (✓)
 MONITORING

WATER SUPPLY
 Domestic
 Public
 Irrigation
 Industrial
 "TEST WELL"
 CATHODIC PROTECTION
 OTHER (Specify) _____

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

DRILLING METHOD mud rotary FLUID bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 309 (Feet)

TOTAL DEPTH OF COMPLETED WELL 300 (Feet)

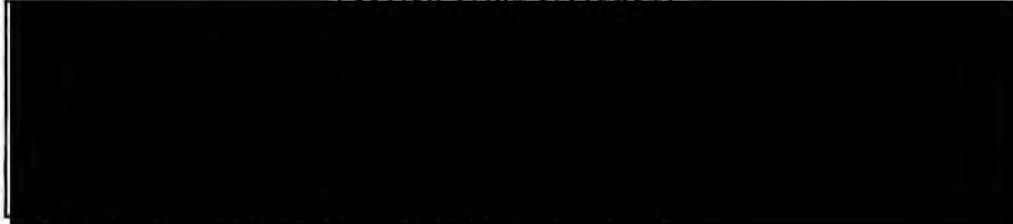
DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING(S)						ANNULAR MATERIAL						
		TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE				
		BLANK	SCREEN	CON- DUCTOR	FILL PIPE					CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE - SIZE)	
0	21	32	<input checked="" type="checkbox"/>				steel	17½	250					
0	160	18	<input checked="" type="checkbox"/>				steel		250					
180	220		<input checked="" type="checkbox"/>				steel		250					
160	180			<input checked="" type="checkbox"/>			S. steel		0.60					
220	300			<input checked="" type="checkbox"/>			S. steel		0.60					
														5/16 mix

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil / Water Chemical Analyses
- Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT



STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 757114

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

ORIENTATION () VERTICAL HORIZONTAL ANGLE (SPECIFY) _____
 DRILLING METHOD Rotary FLUID Gel

DEPTH FROM SURFACE		DESCRIPTION
Fl.	to Fl.	
		ALLUVIAL FAN-GLOMERATE AS FOLLOWS
0	45	Fine to coarse sand with boulders brown color
45	53	Coarse sand - small boulders light brown color
53	73	Fine to coarse sand, partly cemented brown color
73	93	Clayey sand and silt
93	108	Black silty sand
108	113	Clayey sand with small rocks
113	128	Silty sand
128	173	Fine to coarse sand, partly cemented
173	211	Medium to coarse sand, some small aggregates
211	216	Boulder
216	275	Hard packed - partly cemented medium to coarse sand
275	314	grey color weathered bedrock - granite
TOTAL DEPTH OF BORING		314 (Feet)
TOTAL DEPTH OF COMPLETED WELL		295 (Feet)

WELL LOCATION

Township 10S Range 1W Section 8

Latitude _____ Longitude _____

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES ()

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

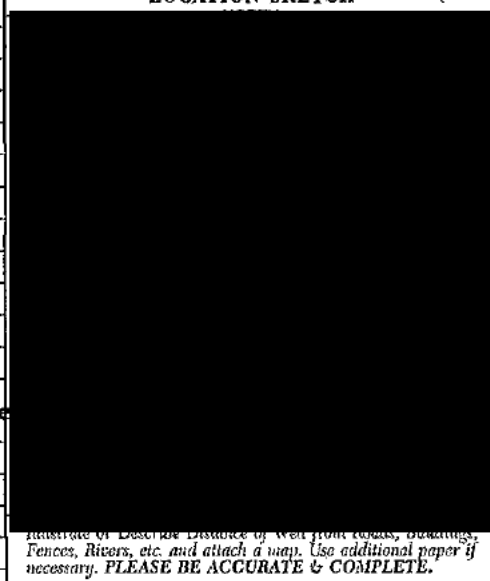
INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY) _____



WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 190* (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 177 (Ft.) & DATE MEASURED 11/6/02

ESTIMATED YIELD _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)								
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	
Fl.	to Fl.	BLANK	SCREEN	CONDUCTOR	PULL PIPE					
0	20	34	<input checked="" type="checkbox"/>				A-53-B	24	.250	
0	175	23	<input checked="" type="checkbox"/>				A-53-B	13.5	.250	
175	275	23		<input checked="" type="checkbox"/>			304 SS	13.5	.250	.060
275	295	23	<input checked="" type="checkbox"/>				A-53-B	13.5	.250	

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE				
Fl.	to Fl.	CE- MENT ()	BEN- TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	20	<input checked="" type="checkbox"/>			
20	300				4X8

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site Maps

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

[REDACTED]

State 10S01W08

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

Page One of One

Owner's Well Number [redacted]

Date Work Began 11/24/2015 Date Work Ended 12/22/2015

Local Permit Agency SD DEH

Permit Number [redacted] Permit Date 9/15/15

State of California Well Completion Report

Refer to Instruction Pamphlet No. e0295655

DWR Use Only - Do Not Fill In

State Well Number/Site Number, Latitude, Longitude, APN/TRS/Other

Geologic Log table with columns for Depth from Surface (Feet), and Description. Rows include: 0-9 Brown Sand & Small Boulders, 9-14 Course Brown Sand, 14-67 Brown Sand & Boulders, 67-103 Course Brown Sand, 103-107 Tooley Mud, 107-144 Brown Sand & Boulders, 144-151 Brown Clay, 151-186 Grey Compact Sand, 186-194 Hard Brown Clay, 194-202 Sand & Small Boulders, 202-263 Semi Hard Brown & White Weathered Rock, 263-287 Brown Clay, 287-310 Grey & White Weathered Rock.

Total Depth of Boring 310 Feet

Total Depth of Completed Well 300 Feet

Well Owner section (redacted)

Well Location section with Township, Range, and Section fields (redacted)

Location Sketch section with North arrow and description box (redacted)

Activity section with options: New Well, Modification/Repair, Destroy

Planned Uses section with options: Water Supply, Cathodic Protection, Dewatering, etc.

Water Level and Yield of Completed Well section with fields for Depth to Static, Water Level, Estimated Yield, etc.

Casings and Annular Material tables with columns for Depth from Surface, Borehole Diameter, Type, Material, Wall Thickness, Outside Diameter, Screen Type, Slot Size, Fill, and Description.

Attachments section with checkboxes for Geologic Log, Well Construction Diagram, Geophysical Log(s), Soil/Water Chemical Analyses, Other Site Map

Certification Statement section (redacted)

No. 241443

Notice of Intent No. [redacted]
Local Permit No. or Date _____

State Well No. _____
Other Well No. _____

(1) OWNER:

[redacted]

Township 10 S Range 1 W Section 8

Distance from cities, roads, railroads, fences, etc.
SEE ATTACHMENT

[redacted]

- (3) TYPE OF WORK:
- New Well Deepening
 - Reconstruction
 - Reconditioning
 - Horizontal Well
 - Destruction (Describe destruction materials and procedures in Item 12)
- (4) PROPOSED USE:
- Domestic
 - Irrigation
 - Industrial
 - Test Well
 - Stock
 - Municipal
 - Other

WELL LOCATION SKETCH

- (5) EQUIPMENT: mud
- Rotary Reverse
 - Cable Air
 - Other Bucket

- (7) CASING INSTALLED:
- Steel Plastic Concrete

From ft.	To ft.	Dia. in.	Gage or Wall
0	21	24	.250"
0	352	12	SDR21

- (6) GRAVEL PACK:
- Yes No Size 5/16 x #16
 - Diameter of bore _____
 - Packed from 25 yds to _____ ft.

- (8) PERFORATIONS:
- Type of perforation or size of screen _____

From ft.	To ft.	Slot size
113-157	186-	.057
212, 248-253,		
267-275, 290-		

- (9) WELL SEAL: 303, 333-316, 337-350
- Was surface sanitary seal provided? Yes No If yes, to depth 20 ft.
- Were strata sealed against pollution? Yes No Interval _____ ft.
- Method of sealing _____

- (10) WATER LEVELS:
- Depth of first water, if known _____ ft.
- Standing level after well completion 104 ft.

- (11) WELL TESTS:
- Was well test made? Yes No If yes, by whom R. Anderson
- Type of test Pump Bailer Air lift
- Depth to water at start of test _____ ft. At end of test _____ ft.
- Discharge 900+ gal/min after _____ hours Water temperature _____
- Chemical analysis made? Yes No If yes, by whom? _____
- Was electric log made? Yes No If yes, attach copy to this report

(12) WELL LOG: Total depth 352 ft. Depth of completed well _____

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	Silty sand
2	7	Sand w/ rocks
7	13	Loose Boulders, rough drilling
13	19	Boulders, very rough drilling
19	20	Granite Boulder
20	22	Boulders
22	37	Semi-consolidated sand & gravel, some rocks
37	49	Brown silty sand & gravel
49	58	Sand, a few gravels
58	69±	Silty clay, some sand
69±	105	Sand, a few gravels, silt streaks around 80'
105	108	Black sticky silts
108	111	Black silt
111	113	Boulders, very rough
113	118	Consolidated sand & gravel w/ some rocks
118	128	Consolidated s. & g. w/more r
128	129	Rocks
129	144	Consolidated sand, few gravel
144	150	Browner clayey sand, fewer r
150	162	Consolidated sand
162	200±	Semi-consolidated reddish sa
200±	230	Looser drilling-higher sand content
230	238	Semi-consolidated sand, fine s
238	239	rocks
239	249	Semi-consolidated reddish sa
249	255	Consolidated sand
255	261	Semi-consolidated sand, brt.
261	263	Rocks, rough & slow
263	267	Consolidated sand & gravel
267	268	Very loose sand
268	271	Greenish-gray clay, very tigh
271	341	Semi-consolidated sand, w/roc
341	351	Boulders
351	352	Consolidated sand

Work started 1/24/ 1985 Completed 4/19 1985

WELL DRILLER'S STATEMENT:
[redacted]

TRIPPLICATE
 Owner's Copy _____
 Page 1 of 1
 Owner's Well No.
 Date Work Began 9/13/2010, Ended 10/5/2010
 Local Permit Agency DEH
 Permit No. Permit Date 9/15/2010

STATE OF CALIFORNIA
WELL COMPLETION REPORT
 Refer to Instruction Pamphlet
 No. **1083141**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO. _____

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER _____

GEOLOGIC LOG

ORIENTATION () VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

DRILLING METHOD Rotary FLUID Gel

DEPTH FROM SURFACE		DESCRIPTION
Fl.	to Fl.	
ALLUVIAL FAN/GLOMERATE AS FOLLOWS		
0	31	Sand, fine to coarse with hard round, boulders
31	51	sand, fine to medium - brown color
51	66	Brown sand - small boulders
66	88	Cemented sand & gravel
88	98	Coarse brown sand
98	101	Grey Clay
101	126	Brown sand - small rocks
126	134	Boulders, rough drilling
134	161	Sand brown clayey - some boulders
161	223	Coarse Sand - brown color
223	287	Consolidated sand - hard
287	306	Hard, cemented sand
306	328	Weathered rock
TOTAL DEPTH OF BORING <u>328</u> (Feet)		
TOTAL DEPTH OF COMPLETED WELL <u>325</u> (Feet)		

WELL LOCATION

Township Range Section

LOCATION SKETCH

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES ()

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING _____

TEST WELL _____

CATHODIC PROTECTION _____

HEAT EXCHANGE _____

DIRECT PUSH _____

INJECTION _____

VAPOR EXTRACTION _____

SPARGING _____

REMEDATION _____

OTHER (SPECIFY) _____

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER UKN (Fl.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 235 (Fl.) & DATE MEASURED 10/5/2010

ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Fl.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)				
		TYPE ()	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	20	30	X	Steel	19.5	.250
0	218	20	X		12	.250
218	318	20	X	304 SS	11.75	.250 .060
318	323	20	X	Steel	12	.250

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	20	X			
20	325				#6

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

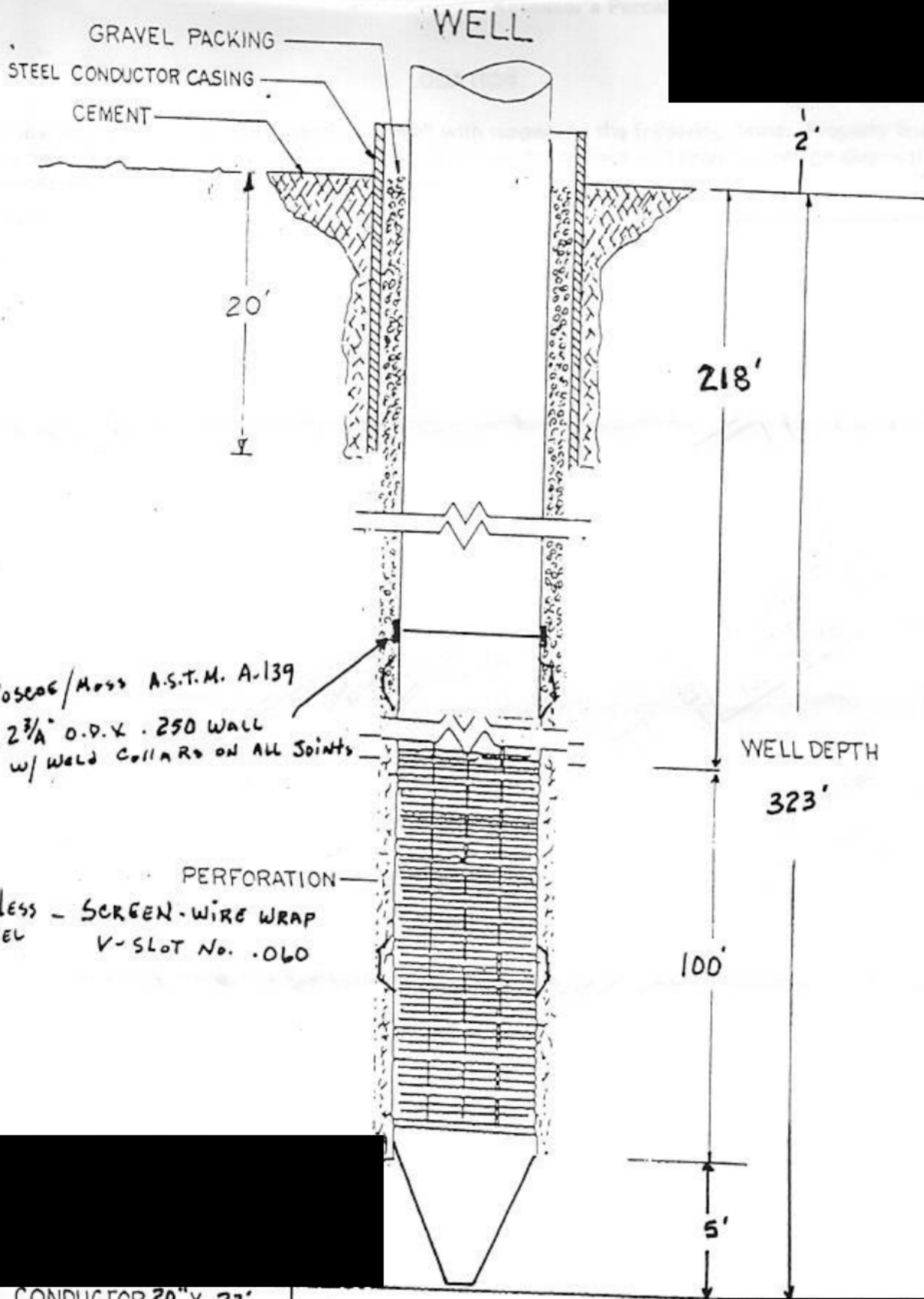
Geophysical Log(s)

Soil/Water Chemical Analyses

Other Site MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT



STEEL CONDUCTOR 20" X 22'
 STEEL LINER 12" X 325'
 GRAVEL SIZE # 6

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0364705

Page 1 of 1

Owner's Well Number

Date Work Began 01/08/2018 Date Work Ended 2/12/2018

Local Permit Agency SD DEH

Permit Number Permit Date 1/10/18

DWR Use Only - Do Not Fill In
Grid for State Well Number/Site Number, Latitude, Longitude, APN/TRS/Other

Geologic Log Table with columns: Orientation, Drilling Method, Depth from Surface (Feet to Feet), Description. Includes notes: ** 14" Sump is Filled with Concrete to be Drilled Out Later, if Deepened.

Well Owner (confidential pursuant to CA Water Code 13752)

Well Location

Location Sketch (Sketch must be drawn by hand after form is printed.) North, South, West, East

Activity: [X] New Well, [] Modification/Repair, [] Deepen, [] Other, [] Destroy
Planned Uses: [X] Water Supply, [] Domestic, [] Public, [X] Irrigation, [] Industrial, [] Cathodic Protection, [] Dewatering, [] Heat Exchange, [] Injection, [] Monitoring, [] Remediation, [] Sparging, [] Test Well, [] Vapor Extraction, [] Other

Water Level and Yield of Completed Well
Depth to first water (Feet below surface)
Depth to Static
Water Level 249 (Feet) Date Measured
Estimated Yield * 150 (GPM) Test Type Constant Rate
Test Length 12.0 (Hours) Total Drawdown (Feet)
*May not be representative of a well's long term yield.

Casings Table with columns: Depth from Surface (Feet to Feet), Borehole Diameter (Inches), Type, Material, Wall Thickness (Inches), Outside Diameter (Inches), Screen Type, Slot Size if Any (Inches)

Annular Material Table with columns: Depth from Surface (Feet to Feet), Fill, Description

Attachments: [] Geologic Log, [] Well Construction Diagram, [] Geophysical Log(s), [] Soil/Water Chemical Analyses, [X] Other Site Map

Certification Statement

SEP 3 1968

105 01W 09L0025

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT
(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

No. 33652

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

State Well No. 105/01W-09L0025

Other Well No.

(1) OWNER:

N:
A:

(11) WELL LOG:

Total depth 485 ft. Depth of completed well 485 ft.

Formation: Describe by color, character, size of material, and structure

(0 - 4.58 Alluvial fill 4.58 - 4.85 Granite Schist)

As Follows

0 - 65 Ft Sand & rocks # brown color

65 - 75" Boulders to 2' in Diameter.

75 - 90 " Sand & rock, fine to coarse.

sand, small rocks, Brown color.

90 - 100' Sand, brown color, small rocks

100 - 125' Lenses of red silt & sand, small

Rocks

125 - 150' Layers of red brown silt with some coarse sand and small gravel.

150 - 160' Brown Silt

160 - 194 Hard packed fill, Small rocks

194 - 330 Hard & soft layers, sand & rock sand brown color, med, to coarse

330 - 335 Clay, brown

335 - 360' Clay streaks with rocks, Brown

360 - 367' Red clay & rock

367 - 404' Partly cemented sand & rock, green gray color.

404 - 410 Soft clay streak

410 - 458 Hard alluvial ~~fill~~, Green Gray color.

458 - 485 Granite Schist, gray color

(2) LOCATION OF WELL:

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Destroying
If destruction, describe material and procedure in item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) EQUIPMENT:

Rotary
Cable
Other

(6) CASING INSTALLED:

STEEL: OTHER:
SINGLE DOUBLE

If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	317	16	.250	20"	0	130
317	415	14	.250	18"	130	190
415	485	12	.250	16"	190	415

Size of shoe or well ring: none Size of A: Bels: 415 485

Describe joint: Welded Gravel 1/2 inch

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
174	317	16	4	2 1/2 x 3/16
325	415	14	4	" " "
410	470	12	4	" " "
470	485	4	1	6" x 3/16

Torch perforated

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing: Cementing

(9) WATER LEVELS:

1st water 140'

Depth at which water was first found, if known 2nd, over 225 ft.

Standing level before perforating, if known 225 ft.

Standing level after perforating and developing 225 ft.

(10) WELL TESTS:

Pump test made? Yes No If yes, by whom? Pump Orange County

Flow: 600 gal./min. with approx. 2 ft. drawdown after 2 hrs.

Temperature of water: Was a chemical analysis made? Yes No

Was electric log made of well? Yes No If yes, attach copy

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

Work started 3/21 1968, Completed 5/21 1968

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SKETCH LOCATION OF WELL ON REVERSE SIDE

TRIPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1082848**

Page 1 of 1

Owner's Well No.

Date Work Began 9/4/09, Ended 10/20/09

Local Permit Agency DEH

Permit No. Permit Date 9/3/09

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

ORIENTATION (∠) VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRIILLING METHOD Rotary FLUID Gal & Air

DEPTH FROM SURFACE

FL	to	FL	DESCRIPTION
0	33		Alluvial fan - glomerate consisting of fine to coarse sand with hard round to semi round boulders brown color
33	37		Red clay with small rocks
37	156		Clayey sand with small to medium boulders
156	355		Older alluvium - clayey sands hard, cemented red/brown turning to grey
355	388		Weathered rock - brown to turning grey
388	733		Hard rock - granitic gneiss
733	750		Quartz diorite - white color
750	1100		Granodiorite - primary quartz
1100	1100		Fracture zone (water)
1100	1304		Granodiorite - black and white color
1304	1305		Fracture - water seepage
1305	1564		Quartz diorite
1564	1565		Fracture - water
1565	1758		Quartz diorite - H.S. Gas at 1758
1758	1812		Quartz diorite

TOTAL DEPTH OF BORING 1812 (Feet)

TOTAL DEPTH OF COMPLETED WELL 1812 (Feet)

WELL LOCATION

Township 10S Range 1W Section Pauma (9)

Lat Long

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES (∠)

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMIEDIATION

OTHER (SPECIFY)

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER unk (Fl.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 219 (Fl.) & DATE MEASURED 11/7/09

ESTIMATED YIELD * 95 (GPM) & TEST TYPE

TEST LENGTH 4 (Hrs.) TOTAL DRAWDOWN (Fl.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)						DEPTH FROM SURFACE	ANNULAR MATERIAL				
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE		
FL	to	FL	BLANK	SCREEN	CON-DUCTOR			FILL PIPE			FL	to	FL
0	375	22"	X				Steel	15.5	.250				
375	680	14"					open hole						
680	1200	12-250					open hole						
1200	1812	8-5					open hole						

ATTACHMENTS (∠)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other Sit. Maps

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

Well

Well dug and curbed by [redacted] before being drilled.
Cement Curb 4' x 4'6" To depth of 54ft
Finding coarse sand and gravel with water at 48'

Set 16" O. D. Pipe at 54'. Pipe weight. 55Lbs per ft.
Welded joints.
Sand and gravel continuing to 97'
Finding fine muddy sediment as the drill reached
the 97' level.
Water rising 24'. to 32' from surface.
Blue Clay (TOOLIE BED) 97' TO 100'
Fine dirty Sand with big Boulders 100' TO 115'
Muddy sand and Red clay 105 to 115'
Finding Water running down the hole
through the Toolie Bed and escapeing
Pipe was set and cemented (Plugged) at 117'
Cement plugged back to 97'
Perforated with Mills Knife. 1/2".
From 56' TO 97'

PUMP TEST.

Starting with 20" about 5% sand
clearing and increasing pump speed
to 30" in four hours.
set over night .
increase pump speed to 40" in four
more hours.
broke pump Engine and quit.
Using Peerless Test pump and
Orifice Measurement.



No N.T. found

105 01W 09 P002 S

OLD LOG # 28982
28982
Do Not Fill In

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

No 37201

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

State Well No. 105/01W-09P02 S
Other Well No. _____

(1) OWNER:
I
I

(11) WELL LOG:
Total depth 407 ft. Depth of completed well _____ ft.
Formation: Describe by color, character, size of material, and structure
_____ ft. to _____ ft.

(2) LOCATION OF WELL:
[Redacted]

Cleaned out 15 ft of sand that accumulated below turbine pump. Found all other conditions good.

(3) TYPE OF WORK (check):
New Well Deepening Reconditioning Destroying
If destruction, describe material and procedure in Item 11.

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

(4) PROPOSED USE (check):
Domestic Industrial Municipal
Irrigation Test Well Other

(5) EQUIPMENT:
Rotary
Cable
Other

(6) CASING INSTALLED:

STEEL:		OTHER:		If gravel packed		
From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	391	12	.250	18	0	355

Size of shoe or well ring: _____ Size of gravel: _____

Describe joint

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes No To what depth _____ ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata

From _____ ft. to _____ ft.
From _____ ft. to _____ ft.

Method of sealing:
(9) WATER LEVELS: this date 2/21/66
Depth at which water was first found, if known 230 ft.
Standing level before perforating, if known _____ ft.
Standing level after perforating and developing 230 ft.

(10) WELL TESTS:
Was pump test made? Yes No If yes, by whom?
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Temperature of water _____ Was a chemical analysis made? Yes No
Was electric log made of well? Yes No If yes, attach copy

Work started 2/18 19 66 Completed 2/18 19 66
WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SKETCH LOCATION OF WELL ON REVERSE SIDE

37201

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Do Not Fill In

No. 28982

State Well No. 10S/01W-09F02 S

Other Well No. _____

DUPLICATE

File Original, Duplicate and Triplicate with the

REGIONAL WATER POLLUTION

CONTROL BOARD No. 9(9)
(Insert appropriate number)

STATE OF CALIFORNIA

OWNER: _____
N _____
A _____
= _____

(11) WELL LOG:

Total depth 407 ft. Depth of completed well 407 ft.

Formation: Describe by color, character, size of material, and structure.

0	ft. to 2	Brown Soil & Pebbles
2	135	Gray Decomposed Granite
135	150	Pink " "
150	225	Gray " "
225	234	Gray Granite Blenders
234	355	Gray Decomposed Granite
355	365	Yellow Clay
365	390	Gray Decomposed Granite
390	407	Gray Hard Gneiss

(2) LOCATION OF WELL:



(3) TYPE OF WORK (check):

New well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) EQUIPMENT:

Rotary
Cable
Dug Well

(6) CASING INSTALLED:

SINGLE <input checked="" type="checkbox"/> DOUBLE <input type="checkbox"/>		Gage or wall	Diameter of Bore	from, ft.	to, ft.
From	0 ft. to 391 ft.	12 Diam. .250	18"		
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"
"	"	"	"	"	"

If gravel packed

Type and size of shoe or well ring Dakor 18"
Describe joint insulated
Size of gravel: 1/2"

(7) PERFORATIONS:

Type of perforator used	Size of perforations	in., length, by	Perf. per row	Rows per ft.
<u>Mills</u>	<u>3/8</u>	<u>2"</u>		
From	ft. to			
"	190	355	6	1
"	355	390	6	1

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth _____ ft.
Were any strata sealed against pollution? Yes No If yes, note depth of strata _____
From _____ ft. to _____ ft.
Method of Sealing _____

(9) WATER LEVELS:

Depth at which water was first found 500 ft.
Standing level before perforating 190 ft.
ing level after perforating 190 ft.

(10) WELL TESTS:

Was a pump test made? Yes No If yes, by whom? WEBB PUMP Co.
Yield: 530 gal./min. with 142 ft. draw down after 24 hrs.
Temperature of water _____
Was a chemical analysis made? Yes No
Was electric log made of well? Yes No

Casing left 2 ft. above ground level.
Total depth below top of pipe 407 ft.

pump test GPM	from	Depth
"	220	225
"	250	235
"	330	240
"	400	255
"	530	322

Well pumped some GAS at pumping rates of 400 to 530 GPM

CONFIDENTIAL - NOT FOR PUBLIC RELEASE
MICROFILMED

Work started Dec 19 19 60 Completed Jan 21 19 6

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Owner's Copy

Page 1 of 1

Owner's Well No. _____

Date Work Began _____, Ended 1/25/94

Local Permit Agency San Marcos

Permit No. W62554 Permit Date 10/14/93

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **395641**

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG

WELL OWNER

ORIENTATION ()		DEPTH TO FIRST WATER (Ft.) BELOW SURFACE		DESCRIPTION <i>Describe material, grain size, color, etc.</i>
DEPTH FROM SURFACE		Ft.	to Ft.	
0	20			gray sand and boulders
21	40			sand and gravel
41	60			sand, gravel w/boulders
61	80			clay and boulders
81	100			clay and boulders
101	120			clay and boulders
121	140			clay and gravel mixed
141	160			clay and gravel mixed
161	180			clay and gravel mixed
181	200			semi hard rock, multi colored
201	217			sand and gravel
218	240			sand and gravel
240	244			sand and clay
245	265			clay, sand and gravel
266	268			boulder
269	274			sand and gravel
275	277			boulder
278	280			sand and gravel w/clay lenses
281	330			sand and clay mix
335	358			d.g. brown w/clay layers
359	360			boulder
364	365			clay brown/red
366	400			sand and clay
401	425			sand and clay
426	430			boulders and clay, sand
431	490			sand w/clay layers
491	501			hard rock
502	520			sand and clay
521	610			granodiorite (hard)

Name Yuima Municipal Water District
 Mailing Address P. O. Box 177
 CITY Pauma Valley STATE CA. ZIP 92061

Address _____
 City Pauma Valley
 County San Diego
 APN Book _____ Page _____ Parcel _____
 Township _____ Range _____ Section RANCHO LAND
 Latitude _____ Longitude _____

LOCATION SKETCH NORTH

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) _____

DESTROY (Describe Procedure and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) ()

MONITORING

WATER SUPPLY

Domestic

Public

Irrigation

Industrial

"TEST WELL"

CATHODIC PROTECTION

OTHER (Specify) municipal

DRILLING METHOD mud rotary FLUID bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 235 (Ft.) & DATE MEASURED 2/1/94

ESTIMATED YIELD 500 (GPM) & TEST TYPE air lift

TEST LENGTH 24 (Hrs.) TOTAL DRAWDOWN unkn (Ft.)

* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 610 (Feet)
 TOTAL DEPTH OF COMPLETED WELL 582 (Feet)

DEPTH FROM SURFACE Fl. to FL.	BORE-HOLE DIA. (Inches)	CASING(S)						ANNULAR MATERIAL			
		TYPE ()	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE SIZE)	
0 : 104	32	X	steel	24	250	-	X				
0 : 282	24	X	steel	14	250						
282 : 582	24	X	steel	14	250	050				5/16 Rancho Mix	

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME HIDDEN VALLEY PUMP SYSTEMS, INC.
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 27932 Valley Center Road, Valley Center, CA. CITY Valley Center STATE CA ZIP 92082

Signed Arthur Wedger WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED 2/7/94 C.S.T. LICENSE NUMBER 487325

TRIPPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Page of
Owner's Well No.
Date Work Began 3-14-01 Ended 3-24-01 No. **745232**
Local Permit Agency: San Marcos
Permit No. Permit Date 3-14-01

DWR USE ONLY - DO NOT FILL IN
STATE WELL NO. STATION NO.
LATITUDE LONGITUDE
API # (OTHER)

GEOLOGIC LOG

DEPTH FROM SURFACE		DESCRIPTION
ft	ft	
0	5	top soil
6	24	sand/stones
24	31	gray sand/stones
31	44	gray sand/stones w. clay layer
44	63	gray clay
64	84	gray clay/sand/stones
85	105	gray sand/boulders
106	125	gray sand/boulders
125	146	gray sand/gravel
146	166	gray sand/boulders w/ clay layers
166	175	sand/boulders
176	196	gray sand/boulders
197	219	semi hard rock
219	240	semi hard granodiorite

ORIENTATION (Z): VERTICAL HORIZONTAL ANGLE (SPECIFY) _____
DRILLING METHOD: Rotary FLUID: bentonit
Describe material, grain size, color, etc.

Township _____ Range _____ Section _____
Latitude _____ Longitude _____
DEC. MIN. SEC. NORTH DEC. MIN. SEC. WEST

ACTIVITY (Z):
 NEW WELL
 MODIFICATION REPAIR
 Deeper _____
 Other (Specify) _____
 DESTROY (Describe Procedures and Methods Under GEOLOGIC LOG)

PLANNED USES (Z):
 WATER SUPPLY
 Domestic _____ Public _____
 Irrigation _____ Livestock _____
 MONITORING
 TEST WELL
 CATHODIC PROTECTION
 HEAT EXCHANGE
 DIRECT PUSH
 INJECTION
 VAPOR EXTRACTION
 SPARGING
 REMEDIATION
 OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER _____ (ft) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL unkn (ft) DATE MEAS. REC. _____
ESTIMATED YIELD no test (gpm) & TEST TIME _____
TEST LENGTH _____ (hrs) TOTAL DRAWDOWN _____ (ft)
* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 240 Feet
TOTAL DEPTH OF COMPLETED WELL 240 Feet

CASING (S)

DEPTH FROM SURFACE	BORE HOLE DIA. (Inches)	TYPE (Z)				MATERIAL GRADE	INTERNAL DIAMETER (Inches)	GAUGE ON WALL THICKNESS	SLOT SIZE " IF ANY (Inches)
		BLANK	SCREEN	COUPLER	PIPE JOINT				
0	60	34"	X			steel	24"	250	-
0	120	24"	X			steel	16"	250.	
120	220	24"	X			stan. steel	16"		0.50
220	240	24"	X			steel	16"	250.	

ANNULAR MATERIAL

DEPTH FROM SURFACE	TYPE	CEMENT (Z)			BENTONITE (Z)		FILTER PACK (TYPE/SIZE)	
		FL.	PL.	FL.	PL.	FL.	PL.	
0	60	X						

- ATTACHMENTS (Z)
- Geologic Log
 - Well Construction Diagram
 - Geophysical Logs
 - Soil/Water Chemical Analyses
 - Other

CERTIFICATION STATEMENT

PLOTTED

TROL BOARD No. _____
(appropriate number)

STATE OF CALIFORNIA
10S DIW 16 GOOIS

OWNER:

Address _____

(11) WELL LOG:

Total depth	ft.	Depth of completed well	ft.
360		330	
Formation: Describe by color, character, size of material, and structure.			
0	49		silt clay and decomposed granite
49	104		soft sandy clay
104	150		hard clay and D G
150	162		more granite in it
162	166		gravel
166	178		very hard D G
178	186		gravel
186	190		silt and clay
190	198		loose sand and gravel
198	204		soft sandy clay
204	208		loose gravel lots silt
208	212		hard sandy clay
212	228		soft clay
228	232		hard sandy clay
232	238		sticky clay
238	250		loose silt some gravel
250	254		good gravel
254	282		hard conglomerate
282	292		soft silt and sand
292	302		clay with some sand and gravel
302	312		hard grey cong.
312	316		soft silt sand and gravel
316	330		sandy red clay
330	332		grey sandy clay
332	358		D G
358	360		granite

(2) LOCATION OF WELL:

(3) TYPE OF WORK (check):

New well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal

Irrigation Test Well Other

(5) EQUIPMENT:

Rotary

Cable

Dug Well

(6) CASING INSTALLED:

SINGLE DOUBLE 1-X-250

ft. to	ft.	Diam.	Grade of Wall
0	330	12"	1/4"

If gravel packed

Diameter of Bore from ft. to ft.

Type and size of shoe or well ring 12" x 7/8"

Describe joint welded

(7) PERFORATIONS:

Type of perforator used mills 25-25

Size of perforations 1/4" in., length by 2 1/2"

From 160 ft. to 328 ft. Perfor. per row 8 Rows per ft. 1

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth 2 ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata 2

From _____ ft. to _____ ft.

Method of Sealing _____

(9) WATER LEVELS:

Level at which water was first found 169 ft.

Level before perforating 169 ft.

Level after perforating 169 ft.

WELL TESTS:

Pump test made? Yes No If yes, by whom?

Yield: _____ gal./min. with _____ ft. draw down after _____ hrs.

Temperature of water _____ Was a chemical analysis made? Yes No

Was electric log made of well? Yes No

MICROFILMED

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

Work started 6-23-55 Completed 7-8-55

WELL DRILLER'S STATEMENT:

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet
No. e0176466

Page One of One

Owner's Well Number XXXXXXXXXX

Date Work Began 04/14/2013

Date Work Ended 5/8/2013

Local Permit Agency SD DEH

Permit Number XXXXXXXXXX

Permit Date 2/20/13

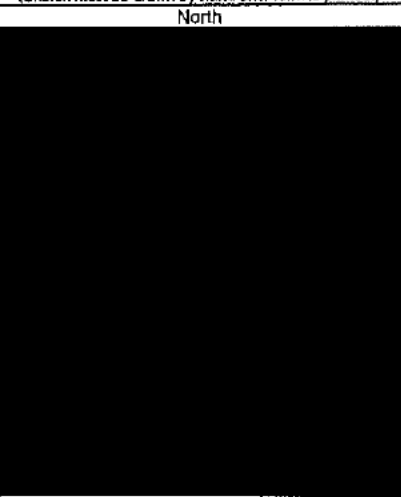
DWR Use Only -- Do Not Fill In			
_____ State Well Number/Site Number			
_____ N _____ W Latitude Longitude			
_____ APN/TRS/Other			

Geologic Log

Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____ Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Bentonite mud</u>		
Depth from Surface Feet to Feet		Description Describe material, grain size, color, etc.
0	10	Sandy Fill, Fine to Coarse Sand W/ One 20" Boulder
10	22	Silty Sand W/ Small Aggregate
22	80	Fine to Coarse Sand W/ Small Rocks
80	86	Fine Black Sand/ Tule Bed
86	129	Fine to Coarse Sand
129	133	Small Rocks
133	190	Hard, Firm, Partialy Cemented Aggregate
190	232	Weathered Decomposed Granite 5' Per Hour
Total Depth of Boring		<u>232</u> Feet
Total Depth of Completed Well		<u>229</u> Feet

Well Owner

Well Location

Location Sketch (Sketch must be drawn by hand after form is printed.) North 	Activity <input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy Describe procedures and materials under "GEOLOGIC LOG"
Planned Uses <input checked="" type="radio"/> Water Supply <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____	

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)
 Depth to Static _____
 Water Level 132 (Feet) Date Measured 05/06/2013
 Estimated Yield * 380 (GPM) Test Type Constant Rate
 Test Length 24.0 (Hours) Total Drawdown 43 (Feet)
 *May not be representative of a well's long term yield.

Casings								
Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)	
0	100	32	Conductor	.250	24			
0	139	23	Blank	SDR 17	16			
139	224	23	Screen	.250	14	Wire Wrap	0.050	
224	229	23	Blank	.250	14			

Annular Material		
Depth from Surface Feet to Feet	Fill	Description
0	100	Cement
0	230	Filter Pack #3

Attachments
<input type="checkbox"/> Geologic Log <input checked="" type="checkbox"/> Well Construction Diagram <input checked="" type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Site Map</u>

Certification Statement

COUNTY RECEIVED

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Page One of One

MAY 05 2015 Well Completion Report

Refer to Instruction Pamphlet

No. e0265192

Owner's Well Number

Date Work Began 03/19/2015

Date Work Ended 4/30/2015

Local Permit Agency SD DEH

ENVIRONMENTAL HEALTH

Permit Number

Permit Date 3/11/15

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation Vertical Horizontal Angle Specify _____
 Drilling Method Direct Rotary Drilling Fluid Bentonite mud

Depth from Surface		Description
Feet	to Feet	
0	26	Brown sand & small boulders
26	37	Boulders w/ brown sand
37	41	Grey clay
41	79	Course brown sand
79	81	Grey silty clay & organic material/wood chips
81	95	"Tule" bed Grey silty sand
95	112	Grey silty sand
112	139	Grey sand & boulders
139	153	Boulders
153	157	Brown weathered rock
157	168	Grey weathered rock
168	199	Grey & white weathered granite
199	220	Grey & white granite
		Slow drilling from 150ft
Total Depth of Boring		220 Feet
Total Depth of Completed Well		210 Feet

Well Owner

[Redacted]

Well Location

[Redacted]

Location Sketch
(Sketch must be drawn by hand after form is printed.)

North

[Redacted]

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- New Well
- Modification/Repair
 - Deepen
 - Other _____
- Destroy
Describe procedure and materials under "GEOLOGIC LOG"

Planned Uses

- Water Supply
 - Domestic Public
 - Irrigation Industrial
- Cathodic Protection
- Dewatering
- Heat Exchange
- Injection
- Monitoring
- Remediation
- Sparging
- Test Well
- Vapor Extraction
- Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)
 Depth to Static _____
 Water Level 164 (Feet) Date Measured 04/30/2015
 Estimated Yield * 170 (GPM) Test Type Constant Rate
 Test Length 24.0 (Hours) Total Drawdown 191 (Feet)
 *May not be representative of a well's long term yield.

Casings

Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size
Feet to Feet	(Inches)			(Inches)	(Inches)		if Any (Inches)
0	20	32	Conductor	Low Carbon Steel	.250	20	
0	110	20	Blank	PVC F480	.632	10.75	
110	200	20	Screen	304 Stainless Steel	.250	10.75	Wire Wrap 0.060
200	210	20	Sump	304 Stainless Steel	.250	10.75	

Annular Material

Depth from Surface	Fill	Description
Feet to Feet		
0	20	Cement
0	220	Filter Pack #6

Attachments

- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other Site Map & Pump Test
- Attach additional information, if it exists.

Certification Statement

[Redacted]

QUADRUPPLICATE
Use to comply with
local requirements

STATE OF CALIFORNIA
WATER RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. **288113**

Notice of Intent No. _____
Local Permit No. or Date _____

State Well No. 35
Other Well No. _____

(12) WELL LOG: Total depth 204 ft. Completed depth 204 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

0	-	35	med. gray sand
36	-	45	med. gray sand & small ston
46	-	65	med. to fine gray sand
66	-	80	med. to fine gray sand
81	-	85	toolie mud (gr. clay & silt toolie sand)
86	-	105	toolie mud bl. & gray color
106	-	120	toolie " " "
121	-	125	med. gray sand w/some gray clay

126	-	145	heavy gray sand (cemented) boulders
146	-	165	" " "
166	-	185	" " "
186	-	210	" " "

(2) LOCATION OF WELL (See instructions)

(3) TYPE OF WORK:

New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe
destruction materials and pro-
cedures in Item 12)

(4) PROPOSED USE:

Domestic
Irrigation
Industrial
Test Well
Municipal
Other

(Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary Reverse
Cable Air
Other Bucket

(6) GRAVEL PACK:

Yes No Size 5/16
Diameter of bore mix
Packed from 0 to 204 ft.

(7) CASING INSTALLED:

Steel Plastic Concrete

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. In.	Gage or Wall	From ft.	To ft.	Slot size
0	204	14"		60	70	80
				124	204	80

(9) WELL SEAL:

Was surface sanitary seal provided? Yes No If yes, to depth 60 ft.
Were strata sealed against pollution? Yes No Interval _____ ft.
Method of sealing Grout Cement

(10) WATER LEVELS:

Depth of first water, if known 60 ft.
Standing level after well completion 30 ft.

(11) WELL TESTS:

Was well test made? Yes No If yes, by whom? _____
Type of test Pump Bailer Air lift
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes No If yes, by whom? _____
Was electric log made Yes No If yes, attach copy to this report

Work started 12/13 19 89 Completed 1/4 19 90
WELL DRILLER'S STATEMENT:

ORIGINAL
File with DWR

SEP 30 1978

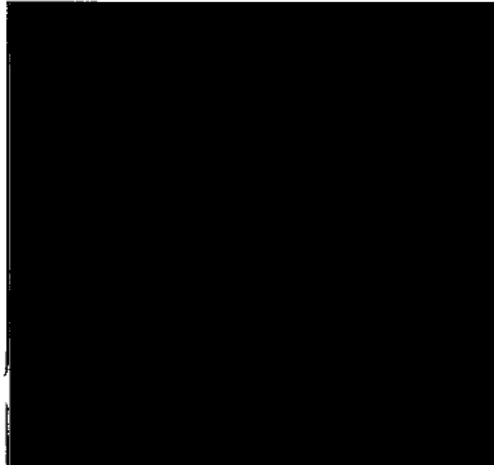
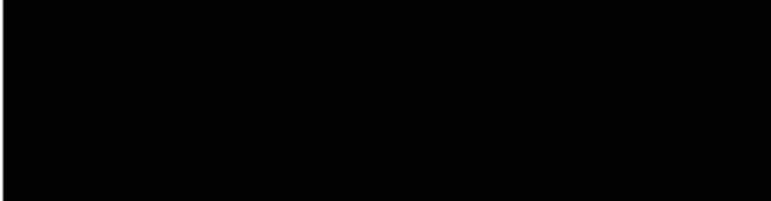
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 127103

Permit No. of Intent No. _____
Local Permit No. or Date _____

State Well No. _____
Other Well No. _____

(9) LOCATION OF WELL



(3) TYPE OF WORK:

- New Well Deepening
- Reconstruction
- Reconditioning
- Horizontal Well
- Destruction (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

- Domestic
- Irrigation
- Industrial
- Test Well
- Stock
- Municipal
- Other

WELL LOCATION SKETCH

(5) EQUIPMENT:

- Rotary Reverse
- Cable Air
- Other Bucket

(6) GRAVEL PACK:

- Yes No Size 3/8 Pea
- Diameter of bore 12
- Packed from 0 to 200 ft.

(7) CASING INSTALLED:

- Steel Plastic Concrete

(8) PERFORATIONS: Well Slot

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	300	6	.188	80	300	1/8 x 2 1/2

(9) WELL SEAL:

- Was surface sanitary seal provided? Yes No If yes, to depth 50 ft.
- Were strata sealed against pollution? Yes No Interval _____ ft.
- Method of sealing Cementing and cased

(10) WATER LEVELS:

- Depth of first water, if known 60 ft.
- Standing level after well completion 20 ft.

(11) WELL TESTS:

- Was well test made? Yes No If yes, by whom? Same
- Type of test Pump Bailer Air lift
- Depth to water at start of test 20 ft. At end of test 300 ft.
- Flow rate 35 gal/min after 4 hours Water temperature Ukn
- Chemical analysis made? Yes No If yes, by whom? _____
- Was electric log made? Yes No If yes, attach copy to this report

(12) WELL LOG: Total depth 352 ft. Depth of completed well 352 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

0 - 180 Alluvial fill consisting of Silty sand and some lenses of small rocks
Overall color - brown

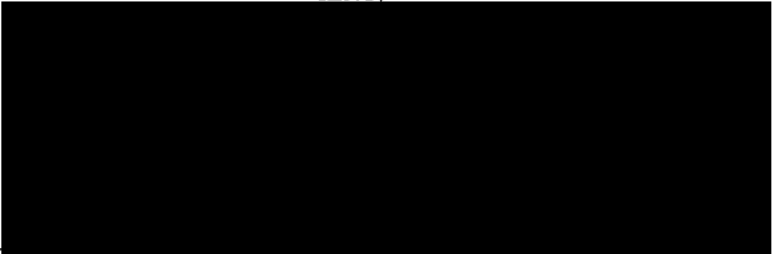
180 - 260 Decomposed granite - grey color

260 - 350 Hard rock, gnetic - overall color grey

ORIGINAL DOCUMENT NOT FOR PUBLIC USE SEC. 13752

Work started 7/26/ 19 78 Completed 8/2 19 78

WELL DRILLER'S STATEMENT:



TRIPPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DO NOT USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

SPH/TSR/OTHER

Page _____ of _____
Owner's Well No. _____
Date Work Began 9/30/91 Ended 10/25/91
Local Permit Agency San Marcos No. 491780
Permit No. _____ Permit Date 9/24/91

GEOLOGIC LOG

ORIENTATION (✓) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

DEPTH TO FIRST WATER _____ (FT.) BELOW SURFACE

DEPTH FROM SURFACE		DESCRIPTION
FT.	TO FT.	
0	10	fine sand w/clay
10	50	med. sand
50	80	course sand w/some clay
80	129	med. sand w/clay
129	132	brownish clay
132	135	med. course sand
135	153	cement sand, med.
153	159	med. sand
159	160	boulders
160	175	cement course sand
175	178	boulder
178	205	cement med. sand
205	207	boulders
207	213	cement med. sand
213	223	semi-hard d.g.
223	230	hard granite

Describe material, grain size, color, etc.

WELL OWNER

WELL LOCATION

Township 10S Range 1W Section 22
Latitude _____ Longitude _____
DEG. MIN. SEC. NORTH WEST
DEG. MIN. SEC. SOUTH EAST

LOCATION SKETCH

ACTIVITY (✓)

NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)

MONITORING
 WATER SUPPLY
 Domestic
 Public
 Irrigation
 Industrial
 "TEST WELL"
 CATHODIC PROTECTION
 OTHER (Specify) Municipal

DRILLING METHOD Rotary FLUID Bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 65' (FT.) & DATE MEASURED 11-11-91
ESTIMATED YIELD 900 (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (FT.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						ANNULAR MATERIAL			
		TYPE (✓)	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)	
0	56	32	steel	23 1/2	250						
0	116-6	22	pvc	13 3/8	7/8						
116-6	214	22	pvc	13 3/8	7/8	.60				Bradley gravel pack 5/16	

ATTACHMENTS (✓)

Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

105 01W 22 F 006S

WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

STATE OF CALIFORNIA

Do Not Fill In

No: 100321

State Well No. 105/01W-22 F 006

Other Well No.

DUPLICATE File Original, Duplicate and Tripl... REGIONAL WATER POLLUTION CONTROL BOARD No 9 appropriate number

(11) WELL LOG:

Total depth 364 ft. Depth of completed well 367 ft.

Formation: Describe by color, character, size of material, and structure.

Table with 3 columns: Depth (ft.), Depth (ft.), and Description. Rows include: 0-12 ft. Sand and large boulders; 12-43 ft. Hard packed silt and large boulders; 43-85 ft. Coarse sand, gravel and large boulders; 85-95 ft. Hard packed Tule; 95-118 ft. Black silty sand; 118-230 ft. Cemented sand and small gravel; 230-257 ft. Hard metamorphose alluvial fill sand, clay rock; 257-364 ft. Hard granites with streaks of softer rocks, few fissures.

8" hole in very hard rock 257 to 364'

20" hole to 257"

CONFIDENTIAL - NOT FOR PUBLIC RELEASE

(2) LOCATION OF WELL:

(3) TYPE OF WORK (check):

New well [X] Deepening [] Reconditioning [] Abandon []

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic [X] Industrial [] Municipal [] Irrigation [X] Test Well [] Other []

(5) EQUIPMENT:

Rotary [] Cable [X] Dug Well []

(6) CASING INSTALLED:

SINGLE [X] DOUBLE []

Table with 4 columns: From (ft. to), ft., Diam., Gage or Wall. Rows: 130-20-250, 260-12-250.

If gravel packed

Table with 3 columns: Diameter of Bore, from, to. Row: 20" 0 257

Type and size of shoe or well ring None

Describe joint Welded

Size of gravel: 1/2"

(7) PERFORATIONS:

Type of perforator used Machine cut

Table with 5 columns: Size of perforations, in., length, by, in., Perf. per row, Rows per ft. Row: 118-258-12-3

(8) CONSTRUCTION:

Was a surface sanitary seal provided? [X] Yes [] No To what depth 130 ft.

Were any strata sealed against pollution? [X] Yes [] No If yes, note depth of strata

From ft. to ft.

Method of Sealing

(9) WATER LEVELS:

Depth at which water was first found 85 ft.

Standing level before perforating 83 ft.

Standing level after perforating 83 ft.

(10) WELL TESTS:

Was a pump test made? [X] Yes [] No If yes, by whom? Webb Pump Co./

Yield: 600 gal./min. with ft. draw down after 24 hrs.

Temperature of water Was a chemical analysis made? [] Yes [X] No

Was electric log made of well? [] Yes [X] No

Work started May 27 1964 Completed July 7 1964

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Copy of Well Log

"Rincon Ranch Water Wells

1946

Log of Well #3

0-20'	adobe sandy
20-30'	hard boulders
30-50'	san' and boulders
50-85'	decomposed granite
85-87'	hard boulder
87'-109'	decomposed granite and boulders
109'-112'	hard boulder
112- 196'	decomposed granite and boulders
196- 217'	soft decomposed granite
217 -311'	decomposed granite and boulders
311 -321'	soft decomposed granite
321 -440'	soft decomposed granite with hard boulders
440 -485'	soft decomposed granite no boulders
485 - 505'	decomposed granite with hard boulders
505 - 547'	hard blue granite

bottom of hole at 547'

505' to top of bed rock

392' of 8" I.D. casing of which 102' is not perforated from top down

127' of 6" liner put inside of the 8" casing and extends inside of 8" casing 31' up in casing.

drilled by Jim Scoggins and son of Long Beach, California
July, 1946"

Notes

rest well of IV

Well #3

Drilled 1946 by J.M. and J.L. Scoggins of Long Beach
Drilled by rotary rig
392' of 8" casing of which top 102' 6" is not perforated
127' of 6" casing dropped inside of 8" and which projects
20' up inside of 8" casing and is flared out to 8"
(this was measured to top of 6" by Scoggins, with us
watching and checking his measurement)

8" casing sets on a rock
547' of total hole
505' to top of bed rock
490" of cased hole
Bottom filled in to 499'
Flow of well measured over wier
Flow measured to 60 miner inches
5' drawdown on 60" flow"

547' 1.38
490" 1.38
499' 1.38

Driller: Vaughn Maynard & Sons
15562 Sullivan St.
Santa Ana, Calif.

Well Log: well 10

OWNER: Anaheim Mutual Water Co.
Anaheim Valley, Calif.
Well #10

Casing: 128 ft. of 16 in. dblo. 10/ga.
284 ft. of 12 in. dblo. 10/ga.
All perforated with 18 rows
1/8 x 1-1/2"

16" perforate from 75 to 124
with 3/8 x 3, 6 cuts to round.

Shoe: 16 x 1 x 12

Water Levels:
Depth at which water was first
found: 62' of May 4, 1953.
Standing level before perfor-
ating: 75' on July 11, 1953

Well Pumping Test:

Capacity 415 gal./min.
45' Draw down.

Location of Well:
County of San Diego
[Redacted]
[Redacted]
[Redacted]

0 ft. to	10 ft.	top soil & boulders
10 "	14 "	sand & gravel
14 "	35 "	soil & boulders
35 "	39 "	Gravel
39 "	62 "	soil & boulders
62 "	66 "	gravel
66 "	70 "	soil & boulders
70 "	74 "	hard boulders
74 "	104 "	hard decomposed granite
104 "	108 "	sandy clay
108 "	114 "	hard d.g.
114 "	122 "	soft d.g.
122 "	135 "	very hard d.g.
135 "	142 "	clay & boulders
142 "	145 "	very hard boulders
145 "	148 "	soft sandy clay
148 "	150 "	hard boulders
150 "	170 "	hard sandy clay
170 "	176 "	soft sandy clay
176 "	221 "	hard d.g.
221 "	223 "	hard quartz
223 "	246 "	D.G.
246 "	260 "	d.g. with silt and rocks
260 "	268 "	conglomeration-
268 "	272 "	very hard d.g.
272 "	274 "	soft silt
274 "	286 "	conglomeration
286 "	295 "	soft
295 "	300 "	sandy clay
300 "	315 "	sandy clay & rocks
315 "	320 "	very hard d.g.
320 "	335 "	conglomeration
335 "	353 "	silt, clay & some gravel
353 "	372 "	soft more gravel
372 "	390 "	hard silt & clay
390 "	392 "	very hard d.g.
392 "	405 "	hard conglomeration.

DRILLER'S STATEMENT:
This well was drilled under my jurisdic-
tion and this report is true to the
best of my knowledge and belief.

DRILLER: Vaughn Maynard & Sons
Vaughn Maynard

Work started: May 4, 1953
Completed: July 11, 1953.

Well No. 111167
Classification C-57
Date: July 27, 1953

Information Copied from Well Driller's
Report F.D. [Signature]

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

QUADRUPLICATE
Use to comply with
local requirements

No. 351171

Notice of Intent No. _____
Local Permit No. or Date W30387

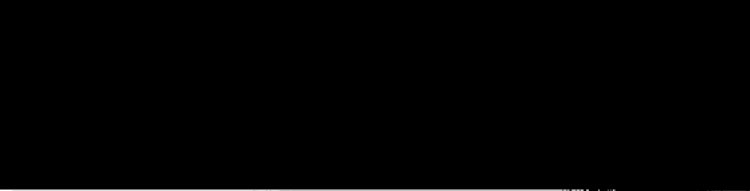
State Well No. _____
Other Well No. _____

(1) OWNER: Nan
Address _____
City _____

(12) WELL LOG: Total depth _____ ft. Completed depth 260 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

0 - 24	Loose Boulders, sand & gravel
24 - 30	Boulders hard drilling
30 - 46'6"	Sand & gravel & boulders
46'6" - 60	Sand-clay small rock
60 - 118	Sand w/streaks of clay & small rock Fairly smooth drilling
118 - 120	Sand & gravel
120 - 143	Boulders-gravel & sand-rough
143 - 175	Sand & gravel small rock
175 - 190	Sand-gravel w/clay
190 - 200	sand & gravel
200 - 202	Rough boulders
202 - 240	Cemented rock
240 - 260	hard rock rough drilling
260 - 290	Hard rock relativley smooth

(2) LOCATION OF WELL (See instructions):



(3) TYPE OF WORK:

- New Well Deepening
- Reconstruction
- Reconditioning
- Horizontal Well
- Destruction (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

- Domestic
- Irrigation
- Industrial
- Test Well
- Municipal
- Other Agricultural (Describe)

WELL LOCATION SKETCH

(5) EQUIPMENT:

- Rotary Mud Reverse
- Cable Air
- Other Bucket

(6) GRAVEL PACK:

- Yes No Size 5/16"
- Diameter of bore 24" # 16
- Packed from 23yds.

(7) CASING INSTALLED:

- Steel Plastic Concrete

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Cage or Wall	From ft.	To ft.	Slot size
0	22	2.8	.250	65	112	.057
0	262	5.3	DR18	122	194	
		φ.d.		214	233	

(9) WELL SEAL:

- Was surface sanitary seal provided? Yes No If yes, to depth 20 ft.
- Were strata sealed against pollution? Yes No Interval _____ ft.
- Method of sealing Cement grout

(10) WATER LEVELS:

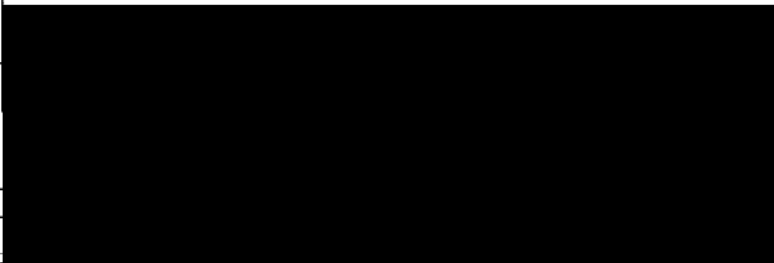
Depth of first water, if known _____ ft.
Standing level after well completion 68.75 ft.

(11) WELL TESTS:

- Was well test made? Yes No If yes, by whom? R. Anderson
- Type of test Pump Bailer Air lift
- Depth to water at start of test _____ ft. At end of test _____ ft.
- Discharge 1800+ gal/min after _____ hours Water temperature _____
- Chemical analysis made? Yes No If yes, by whom? _____
- Was electric log made Yes No If yes, attach copy to this report

Work started 5/5 1990 Completed 7/6 1990

WELL DRILLER'S STATEMENT:



ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. [REDACTED]

Date Work Began 5-8-03, Ended 5-16-03

Local Permit Agency DEH

Permit No. [REDACTED] Permit Date 5-6-03

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **0903435**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

WELL OWNER

ORIENTATION () VERTICAL HORIZONTAL ANGLE (SPECIFY)

DRILLING METHOD **Rotary** FLUID **Gel**

DEPTH FROM SURFACE

Describe material, grain size, color, etc.

Fl.	to	Fl.	DESCRIPTION
0	7		Alluvial fill - silty sand
7	16		Coarse Sand with boulders
16	58		Coarse sand - small boulders grey color
58	96		Coarse brown sand
96	123		Decomposed granite
123	126		Bedrock granite

WELL LOCATION

Address **5851 Glenair Way**

City **Pauma Valley**

County **San Diego**

APN Book **133** Page **420** Parcel **04**

Township **10S** Range **1W** Section **27**

Lat. _____ N Long. _____ W

LOCATION SKETCH

ACTIVITY ()

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

USES ()

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY) _____

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

TOTAL DEPTH OF BORING **126** (Feet)

TOTAL DEPTH OF COMPLETED WELL **107** (Feet)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER **65** (Fl.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL **53** (Fl.) & DATE MEASURED **5/16/03**

ESTIMATED YIELD **200** (GPM) & TEST TYPE **PUMP**

TEST LENGTH **8** (Hrs.) TOTAL DRAWDOWN **50** (Fl.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
Fl.	to	Fl.	FLANK	SCREEN	CON-DUCTOR				
0	20	32	X				Steel A53	23.5	.250
20	57	24	X				Steel A53	13.5	.377
57	97	24		X			SS 304	13.5	.377
97	107	24	X				Steel A53	13.5	.377

DEPTH FROM SURFACE	ANNULAR MATERIAL					
	TYPE					
Fl.	to	Fl.	CE-MENT ()	BEN-TONITE ()	FILL ()	FILTER PACK (TYPE/SIZE)
0	20		X			
20	107					4X8

ATTACHMENTS ()

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other **SITE MAP**

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

[REDACTED SIGNATURE]

10S 01W 27A 001S

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT
(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

No. 39856

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

State Well No. 10S/01W-27A01.S

Other Well No. _____

(1) OWNER:

N
A

(11) WELL LOG:

Total depth drilled 440 ft. Depth of completed well 443 ft.

Formations: Describe by color, character, size of material, and structure

0 ft. to 150 ft.

(2) LOCATION OF WELL:



Grey, Alluvial Sand & Boulders

150 220

Grey, Alluvial Sand & Gravel & Boulders Partly
gs. Cemented.

220 230 Grey Boulders

230 240 Grey Alluvial

Sand Gravel & Boulders.

240 298 Grey Alluvial

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Destroying

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic Industrial Municipal

Irrigation Test Well Other

(5) EQUIPMENT:

Rotary

Cable

Other

(6) CASING INSTALLED:

STEEL: SINGLE DOUBLE OTHER:

If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	288	16"	1/4"	18"	0	288
288	320	17"	1/4"			
320	325	12"	1/4"			

Size of shoe or well sing: 1/16/16

Size of gravel: 1/2"

Describe joint: Welded

CONFIDENTIAL - NOT
FOR PUBLIC RELEASE

325 to 369 1 1/2" X 1/2"

355 to 440 10" X 1/2"

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen: Mills Knife, Machine cut & Torch cut.

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.	
Mills	120	275	6	1	13/16" X 2 1/2"
Mach. Cut	275	369	8	3	3/16" X 2 1/2"
Torch	355	440	4	1	3/16" X 6"

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes No To what depth _____ ft.

Were any strata sealed against pollution? Yes No If yes, note depth of strata

From _____ ft. to _____ ft.

From _____ ft. to _____ ft.

Method of sealing

Work started 1/8/66 19 _____ , Completed 4/14 19 66

(9) WATER LEVELS:

Depth at which water was first found, if known 130 ft.

Standing level before perforating, if known 120 ft.

Standing level after perforating and developing 120 ft.

(10) WELL TESTS: Orange Co. Pump Co.

Was pump test made? Yes No If yes, by whom?

1340 gal./min. with 149 ft. drawdown after 8 hrs.

Temperature of water _____ Was a chemical analysis made? Yes No

Was electric log made of well? Yes No If yes, attach copy

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SKETCH LOCATION OF WELL ON REVERSE SIDE

ORIGINAL

STATE OF CALIFORNIA

Do not fill in

File with DWR

THE RESOURCES AGENCY

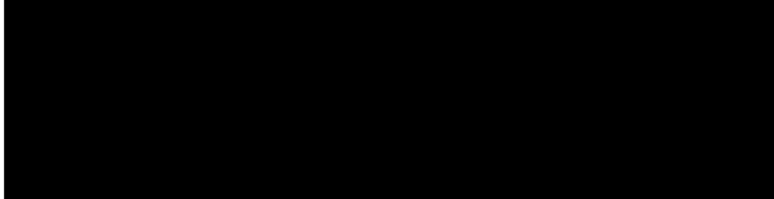
No. 158293

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

State Well No. 105/1W-35Q
Other Well No.

of Intent No.
Local Permit No. or Date

(1) Address
City



(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in Item 12)
(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Stock
Municipal
Other

WELL LOCATION SKETCH

(5) EQUIPMENT:
Rotary Reverse
Cable Air
Other Bucket
(6) GRAVEL PACK:
Yes No Size 5/16x1/8
Diameter of bore 20
Packed from 50 to 123 ft

(7) CASING INSTALLED: Steel Plastic Concrete
(8) PERFORATIONS: Louvre
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	50	20	.250	50	120	3/32
0	123	12	.250			

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth 50 ft.
Were strata sealed against pollution? Yes No Interval ft.
Method of sealing: Cementing

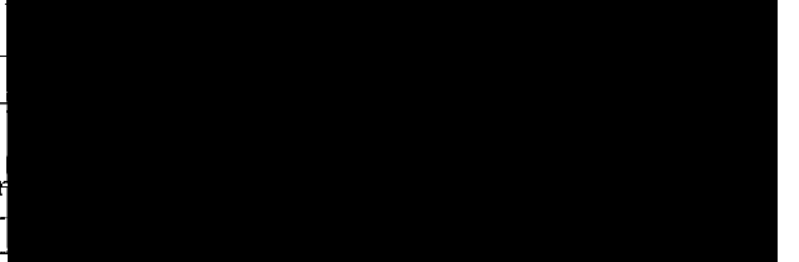
(10) WATER LEVELS:
Depth of first water, if known 35 ft.
Standing level after well completion 25 ft.

(11) WELL TESTS:
Was well test made? Yes No If yes, by whom? Same
Type of test Pump Bafler Air lift
Depth to water at start of test 25 ft. drawdown to 78 ft.
Flow rate 660 gal/min after 8 1/2 hours Water temperature unknown
Chemical analysis made? Yes No If yes, by whom?
Was electric log made? Yes No If yes, attach copy to this report

(12) WELL LOG: Total depth 123 ft. Depth of completed well 123 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
Alluvial fill as follows
0 - 5 fine grained sand and silt
5 - 19 fine to coarse sand
19 - 20 boulder
20 - 49 fine to coarse sand
49 - 70 large boulders, gneissic
70 - 90 fine to coarse sand
90 - 119 fine to coarse sand (partly cemented) with some 24" dia boulders
119 - 123 Hard rock

NO PUBLIC USE
CODE SEC. 13752

Work started October 1984 Completed 11/1 1984
WELL DRILLER'S STATEMENT:



ORIGINAL JAN 31 1980

File with DWR

STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

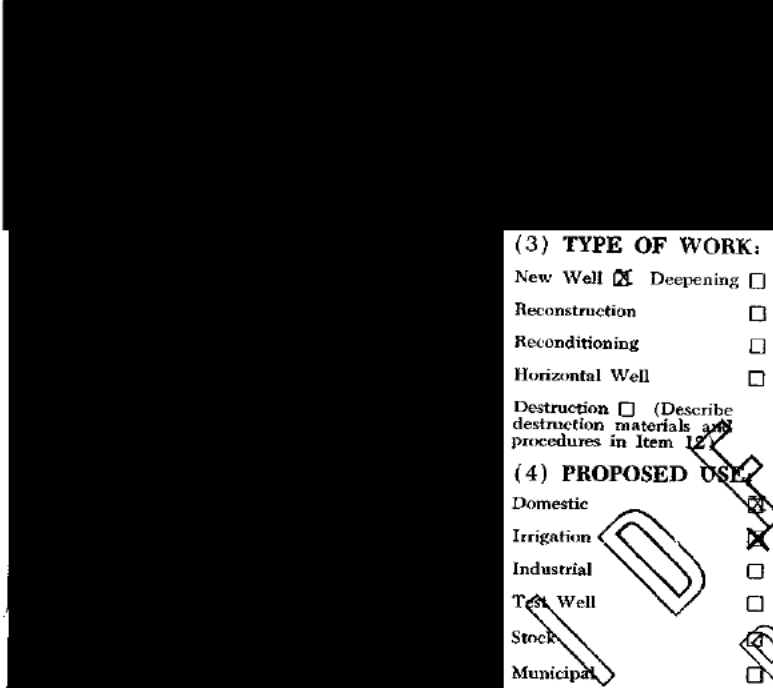
No. 127737

Permit No. or Date 12/6/79

State Well No.

Other Well No.

(2) LOCATION OF WELL (See instructions)



(12) WELL LOG: Total depth 312 ft. Depth of completed well 312 ft. from ft. to ft. Formation (Describe by color, character, size or material)

0 - 58	DG, overburden
58 - 62	broken rock w/pink granite
-	Frac @ 58-60 w/10 gpm
62 - 87	Blk/white granite w/frac.
-	zone @ 68-70 w/40+ GPM
87 - 112	blk/white granite granulated
112 - 137	dark blk/white granite
137 - 162	" " " " w/clay
-	layer @ 141
162 - 187	dark blk/white granite
187 - 212	md. hard blk/white granite
212 - 237	blk/white granite
237 - 262	blk/white granite
262 - 287	blk/white granite w/frac. @
-	282; frac. @ 286 w/blk. streak
287 - 312	blk/white granite

(3) TYPE OF WORK:

New Well Deepening

Reconstruction

Reconditioning

Horizontal Well

Destruction (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

Domestic

Irrigation

Industrial

Test Well

Stock

Municipal

Other

WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary Reverse

Cable Air

Other Bucket

(6) GRAVEL PACK:

Yes No Size 3/8

Diameter of bore 10

Packed from 67 to 127

(7) CASING INSTALLED:

Steel Plastic Concrete

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Cage or Wall	From ft.	To ft.	Slot size
0	127	8 5/8	.250	67	127	1/16 x 2 1/2 dbl. saw

(9) WELL SEAL:

Was surface sanitary seal provided? Yes No If yes, to depth 50 ft.

Were strata sealed against pollution? Yes No Interval _____ ft.

Method of sealing cement grout

Work started 12/6 19 79 Completed 12/11 19 79

(10) WATER LEVELS:

Depth of first water, if known 58-60 ft.

Standing level after well completion _____ ft.

(11) WELL TESTS:

Was well test made? Yes No If yes, by whom? driller

Type of test Pump Bailer Air lift

Depth to water at start of test _____ ft. At end of test _____ ft.

Discharge 60 gal/min after 1 hours Water temperature _____

Chemical analysis made? Yes No If yes, by whom? Ag. Dept.

Was electric log made? Yes No If yes, attach copy to this report

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 207210

Intent No. _____
Local Permit No. or Date _____

State Well No. _____
Other Well No. _____

(2) LOCATION OF WELL



(12) WELL LOG: Total depth _____ ft. Depth of completed well _____ ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	80	alluvial fill consisting of fine to coarse sand and gravel with some large boulders
80	125	boulders embedded in softer, weathered rock
125	132	semi hard rock, gnetic - grey color



- (3) TYPE OF WORK:
- New Well Deepening
 - Reconstruction
 - Reconditioning
 - Horizontal Well
 - Destruction (Describe destruction materials and procedures in Item 12)
- (4) PROPOSED USE:
- Domestic
 - Irrigation
 - Industrial
 - Test Well
 - Stock
 - Municipal
 - Other

WELL LOCATION SKETCH

(5) EQUIPMENT:				(6) GRAVEL PACK:			
Rotary <input checked="" type="checkbox"/>	Reverse <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Size _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Size _____		
Cable <input type="checkbox"/>	Air <input checked="" type="checkbox"/>	Bucket <input type="checkbox"/>	Other _____	Drainage of bore _____	Other _____		
(7) CASING INSTALLED:				(8) PERFORATIONS:			
Steel <input checked="" type="checkbox"/>	Plastic <input type="checkbox"/>	Concrete <input type="checkbox"/>	Other _____	Type of perforation or size of screen: none			
From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size	
0	90	8"	.188				
0	132	8"	.188				

(9) WELL SEAL:

Was surface sanitary seal provided? Yes No If yes, to depth 132 ft.

Were strata sealed against pollution? Yes No Interval _____ ft.

Method of sealing Cemented and cased

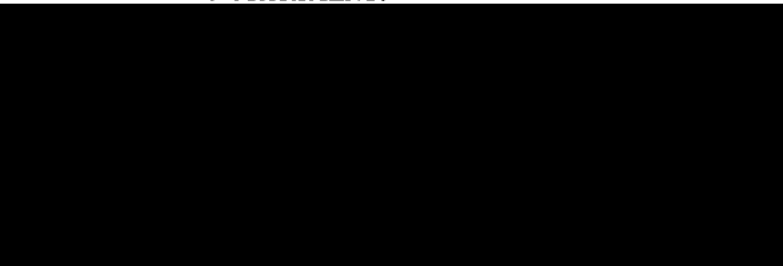
Work started 10-5- 1986 Completed 10-17- 1986

(10) WATER LEVELS:

Depth of first water, if known 12 ft.

Standing level after well completion 8 ft.

WELL DRILLER'S STATEMENT:



(11) WELL TESTS:

Was well test made? Yes No If yes, by whom? same

Type of test Pump Bailor Air lift

Depth to water at start of test 8 ft. drawdown to 120 ft

Flow rate 155 gal/min after 50 hours Water temperature ukn

Chemical analysis made? Yes No If yes, by whom? TDS 450PPM

Was electric log made? Yes No If yes, attach copy to this report

ORIGINAL

File with DWR

Project Name: [Redacted]
Permit No. or Date: [Redacted]

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 126791

State Well No. _____
Other Well No. _____

County: 9SD Range: 2W Section: 27 -P2

(12) WELL LOG: Total depth 144 ft. Depth of completed well 144
from ft. to ft. Formation (Describe by color, character, size or material)
0-20 ft. top soil
20-26 ft. coarse sand and rock chips
26-27 ft. fine dark sand
27-32 ft. coarse light sand a little silt & clay
32-48 ft. fine to coarse sand streaks
48-65 ft. coarse sand and gravel
65-69 ft. large coarse gravel, coarse sand
69-75 ft. rock chips and boulders
75-83 ft. boulders & medium size sand
85-87 ft. sand

(3) TYPE OF WORK:

- New Well Deepening
- Reconstruction
- Reconditioning
- Horizontal Well

Destruction (Describe dis-truction materials and procedures in Item 12)

(4) PROPOSED USE:

- Domestic
- Irrigation
- Industrial
- Test Well
- Stock
- Municipal
- Other

87-92 ft. coarse sand, gravel and cobbles
92-100 ft. small boulders
100-104 ft. cobbles and sand
104-115 ft. coarse sand, gravel and cobbles
115-126 ft. medium cobbles, sand & coarse gravel
126-130 ft. small boulders and some clay
130-134 ft. gravel and sand
134-138 ft. small boulders
138-139 ft. gravel and sand
139-144 ft. small boulders, gravel and sand

WELL LOCATION SKETCH

(5) EQUIPMENT:
Motor Reverse
Variable Air
Other Bucket

(6) GRAVEL PACK:

Yes No Size 3/8" minus
Diameter of bore 24"
Packed from 0 to 144 ft.

(7) CASING INSTALLED:
Steel Plastic Concrete

(8) PERFORATIONS: Moss Louvre
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Cage or Wall	From ft.	To ft.	Slot size
0	144	14"	5/16"	44	144	1/8"

(9) WELL SEAL:

Is surface sanitary seal provided? Yes No If yes, to depth 45 ft.
Is strata sealed against pollution? Yes No Interval _____ ft.
Method of sealing 9 sack grout mix

Work started July 19 19 78 Completed Sept. 23 19 78

(10) WATER LEVELS:

Depth of first water, if known 12 ft.
Standing level after well completion 12 ft.

(11) WELL TESTS:

Was well test made? Yes No If yes, by whom? Beylik Drilling
Type of test: Pump Bailer Air lift
Depth to water at start of test 12 ft. At end of test 12 ft.
Discharge 700 gal/min after 18 hours. Water temperature 69°
Chemical analysis made? Yes No If yes, by whom? _____
Was electric log made? Yes No If yes, attach copy to this report

APPENDIX 3B

**Water Quality Laboratory Analyses:
Upper San Luis Rey Sub-Basin Initial Monitoring Network**



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 1 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1C3245-01	MW5	Water	03/24/21 10:15	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-02	MW1	Water	03/24/21 11:10	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-03	MW4	Water	03/24/21 11:56	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-04	MW4	Water	03/24/21 12:01	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-05	MW6	Water	03/24/21 13:00	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-06	MW30	Water	03/24/21 14:34	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-07	MW29	Water	03/24/21 15:10	Allison O'Neal	03/25/21 11:10	GLS
C1C3245-08	MW27	Water	03/24/21 14:00	Allison O'Neal	03/25/21 11:10	GLS

One or more samples on this workorder did not meet sample temperature requirements per TNI standard 2009/2016. Client granted permission to continue with the analysis.



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW5	Water	03/24/21 10:15	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	6.3	1.0	mg/L	EPA 200.7	03/29/21 18:10	HRL	N_pFilt
Sodium-Dissolved	52	1.0	mg/L	EPA 200.7	03/29/21 18:10	HRL	N_pFilt
Calcium-Dissolved	120	1.0	mg/L	EPA 200.7	03/29/21 18:10	HRL	N_pFilt
Total Hardness	500	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:09	HRL	
Calcium	130	1.0	mg/L	EPA 200.7	03/29/21 18:09	HRL	
Magnesium	41	1.0	mg/L	EPA 200.7	03/29/21 18:09	HRL	
Anions							
Nitrate as N	32	0.20	mg/L	EPA 300.0	03/25/21 18:31	KJN	.MCNotifya
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 18:31	KJN	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	03/26/21 16:45	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 18:31	KJN	
Chloride-Dissolved	130	1.0	mg/L	EPA 300.0	03/26/21 16:45	KJN	
Nitrate/Nitrite as N	32	0.20	mg/L	EPA 300.0	03/25/21 18:31	KJN	
Aggregate Properties							
Specific Conductance	1200	1.0	umhos/cm	SM 2510 B	04/05/21 09:45	BZB	
Solids							
Total Dissolved Solids	760	20	mg/L	SM 2540C	03/30/21 12:55	AMB	
General Inorganics							
Perchlorate	6.1	4.0	ug/L	EPA 314.0	03/26/21 16:19	KBS	.MCNotify
Nutrients							
Total Dissolved Phosphorus	0.063	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW5	Water	03/24/21 10:15	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:02	AJH	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:10	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:10	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:09	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:40	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:35	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:40	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	03/24/21 11:10	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Calcium-Dissolved	63	1.0	mg/L	EPA 200.7	03/29/21 18:14	HRL	N_pFilt
Sodium-Dissolved	35	1.0	mg/L	EPA 200.7	03/29/21 18:14	HRL	N_pFilt
Potassium-Dissolved	5.8	1.0	mg/L	EPA 200.7	03/29/21 18:14	HRL	N_pFilt
Total Hardness	240	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:12	HRL	
Calcium	65	1.0	mg/L	EPA 200.7	03/29/21 18:12	HRL	
Magnesium	19	1.0	mg/L	EPA 200.7	03/29/21 18:12	HRL	
Anions							
Nitrate as N	9.3	0.20	mg/L	EPA 300.0	03/25/21 19:14	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 19:14	KJN	
Sulfate-Dissolved	95	0.50	mg/L	EPA 300.0	03/26/21 16:58	KJN	
Chloride-Dissolved	51	1.0	mg/L	EPA 300.0	03/26/21 16:58	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 19:14	KJN	
Nitrate/Nitrite as N	9.3	0.20	mg/L	EPA 300.0	03/25/21 19:14	KJN	
Aggregate Properties							
Specific Conductance	620	1.0	umhos/cm	SM 2510 B	04/05/21 09:46	BZB	
Solids							
Total Dissolved Solids	400	10	mg/L	SM 2540C	03/30/21 12:55	AMB	
General Inorganics							
Perchlorate	ND	4.0	ug/L	EPA 314.0	03/26/21 16:36	KBS	
Nutrients							
Total Dissolved Phosphorus	0.075	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 5 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	03/24/21 11:10	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:14	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:05	AJH	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:14	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:12	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:51	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:36	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:51	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 6 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	03/24/21 11:56	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	58	1.0	mg/L	EPA 200.7	03/29/21 18:17	HRL	N_pFilt
Calcium-Dissolved	140	1.0	mg/L	EPA 200.7	03/29/21 18:17	HRL	N_pFilt
Potassium-Dissolved	6.6	1.0	mg/L	EPA 200.7	03/29/21 18:17	HRL	N_pFilt
Total Hardness	570	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:16	HRL	
Calcium	150	1.0	mg/L	EPA 200.7	03/29/21 18:16	HRL	
Magnesium	48	1.0	mg/L	EPA 200.7	03/29/21 18:16	HRL	
Anions							
Nitrate as N	21	0.20	mg/L	EPA 300.0	03/25/21 19:30	KJN	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 19:30	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 19:30	KJN	
Chloride-Dissolved	160	1.0	mg/L	EPA 300.0	03/27/21 02:14	KJN	
Sulfate-Dissolved	200	0.50	mg/L	EPA 300.0	03/27/21 02:14	KJN	
Nitrate/Nitrite as N	21	0.20	mg/L	EPA 300.0	03/25/21 19:30	KJN	
Aggregate Properties							
Specific Conductance	1300	1.0	umhos/cm	SM 2510 B	04/05/21 09:48	BZB	
Solids							
Total Dissolved Solids	850	20	mg/L	SM 2540C	03/30/21 12:55	AMB	
General Inorganics							
Perchlorate	4.9	4.0	ug/L	EPA 314.0	03/26/21 17:20	KBS	
Nutrients							
Total Dissolved Phosphorus	0.057	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 7 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	03/24/21 11:56	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:17	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:07	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:17	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:16	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:53	AJH	
Total Chromium	1.2	1.0	ug/L	EPA 200.8	04/06/21 10:37	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:53	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 8 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	03/24/21 12:01	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	6.9	1.0	mg/L	EPA 200.7	03/29/21 18:26	HRL	N_pFilt
Calcium-Dissolved	150	1.0	mg/L	EPA 200.7	03/29/21 18:26	HRL	N_pFilt
Sodium-Dissolved	58	1.0	mg/L	EPA 200.7	03/29/21 18:26	HRL	N_pFilt
Total Hardness	580	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:24	HRL	
Calcium	150	1.0	mg/L	EPA 200.7	03/29/21 18:24	HRL	
Magnesium	49	1.0	mg/L	EPA 200.7	03/29/21 18:24	HRL	
Anions							
Nitrate as N	21	0.20	mg/L	EPA 300.0	03/25/21 19:43	KJN	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 19:43	KJN	
Sulfate-Dissolved	210	0.50	mg/L	EPA 300.0	03/27/21 02:54	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 19:43	KJN	
Chloride-Dissolved	160	1.0	mg/L	EPA 300.0	03/27/21 02:54	KJN	
Nitrate/Nitrite as N	21	0.20	mg/L	EPA 300.0	03/25/21 19:43	KJN	
Aggregate Properties							
Specific Conductance	1300	1.0	umhos/cm	SM 2510 B	04/05/21 09:50	BZB	
Solids							
Total Dissolved Solids	840	20	mg/L	SM 2540C	03/30/21 12:55	AMB	
General Inorganics							
Perchlorate	4.7	4.0	ug/L	EPA 314.0	03/26/21 17:36	KBS	
Nutrients							
Total Dissolved Phosphorus	0.060	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 9 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	03/24/21 12:01	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:26	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:26	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:09	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:24	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:55	AJH	
Total Chromium	1.1	1.0	ug/L	EPA 200.8	04/06/21 10:38	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:55	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 10 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW6	Water	03/24/21 13:00	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	65	1.0	mg/L	EPA 200.7	03/29/21 18:29	HRL	N_pFilt
Calcium-Dissolved	100	1.0	mg/L	EPA 200.7	03/29/21 18:29	HRL	N_pFilt
Potassium-Dissolved	4.7	1.0	mg/L	EPA 200.7	03/29/21 18:29	HRL	N_pFilt
Total Hardness	430	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:27	HRL	
Calcium	110	1.0	mg/L	EPA 200.7	03/29/21 18:27	HRL	
Magnesium	39	1.0	mg/L	EPA 200.7	03/29/21 18:27	HRL	
Anions							
Nitrate as N	3.4	0.20	mg/L	EPA 300.0	03/25/21 19:56	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 19:56	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 19:56	KJN	
Chloride-Dissolved	130	1.0	mg/L	EPA 300.0	03/27/21 03:07	KJN	
Sulfate-Dissolved	230	0.50	mg/L	EPA 300.0	03/27/21 03:07	KJN	
Nitrate/Nitrite as N	3.4	0.20	mg/L	EPA 300.0	03/25/21 19:56	KJN	
Aggregate Properties							
Specific Conductance	1000	1.0	umhos/cm	SM 2510 B	04/05/21 09:51	BZB	
Solids							
Total Dissolved Solids	680	10	mg/L	SM 2540C	03/30/21 12:55	AMB	
Nutrients							
Total Dissolved Phosphorus	0.055	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:29	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:11	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:29	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:27	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:57	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:39	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:57	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 11 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW30	Water	03/24/21 14:34	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	37	1.0	mg/L	EPA 200.7	03/29/21 18:33	HRL	N_pFilt
Potassium-Dissolved	4.5	1.0	mg/L	EPA 200.7	03/29/21 18:33	HRL	N_pFilt
Calcium-Dissolved	42	1.0	mg/L	EPA 200.7	03/29/21 18:33	HRL	N_pFilt
Total Hardness	170	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:31	HRL	
Calcium	43	1.0	mg/L	EPA 200.7	03/29/21 18:31	HRL	
Magnesium	14	1.0	mg/L	EPA 200.7	03/29/21 18:31	HRL	
Anions							
Nitrate as N	4.2	0.20	mg/L	EPA 300.0	03/25/21 20:09	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 20:09	KJN	
Chloride-Dissolved	37	1.0	mg/L	EPA 300.0	03/27/21 03:20	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 20:09	KJN	
Sulfate-Dissolved	73	0.50	mg/L	EPA 300.0	03/27/21 03:20	KJN	
Nitrate/Nitrite as N	4.2	0.20	mg/L	EPA 300.0	03/25/21 20:09	KJN	
Aggregate Properties							
Specific Conductance	470	1.0	umhos/cm	SM 2510 B	04/05/21 09:53	BZB	
Solids							
Total Dissolved Solids	310	10	mg/L	SM 2540C	03/30/21 12:55	AMB	
Nutrients							
Total Dissolved Phosphorus	0.057	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:33	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:13	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:33	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:31	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 19:59	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:40	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 19:59	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 12 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW29	Water	03/24/21 15:10	03/25/21 11:10

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	43	1.0	mg/L	EPA 200.7	03/29/21 18:37	HRL	N_pFilt
Potassium-Dissolved	ND	1.0	mg/L	EPA 200.7	03/29/21 18:37	HRL	N_pFilt
Calcium-Dissolved	ND	1.0	mg/L	EPA 200.7	03/29/21 18:37	HRL	N_pFilt
Total Hardness	ND	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:34	HRL	
Calcium	ND	1.0	mg/L	EPA 200.7	03/29/21 18:34	HRL	
Magnesium	ND	1.0	mg/L	EPA 200.7	03/29/21 18:34	HRL	
Anions							
Nitrate as N	ND	0.20	mg/L	EPA 300.0	03/25/21 20:22	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 20:22	KJN	
Sulfate-Dissolved	2.7	0.50	mg/L	EPA 300.0	03/27/21 03:33	KJN	
Chloride-Dissolved	15	1.0	mg/L	EPA 300.0	03/27/21 03:33	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 20:22	KJN	
Nitrate/Nitrite as N	ND	0.20	mg/L	EPA 300.0	03/25/21 20:22	KJN	
Aggregate Properties							
Specific Conductance	210	1.0	umhos/cm	SM 2510 B	04/05/21 09:55	BZB	
Solids							
Total Dissolved Solids	120	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	450	100	ug/L	EPA 200.7	03/29/21 18:37	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:15	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:37	HRL	N_pFilt
Aluminum	82	50	ug/L	EPA 200.7	03/29/21 18:34	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 20:02	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 11:15	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 20:02	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 13 of 16
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Laboratory Reference Number

C1C3245-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW27	Water	03/24/21 14:00	03/25/21 11:10

Analyte(s)	Result	RD L	Units	Method	Analysis Date	Analyst	Flag
Cations							
Calcium-Dissolved	89	1.0	mg/L	EPA 200.7	03/29/21 18:41	HRL	N_pFilt
Potassium-Dissolved	4.4	1.0	mg/L	EPA 200.7	03/29/21 18:41	HRL	N_pFilt
Sodium-Dissolved	53	1.0	mg/L	EPA 200.7	03/29/21 18:41	HRL	N_pFilt
Total Hardness	320	3.0	mg/L	SM 2340B/EPA 200.7	03/29/21 18:39	HRL	
Calcium	92	1.0	mg/L	EPA 200.7	03/29/21 18:39	HRL	
Magnesium	22	1.0	mg/L	EPA 200.7	03/29/21 18:39	HRL	
Anions							
Nitrate as N	4.7	0.20	mg/L	EPA 300.0	03/25/21 20:36	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/25/21 20:36	KJN	
Sulfate-Dissolved	200	0.50	mg/L	EPA 300.0	03/27/21 03:46	KJN	
Chloride-Dissolved	58	1.0	mg/L	EPA 300.0	03/27/21 03:46	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/25/21 20:36	KJN	
Nitrate/Nitrite as N	4.7	0.20	mg/L	EPA 300.0	03/25/21 20:36	KJN	
Aggregate Properties							
Specific Conductance	800	1.0	umhos/cm	SM 2510 B	04/05/21 09:56	BZB	
Solids							
Total Dissolved Solids	530	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:41	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	03/29/21 18:41	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:17	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	03/29/21 18:39	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	03/30/21 20:04	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:46	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/30/21 20:04	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 14 of 16
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C

Notes and Definitions

.MCNotify Notified Chuck Houser & Begonia Heffel Via email and voice mail 3/29/21 regarding MCL exceedance

.MCNotify Notified Chuck Houser and Begonia Heffel via email and voice mail 3/30/21 regarding MCL exceedance

N_pFilt Sample filtered and preserved upon receipt to the laboratory.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

* / ' : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

KayeLani A. Marshall

cc:

e-Short_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

mailing
P.O Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 15 of 16
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C



6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: <u>SCS Engineers</u>	Contact: <u>Chuck Houser</u>	Fax No.	Additional Reporting Requests Include QC Data Package: <input type="checkbox"/> Yes <input type="checkbox"/> No FAX Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Email Results: <input type="checkbox"/> Yes <input type="checkbox"/> No State EDT: <input type="checkbox"/> Yes <input type="checkbox"/> No (Include Source Number in Notes)
Phone No. <u>858.705.5523</u>	email: <u>CHouser@scsengineers.com</u>		
Project Name: <u>San Luis Rey</u>	Turn Around Time: <u>Routine</u> *72 Hour Rush *48 Hour Rush *24 Hour Rush		
Project Location: <u># 01221001.00</u>	*Lab TAT Approval: By: _____ *Additional Charges Apply		

Sampler Information			# of Containers & Preservatives							Total # of Containers	Sample Type			Analysis Requested	Matrix	Notes	
Name:	Employer:	Signature:	Unpreserved	H ₂ SO ₄	HCl	HNO ₃	Na ₂ S ₂ O ₈	NaOH	NaOH/Zn Acetate		NH ₄ Cl	PDC	Routine				Resample
<u>Allison O'Neal</u>	<u>SCS Engineers</u>	<u>Allison O'Neal</u>															
Sample ID	Date	Time															
<u>MWS</u>	<u>3/24/21</u>	<u>10:15</u>			X									X			
<u>MWS</u>	<u>3/24/21</u>	<u>10:15</u>	X												X	<u>x 2</u>	
<u>MW1</u>		<u>11:10</u>			X									X			
<u>MW1</u>		<u>11:10</u>	X												X	<u>x 2</u>	
<u>MW4</u>		<u>11:56</u>			X									X			
<u>MW4</u>		<u>11:56</u>	X												X	<u>x 2</u>	
<u>MW4</u>		<u>12:01</u>			X									X			
<u>MW4</u>		<u>12:01</u>	X												X	<u>x 2</u>	
<u>MW6</u>		<u>13:00</u>			X									X			
<u>MW6</u>		<u>13:00</u>	X												X		

Relinquished By (sign)	Print Name / Company	Date / Time	Received By (sign)	Print Name / Company
<u>Allison O'Neal</u>	<u>Allison O'Neal / SCS</u>	<u>3/24/21 16:46</u>	<u>GLS</u>	<u>GLS</u>
<u>GLS</u>	<u>GLS</u>	<u>3/25/21 11:10</u>	<u>RL</u>	<u>ROSEMARIE LOPEZ / SCS</u>

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria TU #61

Sample(s) Submitted on Ice? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample meets laboratory acceptance criteria? <input type="radio"/> Yes <input checked="" type="radio"/> No
Custody Seal(s) Intact? <input type="radio"/> Yes <input checked="" type="radio"/> No	Permission to continue: <input type="radio"/> Yes <input checked="" type="radio"/> No
Sample(s) Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No	Deviation/Notes: <u>AND TEMP. WATER ON FILE RL</u>
Temperature: <u>13</u> °C <input type="checkbox"/> Cooler Blank	Signature/Date: <u>3/25/21</u>

C1C3245
Rc'd: 03/25/2021 11:10
SNL



Rev. 6/16

mailing
P.O Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

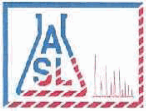
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 16 of 16
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 08-Apr-2021

Work Order Number: C1C3245

Received on Ice (Y/N): No Temp: 13 °C



ESB
AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page 2 of 2

COC# No. 88348 GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS	Report To:	ANALYSIS REQUESTED Al, Ar, Cr, Zn, Hachness Dissolved Boron, Ca Chloride, Iron, Manganese Nitrate, K, Mg, Sulfate Nitrate + Nitrite Spec conductivity, Phosphate TDS
Address:	Address:	
Project Name: San Luis Rey	Invoice To:	
Site Address:	Address:	
Telephone: See page	Project ID: 01221001.00	
Special Instruction:	Project Manager:	
E-mail:	P.O.#:	

ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation	Remarks
	Lab ID	Sample ID	Date	Time	#	Type					
		MW30	3/24/21	1434	1	plastic	groundwater (GW)	HNO3	X		
		MW30		1434	1			ice			
		MW29		1510	1			HNO3	X		
		MW29		1510	1			rce			
		MW27		1400	1			HNO3	X		
		MW27		1400	1						

C1C3245

Rc'd: 03/25/2021 11:10
SNL



Collected By: <i>Althea</i>	Date: 3/24/21	Time: 1653	Relinquished By: <i>CLS</i>	Date: 3/25/21	Time: 1000	TAT <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush
Relinquished By: <i>Althea</i>	Date: 3/24/21	Time: 1653	Received For Laboratory: <i>ROSEMARIE COOK</i>	Date: 3/25/21	Time: 1110	
Received By: <i>CLS</i>	Date: 3/25/21	Time: 1000	Condition of Sample:			

White - Report, Yellow - Laboratory, Pink - Client

CHAIN OF CUSTODY RECORD

mailing
P.O Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 1 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1C3353-01	MW2	Water	03/25/21 09:33	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-02	MW25	Water	03/25/21 10:47	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-03	MW12	Water	03/25/21 11:50	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-04	MW9	Water	03/25/21 12:32	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-05	MW9	Water	03/25/21 12:35	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-06	MW22	Water	03/25/21 14:04	Allison O'Neal	03/26/21 11:47	GLS
C1C3353-07	MW21	Water	03/25/21 14:56	Allison O'Neal	03/26/21 11:47	GLS



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW2	Water	03/25/21 09:33	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	6.9	2.0	mg/L	EPA 200.7	04/01/21 18:24	AZP	N_pFilt
Sodium-Dissolved	43	2.0	mg/L	EPA 200.7	04/01/21 18:24	AZP	N_pFilt
Calcium-Dissolved	75	2.0	mg/L	EPA 200.7	04/01/21 18:24	AZP	N_pFilt
Total Hardness	270	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 18:24	AZP	
Calcium	89	1.0	mg/L	EPA 200.7	04/01/21 17:10	AZP	
Magnesium	24	1.0	mg/L	EPA 200.7	04/01/21 17:10	AZP	
Anions							
Nitrate as N	8.7	0.20	mg/L	EPA 300.0	03/26/21 18:54	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 18:54	KJN	
Chloride-Dissolved	81	1.0	mg/L	EPA 300.0	03/26/21 19:07	KJN	
Sulfate-Dissolved	130	0.50	mg/L	EPA 300.0	03/26/21 19:07	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 19:07	KJN	
Nitrate/Nitrite as N	8.7	0.20	mg/L	EPA 300.0	03/26/21 18:54	KJN	
Aggregate Properties							
Specific Conductance	790	1.0	umhos/cm	SM 2510 B	04/06/21 13:56	BZB	
Solids							
Total Dissolved Solids	490	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	0.055	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:28	AJH	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:24	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:24	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 18:24	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 18:49	AJH	
Total Chromium	2.4	1.0	ug/L	EPA 200.8	04/06/21 10:49	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 18:49	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW25	Water	03/25/21 10:47	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	78	2.0	mg/L	EPA 200.7	04/01/21 18:26	AZP	N_pFilt
Potassium-Dissolved	2.6	2.0	mg/L	EPA 200.7	04/01/21 18:26	AZP	N_pFilt
Calcium-Dissolved	33	2.0	mg/L	EPA 200.7	04/01/21 18:26	AZP	N_pFilt
Total Hardness	96	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:17	AZP	
Calcium	34	1.0	mg/L	EPA 200.7	04/01/21 17:17	AZP	
Magnesium	2.6	1.0	mg/L	EPA 200.7	04/01/21 17:17	AZP	
Anions							
Nitrate as N	1.6	0.20	mg/L	EPA 300.0	03/26/21 19:20	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 19:20	KJN	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	03/26/21 19:33	KJN	
Chloride-Dissolved	33	1.0	mg/L	EPA 300.0	03/26/21 19:33	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 19:33	KJN	
Nitrate/Nitrite as N	1.6	0.20	mg/L	EPA 300.0	03/26/21 19:20	KJN	
Aggregate Properties							
Specific Conductance	590	1.0	umhos/cm	SM 2510 B	04/06/21 12:10	BZB	
Solids							
Total Dissolved Solids	340	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:30	AJH	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:26	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:26	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:17	AZP	NLOhND
Arsenic	4.1	2.0	ug/L	EPA 200.8	03/31/21 18:59	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:50	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 18:59	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW12	Water	03/25/21 11:50	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	120	2.0	mg/L	EPA 200.7	04/01/21 18:28	AZP	N_pFilt
Potassium-Dissolved	5.8	2.0	mg/L	EPA 200.7	04/01/21 18:28	AZP	N_pFilt
Calcium-Dissolved	180	2.0	mg/L	EPA 200.7	04/01/21 18:28	AZP	N_pFilt
Total Hardness	780	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:19	AZP	
Calcium	190	1.0	mg/L	EPA 200.7	04/01/21 17:19	AZP	
Magnesium	73	1.0	mg/L	EPA 200.7	04/01/21 17:19	AZP	
Anions							
Nitrate as N	2.8	0.20	mg/L	EPA 300.0	03/26/21 19:46	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 19:46	KJN	
Sulfate-Dissolved	560	2.5	mg/L	EPA 300.0	03/27/21 10:12	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 20:57	KJN	
Chloride-Dissolved	260	5.0	mg/L	EPA 300.0	03/27/21 10:12	KBS	
Nitrate/Nitrite as N	2.8	0.20	mg/L	EPA 300.0	03/26/21 19:46	KJN	
Aggregate Properties							
Specific Conductance	1900	1.0	umhos/cm	SM 2510 B	04/06/21 13:58	BZB	
Solids							
Total Dissolved Solids	1400	20	mg/L	SM 2540C	03/30/21 14:57	AMB	
General Inorganics							
Perchlorate	ND	4.0	ug/L	EPA 314.0	03/29/21 21:27	KL	NCALhND
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 5 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW12	Water	03/25/21 11:50	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:28	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:28	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:32	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:19	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 19:01	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:52	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 19:01	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 6 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW9	Water	03/25/21 12:32	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	3.8	2.0	mg/L	EPA 200.7	04/01/21 18:30	AZP	N_pFilt
Calcium-Dissolved	70	2.0	mg/L	EPA 200.7	04/01/21 18:30	AZP	N_pFilt
Sodium-Dissolved	52	2.0	mg/L	EPA 200.7	04/01/21 18:30	AZP	N_pFilt
Total Hardness	290	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:21	AZP	
Calcium	74	1.0	mg/L	EPA 200.7	04/01/21 17:21	AZP	
Magnesium	25	1.0	mg/L	EPA 200.7	04/01/21 17:21	AZP	
Anions							
Nitrate as N	2.5	0.20	mg/L	EPA 300.0	03/26/21 21:13	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 21:13	KJN	
Sulfate-Dissolved	150	0.50	mg/L	EPA 300.0	03/26/21 21:26	KJN	
Chloride-Dissolved	83	1.0	mg/L	EPA 300.0	03/26/21 21:26	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 21:26	KJN	
Nitrate/Nitrite as N	2.5	0.20	mg/L	EPA 300.0	03/26/21 21:13	KJN	
Aggregate Properties							
Specific Conductance	820	1.0	umhos/cm	SM 2510 B	04/06/21 12:11	BZB	
Solids							
Total Dissolved Solids	530	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	0.060	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:34	AJH	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:30	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:30	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:21	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 20:34	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:53	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 19:03	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 7 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW9	Water	03/25/21 12:35	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	51	2.0	mg/L	EPA 200.7	04/01/21 18:32	AZP	N_pFilt
Potassium-Dissolved	3.7	2.0	mg/L	EPA 200.7	04/01/21 18:32	AZP	N_pFilt
Calcium-Dissolved	70	2.0	mg/L	EPA 200.7	04/01/21 18:32	AZP	N_pFilt
Total Hardness	300	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:23	AZP	
Calcium	75	1.0	mg/L	EPA 200.7	04/01/21 17:23	AZP	
Magnesium	26	1.0	mg/L	EPA 200.7	04/01/21 17:23	AZP	
Anions							
Nitrate as N	2.6	0.20	mg/L	EPA 300.0	03/26/21 21:39	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 21:39	KJN	
Sulfate-Dissolved	150	0.50	mg/L	EPA 300.0	03/26/21 21:52	KJN	
Chloride-Dissolved	84	1.0	mg/L	EPA 300.0	03/26/21 21:52	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 21:52	KJN	
Nitrate/Nitrite as N	2.6	0.20	mg/L	EPA 300.0	03/26/21 21:39	KJN	
Aggregate Properties							
Specific Conductance	800	1.0	umhos/cm	SM 2510 B	04/06/21 12:13	BZB	
Solids							
Total Dissolved Solids	530	10	mg/L	SM 2540C	03/30/21 14:57	AMB	
Nutrients							
Total Dissolved Phosphorus	0.080	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:32	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:36	AJH	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:32	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:23	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 19:06	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:54	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 20:36	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 8 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW22	Water	03/25/21 14:04	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	63	2.0	mg/L	EPA 200.7	04/01/21 18:40	AZP	N_pFilt
Potassium-Dissolved	5.9	2.0	mg/L	EPA 200.7	04/01/21 18:40	AZP	N_pFilt
Calcium-Dissolved	160	2.0	mg/L	EPA 200.7	04/01/21 18:40	AZP	N_pFilt
Total Hardness	630	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:25	AZP	
Calcium	170	1.0	mg/L	EPA 200.7	04/01/21 17:25	AZP	
Magnesium	46	1.0	mg/L	EPA 200.7	04/01/21 17:25	AZP	
Anions							
Nitrate as N	23	0.20	mg/L	EPA 300.0	03/26/21 22:05	KJN	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 22:05	KJN	
Sulfate-Dissolved	380	2.5	mg/L	EPA 300.0	03/27/21 10:52	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 22:19	KJN	
Chloride-Dissolved	180	1.0	mg/L	EPA 300.0	03/26/21 22:19	KJN	
Nitrate/Nitrite as N	23	0.20	mg/L	EPA 300.0	03/26/21 22:05	KJN	
Aggregate Properties							
Specific Conductance	1500	1.0	umhos/cm	SM 2510 B	04/06/21 14:00	BZB	
Solids							
Total Dissolved Solids	1100	20	mg/L	SM 2540C	03/31/21 14:42	AMB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:40	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:38	AJH	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:40	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:25	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 19:08	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 10:55	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 19:08	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 9 of 12
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Laboratory Reference Number

C1C3353-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW21	Water	03/25/21 14:56	03/26/21 11:47

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	82	2.0	mg/L	EPA 200.7	04/01/21 18:41	AZP	N_pFilt
Potassium-Dissolved	2.0	2.0	mg/L	EPA 200.7	04/01/21 18:41	AZP	N_pFilt
Calcium-Dissolved	52	2.0	mg/L	EPA 200.7	04/01/21 18:41	AZP	N_pFilt
Total Hardness	190	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:27	AZP	
Calcium	57	1.0	mg/L	EPA 200.7	04/01/21 17:27	AZP	
Magnesium	10	1.0	mg/L	EPA 200.7	04/01/21 17:27	AZP	
Anions							
Nitrate as N	10	0.20	mg/L	EPA 300.0	03/26/21 22:32	KJN	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/26/21 22:32	KJN	
Sulfate-Dissolved	200	0.50	mg/L	EPA 300.0	03/26/21 22:45	KJN	
Chloride-Dissolved	81	1.0	mg/L	EPA 300.0	03/26/21 22:45	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/26/21 22:45	KJN	
Nitrate/Nitrite as N	10	0.20	mg/L	EPA 300.0	03/26/21 22:32	KJN	
Aggregate Properties							
Specific Conductance	810	1.0	umhos/cm	SM 2510 B	04/06/21 14:02	BZB	
Solids							
Total Dissolved Solids	530	10	mg/L	SM 2540C	03/31/21 14:42	AMB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Metals and Metalloids							
Boron-Dissolved	200	200	ug/L	EPA 200.7	04/01/21 18:41	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:41	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	03/31/21 20:40	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:27	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	03/31/21 19:10	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 11:00	AJH	
Zinc	ND	50	ug/L	EPA 200.8	03/31/21 19:10	AJH	



Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 10 of 12
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

Notes and Definitions

- .MCNotify Notified Chuck Houser & Begonia Heffel Via email and voice mail 3/29/21 regarding MCL exceedance
- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- NCALhNI Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, therefore data not impacted.
- NLOhND LCS recovery was above method control limit for this analyte. Analyte not detected, therefore data not impacted.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

KayeLani A. Marshall

cc:

e-Short_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 11 of 12
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C

ESB
BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: <u>SCS Engineers</u>		Contact: <u>Chuck Houser</u>		FAX No.		Additional Reporting Requests	
Phone No. <u>858 805 5523</u>		email: <u>CHouser@scsengineers.com</u>				Include QC Data Package: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Name: <u>San Luis Rey</u>		Turn Around Time: <u>Routing</u>		*72 Hour Rush *48 Hour Rush *24 Hour Rush		FAX Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Location: <u># 01221001.60</u>		*Lab TAT Approval:		By:		Email Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler Information		# of Containers & Preservatives		Sample Type		Matrix	
Name: <u>Allison O'Neal</u>		Unpreserved		Routine		DW = Drinking Water	
Employer: <u>SCS Engineers</u>		H ₂ SO ₄		Resample		WW = Waste Water	
Signature: <u>[Signature]</u>		HCl		Special		GW = Ground Water	
Sample ID		HNO ₃		Aluminum, Arsenic, Chromium, Zinc, Manganese, Dissolved Boron, Ca, Chloride, Iron, Nitrate, K, Magnesium, Manganese, Nitrite, Phosphate, Silicate, Sulfate, Special count, Prostate		S = Source	
Date	Time	NaOH		Perch/Dr. Fe		SG = Sludge	
		NaOH/Zn Acetate				L = Liquid	
		NH ₄ Cl				M = Miscellaneous	
		PDC					
		Total # of Containers					

Sample ID	Date	Time	H ₂ SO ₄	HCl	HNO ₃	NaOH	NaOH/Zn Acetate	NH ₄ Cl	PDC	Total # of Containers	Routine	Resample	Special	Perch/Dr. Fe	Matrix	Notes
MW 2	3/25/21	9:33			X											
MW 2		9:33	X												GW	
MW 25		10:47			X											
MW 25		10:47	X													
MW 12		1150			X											
MW 12		1150	X													
MW 9		1232			X									X		
MW 9		1232	X													
MW 9		1235			X											
MW 9		1235	X													

Relinquished By (sign)	Print Name / Company	Date / Time	Received By (sign)	Print Name / Company
<u>[Signature]</u>	<u>Allison O'Neal / SCS</u>	<u>3/25/21 10:53</u>	<u>[Signature]</u>	<u>[Signature]</u>
<u>[Signature]</u>		<u>3/24/21 11:47</u>	<u>[Signature]</u>	<u>[Signature]</u>

on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(Use Only) Sample Integrity Upon Receipt/Acceptance Criteria Per # 72

Submitted on Ice? Yes No

Seals Intact? Yes No NA

Sample meets laboratory acceptance criteria? Yes No

Permission to continue: Yes No

Deviation/Notes: _____

Signature/Date: _____


°C Cooler Blank

C1C3353

RC'd: 03/26/2021 11:47

SNL

Page 1 of 1





BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

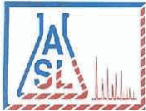
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 12 of 12
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 09-Apr-2021

Work Order Number: C1C3353

Received on Ice (Y/N): Yes Temp: 4 °C



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page 2 of 2

COC# NO **86051** GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS Engineers	Report To:	ANALYSIS REQUESTED Aluminum, Arsenic, Chromium, Zink, Hexavalent Dissolved Boron, Cadmium, Iron, Manganese, Nitrate, Nitrite, Special Metals, Phosphorus, TDS
Address:	Address:	
Project Name: San Luis Rey	Invoice To:	
Site Address:	Address:	
Telephone: Fax:	Address:	
Special Instruction: See Page 1	Project ID: 01221001.00	P.O.#:
E-mail:	Project Manager:	

ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation	Remarks
	Lab ID	Sample ID	Date	Time	#	Type					
		MW22	3/25/21	1404	1	plastic	Ground water	HNO3	X		
		MW22		1404				Ice			
		MW21		1456				HNO3	X		
		MW21		1456				Ice			

C1C3353

Rc'd: 03/26/2021 11:47
SNL



4 °C T_{in} #12
On Ice YES NO
Samples Intact YES NO
TAG #154

Collected By: <i>[Signature]</i>	Date: 3/25/21	Time: 1456	Relinquished By: GLS	Date:	Time:	TAT
Relinquished By: <i>[Signature]</i>	Date: 3/25/21	Time: 17:00	Received For Laboratory: ROSEMARIE COPEL	Date: 3/24/21	Time: 1147	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush
Received By: GLS	Date:	Time:	Condition of Sample:			

White - Report, Yellow - Laboratory, Pink - Client

CHAIN OF CUSTODY RECORD

mailing
P.O Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 1 of 6
Project Number: San Luis Rey
Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1C3601-01	MW18	Water	03/29/21 08:35	Allison O'Neal	03/30/21 12:02	GLS
C1C3601-02	MW18	Water	03/29/21 08:38	Allison O'Neal	03/30/21 12:02	GLS
C1C3601-03	MW19	Water	03/29/21 09:25	Allison O'Neal	03/30/21 12:02	GLS



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 6
 Project Number: San Luis Rey
 Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1 °C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1C3601-01 <i>Sampled: 03/29/21 08:35</i>							
MW18							
Sodium-Dissolved	57	2.0	mg/L	EPA 200.7	04/01/21 18:44	AZP	N_pFilt
Calcium-Dissolved	12	2.0	mg/L	EPA 200.7	04/01/21 18:44	AZP	N_pFilt
Potassium-Dissolved	ND	2.0	mg/L	EPA 200.7	04/01/21 18:44	AZP	N_pFilt
Total Hardness	38	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:29	AZP	
Calcium	13	1.0	mg/L	EPA 200.7	04/01/21 17:29	AZP	
Magnesium	1.2	1.0	mg/L	EPA 200.7	04/01/21 17:29	AZP	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Sulfate-Dissolved	94	0.50	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Chloride-Dissolved	18	1.0	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Nitrate/Nitrite as N	ND	0.20	mg/L	EPA 300.0	03/30/21 16:07	KJN	
Specific Conductance	340	1.0	umhos/cm	SM 2510 B	04/07/21 07:47	BZB	
Total Dissolved Solids	240	10	mg/L	SM 2540C	04/01/21 09:06	YVD	
Total Dissolved Phosphorus	0.23	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:44	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:44	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	04/02/21 15:35	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:29	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	04/02/21 15:29	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 11:52	AJH	
Zinc	ND	50	ug/L	EPA 200.8	04/02/21 15:29	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 6
 Project Number: San Luis Rey
 Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1 °C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1C3601-02 <i>Sampled: 03/29/21 08:38</i>							
MW18							
Sodium-Dissolved	58	2.0	mg/L	EPA 200.7	04/01/21 18:46	AZP	N_pFilt
Calcium-Dissolved	12	2.0	mg/L	EPA 200.7	04/01/21 18:46	AZP	N_pFilt
Potassium-Dissolved	ND	2.0	mg/L	EPA 200.7	04/01/21 18:46	AZP	N_pFilt
Total Hardness	37	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:31	AZP	
Calcium	13	1.0	mg/L	EPA 200.7	04/01/21 17:31	AZP	
Magnesium	1.2	1.0	mg/L	EPA 200.7	04/01/21 17:31	AZP	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Sulfate-Dissolved	94	0.50	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Chloride-Dissolved	18	1.0	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Nitrate/Nitrite as N	ND	0.20	mg/L	EPA 300.0	03/30/21 16:20	KJN	
Specific Conductance	340	1.0	umhos/cm	SM 2510 B	04/07/21 07:49	BZB	
Total Dissolved Solids	220	10	mg/L	SM 2540C	04/01/21 09:06	YVD	
Total Dissolved Phosphorus	0.080	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:46	AZP	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:46	AZP	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	04/02/21 15:37	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:31	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	04/02/21 15:31	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 11:53	AJH	
Zinc	ND	50	ug/L	EPA 200.8	04/02/21 15:31	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 6
 Project Number: San Luis Rey
 Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1 °C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1C3601-03 <i>Sampled: 03/29/21 09:25</i>							
MW19							
Calcium-Dissolved	83	2.0	mg/L	EPA 200.7	04/01/21 18:48	AZP	N_pFilt
Sodium-Dissolved	35	2.0	mg/L	EPA 200.7	04/01/21 18:48	AZP	N_pFilt
Potassium-Dissolved	4.6	2.0	mg/L	EPA 200.7	04/01/21 18:48	AZP	N_pFilt
Total Hardness	330	6.0	mg/L	SM 2340B/EPA 200.7	04/01/21 17:34	AZP	
Calcium	87	1.0	mg/L	EPA 200.7	04/01/21 17:34	AZP	
Magnesium	27	1.0	mg/L	EPA 200.7	04/01/21 17:34	AZP	
Nitrate as N	9.8	0.20	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Sulfate-Dissolved	160	0.50	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Chloride-Dissolved	78	1.0	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Nitrate/Nitrite as N	9.8	0.20	mg/L	EPA 300.0	03/30/21 16:33	KJN	
Specific Conductance	790	1.0	umhos/cm	SM 2510 B	04/07/21 07:51	BZB	
Total Dissolved Solids	540	10	mg/L	SM 2540C	04/01/21 09:06	YVD	
Total Dissolved Phosphorus	0.083	0.050	mg/L	SM 4500P B E	04/05/21 12:30	DNF	
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	04/02/21 15:39	AJH	N_pFilt
Iron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:48	AZP	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	04/01/21 18:48	AZP	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	04/01/21 17:34	AZP	NLOhND
Arsenic	ND	2.0	ug/L	EPA 200.8	04/02/21 15:33	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	04/06/21 11:54	AJH	
Zinc	ND	50	ug/L	EPA 200.8	04/02/21 15:33	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 5 of 6
Project Number: San Luis Rey
Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1°C

Notes and Definitions

- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- NLOhND LCS recovery was above method control limit for this analyte. Analyte not detected, therefore data not impacted.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

DeAnna Lynn Tillman For KayeLani A. Marshall

cc:

e-Tab_Summary.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

mailing
P.O. Box 432
Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

P 951 653 3351
F 951 653 1662
www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No., 10119



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 6 of 6
Project Number: San Luis Rey
Project Name: Water Sample Analysis - 2021

Report Date: 12-Apr-2021

Work Order Number: C1C3601

Received on Ice (Y/N): Yes Temp: 1°C



6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information R

Client: <u>SCS Engineers</u>		Contact: <u>Chuck Houser</u>		Fax No.		Additional Reporting Requests											
Phone No. <u>858.805.5523</u>		email: <u>chouser@scsengineers.com</u>				Include QC Data Package: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Project Name: <u>San Luis Rey</u>		Turn Around Time: <u>Routine</u>		*72 Hour Rush *48 Hour Rush *24 Hour Rush		FAX Results: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Project Location: <u>#0122100600</u>		*Lab TAT Approval:		By:		Email Results: <input type="checkbox"/> Yes <input type="checkbox"/> No											
						State EDT: <input type="checkbox"/> Yes <input type="checkbox"/> No											
						(Include Source Number in Notes)											
*Additional Charges Apply																	
Sampler Information			# of Containers & Preservatives				Sample Type		Analysis Requested		Matrix		Notes				
Name: <u>Allison Oval</u>			Unpreserved	HCl	HNO ₃	Na ₂ S ₂ O ₃	NaOH	NaOH/Zn Acetate	NH ₄ Cl	PDC	Total # of Containers	Routine	Resample	Special			
Employer: <u>SCS Engineers</u>																	
Signature: <u>Allison Oval</u>																	
Sample ID	Date	Time	Unpreserved	HCl	HNO ₃	Na ₂ S ₂ O ₃	NaOH	NaOH/Zn Acetate	NH ₄ Cl	PDC	Total # of Containers	Routine	Resample	Special	Analysis Requested	Matrix	Notes
MW18	3/29/21	835			X										X	GW	
MW18		835	X														
MW18		838			X										X		
MW18		838	X														
MW19		925			X										X		
MW19		925	X														
Relinquished By (sign)			Print Name / Company			Date / Time			Received By (sign)			Print Name / Company					
<u>Allison Oval</u>			<u>Allison Oval / SCS</u>			<u>3/29/21 11:20</u>			<u>GLS</u>			<u>GLS</u>					
<u>GLS</u>			<u>GLS</u>			<u>3/30/21 12:02</u>			<u>RC</u>			<u>ROSEMARIE LOPEZ@SCS</u>					

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria TG#02

Sample(s) Submitted on Ice? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample meets laboratory acceptance criteria? <input checked="" type="radio"/> Yes <input type="radio"/> No
Custody Seal(s) Intact? <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No	Permission to continue: <input checked="" type="radio"/> Yes <input type="radio"/> No
Sample(s) Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No	Deviation/Notes: _____
Temperature: <u>1</u> <input checked="" type="radio"/> <input type="checkbox"/> Cooler Blank	Signature/Date: _____

C1C3601

Rc'd: 03/30/2021 12:02
SNL



Rev. 6/15



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 1 of 8
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1J1574-01	MW30	Water	10/12/21 08:40	Allison O'Neal	10/13/21 09:48	GLS
C1J1574-02	MW18	Water	10/12/21 10:32	Allison O'Neal	10/13/21 09:48	GLS
C1J1574-03	MW19	Water	10/12/21 11:10	Allison O'Neal	10/13/21 09:48	GLS
C1J1574-04	MW19	Water	10/12/21 11:12	Allison O'Neal	10/13/21 09:48	GLS
C1J1574-05	MW29	Water	10/12/21 13:02	Allison O'Neal	10/13/21 09:48	GLS



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 8
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

C1J1574-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW30	Water	10/12/21 08:40	10/13/21 9:48

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	38	1.0	mg/L	EPA 200.7	10/20/21 18:18	HRL	N_pFilt
Calcium-Dissolved	39	1.0	mg/L	EPA 200.7	10/20/21 18:18	HRL	N_pFilt
Potassium-Dissolved	4.3	1.0	mg/L	EPA 200.7	10/20/21 18:18	HRL	N_pFilt
Total Hardness	150	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:16	HRL	
Calcium	40	1.0	mg/L	EPA 200.7	10/20/21 18:16	HRL	
Magnesium	13	1.0	mg/L	EPA 200.7	10/20/21 18:16	HRL	
Anions							
Nitrate as N	5.2	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Sulfate-Dissolved	65	0.50	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Chloride-Dissolved	41	1.0	mg/L	EPA 300.0	10/13/21 22:28	KJN	
Nitrate/Nitrite as N	5.2	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Aggregate Properties							
Specific Conductance	470	1.0	umhos/cm	SM 2510 B	10/15/21 17:33	BAA	
Solids							
Total Dissolved Solids	200	10	mg/L	SM 2540C	10/15/21 13:56	AXM	
Nutrients							
Total Dissolved Phosphorus	0.063	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:18	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 16:10	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:18	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:16	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/18/21 17:34	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	10/21/21 15:24	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/18/21 17:34	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 8
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

C1J1574-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW18	Water	10/12/21 10:32	10/13/21 9:48

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	ND	1.0	mg/L	EPA 200.7	10/20/21 18:22	HRL	N_pFilt
Calcium-Dissolved	8.0	1.0	mg/L	EPA 200.7	10/20/21 18:22	HRL	N_pFilt
Sodium-Dissolved	56	1.0	mg/L	EPA 200.7	10/20/21 18:22	HRL	N_pFilt
Total Hardness	23	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:20	HRL	
Calcium	8.3	1.0	mg/L	EPA 200.7	10/20/21 18:20	HRL	
Magnesium	ND	1.0	mg/L	EPA 200.7	10/20/21 18:20	HRL	
Anions							
Nitrate as N	ND	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Chloride-Dissolved	20	1.0	mg/L	EPA 300.0	10/13/21 22:42	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Sulfate-Dissolved	84	0.50	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrate/Nitrite as N	ND	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Aggregate Properties							
Specific Conductance	320	1.0	umhos/cm	SM 2510 B	10/15/21 17:35	BAA	
Solids							
Total Dissolved Solids	210	10	mg/L	SM 2540C	10/15/21 13:56	AXM	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 16:13	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:22	HRL	N_pFilt
Boron-Dissolved	160	100	ug/L	EPA 200.7	10/20/21 18:22	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:20	HRL	
Arsenic	3.0	2.0	ug/L	EPA 200.8	10/18/21 17:36	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	10/21/21 15:27	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/18/21 17:36	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 8
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

C1J1574-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW19	Water	10/12/21 11:10	10/13/21 9:48

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	37	1.0	mg/L	EPA 200.7	10/20/21 18:26	HRL	N_pFilt
Calcium-Dissolved	92	1.0	mg/L	EPA 200.7	10/20/21 18:26	HRL	N_pFilt
Potassium-Dissolved	4.7	1.0	mg/L	EPA 200.7	10/20/21 18:26	HRL	N_pFilt
Total Hardness	370	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:25	HRL	
Calcium	96	1.0	mg/L	EPA 200.7	10/20/21 18:25	HRL	
Magnesium	31	1.0	mg/L	EPA 200.7	10/20/21 18:25	HRL	
Anions							
Nitrate as N	11	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	.MCOK
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Chloride-Dissolved	86	1.0	mg/L	EPA 300.0	10/13/21 22:56	KJN	
Nitrate/Nitrite as N	11	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Aggregate Properties							
Specific Conductance	860	1.0	umhos/cm	SM 2510 B	10/15/21 17:37	BAA	
Solids							
Total Dissolved Solids	560	10	mg/L	SM 2540C	10/15/21 13:56	AXM	
Nutrients							
Total Dissolved Phosphorus	0.057	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:26	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 16:15	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:26	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:25	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/18/21 17:38	AJH	
Total Chromium	1.1	1.0	ug/L	EPA 200.8	10/21/21 15:30	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/18/21 17:38	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 5 of 8
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

C1J1574-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW19	Water	10/12/21 11:12	10/13/21 9:48

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Potassium-Dissolved	4.8	1.0	mg/L	EPA 200.7	10/20/21 18:30	HRL	N_pFilt
Sodium-Dissolved	37	1.0	mg/L	EPA 200.7	10/20/21 18:30	HRL	N_pFilt
Calcium-Dissolved	92	1.0	mg/L	EPA 200.7	10/20/21 18:30	HRL	N_pFilt
Total Hardness	370	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:28	HRL	
Calcium	95	1.0	mg/L	EPA 200.7	10/20/21 18:28	HRL	
Magnesium	31	1.0	mg/L	EPA 200.7	10/20/21 18:28	HRL	
Anions							
Nitrate as N	11	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	.MCOK
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Chloride-Dissolved	86	1.0	mg/L	EPA 300.0	10/13/21 23:37	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrate/Nitrite as N	11	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Aggregate Properties							
Specific Conductance	860	1.0	umhos/cm	SM 2510 B	10/15/21 17:38	BAA	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	10/14/21 21:53	AZB	
Nutrients							
Total Dissolved Phosphorus	0.063	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 16:18	AJH	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:30	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:30	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:28	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/18/21 17:40	AJH	
Total Chromium	1.1	1.0	ug/L	EPA 200.8	10/21/21 15:45	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/18/21 17:40	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 6 of 8
 Project Name: Water Sample Analysis - 2021
 Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Laboratory Reference Number

C1J1574-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW29	Water	10/12/21 13:02	10/13/21 9:48

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	42	1.0	mg/L	EPA 200.7	10/20/21 18:39	HRL	N_pFilt
Calcium-Dissolved	ND	1.0	mg/L	EPA 200.7	10/20/21 18:39	HRL	N_pFilt
Potassium-Dissolved	ND	1.0	mg/L	EPA 200.7	10/20/21 18:39	HRL	N_pFilt
Total Hardness	ND	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:37	HRL	
Calcium	ND	1.0	mg/L	EPA 200.7	10/20/21 18:37	HRL	
Magnesium	ND	1.0	mg/L	EPA 200.7	10/20/21 18:37	HRL	
Anions							
Nitrate as N	ND	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Chloride-Dissolved	16	1.0	mg/L	EPA 300.0	10/13/21 23:54	KJN	
Sulfate-Dissolved	1.8	0.50	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Nitrate/Nitrite as N	ND	0.20	mg/L	EPA 300.0	10/13/21 16:32	KJN	
Aggregate Properties							
Specific Conductance	200	1.0	umhos/cm	SM 2510 B	10/15/21 17:40	BAA	
Solids							
Total Dissolved Solids	130	10	mg/L	SM 2540C	10/14/21 21:53	AZB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:39	HRL	N_pFilt
Boron-Dissolved	440	100	ug/L	EPA 200.7	10/20/21 18:39	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 16:36	AJH	N_pFilt
Aluminum	77	50	ug/L	EPA 200.7	10/20/21 18:37	HRL	
Arsenic	5.7	2.0	ug/L	EPA 200.8	10/18/21 17:42	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	10/21/21 15:47	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/18/21 17:42	AJH	



Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 7 of 8
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C

Notes and Definitions

- .MCOk MCL notification waived by client. Waiver on file.
- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

KayeLani A. Marshall

cc:

e-Short_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 8 of 8
Project Name: Water Sample Analysis - 2021
Project Number: San Luis Rey

Report Date: 04-Nov-2021

Work Order Number: C1J1574

Received on Ice (Y/N): Yes Temp: 5 °C



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
www.babcocklabs.com

Chain of Custody & Sample Information Record

Client: <u>SCS Engineers</u>		Contact: <u>Chuck Houser</u>		Fax No.		Additional Reporting Requests	
Phone No. <u>858.805.5523</u>		email: <u>CHouser@scsengineers.com</u>				Include QC Data Package: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Name: <u>San Luis Rey</u>		Turn Around Time: <u>Routine</u>		*72 Hour Rush *48 Hour Rush *24 Hour Rush		FAX Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Location: <u># 01221001.00</u>		*Lab TAT Approval:		By:		Email Results: <input type="checkbox"/> Yes <input type="checkbox"/> No	
						State EDT: <input type="checkbox"/> Yes <input type="checkbox"/> No	
						(Include Source Number in Notes)	
Sampler Information		# of Containers & Preservatives		Sample Type		Analysis Requested	
Name: <u>Allison O'Neal</u>		Unpreserved <u>075</u>		Routine		Matrix	
Employer: <u>SCS Engineers</u>		H ₂ SO ₄		Resample		DW = Drinking Water	
Signature: <u>Allison O'Neal</u>		HCl		Special		WW = Waste Water	
		HNO ₃		Aluminum, Arsenic, Chromium, Zink		GW = Ground Water	
		Na ₂ SO ₃		Dissolved Boron, Ca, Chloride, Iron, Manganese, Nitrate + Nitrite		S = Source	
		NaOH		Nitrate, K, Na, Sulfate		SG = Sludge	
		NaOH/Zn Acetate		Special Lead, Phos		L = Liquid	
		NH ₄ Cl		TDS		M = Miscellaneous	
		PDC		Perchlorate			
		Total # of Containers					
Sample ID		Date		Time		Notes	
<u>MW30</u>		<u>10/12/21</u>		<u>840</u>		<u>GW</u>	
<u>MW30</u>				<u>840</u>			
<u>MW18</u>				<u>1032</u>			
<u>MW18</u>				<u>1032</u>			
<u>MW19</u>				<u>1110</u>			
<u>MW19</u>				<u>1110</u>			
<u>MW19</u>				<u>1112</u>			
<u>MW19</u>				<u>1112</u>			
<u>MW29</u>				<u>1300</u>			
<u>MW29</u>				<u>1300</u>			
Relinquished By (sign)		Print Name / Company		Date / Time		Received By (sign)	
<u>Allison O'Neal</u>		<u>Allison O'Neal / SCS</u>		<u>10/12/21 1700</u>		<u>GIS</u>	
		<u>GIS</u>		<u>10/13/21 0948</u>		<u>Sam R.</u>	

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria TG#62

Sample(s) Submitted on Ice? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample meets laboratory acceptance criteria? <input checked="" type="radio"/> Yes <input type="radio"/> No
Custody Seal(s) Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <u>NA</u>	Permission to continue: <input checked="" type="radio"/> Yes <input type="radio"/> No
Sample(s) Intact? <u>5</u> <input checked="" type="radio"/> Yes <input type="radio"/> No	Deviation/Notes: _____
Temperature: <u>5</u> °C <input type="checkbox"/> Cooler Blank	Signature/Date: _____

C1J1574
Rc'd: 10/13/2021 09:48
Log JLH



Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 1 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1J1838-01	MW1	Water	10/13/21 08:15	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-02	MW1	Water	10/13/21 08:17	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-03	MW2	Water	10/13/21 09:07	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-04	MW4	Water	10/13/21 09:55	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-05	MW5	Water	10/13/21 11:23	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-06	MW6	Water	10/13/21 12:09	Allison O'Neal	10/14/21 10:09	GLS
C1J1838-07	MW27	Water	10/13/21 13:08	Allison O'Neal	10/14/21 10:09	GLS



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	10/13/21 08:15	10/14/21 10:09

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Cations							
Sodium-Dissolved	34	1.0	mg/L	EPA 200.7	10/20/21 18:43	HRL	N_pFilt
Potassium-Dissolved	5.3	1.0	mg/L	EPA 200.7	10/20/21 18:43	HRL	N_pFilt
Calcium-Dissolved	61	1.0	mg/L	EPA 200.7	10/20/21 18:43	HRL	N_pFilt
Total Hardness	240	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:41	HRL	
Calcium	65	1.0	mg/L	EPA 200.7	10/20/21 18:41	HRL	
Magnesium	18	1.0	mg/L	EPA 200.7	10/20/21 18:41	HRL	
Anions							
Nitrate as N	10	0.20	mg/L	EPA 300.0	10/15/21 12:24	KBS	N_HTa
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 12:24	KBS	N_HTa
Chloride-Dissolved	57	1.0	mg/L	EPA 300.0	10/15/21 12:24	KBS	
Sulfate-Dissolved	98	0.50	mg/L	EPA 300.0	10/15/21 12:24	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 12:24	KBS	N_HTa
Nitrate/Nitrite as N	10	0.20	mg/L	EPA 300.0	10/15/21 12:24	KBS	
Aggregate Properties							
Specific Conductance	630	1.0	umhos/cm	SM 2510 B	10/20/21 19:24	BAA	
Solids							
Total Dissolved Solids	420	10	mg/L	SM 2540C	10/19/21 15:54	AXM	
General Inorganics							
Perchlorate	ND	2.0	ug/L	EPA 314.0	10/21/21 15:07	KJN	
Nutrients							
Total Dissolved Phosphorus	0.052	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	10/13/21 08:15	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 19:50	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:43	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:43	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:41	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 19:47	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	11/02/21 15:18	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 19:47	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	10/13/21 08:17	10/14/21 10:09

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Cations							
Potassium-Dissolved	5.5	1.0	mg/L	EPA 200.7	10/20/21 18:47	HRL	N_pFilt
Sodium-Dissolved	35	1.0	mg/L	EPA 200.7	10/20/21 18:47	HRL	N_pFilt
Calcium-Dissolved	63	1.0	mg/L	EPA 200.7	10/20/21 18:47	HRL	N_pFilt
Total Hardness	240	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:45	HRL	
Calcium	66	1.0	mg/L	EPA 200.7	10/20/21 18:45	HRL	
Magnesium	18	1.0	mg/L	EPA 200.7	10/20/21 18:45	HRL	
Anions							
Nitrate as N	10	0.20	mg/L	EPA 300.0	10/15/21 12:37	KBS	N_HTa
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 12:37	KBS	N_HTa
Sulfate-Dissolved	98	0.50	mg/L	EPA 300.0	10/15/21 12:37	KBS	
Chloride-Dissolved	57	1.0	mg/L	EPA 300.0	10/15/21 12:37	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 12:37	KBS	N_HTa
Nitrate/Nitrite as N	10	0.20	mg/L	EPA 300.0	10/15/21 12:37	KBS	
Aggregate Properties							
Specific Conductance	640	1.0	umhos/cm	SM 2510 B	10/20/21 19:25	BAA	
Solids							
Total Dissolved Solids	420	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
General Inorganics							
Perchlorate	ND	2.0	ug/L	EPA 314.0	10/21/21 15:25	KJN	
Nutrients							
Total Dissolved Phosphorus	0.063	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 5 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW1	Water	10/13/21 08:17	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 19:55	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:47	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:47	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:45	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 19:52	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	11/02/21 15:21	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 19:52	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 6 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW2	Water	10/13/21 09:07	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Calcium-Dissolved	81	1.0	mg/L	EPA 200.7	10/20/21 18:50	HRL	N_pFilt
Potassium-Dissolved	7.0	1.0	mg/L	EPA 200.7	10/20/21 18:50	HRL	N_pFilt
Sodium-Dissolved	44	1.0	mg/L	EPA 200.7	10/20/21 18:50	HRL	N_pFilt
Total Hardness	300	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:48	HRL	
Calcium	83	1.0	mg/L	EPA 200.7	10/20/21 18:48	HRL	
Magnesium	22	1.0	mg/L	EPA 200.7	10/20/21 18:48	HRL	
Anions							
Nitrate as N	8.9	0.20	mg/L	EPA 300.0	10/15/21 12:51	KBS	N_HTa
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 12:51	KBS	N_HTa
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 12:51	KBS	N_HTa
Chloride-Dissolved	83	1.0	mg/L	EPA 300.0	10/15/21 12:51	KBS	
Sulfate-Dissolved	130	0.50	mg/L	EPA 300.0	10/15/21 12:51	KBS	
Nitrate/Nitrite as N	8.9	0.20	mg/L	EPA 300.0	10/15/21 12:51	KBS	
Aggregate Properties							
Specific Conductance	800	1.0	umhos/cm	SM 2510 B	10/20/21 19:27	BAA	
Solids							
Total Dissolved Solids	530	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
Nutrients							
Total Dissolved Phosphorus	0.060	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 20:10	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:50	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:50	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:48	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 20:07	AJH	
Total Chromium	2.0	1.0	ug/L	EPA 200.8	11/02/21 15:35	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 20:07	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 7 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	10/13/21 09:55	10/14/21 10:09

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Cations							
Sodium-Dissolved	58	1.0	mg/L	EPA 200.7	10/20/21 18:54	HRL	N_pFilt
Calcium-Dissolved	160	1.0	mg/L	EPA 200.7	10/20/21 18:54	HRL	N_pFilt
Potassium-Dissolved	6.7	1.0	mg/L	EPA 200.7	10/20/21 18:54	HRL	N_pFilt
Total Hardness	630	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 18:52	HRL	
Calcium	160	1.0	mg/L	EPA 200.7	10/20/21 18:52	HRL	
Magnesium	54	1.0	mg/L	EPA 200.7	10/20/21 18:52	HRL	
Anions							
Nitrate as N	26	0.20	mg/L	EPA 300.0	10/15/21 13:04	KBS	N_HTa
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 13:04	KBS	N_HTa
Sulfate-Dissolved	200	0.50	mg/L	EPA 300.0	10/15/21 13:04	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 13:04	KBS	N_HTa
Chloride-Dissolved	150	1.0	mg/L	EPA 300.0	10/15/21 13:04	KBS	
Nitrate/Nitrite as N	26	0.20	mg/L	EPA 300.0	10/15/21 13:04	KBS	
Aggregate Properties							
Specific Conductance	1400	1.0	umhos/cm	SM 2510 B	10/20/21 19:29	BAA	
Solids							
Total Dissolved Solids	990	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
General Inorganics							
Perchlorate	3.8	2.0	ug/L	EPA 314.0	10/21/21 15:42	KJN	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 8 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW4	Water	10/13/21 09:55	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:54	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 18:54	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 20:15	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 18:52	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 20:12	AJH	
Total Chromium	1.3	1.0	ug/L	EPA 200.8	11/02/21 15:38	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 20:12	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 9 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW5	Water	10/13/21 11:23	10/14/21 10:09

<u>Analyte(s)</u>	<u>Result</u>	<u>RDL</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Cations							
Potassium-Dissolved	5.8	1.0	mg/L	EPA 200.7	10/20/21 19:03	HRL	N_pFilt
Sodium-Dissolved	51	1.0	mg/L	EPA 200.7	10/20/21 19:03	HRL	N_pFilt
Calcium-Dissolved	120	1.0	mg/L	EPA 200.7	10/20/21 19:03	HRL	N_pFilt
Total Hardness	490	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 19:01	HRL	
Calcium	130	1.0	mg/L	EPA 200.7	10/20/21 19:01	HRL	
Magnesium	39	1.0	mg/L	EPA 200.7	10/20/21 19:01	HRL	
Anions							
Nitrate as N	31	0.20	mg/L	EPA 300.0	10/15/21 10:38	KBS	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 10:38	KBS	NMout
Chloride-Dissolved	130	1.0	mg/L	EPA 300.0	10/15/21 10:38	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 10:38	KBS	NMout
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	10/15/21 10:38	KBS	
Nitrate/Nitrite as N	31	0.20	mg/L	EPA 300.0	10/15/21 10:38	KBS	
Aggregate Properties							
Specific Conductance	1200	1.0	umhos/cm	SM 2510 B	10/20/21 19:31	BAA	
Solids							
Total Dissolved Solids	840	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
General Inorganics							
Perchlorate	4.9	2.0	ug/L	EPA 314.0	10/21/21 16:00	KJN	
Nutrients							
Total Dissolved Phosphorus	0.052	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 10 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW5	Water	10/13/21 11:23	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:03	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 20:20	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:03	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 19:01	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 20:17	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	11/02/21 15:41	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 20:17	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 11 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW6	Water	10/13/21 12:09	10/14/21 10:09

<u>Analyte(s)</u>	<u>Result</u>	<u>RD L</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
Cations							
Potassium-Dissolved	4.0	1.0	mg/L	EPA 200.7	10/20/21 19:07	HRL	N_pFilt
Sodium-Dissolved	59	1.0	mg/L	EPA 200.7	10/20/21 19:07	HRL	N_pFilt
Calcium-Dissolved	85	1.0	mg/L	EPA 200.7	10/20/21 19:07	HRL	N_pFilt
Total Hardness	370	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 19:05	HRL	
Calcium	92	1.0	mg/L	EPA 200.7	10/20/21 19:05	HRL	
Magnesium	34	1.0	mg/L	EPA 200.7	10/20/21 19:05	HRL	
Anions							
Nitrate as N	2.2	0.20	mg/L	EPA 300.0	10/15/21 10:51	KBS	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 10:51	KBS	NMout
Chloride-Dissolved	120	1.0	mg/L	EPA 300.0	10/15/21 10:51	KBS	
Sulfate-Dissolved	190	0.50	mg/L	EPA 300.0	10/15/21 10:51	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 10:51	KBS	NMout
Nitrate/Nitrite as N	2.2	0.20	mg/L	EPA 300.0	10/15/21 10:51	KBS	
Aggregate Properties							
Specific Conductance	960	1.0	umhos/cm	SM 2510 B	10/20/21 19:32	BAA	
Solids							
Total Dissolved Solids	620	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
Nutrients							
Total Dissolved Phosphorus	ND	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:07	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 20:25	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:07	HRL	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 19:05	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 20:23	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	11/02/21 15:44	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 20:23	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 12 of 15
 Project Name: Water Sample Analysis - 2021
 Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number

C1J1838-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
MW27	Water	10/13/21 13:08	10/14/21 10:09

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Sodium-Dissolved	49	1.0	mg/L	EPA 200.7	10/20/21 19:10	HRL	N_pFilt
Calcium-Dissolved	79	1.0	mg/L	EPA 200.7	10/20/21 19:10	HRL	N_pFilt
Potassium-Dissolved	4.0	1.0	mg/L	EPA 200.7	10/20/21 19:10	HRL	N_pFilt
Total Hardness	280	3.0	mg/L	SM 2340B/EPA 200.7	10/20/21 19:09	HRL	
Calcium	82	1.0	mg/L	EPA 200.7	10/20/21 19:09	HRL	
Magnesium	18	1.0	mg/L	EPA 200.7	10/20/21 19:09	HRL	
Anions							
Nitrate as N	4.6	0.20	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Chloride-Dissolved	56	1.0	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Nitrate/Nitrite as N	4.6	0.20	mg/L	EPA 300.0	10/15/21 11:04	KBS	
Aggregate Properties							
Specific Conductance	750	1.0	umhos/cm	SM 2510 B	10/20/21 19:34	BAA	
Solids							
Total Dissolved Solids	490	10	mg/L	SM 2540C	10/18/21 18:40	AZB	
Nutrients							
Total Dissolved Phosphorus	0.10	0.050	mg/L	SM 4500P B E	11/03/21 09:50	AXM	
Metals and Metalloids							
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:10	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/20/21 19:10	HRL	N_pFilt
Manganese-Dissolved	ND	20	ug/L	EPA 200.8	10/22/21 20:30	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/20/21 19:09	HRL	
Arsenic	ND	2.0	ug/L	EPA 200.8	10/22/21 20:28	AJH	
Total Chromium	ND	1.0	ug/L	EPA 200.8	11/02/21 15:47	AJH	
Zinc	ND	50	ug/L	EPA 200.8	10/22/21 20:28	AJH	



Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 13 of 15
Project Name: Water Sample Analysis - 2021
Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C

Notes and Definitions

- .MCNotify Notified Chuck Houser and Begonia Heffel via email and voicemail 10/19/21 regarding MCL exceedance
- N_HTa Sample analyzed outside of the EPA recommended holding time.
- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- NMout The matrix spike and/or matrix spike duplicate performed on this sample did not meet laboratory acceptance criteria.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / " : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

KayeLani A. Marshall

cc:

e-Short_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

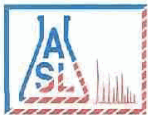
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 14 of 15
Project Name: Water Sample Analysis - 2021
Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C



ESB
AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

C1J1838
Rcd: 10/14/2021 10:09
JLH

Page 1 of 2

COC# **Nº 79900** GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS Engineers	Report To:	ANALYSIS REQUESTED	
Address: 8799 Balboa Ave #290	Project Name: San Luis Rey	Address:	Aluminum, Arsenic, Chromium, Lead, Zn, Hexavalent Chromium, Dissolved Barium, Ca, Chloride, Iron, Mn, Nitrate + Nitrite, Nitrite, K, Mg, Sulfate, Special cmet, phosphorus, TDS, Perchlorate
San Diego, CA 92123	Site Address:	Invoice To:	
Telephone: 858, 805.5523		Address:	
Special Instruction:	Project ID: 01221001.00		
E-mail: chouser@scsengineers.com	Project Manager: Chuck Houser	P.O.#:	

ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation	ANALYSIS REQUESTED										Remarks					
	Lab ID	Sample ID	Date	Time	#	Type																				
		MW1	10/13/21	815	1	plastic		HNO ₃ GW	HNO ₃	X																
		MW1		815					ice																	
		MW1		817					HNO ₃	X																
		MW1		817					ice																	
		NW2		907					HNO ₃	X																
		NW2		907					ice																	
		MW4		955					HNO ₃	X																
		MW4		955					ice																	
		NWS		1123					HNO ₃	X																
		MWS		1123					Ice																	

Collected By: almon	Date: 10/13/21	Time: 1130	Relinquished By: GLS	Date: 10-14-21	Time: 10:09	TAT
Relinquished By: almon	Date: 10/13/21	Time: 1500	Received For Laboratory: GLS	Date: 10-14-21	Time: 10:09	<input checked="" type="checkbox"/> Normal
Received By: GLS	Date:	Time:	Condition of Sample:			<input type="checkbox"/> Rush

White - Report, Yellow - Laboratory, Pink - Client

CHAIN OF CUSTODY RECORD



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

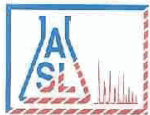
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 15 of 15
Project Name: Water Sample Analysis - 2021
Project Number: Water Sample Analysis - 2021

Report Date: 04-Nov-2021

Work Order Number: C1J1838

Received on Ice (Y/N): Yes Temp: 10 °C



ESB
AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, L.A., CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page 2 of 2

COC# **Nº 79899** GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS		Report To:		ANALYSIS REQUESTED												
Address:		Project Name: San Luis Rey		Address:		Invoice To:		Aluminum, Arsenic, Chromium, Zn, Hexachlorocyclopentadiene, Inorganic As, Nitrate, Nitrite, K, Mg, Sulfate, Special cond., Phosp hous		TDS		Perchlorate		Remarks		
Site Address:		Site Address:		Address:		Address:										
Telephone:		Project ID: 01221001.00		P.O.#:												
Fax:		Project Manager:														
Special Instruction:																
E-mail:																
ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation						Remarks
	Lab ID	Sample ID	Date	Time	#	Type										
		MW6	10/13/21	1209	1	plastic	GW	HNO ₃	X						NO	NO
		MW6		1209				ice							YES	YES
		MW27		1308				HNO ₃	X							
		MW27		1308				ice								
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> C1J1838 Rc'd: 10/14/2021 10:09 JLH </div>																
Collected By: allison		Date: 10/13/21		Time: 1500		Relinquished By: GLS		Date: 10-14-21		Time: 10:09		TAT				
Relinquished By: allison		Date: 10/13/21		Time: 1500		Received For Laboratory: JLH		Date: 10-14-21		Time: 10:09		<input checked="" type="checkbox"/> Normal				
Received By: GLS		Date:		Time:		Condition of Sample:						<input type="checkbox"/> Rush				

CHAIN OF CUSTODY RECORD

White - Report, Yellow - Laboratory, Pink - Client



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 1 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C1J2009-01	MW12	Liquid	10/14/21 08:45	Allison O'Neal	10/15/21 13:19	GLS
C1J2009-02	MW12	Liquid	10/14/21 08:47	Allison O'Neal	10/15/21 13:19	GLS
C1J2009-03	MW9	Liquid	10/14/21 09:37	Allison O'Neal	10/15/21 13:19	GLS
C1J2009-04	MW21	Liquid	10/14/21 11:44	Allison O'Neal	10/15/21 13:19	GLS
C1J2009-05	MW22	Liquid	10/14/21 12:33	Allison O'Neal	10/15/21 13:19	GLS
C1J2009-06	MW25	Liquid	10/14/21 13:31	Allison O'Neal	10/15/21 13:19	GLS



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 2 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-01 <i>Sampled: 10/14/21 08:45</i>							
MW12							
Potassium-Dissolved	6.2	1.0	mg/L	EPA 200.7	10/21/21 16:40	HRL	
Calcium-Dissolved	190	2.0	mg/L	EPA 200.7	10/28/21 19:23	HRL	N_pFilt
Sodium-Dissolved	120	1.0	mg/L	EPA 200.7	10/21/21 16:40	HRL	
Calcium-Dissolved	200	1.0	mg/L	EPA 200.7	10/21/21 16:40	HRL	
Total Hardness	800	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:04	HRL	
Total Hardness	840	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 16:38	HRL	
Calcium	190	2.0	mg/L	EPA 200.7	11/05/21 00:04	HRL	
Calcium	210	1.0	mg/L	EPA 200.7	10/21/21 16:38	HRL	
Magnesium	79	1.0	mg/L	EPA 200.7	10/21/21 16:38	HRL	
Magnesium	75	2.0	mg/L	EPA 200.7	11/05/21 00:04	HRL	
Sodium	140	2.0	mg/L	EPA 200.7	11/05/21 00:04	HRL	
Potassium	6.6	2.0	mg/L	EPA 200.7	11/05/21 00:04	HRL	
Nitrate as N	2.2	0.40	mg/L	EPA 300.0	10/15/21 22:05	KBS	
Nitrite as N	ND	0.2	mg/L	EPA 300.0	10/15/21 22:05	KBS	N_RLd
Nitrite as N-Dissolved	ND	0.2	mg/L	EPA 300.0	10/15/21 22:05	KBS	N_RLd
Sulfate-Dissolved	540	2.5	mg/L	EPA 300.0	10/19/21 13:09	KJN	
Chloride-Dissolved	260	2.0	mg/L	EPA 300.0	10/15/21 22:05	KBS	
Nitrate/Nitrite as N	2.2	0.40	mg/L	EPA 300.0	10/15/21 22:05	KBS	
Specific Conductance	1900	1.0	umhos/cm	SM 2510 B	10/20/21 21:57	BAA	
Total Dissolved Solids	1400	20	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 3 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-01 <i>Sampled: 10/14/21 08:45</i>							
MW12							
Perchlorate	ND	2.0	ug/L	EPA 314.0	10/26/21 10:05	KJN	
Total Phosphorus	0.06	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:23	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:40	HRL	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:23	HRL	N_pFilt, N_RLm
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:40	HRL	
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 16:38	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:04	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:12	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:12	AJH	
Manganese	ND	10	ug/L	EPA 200.8	11/04/21 16:12	AJH	
Zinc	ND	10	ug/L	EPA 200.8	11/04/21 16:12	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 4 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-02 <i>Sampled: 10/14/21 08:47</i>							
MW12							
Potassium-Dissolved	6.3	1.0	mg/L	EPA 200.7	10/21/21 16:44	HRL	
Calcium-Dissolved	190	2.0	mg/L	EPA 200.7	10/28/21 19:25	HRL	N_pFilt
Calcium-Dissolved	200	1.0	mg/L	EPA 200.7	10/21/21 16:44	HRL	
Sodium-Dissolved	120	1.0	mg/L	EPA 200.7	10/21/21 16:44	HRL	
Total Hardness	800	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:12	HRL	
Total Hardness	850	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 16:42	HRL	
Calcium	200	1.0	mg/L	EPA 200.7	10/21/21 16:42	HRL	
Calcium	200	2.0	mg/L	EPA 200.7	11/05/21 00:12	HRL	
Magnesium	75	2.0	mg/L	EPA 200.7	11/05/21 00:12	HRL	
Magnesium	80	1.0	mg/L	EPA 200.7	10/21/21 16:42	HRL	
Sodium	130	2.0	mg/L	EPA 200.7	11/05/21 00:12	HRL	
Potassium	6.4	2.0	mg/L	EPA 200.7	11/05/21 00:12	HRL	
Nitrate as N	2.2	0.40	mg/L	EPA 300.0	10/15/21 22:19	KBS	
Nitrite as N	ND	0.2	mg/L	EPA 300.0	10/15/21 22:19	KBS	N_RLd
Sulfate-Dissolved	540	2.5	mg/L	EPA 300.0	10/19/21 13:23	KJN	
Chloride-Dissolved	260	2.0	mg/L	EPA 300.0	10/15/21 22:19	KBS	
Nitrite as N-Dissolved	ND	0.2	mg/L	EPA 300.0	10/15/21 22:19	KBS	N_RLd
Nitrate/Nitrite as N	2.2	0.40	mg/L	EPA 300.0	10/15/21 22:19	KBS	
Specific Conductance	1900	1.0	umhos/cm	SM 2510 B	10/20/21 21:59	BAA	
Total Dissolved Solids	1300	20	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 5 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-02 <i>Sampled: 10/14/21 08:47</i>							
MW12							
Perchlorate	ND	2.0	ug/L	EPA 314.0	10/26/21 10:22	KJN	
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Manganese-Dissolved	ND	10	ug/L	EPA 200.8	11/01/21 13:50	AJH	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:25	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:44	HRL	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:25	HRL	N_pFilt, N_RLm
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:44	HRL	
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 16:42	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:12	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:15	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:15	AJH	
Zinc	ND	10	ug/L	EPA 200.8	11/04/21 16:15	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 6 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-03 <i>Sampled: 10/14/21 09:37</i>							
MW9							
Calcium-Dissolved	150	1.0	mg/L	EPA 200.7	10/21/21 16:47	HRL	
Calcium-Dissolved	150	2.0	mg/L	EPA 200.7	10/28/21 19:28	HRL	N_pFilt
Potassium-Dissolved	5.6	1.0	mg/L	EPA 200.7	10/21/21 16:47	HRL	
Sodium-Dissolved	67	1.0	mg/L	EPA 200.7	10/21/21 16:47	HRL	
Total Hardness	610	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 16:46	HRL	
Total Hardness	590	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:13	HRL	
Calcium	160	1.0	mg/L	EPA 200.7	10/21/21 16:46	HRL	
Calcium	150	2.0	mg/L	EPA 200.7	11/05/21 00:13	HRL	
Magnesium	53	1.0	mg/L	EPA 200.7	10/21/21 16:46	HRL	
Magnesium	50	2.0	mg/L	EPA 200.7	11/05/21 00:13	HRL	
Nitrate as N	1.3	0.20	mg/L	EPA 300.0	10/15/21 22:32	KBS	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 22:32	KBS	
Sulfate-Dissolved	380	2.5	mg/L	EPA 300.0	10/19/21 13:36	KJN	
Chloride-Dissolved	150	1.0	mg/L	EPA 300.0	10/15/21 22:32	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 22:32	KBS	
Nitrate/Nitrite as N	1.3	0.20	mg/L	EPA 300.0	10/15/21 22:32	KBS	
Specific Conductance	1300	1.0	umhos/cm	SM 2510 B	10/20/21 22:01	BAA	
Total Dissolved Solids	930	10	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 7 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-03 <i>Sampled: 10/14/21 09:37</i>							
MW9							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:28	HRL	N_pFilt
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:47	HRL	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:28	HRL	N_pFilt, N_RLm
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:47	HRL	
Manganese-Dissolved	ND	10	ug/L	EPA 200.8	11/01/21 13:52	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 16:46	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:13	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:17	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:17	AJH	
Zinc	ND	10	ug/L	EPA 200.8	11/04/21 16:17	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 8 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-04 <i>Sampled: 10/14/21 11:44</i>							
MW21							
Potassium-Dissolved	2.8	1.0	mg/L	EPA 200.7	10/21/21 16:51	HRL	
Calcium-Dissolved	88	2.0	mg/L	EPA 200.7	10/28/21 19:30	HRL	N_pFilt
Sodium-Dissolved	86	1.0	mg/L	EPA 200.7	10/21/21 16:51	HRL	
Calcium-Dissolved	90	1.0	mg/L	EPA 200.7	10/21/21 16:51	HRL	
Total Hardness	310	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 16:49	HRL	
Total Hardness	300	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:15	HRL	
Calcium	92	2.0	mg/L	EPA 200.7	11/05/21 00:15	HRL	
Calcium	94	1.0	mg/L	EPA 200.7	10/21/21 16:49	HRL	
Magnesium	17	2.0	mg/L	EPA 200.7	11/05/21 00:15	HRL	
Magnesium	18	1.0	mg/L	EPA 200.7	10/21/21 16:49	HRL	
Nitrate as N	14	0.20	mg/L	EPA 300.0	10/15/21 22:46	KBS	.MCNotify
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/15/21 22:46	KBS	
Sulfate-Dissolved	230	0.50	mg/L	EPA 300.0	10/15/21 22:46	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/15/21 22:46	KBS	
Chloride-Dissolved	100	1.0	mg/L	EPA 300.0	10/15/21 22:46	KBS	
Nitrate/Nitrite as N	14	0.20	mg/L	EPA 300.0	10/15/21 22:46	KBS	
Specific Conductance	960	1.0	umhos/cm	SM 2510 B	10/20/21 22:03	BAA	
Total Dissolved Solids	630	10	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 9 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-04 <i>Sampled: 10/14/21 11:44</i>							
MW21							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:30	HRL	N_pFilt, N_RLm
Boron-Dissolved	140	100	ug/L	EPA 200.7	10/21/21 16:51	HRL	
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:51	HRL	
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:30	HRL	N_pFilt
Manganese-Dissolved	ND	10	ug/L	EPA 200.8	11/01/21 13:55	AJH	N_pFilt
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 16:49	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:15	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:20	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:20	AJH	
Zinc	21	10	ug/L	EPA 200.8	11/04/21 16:20	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 10 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-05 <i>Sampled: 10/14/21 12:33</i>							
MW22							
Sodium-Dissolved	67	1.0	mg/L	EPA 200.7	10/21/21 16:55	HRL	
Potassium-Dissolved	6.7	1.0	mg/L	EPA 200.7	10/21/21 16:55	HRL	
Calcium-Dissolved	180	1.0	mg/L	EPA 200.7	10/21/21 16:55	HRL	
Calcium-Dissolved	180	2.0	mg/L	EPA 200.7	10/28/21 19:32	HRL	N_pFilt
Total Hardness	650	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:17	HRL	
Total Hardness	670	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 16:53	HRL	
Calcium	180	1.0	mg/L	EPA 200.7	10/21/21 16:53	HRL	
Calcium	180	2.0	mg/L	EPA 200.7	11/05/21 00:17	HRL	
Magnesium	50	1.0	mg/L	EPA 200.7	10/21/21 16:53	HRL	
Magnesium	47	2.0	mg/L	EPA 200.7	11/05/21 00:17	HRL	
Nitrate as N	22	0.40	mg/L	EPA 300.0	10/16/21 00:04	KBS	.MCNotify
Nitrite as N	ND	0.2	mg/L	EPA 300.0	10/16/21 00:04	KBS	N_RLd
Nitrite as N-Dissolved	ND	0.2	mg/L	EPA 300.0	10/16/21 00:04	KBS	N_RLd
Chloride-Dissolved	180	2.0	mg/L	EPA 300.0	10/16/21 00:04	KBS	
Sulfate-Dissolved	370	1.0	mg/L	EPA 300.0	10/16/21 00:04	KBS	
Nitrate/Nitrite as N	22	0.40	mg/L	EPA 300.0	10/16/21 00:04	KBS	
Specific Conductance	1500	1.0	umhos/cm	SM 2510 B	10/20/21 22:05	BAA	
Total Dissolved Solids	1100	10	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 11 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-05 <i>Sampled: 10/14/21 12:33</i>							
MW22							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Boron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:55	HRL	
Manganese-Dissolved	ND	10	ug/L	EPA 200.8	11/01/21 13:57	AJH	N_pFilt
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:32	HRL	N_pFilt, N_RLm
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:32	HRL	N_pFilt
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 16:55	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:17	HRL	
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 16:53	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:22	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:22	AJH	
Zinc	14	10	ug/L	EPA 200.8	11/04/21 16:22	AJH	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 12 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-06 <i>Sampled: 10/14/21 13:31</i>							
MW25							
Sodium-Dissolved	85	1.0	mg/L	EPA 200.7	10/21/21 17:04	HRL	
Calcium-Dissolved	35	2.0	mg/L	EPA 200.7	10/28/21 19:34	HRL	N_pFilt
Calcium-Dissolved	37	1.0	mg/L	EPA 200.7	10/21/21 17:04	HRL	
Potassium-Dissolved	3.0	1.0	mg/L	EPA 200.7	10/21/21 17:04	HRL	
Total Hardness	110	6.0	mg/L	SM 2340B/EPA 200.7	11/05/21 00:19	HRL	
Total Hardness	110	3.0	mg/L	SM 2340B/EPA 200.7	10/21/21 17:02	HRL	
Calcium	38	2.0	mg/L	EPA 200.7	11/05/21 00:19	HRL	
Calcium	38	1.0	mg/L	EPA 200.7	10/21/21 17:02	HRL	
Magnesium	2.8	2.0	mg/L	EPA 200.7	11/05/21 00:19	HRL	
Magnesium	2.8	1.0	mg/L	EPA 200.7	10/21/21 17:02	HRL	
Sulfate	160	0.50	mg/L	EPA 300.0	10/22/21 16:31	KJN	
Nitrate as N	1.7	0.20	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Nitrite as N	ND	0.1	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Nitrite as N-Dissolved	ND	0.1	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Sulfate-Dissolved	170	0.50	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Chloride-Dissolved	35	1.0	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Nitrate/Nitrite as N	1.7	0.20	mg/L	EPA 300.0	10/16/21 00:17	KBS	
Specific Conductance	600	1.0	umhos/cm	SM 2510 B	10/20/21 22:07	BAA	
Total Dissolved Solids	370	10	mg/L	SM 2540C	10/20/21 19:22	AXM	



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: SCS Engineers
 Contact: Chuck Houser
 Address: 3900 Kilroy Airport Way Suite 100
 Long Beach, CA 90806

Analytical Report: Page 13 of 16
 Project Number: Water Sample Analysis - 2021
 Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
C1J2009-06 <i>Sampled: 10/14/21 13:31</i>							
MW25							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	11/06/21 14:15	AXM	
Boron-Dissolved	ND	200	ug/L	EPA 200.7	10/28/21 19:34	HRL	N_pFilt, N_RLm
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/21/21 17:04	HRL	
Iron-Dissolved	ND	100	ug/L	EPA 200.7	10/28/21 19:34	HRL	N_pFilt
Manganese-Dissolved	ND	10	ug/L	EPA 200.8	11/01/21 14:00	AJH	N_pFilt
Boron-Dissolved	130	100	ug/L	EPA 200.7	10/21/21 17:04	HRL	
Aluminum	ND	50	ug/L	EPA 200.7	10/21/21 17:02	HRL	
Aluminum	ND	200	ug/L	EPA 200.7	11/05/21 00:19	HRL	
Arsenic	ND	5.0	ug/L	EPA 200.8	11/04/21 16:25	AJH	
Total Chromium	ND	20	ug/L	EPA 200.8	11/04/21 16:25	AJH	
Zinc	ND	10	ug/L	EPA 200.8	11/04/21 16:25	AJH	



Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 14 of 16
Project Number: Water Sample Analysis - 2021
Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C

Notes and Definitions

- .MCNotify Notified Chuck Houser via email and voice mail 10/20/21 regarding MCL exceedance
- N_pFilt Sample filtered and preserved upon receipt to the laboratory.
- N_RLd The reporting limit has been raised due to sample dilution. The dilution was required to get one or more target analytes within the calibration range of the instrument.
- N_RLm Due to sample matrix, the reporting limit has been raised.
- ND: Analyte NOT DETECTED at or above the Method Detection Limit (if MDL is reported), otherwise at or above the Reportable Detection Limit (RDL)
- NR: Not Reported
- RDL: Reportable Detection Limit
- MDL: Method Detection Limit
- * / "" : NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

DeAnna Lynn Tillman For KayeLani A. Marshall

cc:

e-Tab_ Summary.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

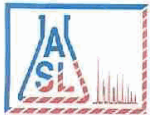
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 15 of 16
Project Number: Water Sample Analysis - 2021
Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: C1J2009

Received on Ice (Y/N): Yes Temp: 6°C



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

C1J2009

Rc'd: 10/15/2021 13:19

JLH



Page 1 of 2

COC# **Nº 79902** GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS Engineers		Report To:		ANALYSIS REQUESTED								
Address: 8799 Balboa Ave #290		Project Name: San Luis Rey		Address:								
San Diego, CA 92123		Site Address:		Invoice To:								
Telephone:		Project ID: 61221061.00		Address:								
Fax: 858. 805. 5523		Project Manager: Chuck Houser		P.O.#:								
Special Instruction:		Project ID:		Matrix								
E-mail: chouser@scsengineers.com		Project Manager:		Preservation								
LAB USE ONLY		SAMPLE DESCRIPTION			Container(s)		Remarks					
ITEM	Lab ID	Sample ID	Date	Time	#	Type	Matrix	Preservation				
		MW12	10/14/21	845	1	plastic	GW	HNO ₃ X				
		MW12		845				ice X				
		MW12		847				HNO ₃ X				
		MW12		847				ice X				
		MW9		937				HNO ₃ X				
		MW9		937				ice X				
		MW21		1144				HNO ₃ X				
		MW21		1144				ice X				
		MW22		1233				HNO ₃ X				
		MW22		1233				ice X				
Collected By: allamal		Date	10/14/21	Time	1233	Relinquished By: GLS		Date	10/15/21	Time	13:19	TAT
Relinquished By: allamal		Date	10/14/21	Time	1630	Received For Laboratory: GLS		Date	10/15/21	Time	13:19	<input checked="" type="checkbox"/> Normal
Received By: GLS		Date		Time		Condition of Sample:		<input type="checkbox"/> Rush				

White - Report, Yellow - Laboratory, Pink - Client

CHAIN OF CUSTODY RECORD



BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

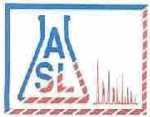
Client Name: SCS Engineers
Contact: Chuck Houser
Address: 3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806

Analytical Report: Page 16 of 16
Project Number: Water Sample Analysis - 2021
Project Name: Water Sample Analysis - 2021

Report Date: 08-Nov-2021

Work Order Number: **C1J2009**

Received on Ice (Y/N): Yes Temp: 6°C



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, L.A. CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page 2 of 2

COC# **Nº 79901** GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# _____

Company: SCS	Report To:	ANALYSIS REQUESTED Aluminum Arsenic Chromium Dioxide Zinc Hexachlorides Dissolved Boron, Ca Chloride, Iron, Mn Nitrate + Nitrite Nitrite, K, Mg, Sulfate Special cond., phosphorus TDS Perchlorate
Address:	Project Name: San Luis Rey	
Telephone:	Site Address:	
Fax:	Invoice To:	
Special Instruction:	Project ID: 01221501.00	
E-mail:	Project Manager:	P.O.#:

ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Container(s)		Matrix	Preservation	Remarks
	Lab ID	Sample ID	Date	Time	#	Type					
		MW25	10/14/21	1331	1	plastic		GW	HNO3	X	
		MW25	10/14/21	1331	1	plastic		GW	Ice		

C1J2009
Rc'd: 10/15/2021 13:19
JLH

Collected By: almond	Date: 10/14/21	Time: 1331	Relinquished By: GLS	Date: 10/15/21	Time: 13:09	TAT
Relinquished By: almond	Date: 10/14/21	Time: 1630	Received For Laboratory: GLS	Date: 10/15/21	Time: 13:09	<input checked="" type="checkbox"/> Normal
Received By: GLS	Date:	Time:	Condition of Sample:			<input type="checkbox"/> Rush

CHAIN OF CUSTODY RECORD

White - Report, Yellow - Laboratory, Pink - Client

APPENDIX 3C

**Technical Memorandum: Groundwater Dependent Vegetation Assessment for the
Groundwater Sustainability Plan for the
Upper San Luis Rey Valley Groundwater Sub-Basin**

HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942
619.462.1515 tel
619.462.0552 fax
www.helixepi.com



May 21, 2021

03869.00002.001

Lauren Wicks, PG
Project Geohydrologist
GEOSCIENCE Support Services, Inc.
620 E Arrow Highway, Suite 2000
La Verne, CA 91750

Subject: Groundwater Dependent Vegetation Assessment for the Groundwater Sustainability Plan for the Upper San Luis Rey Valley Groundwater Sub-Basin

Dear Ms. Wicks:

At the request of GEOSCIENCE Support Services, Inc. (Client), HELIX Environmental Planning, Inc. (HELIX) completed a desktop assessment of groundwater dependent vegetation for the preparation of a Groundwater Sustainability Plan for the Upper San Luis Rey Valley Groundwater Sub-Basin (Sub-Basin; Project). The purpose of the assessment was to identify groundwater-dependent vegetation communities within the Sub-Basin. This report provides a brief summary of the assessment methods and results.

METHODS

HELIX compiled the following data sources as part of the desktop assessment to compile a map of the potential locations of groundwater-dependent vegetation that occurs in the Sub-Basin: recent and historical aerial imagery (Esri 2020; Google 2021a; Google 2021b; Historical Aerials 2021), National Wetlands Inventory (NWI) mapping (USFWS 2021), San Diego Association of Governments (SANDAG) regional vegetation mapping (SANDAG 2012), topographic mapping (USGS 2021), and other pertinent biological resources data. The NWI is a public data source made available by the U.S. Fish and Wildlife Service that provides generalized locations of potential wetlands throughout the United States. It also includes generalized locations of drainages, ponds, and other related resources, but the NWI data has not been ground-truthed and should not be used at a project-level for vegetation mapping. However, it provides for a resource that can help guide the general locations of wetlands and other groundwater-dependent vegetation. Topographic mapping was used to help evaluate the portions of the Sub-Basin that may be too steep to support groundwater-dependent vegetation. The SANDAG regional vegetation mapping that was completed in 2012 for the western portion of San Diego County; the SANDAG regional vegetation mapping only included a portion of the Sub-Basin.

HELIX compiled the NWI mapping, SANDAG regional vegetation mapping, and topographic mapping into an ArcGIS Online Viewer with the current and historical aerial photographs. HELIX biologists then reviewed the vegetation community mapping and NWI data in relation to the aerial photos to evaluate

the potential groundwater-dependent vegetation within the Sub-Basin. Slopes mapped as greater than 25 percent were excluded unless aerial imagery clearly countered the mapping. HELIX biologists also used their knowledge and experience in this portion of San Diego County to help refine the mapping. In areas where NWI mapping or SANDAG mapping indicated vegetation that was not consistent with multiple aerial photographs, those areas were not included as groundwater-dependent vegetation areas. The Sub-Basin also supports large areas of oak riparian forest, some of which are expected to be dependent on groundwater and other areas where the oaks (such as coast live oak woodland in upland areas) may not be dependent on groundwater. HELIX used a combination of factors (e.g., topography, air photos, distance from other wetland areas, position in the landscape) and professional judgement to compile the portions of oak woodlands that would likely be dependent on groundwater. However, none of the areas mapped have been evaluated in the field to confirm the locations or extent of actual vegetation. Field verification would be needed to confirm the amount and extent of groundwater-dependent vegetation at a project level.

HELIX compiled a map of the potential areas supporting groundwater-dependent vegetation based on the desktop analysis described above. Nomenclature used in this memo follows Holland (1986) and Oberbauer (2008) for vegetation communities.

RESULTS

Groundwater Dependent Vegetation Communities

In total, 56 mapped Holland/Oberbauer vegetation communities and five NWI vegetation communities were mapped within the Sub-Basin based on historical vegetation mapping. Mapping was first refined to include only those vegetation communities that were considered to be potentially groundwater dependent. This included all five of the NWI vegetation communities (Table 1, *National Wetlands Inventory Potential Groundwater-Dependent Vegetation Communities*) and 11 of the Holland/Oberbauer vegetation communities (Table 2, *Holland/Oberbauer Potential Groundwater-Dependent Vegetation Communities*). This mapping was then closely inspected relative to the aerial photo base and slope data and vegetation that was not considered likely to be groundwater dependent was removed. Lastly, HELIX examined the aerial photo and added polygons where additional groundwater dependent vegetation was likely to occur. These new areas included largely unvegetated wash (because water flow and vegetated zones within riverine systems can fluctuate from year to year), narrow strips along some drainages, and other areas that appeared to occur along wetland corridors or drainages but had not been included in one of the historically mapped target vegetation communities. Many drainages (typically blue or green lines on the final map) were considered to be too incised or located in too steep of topography to support groundwater dependent vegetation. The added areas are labeled generically as 'Groundwater-Dependent Vegetation' on the final mapping. The final groundwater dependent vegetation locations are provided in the Computer Aided Design (AutoCAD) files that accompany this report.

Table 1
NATIONAL WETLANDS INVENTORY
POTENTIAL GROUNDWATER-DEPENDENT VEGETATION COMMUNITIES

Vegetation Community Name
Riverine
Freshwater Pond
Freshwater Forested/Shrub Wetland
Freshwater Emergent Wetland
Freshwater Forested/Shrub Riparian

Table 2
HOLLAND/OBERBAUER
POTENTIAL GROUNDWATER-DEPENDENT VEGETATION COMMUNITIES


Vegetation Community Name (Holland/Oberbauer Code)
Southern Riparian Forest (61300)
Southern Coast Live Oak Riparian Forest (61310)
Southern Arroyo Willow Riparian Forest (61320)
Southern Cottonwood-Willow Riparian Forest (61330)
Southern Riparian Woodland (62000)
Southern Sycamore-Alder Riparian Woodland (62400)
Southern Riparian Scrub (63300)
Mule Fat Scrub (63310)
Southern Willow Scrub (63320)
Freshwater (64140)
Non-native Riparian (65000)

The acreage of potential groundwater-dependent vegetation within the Sub-Basin that was compiled for this assessment totaled 2,545 acres.

CLOSING

We appreciate the opportunity to provide you with this assessment. If you have questions, please contact me or Shelby Howard at (619) 462-1515.

Sincerely,



Mandy Mathews
Biologist

Attachment: GIS Shapefiles of the potential groundwater-dependent vegetation

REFERENCES

Esri. 2020. ArcGIS Desktop: Release 10.8.1. Redlands, CA: Environmental System Research Institute. 0.5-meter resolution. Aerial Image flown March 9.

Google. 2021a. Google Earth Pro. Current and historical imagery.

2021b. Google Maps. Current imagery.

Historical Aerials. 2021. Retrieved from: <https://www.historicaerials.com/viewer>.

Holland, R.F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. State of California, The Resources Agency, 156 pp.

Oberbauer, Thomas. 2008. Terrestrial Vegetation Communities in San Diego County Based on Holland's Descriptions. Revised from 1996 and 2005. July.

San Diego Association of Governments (SANDAG). 2012. Vegetation, San Diego County, California.

U.S. Fish and Wildlife Service (USFWS). 2021. National Wetlands Inventory. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

U.S. Geological Survey (USGS). 2021. Topographic maps. Earth Point Data. Retrieved from: <http://www.earthpoint.us/TopoMap.aspx>

APPENDIX 3D

**Technical Memorandum: Development and Calibration of
Upper San Luis Rey Groundwater Model**

DEVELOPMENT AND CALIBRATION OF UPPER SAN LUIS REY SURFACE WATER AND GROUNDWATER MODEL

Table of Contents

1.0	Introduction	1
2.0	Upper San Luis Rey Watershed Model	1
2.1	Model Codes.....	1
2.2	Data Needs for Watershed Model	3
2.2.1	Land Surface Elevations	4
2.2.2	Soil Types	4
2.2.3	Land Use.....	4
2.2.4	Precipitation.....	4
2.2.5	Evaporation.....	5
2.2.6	Streamflow.....	5
2.3	Watershed Model Calibration	5
2.3.1	Calibration Results	6
3.0	Upper San Luis Rey Groundwater Model	7
3.1	Conceptual Model	7
3.2	Model Codes.....	7
3.3	Model Pre- and Post-Processors	7
3.4	Model Grids and Cells.....	8
3.5	Boundary Conditions	8
3.6	Aquifer Parameters	8
3.6.1	Model Layer and Basement Elevations.....	8
3.6.2	Hydraulic Conductivity	8
3.6.3	Specific Yield and Storativity	9
3.7	Recharge and Discharge	9
3.7.1	Deep Percolation of Streambed Seepage	9
3.7.2	Deep Percolation of Direct Precipitation and Anthropogenic Return Flow	10
3.7.3	Recharge from Mountain Front Runoff	10

3.7.4 Artificial Recharge via Spreading Ponds.....	10
3.7.5 Groundwater Pumping	10
3.7.6 Evapotranspiration by Riparian Vegetation.....	11
3.7.7 Subsurface Outflow through the Basin Boundary	11
3.8 Model Calibration.....	11
3.8.1 Model Calibration Process and Results.....	11
3.8.2 Water Budget.....	12
4.0 Upper San Luis Rey Groundwater Model Limitations and Uncertainty	12
5.0 References.....	13

Figures and Tables

Figures

No.	Description
-----	-------------

(Attached)

1. Watershed Model Boundary and Groundwater Model Boundary
2. HSPF Diagram
3. HSPF Illustration
4. Sub-watershed Boundaries
5. Soil Types
6. 1995 Land Use Map
7. 2004 Land Use Map
8. 2017 Land Use Map
9. Precipitation Station Locations and PRISM Precipitation Adjustment Factors
10. Evaporation Station Locations and Reference Evapotranspiration Zones
11. Stream Channel Types and Gaging Station Locations
12. Henshaw Release and Surface Diversion
13. Gage Station 11039800 Daily Scatter Plot
14. Gage Station 11036700 Daily Scatter Plot
15. Gage Station 11039800 Monthly Scatter Plot
16. Gage Station 11036700 Monthly Scatter Plot
17. Total Stream Volumes at Gage Station 11039800
18. Boundary Conditions
19. Layer Elevations
20. Horizontal Hydraulic Conductivity
21. Specific Yield
22. Model-Calculated Annual Groundwater Pumping
23. Initial Water Level
24. Selected Hydrographs
25. Calibration Scatter Plot
26. Upper San Luis Rey Valley Groundwater Subbasin Water Balance

Tables

No.	Description	Page
-----	-------------	------

(Inset)

2-1	Summary of Watershed Model Calibration	
3-1	USLRGM Groundwater Basin Model Recharge and Discharge Components	

No.	Description
-----	-------------

(Attached)

1	Upper San Luis Rey Valley Groundwater Subbasin Water Balance
---	--

DEVELOPMENT AND CALIBRATION OF UPPER SAN LUIS REY GROUNDWATER MODEL

1.0 Introduction

This Technical Memorandum documents the development and calibration of the Upper San Luis Rey Groundwater Model (USLRGM), which consists of an integrated surface water and three-layer groundwater model that were calibrated to observed surface water flow and groundwater elevations for the period from 1991 through 2020 (Figure 1). The purpose of the USLRGM is to provide a solid approach for evaluating groundwater budgets and individual recharge and discharge terms. In addition, it also represents a tool that can be used for future basin management, such as providing projections of groundwater impacts and the evaluation of proposed projects to meet groundwater sustainability goals.

2.0 Upper San Luis Rey Watershed Model

2.1 Model Codes

A rainfall-runoff model of the watershed overlying and contributing to the Upper San Luis Rey Groundwater Basin was developed using the HSPF. The purpose of this Upper San Luis Rey Watershed Model is to help understanding and estimating certain groundwater basin water budget components related to the surface water, including subsurface inflows from mountain front runoff, areal recharge from precipitation and streambed percolation. HSPF is a successor to the FORTRAN version of the Stanford Watershed Model. The Stanford Watershed Model evolved over the period from approximately 1956 through 1966. In 1974, work resulted in the widely available codes developed for and with support of the U.S. EPA. HSPF is a comprehensive and physically based watershed model that can simulate the hydrology and water quality with a time step less than a day (hourly). A schematic diagram of the HSPF model is shown on Figure 2. Figure 3 illustrates the primary components of a HSPF model, and the relationship between a watershed and associated groundwater basin.

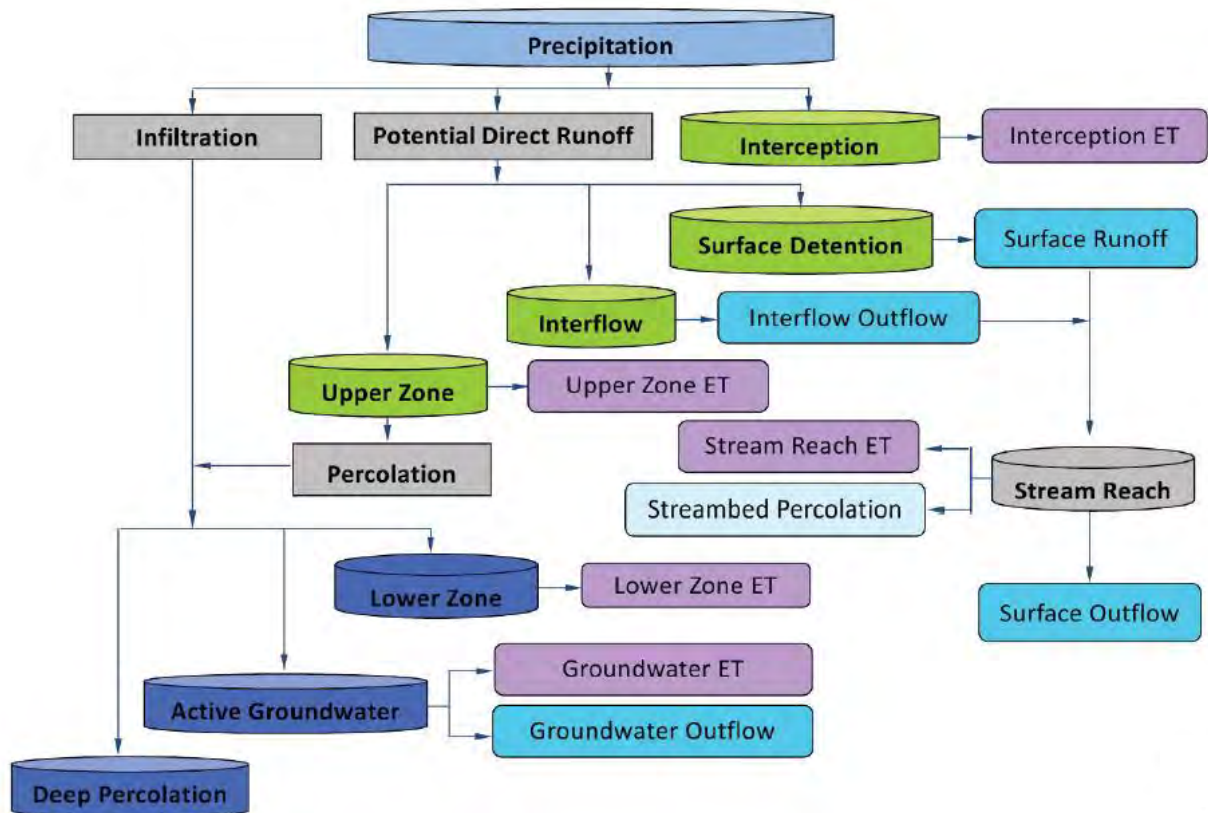


Figure 2 HSPF Diagram

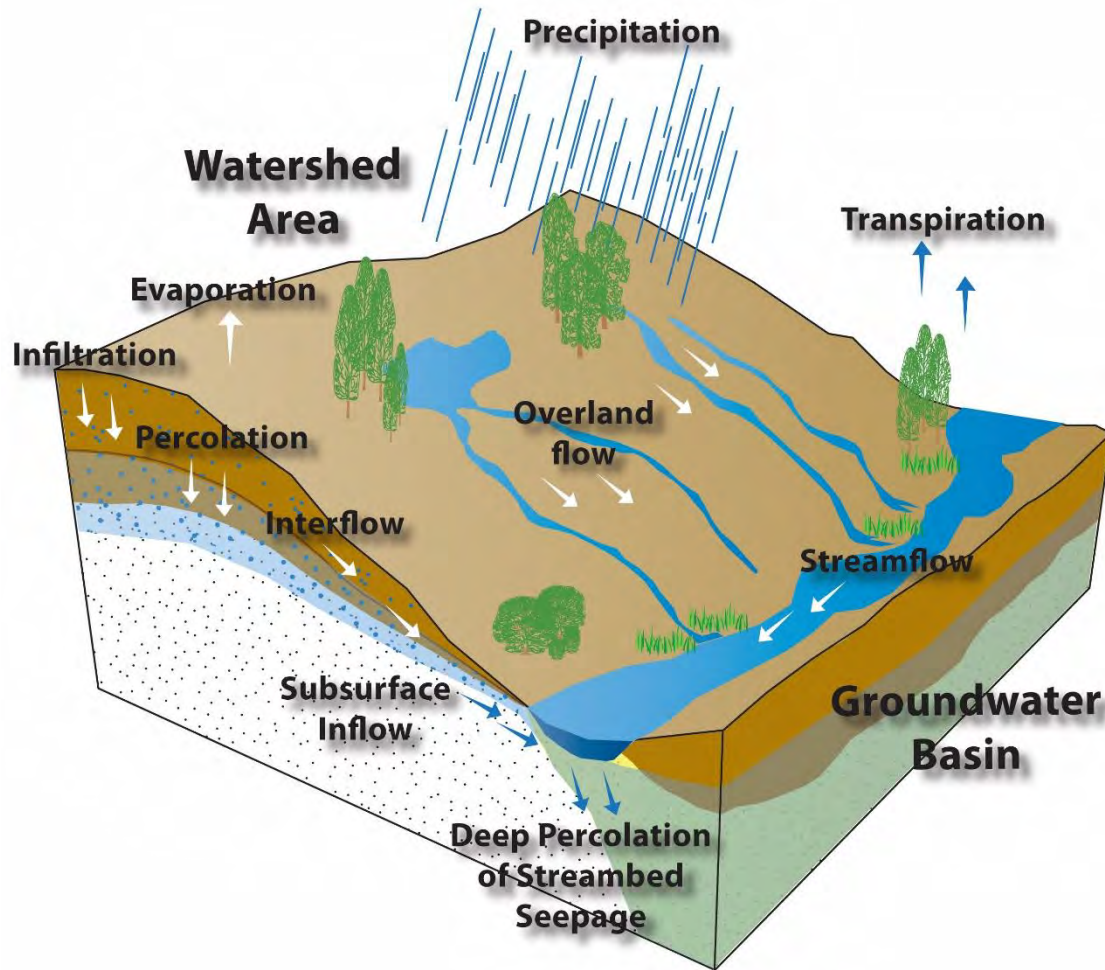


Figure 3 Illustration of HSPF Components

2.2 Data Needs for Watershed Model

Watershed hydrologic modeling requires a variety of data to characterize the water balance and hydrologic processes that occur in a watershed. These data include:

1. Land surface elevations,
2. Soil types,
3. Land use,
4. Precipitation,
5. Evaporation, (Zone map + CIMIS daily)
6. Streamflow,
7. Surface diversions, and
8. Reservoir releases

Descriptions of each data type used to develop the Upper San Luis Rey Watershed Model are provided in the following sections.

2.2.1 Land Surface Elevations

Land surface elevations were obtained by using a USGS 10-meter-by-10-meter DEM in ESRI ArcMap 10. The DEMs are used to evaluate surface water runoff patterns, and in turn to delineate the watershed and sub-watershed boundaries. Figure 4 depicts the 81 sub-watersheds delineated from the surface elevations and streams within the Upper San Luis Rey Watershed Model Boundary.

2.2.2 Soil Types

Soil type and distribution in the Basin and surrounding watershed was obtained from an ESRI shapefile of Soil Survey Geographic Database (SSURGO) hydrologic soil group information (Soil Survey Staff et al., 2020) (see Figure 5). There are four basic types of soils under this classification system (Group A through D), which are based on soil texture and properties.

- ▼ Group A soils have a high infiltration rate (low runoff potential) when thoroughly wet. They consist mainly of deep, well drained to excessively drained sands or gravelly sands and have a high rate of water transmission.
- ▼ Group B soils have a moderate infiltration rate when thoroughly wet. They consist mainly of moderately deep or deep, moderately drained soils that have moderately fine texture to moderately coarse texture and have a moderate rate of water transmission.
- ▼ Group C soils have a slow infiltration rate when thoroughly wet. They consist mainly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. They have a slow rate of water transmission.
- ▼ Group D soils have a very slow infiltration rate (high runoff potential) when thoroughly wet. They consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. Therefore, they have a very slow rate of water transmission.

2.2.3 Land Use

Land use information was obtained from the San Diego Association of Government. The land use for 1995, 2004 and 2017 (shown on Figure 6 through 8) were used to represent the land use for the modeling period from 1991 through 2000, 2001 through 2010, and 2011 through 2020, respectively.

2.2.4 Precipitation

Precipitation data were obtained from multiple precipitation stations within or outside the model boundary. Each station has varying periods and frequencies of recorded precipitation data. Three precipitation stations' data (Henshaw Dam Station, Palomar Mountain Observatory Station and Vista Station) were used for the Upper San Luis Rey Watershed Model (see Figure 9).

In addition to data from the three selected precipitation stations, gridded estimates of monthly and annual precipitation were obtained in the form of PRISM maps. PRISM (Parameter-elevation Regression on Independent Slopes Model) was developed by the National Resources Conservation Service (NRCS) National Water and Climate Center (NWCC) and the PRISM Climate Group at Oregon State University. Gridded data represents the long-term annual precipitation from 1981 through 2010. Isohyetal contours for this period was shown on Figure 9.

2.2.5 Evaporation

Evaporation zones and monthly average reference evapotranspiration (ET_o) values (inches/month) for the model area were obtained from the 2017 CIMIS Reference Evapotranspiration Map for the State of California. The ET_o zones displayed on the reference map represent regions of similar climate and vegetation characteristics that are used by CIMIS to define ET_o values for water use and irrigation demand estimation. As shown on Figure 10, most of the modeled area is within the South Coast Marine to Desert Transition Zone (Zone 9). ET_o refers to the total evaporative losses (evaporation and plant transpiration) from a reference crop, usually a short-turf grass growing with no moisture stress.

2.2.6 Streamflow

Historic daily streamflow data were obtained from two USGS gages (downloaded from the National Water Information System webpage) for varying periods of record (see Figure 11). The daily readings from these two gages (Station 11036700 San Luis Rey River Near Pauma Valley, and Station 11039800 San Luis Rey River Near Pala) were used to help calibrate the Upper San Luis Rey Watershed Model.

In addition, data for Henshaw Dam releases was used as the surface inflow, and surface diversion data from nine diversion locations were used as the surface outflow for the Watershed Model. The locations were shown on Figure 11.

2.3 Watershed Model Calibration

Model calibration is a trial-and-error process which consists of iteratively adjusting model parameters, within acceptable ranges, until the model provides a reasonable match between the model-simulated and measured data. Proper calibration is important in order to reduce uncertainty in the model results (Engel et al., 2007). The accuracy of data simulated by the calibrated model is evaluated using the techniques recommended by the authors of HSPF (AQUA TERRA, 2009).

Due to the limited data from available gaging stations, the Upper San Luis Rey Watershed Model was calibrated against measured streamflow data for the period 2008 through 2009 for Station 11036700 (downstream Pauma Valley) and for the period from 1991 through 1992 for Station 11039800 (downstream Pala). In addition, the model-calculated total volume of surface outflow through Station 11039800 was compared to observed data to further validate the model calibration. Model calibration was performed in accordance with guidelines provided by the United States Environmental Protection Agency (U.S. EPA, 2000). The major parameters adjusted during calibration of the Watershed Model included the following:

- ▼ Lower zone nominal soil moisture storage,
- ▼ Base groundwater recession,

- ▼ Fraction of groundwater inflow to deep recharge,
- ▼ Fraction of remaining ET from baseflow,
- ▼ Interflow inflow parameter,
- ▼ Lower zone ET parameter, and
- ▼ Function tables (FTABLE) which includes physical information (shape, depth, width, slope, length, Manning Factor and materials), and infiltration rates for reaches of each sub-watershed.

The calibration process also included checking the model-simulated values for each water balance recharge component; average annual values must be consistent with expected values for the watershed

2.3.1 Calibration Results

Hydrographs of model-simulated and measured monthly streamflow during the calibration period at two gaging stations are presented in Figures 13 through 16. As shown, there are similar temporal dynamics in both model-simulated and measured daily and monthly streamflow for both gaging stations, which indicates a “good” model calibration.

Standard regression analysis, known as the Pearson’s coefficient of determination, “Goodness-of-Fit” or r-squared (R^2), was used to evaluate how well the calibrated Basin Watershed Model simulated streamflow. This technique provided an indication of the strength of the linear relationship between model-simulated and measured monthly streamflow data. The R^2 value was calculated through scatter plots generated for measured and simulated monthly streamflow at two streamflow gaging stations. Results, summarized in Table 1 below, indicate there is a “good” match between the model-simulated and measured streamflow at San Luis Rey River near Pauma Valley gaging Station and a “good” match at the San Luis Rey River near Pala Station.

Table 2-1. Summary of the Watershed Model Calibration

Gage Name and Number	Daily Streamflow		Monthly Streamflow	
	Goodness-of-Fit (R^2)	Model Calibration Performance	Goodness-of-Fit (R^2)	Model Calibration Performance
San Luis Rey River Near Pauma Valley (Station No. 11036700)	0.83	Good	0.89	Very Good
San Luis Rey River Near Pala (Station No. 11039800)	0.76	Good	0.98	Very Good

Note: Performance criteria were determined based on Aqua Terra Consultants (2009).

Figure 17 compares the measured annual streamflow volume at Station 11039800 with the model-calculated annual streamflow volume. The mean residual is only about 3% of the average of measured volume. This further verify the calibration of the Upper San Luis Rey Watershed Model.

3.0 Upper San Luis Rey Groundwater Model

3.1 Conceptual Model

A conceptual model is the basis for building the structure of a groundwater model so that it best represents the hydrogeologic system. The conceptual understanding of the geohydrology, inflows (recharge) and outflows (discharge) for the USLRGM was described in detail in the Basin Setting Chapter of the GSP. Based on the local geology, three model layers were delineated for the USLRGM, including:

- Layer 1: Younger Alluvium and Alluvial Fan Deposits,
- Layer 2: Lakebed Deposits, and
- Layer 3: Older Alluvium

3.2 Model Codes

The USLRGM was constructed using MODFLOW, a block-centered, modular finite-difference groundwater flow code. Widely used and highly versatile, it was developed by the USGS (McDonald and Harbaugh, 1988) for the purpose of modeling both saturated and unsaturated groundwater flow. Specifically, the Newton formulation of the MODFLOW-2005 computer code, known as MODFLOW-NWT, was used for the USLRGM. The Newton-Raphson solver included in the MODFLOW-NWT code is well suited for solving problems involving drying and rewetting nonlinearities of the unconfined groundwater flow equation (Niswonger et al., 2011).

MODFLOW is modular in the sense that a standard format has been established for the interface between each module of the program, as well as the common variables that must be accessible to all modules. The modules or packages used include Basic (BAS), Evapotranspiration (EVT), Streamflow Routing (STR), Upstream Weighting (UPW), Recharge (RCH), Newton Solver (NWT), Horizontal Flow Barrier (HFB), Multi-Node Well 2 (MNW2), Well (WEL), and General-Head Boundary (GHB). The input data for the MODFLOW-NWT modules is based on a monthly basis (i.e., monthly stress periods) from January 1966 through December 2016. The monthly stress periods provide the ability to model the seasonal aspects of fluxes such as areal recharge, return flow, pumping, mountain front runoff, underflow, and streambed percolation.

3.3 Model Pre- and Post-Processors

The pre- and post-processors used to manipulate model input and output data arrays include the following:

- Geographical Information System (GIS);

- Groundwater Vistas; and
- Proprietary software developed by GEOSCIENCE.

The GIS software used was ESRI ArcMap 10.5. Groundwater Vistas, which was developed by Environmental Simulations, Inc. (1999), is a Windows graphical user interface for 3-D groundwater flow and transport modeling. FORTRAN source codes, custom-developed by GEOSCIENCE, were used to prepare MODFLOW model input data for the well and recharge packages and hydraulic conductivities.

3.4 Model Grids and Cells

The USLRGM domain covers an area of approximately 140 square miles (90,000 acres) with a finite-difference grid consisting of 450 rows in the northeast to southwest direction and 845 columns in the northwest to southeast direction. The grid cell size is 100 ft x 100 ft (Figure 1).

3.5 Boundary Conditions

A boundary condition is any external influence or effect that acts either as a source or sink, adding or removing water from the groundwater flow system. Boundary conditions are used to simulate the model's interaction with the surrounding regional system. The boundary conditions used in this model include no-flow, general-head, stream, and well (see Figures 18). The no-flow cells assigned to the non-alluvial or low permeability bedrock portions of the model area are depicted as gray on Figure 18. A general-head boundary, shown in green on Figure 18, was used to represent groundwater underflow outflow to Bonsall Basin. Stream cells (shown in blue on Figure 18) were used to simulate streambed percolation recharge from San Luis Rey River. The locations of pumping wells, included in well boundary condition, are shown as red squares on Figure 18. In addition, the mountain front recharge (shown in purple) and artificial recharge (shown in light blue) are also included in the well boundary condition.

3.6 Aquifer Parameters

The initial development of aquifer parameters was based on previous studies and cross sections developed during the development of this GSP. During the USLRGM calibration, these initial aquifer parameter values were refined through iterative manual adjustments within pre-established upper and lower bounds in order to minimize the residuals between measured and model-calculated groundwater levels. The calibrated aquifer parameters for the USLRGM are provided in the following sections.

3.6.1 Model Layer and Basement Elevations

The base elevations of each model layer were determined from the cross-sections, discussed in detail in the Basin Setting Chapter, developed using lithologic data from geophysical borehole logs and driller's logs (Figure 19).

3.6.2 Hydraulic Conductivity

The calibrated horizontal hydraulic conductivity values are shown for each model layer on Figure 20. The calibrated horizontal hydraulic conductivity generally ranges from approximately 20 ft/day to 500 ft/day. The vertical hydraulic conductivity values are assumed to be 1/10 of the horizontal hydraulic conductivity values.

3.6.3 Specific Yield and Storativity

Specific yield, or secondary storage coefficient, is used in unconfined aquifers while storativity is used for confined aquifers. For the USLRGM, Layer 1 was set to be unconfined aquifer, and Layers 2 and 3 were set to be convertible between unconfined aquifers and confined aquifers based on model-simulated water levels and aquifer thicknesses. Values for both specific yield and storativity were set in the USLRGM, and the model uses the appropriate value based on whether the aquifer is confined or unconfined. Spatial distributions of specific yield for Model Layers 1 through 3 are shown on Figure 21. As shown, the specific yield ranges from 0.03 to 0.20. A constant specific storativity value of 0.00001 was set for Layer 2 and Layer 3 if they are converted to confined aquifer during the transient model simulation.

3.7 Recharge and Discharge

Table 3-1 shows the recharge and discharge components in the USLRGM as well as the MODFLOW package used to simulate the terms.

Table 3-1. USLRGM Groundwater Basin Model Recharge and Discharge Components

	Term	MODFLOW Package Used
INFLOW (RECHARGE)	Deep Percolation of Streambed Percolation	Stream Flow Routing Package
	Deep Percolation from Direct Precipitation	Recharge Package
	Anthropogenic Return Flow	Recharge Package
	Recharge from Mountain Front Runoff	Well Package
	Artificial Recharge (Spreading Basins)	Well Package
OUTFLOW (DISCHARGE)	Groundwater Pumping	Well Package
	Evapotranspiration by Riparian Vegetation	ET Package
	Subsurface Outflow through the Basin Boundary	General Head Boundary

3.7.1 Deep Percolation of Streambed Seepage

Streambed percolation from San Luis Rey River to the Basin was simulated by the USLRGM using the Streamflow Routing Package. The Streamflow Routing Package routes tributary inflows through the stream network, shown on Figure 16, and simulates streambed percolation based on streamflow, streambed conductance, and groundwater level. All initial inflow values from San Luis Rey River and its tributaries were based on Upper San Luis Rey Watershed Model and were further adjusted during USLRGM calibration. Model-calculated recharge from streambed percolation averaged 6,007 acre-ft/yr

for the model calibration period. Negative numbers in the water budget table (Table 1) indicate net volume of rising water from groundwater basin to San Luis Rey River.

3.7.2 Deep Percolation of Direct Precipitation and Anthropogenic Return Flow

Deep percolation from direct precipitation, or areal recharge and anthropogenic return flow were applied to the uppermost active model layer of the USLRGM using the Recharge Package. The deep percolation from direct precipitation was calculated by the Upper San Luis Rey Watershed Model described in Section 2. Return flow was calculated by multiplying the groundwater pumping (or applied water) by a return flow factor based on different land use. The return flow factors used were listed below (Stetson Engineers, 2016):

- Commercial/Industrial/Public Facilities: 0.13
- High Density Residential: 0.09
- Low Density Residential: 0.11
- Agricultural: 0.18

Table 1 lists annual recharge for the model calibration period of 1991 through 2020. The average annual inflows were 3,790 acre-ft/yr and 2,689 acre-ft/yr for deep percolation from direct precipitation and anthropogenic return flow, respectively.

3.7.3 Recharge from Mountain Front Runoff

The amount of recharge from mountain front runoff was calculated by the Upper San Luis Rey Watershed Model, discussed in Section 2, and was applied to the USLRGM using the Well Package. Table 1 lists annual recharge from mountain front runoff for the model calibration period of 1991 through 2020, and the annual average was 7,051 acre-ft/yr.

3.7.4 Artificial Recharge via Spreading Ponds

Artificial recharge via spreading ponds was estimated to be 228 acre-ft/yr within the USLRGM (see Table 1). This includes recorded values for Pauma Valley spreading ponds and unrecorded recharge in Rincon and Pala area. The unrecorded recharge volumes from spreading ponds were estimated from groundwater pumping (or applied water), and applying an assumed 40% indoor usage factor, 60% sewer connection factor, and 95% treatment plant recovery factor.

3.7.5 Groundwater Pumping

The groundwater pumping was simulated by the USLRGM using the Well Package. It includes the recorded historical pumping from Yuima Municipal Water District, Rancho Pauma MWC, Pauma Valley MWC, Lazy H MWC, Rancho Estates MWC, Lyaal and Agua Tibia, and unrecorded pumping from private agricultural irrigation wells and pumping within Indian Reservations (Pauma, Rincon and Pala). The unrecorded private agricultural pumping was estimated from land use in three different time snapshots of 1998, 2008 and 2018, and agricultural groundwater demand factors (in the unit of acre-ft/acre) published by County of San Diego Department of Planning and Land Use in 2010 (County of San Diego, 2010). The total recorded pumping and estimated unrecorded pumping was used as the model input of the USLRGM, and the model calculated the actual groundwater pumping (as the model output) based on simulated water levels for each simulation month. The difference between the model input and

model output reflects the Imported Water used, in addition to the groundwater supply, to meet the total water demand. Figure 22 illustrates the model-calculated annual groundwater pumping within the USLRGM area. As shown, the average annual pumping is approximately 14,260 acre-ft/yr.

3.7.6 Evapotranspiration by Riparian Vegetation

Figure 18 shows the locations of evapotranspiration (ET) by riparian vegetation model cells. ET from a groundwater system generally decreases with decreasing groundwater elevation and is at its highest in areas where groundwater elevations approach or exceed land surface. ET is simulated in the USLRGM using the Evapotranspiration Package. In a given model cell, ET ranges from the maximum ET rate at land surface to zero at a specified ET extinction depth. The outflow from ET depends on the proximity of the water table to land surface and the type of riparian vegetation present in the area. During the model calibration period, the model-calculated ET averaged 2,269 acre-ft/yr.

3.7.7 Subsurface Outflow through the Basin Boundary

Subsurface outflow through the Basin boundary was incorporated into the USLRGM using the General Head Boundary (GHB). A total of 17 model cells are assigned as general head cells to simulate the subsurface outflow to the Bonsall Basin (see Figure 18). The annual average subsurface outflow was 4,780 acre-ft/yr (see Table 1).

3.8 Model Calibration

3.8.1 Model Calibration Process and Results

Model calibration is performed to improve the accuracy of the model in simulating observed groundwater levels. The method used to calibrate the USLRGM was the industry standard “history matching” technique in which hydrogeologic parameters are manually varied until the best fit is achieved for transient conditions. These parameters included horizontal and vertical hydraulic conductivities, specific yield, and GHB and streambed conductance. The USLRGM was calibrated for the period January 1991 through December 2020.

The USLRGM calibration included an initial condition simulation, or model spin-up period, with model input from January 1991. The goal of the initial condition model run was to develop a numerically stable initial condition, in good agreement with observed water levels, for the beginning of the transient calibration run. The initial condition calibration was developed using a trial-and-error approach as described by Danskin and others (2005). The initial water level for January 1991 is shown on Figure 23.

Hydrographs for the calibration for selected wells are shown on Figure 24. In general, the water levels calculated by the calibrated USLRGM match well with the measured water levels. Figure 25 shows measured versus model-calculated water levels. As shown, the 2,590 groundwater level measurements from 52 wells are mainly clustered around a diagonal line (representing where measured water levels match model-calculated water levels) and within a band of plus/minus one standard deviation water level residual (i.e., +/- 71.20 ft). This reflects what is considered in groundwater flow modeling to be a good match between measured and model-calculated water levels. The good calibration is supported by a low relative error of 8.4%. The relative error is determined from the water level residuals (i.e., observed water level less model-calculated water level) and is the standard deviation of the residuals

divided by the range in observed values. Common modeling practice considers the calibration to be a good fit if the relative error is less than 10% (Spitz and Moreno, 1996; and Environmental Simulations, Inc., 1999).

3.8.2 Water Budget

The water budgets from the transient model calibration are presented in Table 1 and annual average water budgets from 1991 to 2020 is depicted on Figure 26. As shown, the annual average total inflow and outflow are 19,765 acre-ft/yr and 21,313 acre-ft/yr, respectively for the modeling period from 1991 through 2020, which results in an average decrease in change in storage of 1,548 acre-ft/yr.

4.0 Upper San Luis Rey Groundwater Model Limitations and Uncertainty

The USLR Watershed and Groundwater Models are useful tools for evaluating water levels and storage of the USLR Valley aquifer system. However, they are simplified approximations of complex hydrogeologic systems and have been designed with certain built-in assumptions. The accuracy of the predictions made by the integrated model is highly dependent on the simplifying assumptions used. In addition, the modeling results are not absolutes, but are indications that will need to be confirmed by actual operations, monitoring and refinement through an adaptive management process.

A reliable watershed or groundwater model depends upon accurate and abundant sources of measured data and a satisfactory calibration and/or validation period. Often, in absence of complete or accurate records, model input represents estimated and/or averaged values. Future use of an extended data set and calibration period should continue to improve the accuracy and reliability of the model.

5.0 References

- AQUA TERRA, 2009. Hydrologic Modeling of the Santa Clara River Watershed with the U.S. EPA Hydrologic Simulation Program – FORTRAN (HSPF). Prepared for Ventura County Watershed Protection District. July 24, 2009.
- County (County of San Diego) Department of Planning and Land Use, 2010. County of San Diego Department of Planning and Land Use General Plan Update Groundwater Study. Dated April 2010. Available at: https://www.sandiegocounty.gov/content/dam/sdc/pds/gpupdate/docs/BOS_Aug2011/EIR/Appendix_D_GW.pdf.
- Engel, B., Storm, D., White, M., and Arnold, J.G., 2007. A hydrologic/water Quality Model Application Protocol. Journal American Water Resources Association.
- McDonald, M.G., and A.W. Harbaugh, 1988. A Modular Three-Dimensional Finite-Difference Groundwater Flow Model: U.S. Geological Survey Techniques of Water-Resources Investigations Book 6, Chapter A1, 586 p.
- Niswonger, R.G., S. Panday, and M. Ibaraki, 2011. MODFLOW-NWT, a Newton Formulation of MODFLOW-2005: U.S. Geological Survey Techniques and Methods 6-A37.
- USDA NRCS (US Department of Agriculture, Natural Resources Conservation District), 2020. Soil Survey Geographic (SSURGO) database for San Diego County, California. Available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.
- Spitz, K. and Moreno, J., 1996. A Practical Guide to Groundwater and Solute Transport Modeling. Oxford University Press, Inc.
- Stetson, 2016. Water Use Factors and Return Flow Rates Applied to Land Use Coverage within PRMS Model. Prepared for the Santa Margarita River Groundwater Model Working Group, dated October 18, 2016.
- U.S. EPA, 2000. BASINS Technical Note 6, Estimating Hydrology and Hydraulic Parameters for HSPF. July, 2000. EPA-823-R00-012. U.S. Environmental Protection Agency, Office of Water, Washington, D.C.

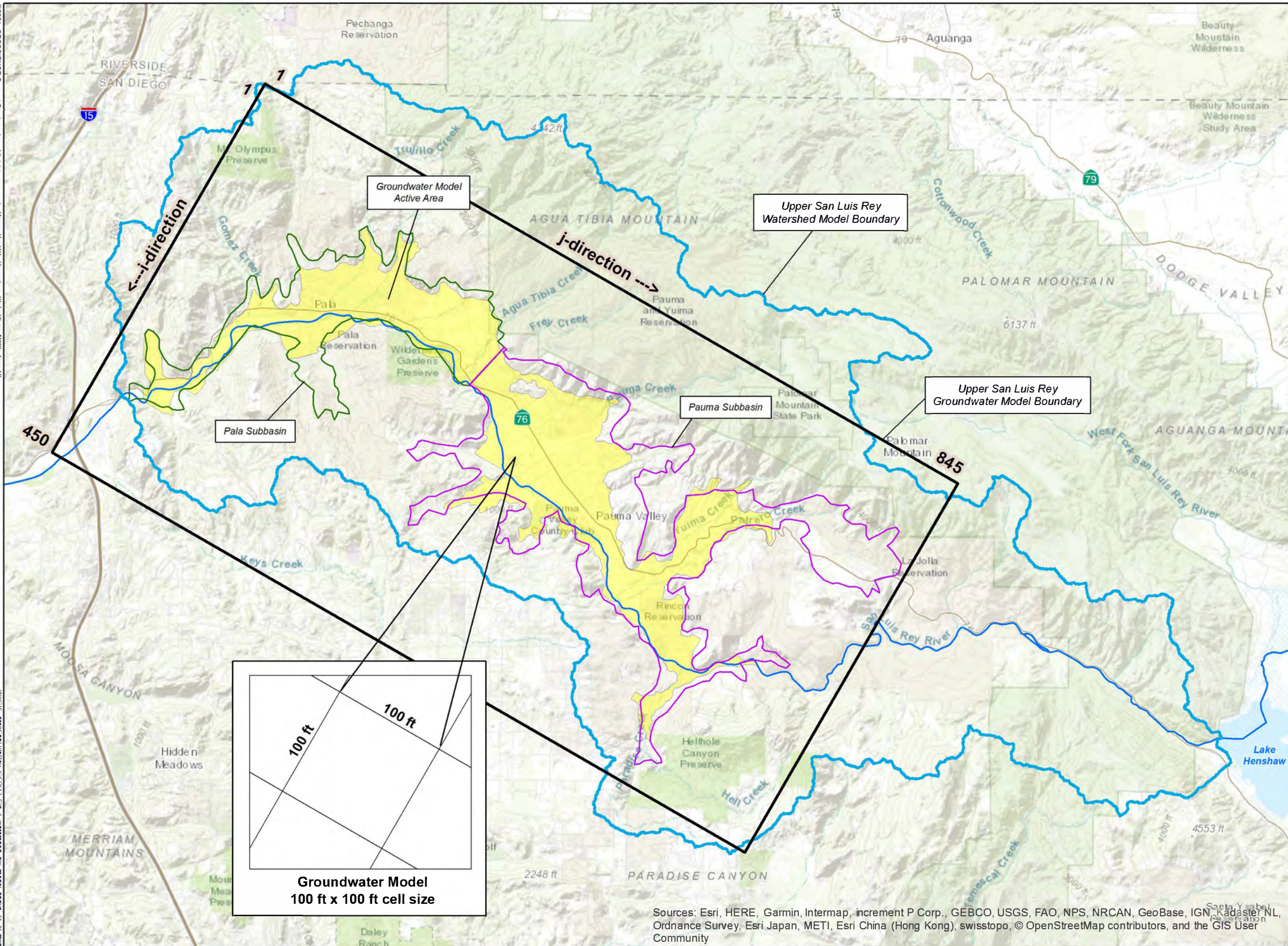
FIGURES

GEOSCIENCE








©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn by: UB. Projection: State Plane 1983, Zone VI

V:\GIS\proj\uslre\fig_1\watershed_gw_model_0905_11-21.mxd



EXPLANATION

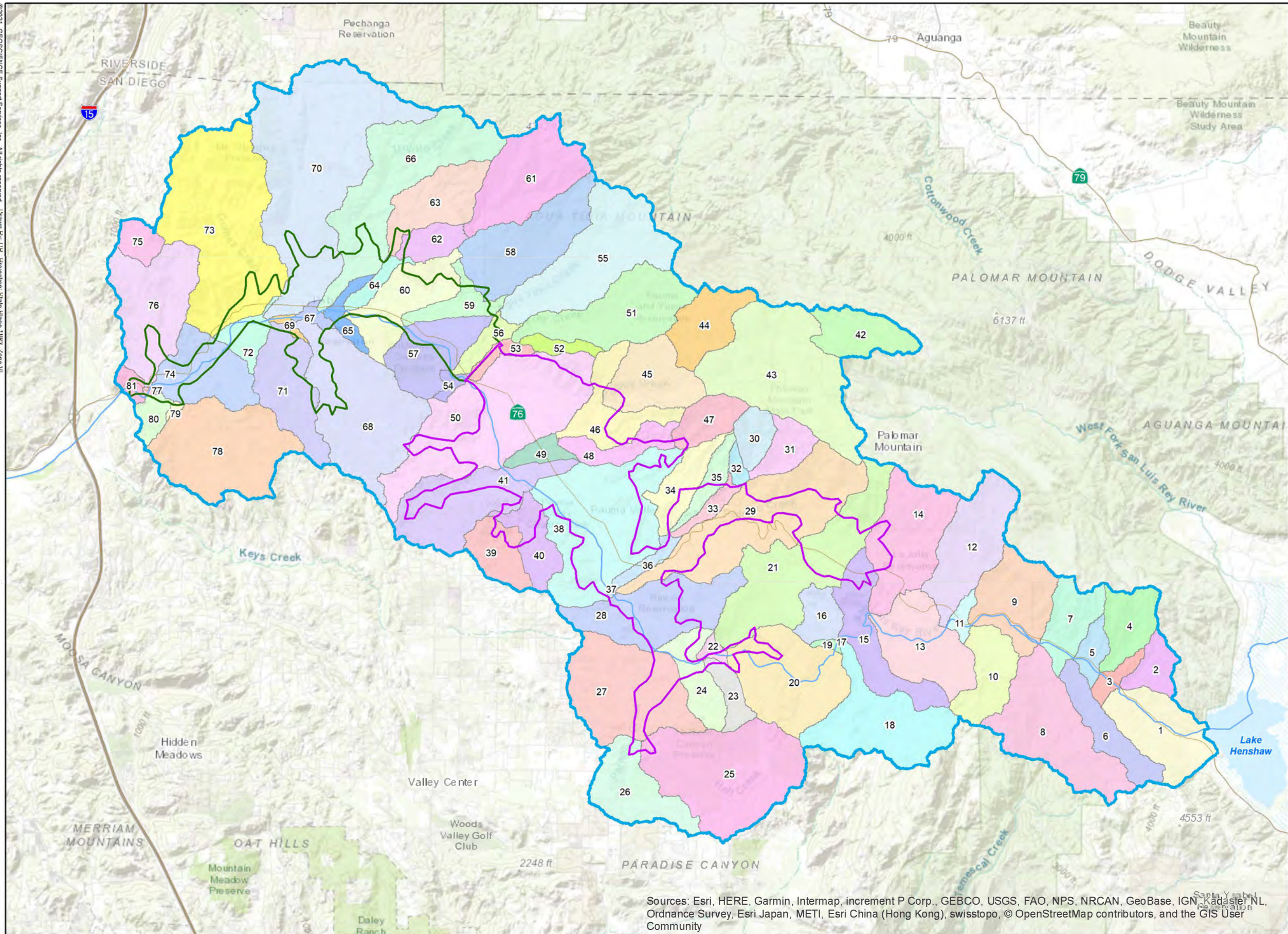
-  Upper San Luis Rey Watershed Model Boundary
-  Upper San Luis Rey Groundwater Model (USLRGM) Boundary
450 X 845 X 3 Layers = 1,140,750 cells
-  Upper San Luis Rey Groundwater Model (USLRGM) Active Model Area
-  Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
-  Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)

N
0 2 4
Miles

**UPPER SAN LUIS REY
WATERSHED AND
GROUNDWATER
MODEL BOUNDARIES
(USLRGM)**

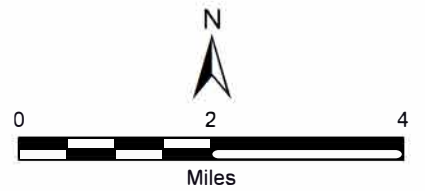
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Jan-22



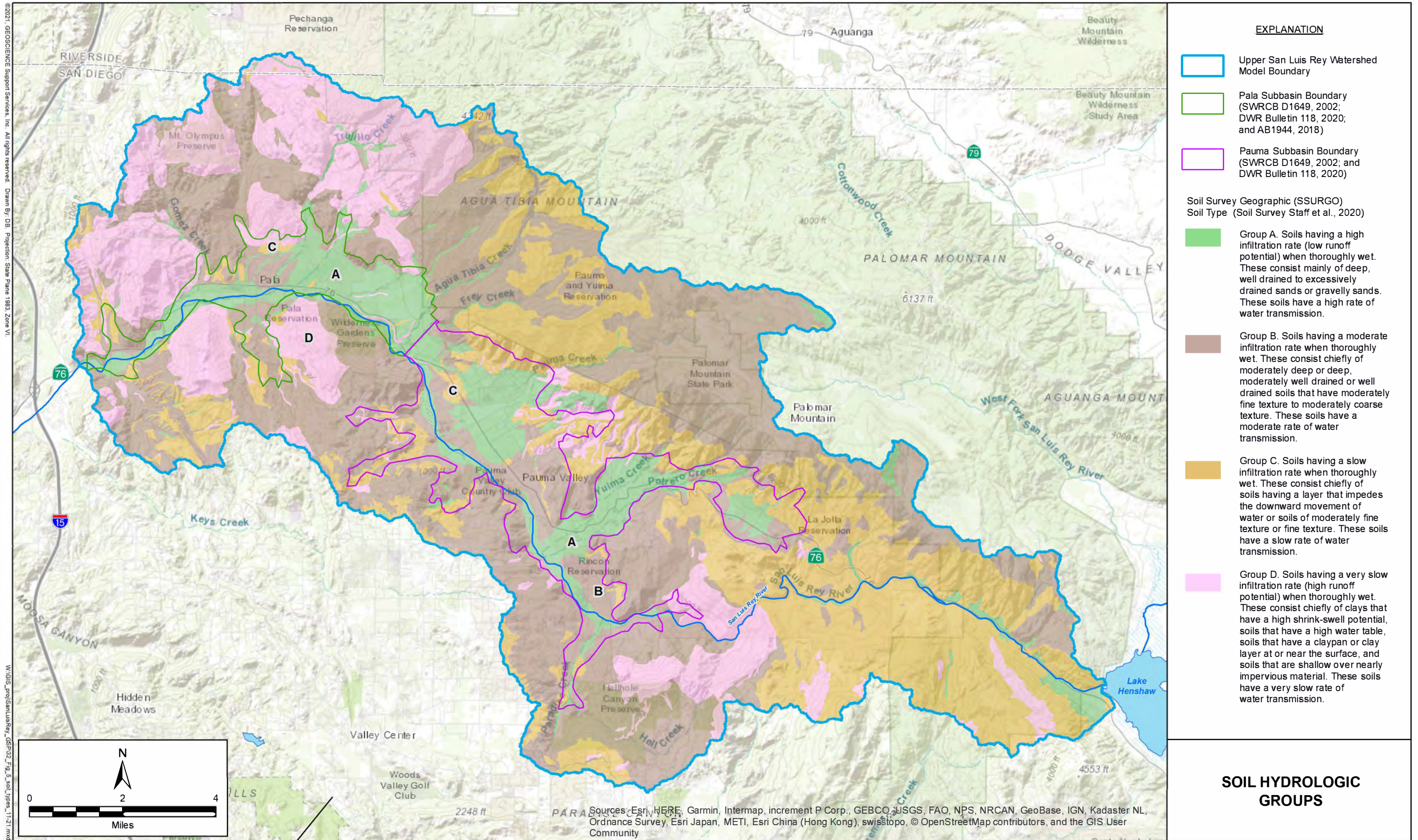
EXPLANATION

	Upper San Luis Rey Watershed Model Boundary
	Sub-Watershed Boundary
	Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
	Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)



SUB-WATERSHED BOUNDARIES

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community



Jan-22

PAUMA VALLEY GSA
 DEVELOPMENT AND CALIBRATION OF UPPER SAN LUIS REY SURFACE WATER AND GROUNDWATER MODEL

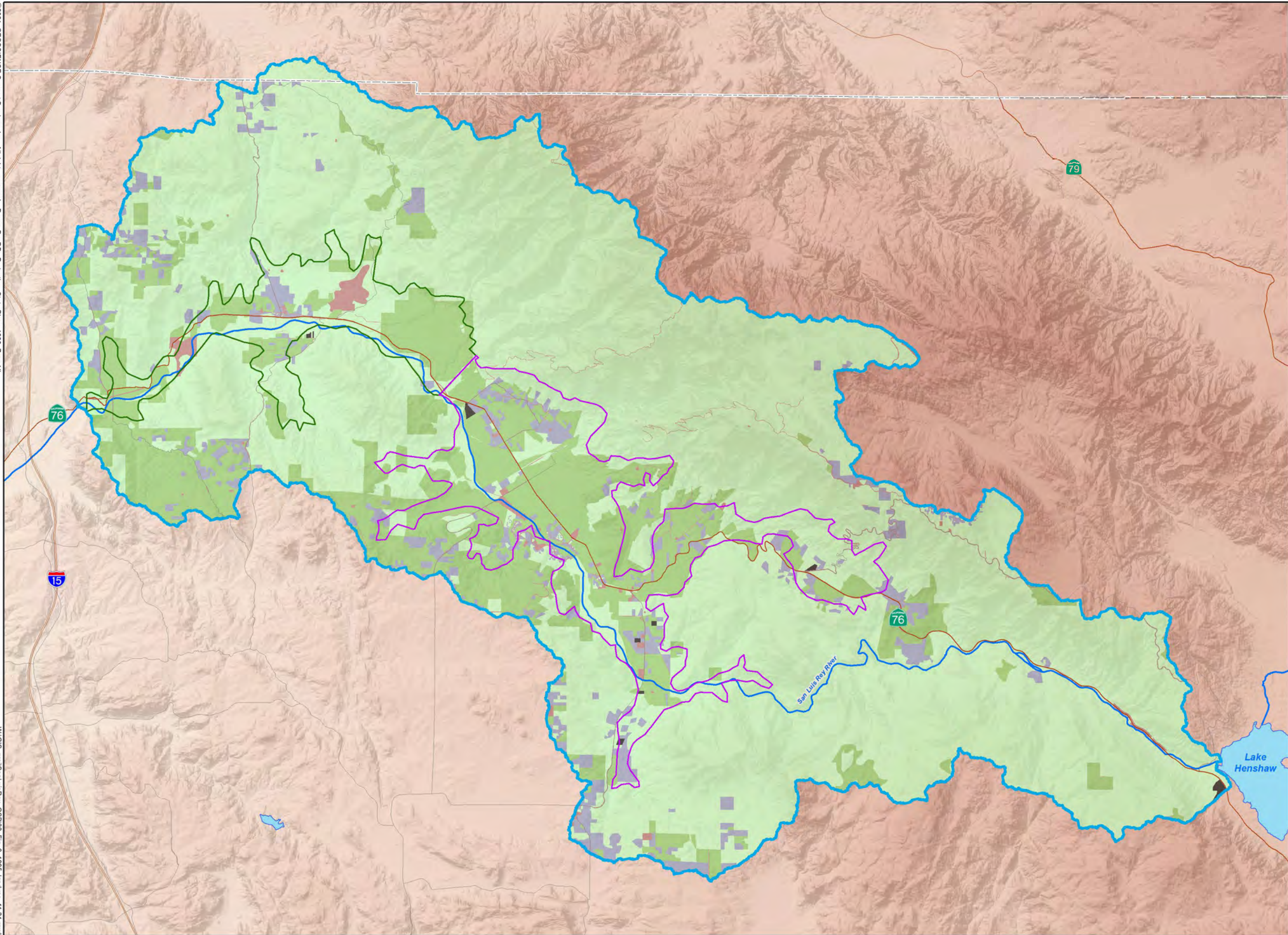
FIGURE 5



©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn By: DB. Projection: State Plane 1983, Zone VI.

W:\GIS_proj\SanLuisRey_GSP\32_Fig_6_1995_Landuse_11.21.mxd

Jan-22

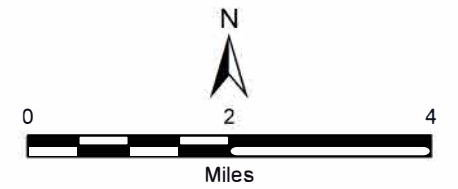


EXPLANATION

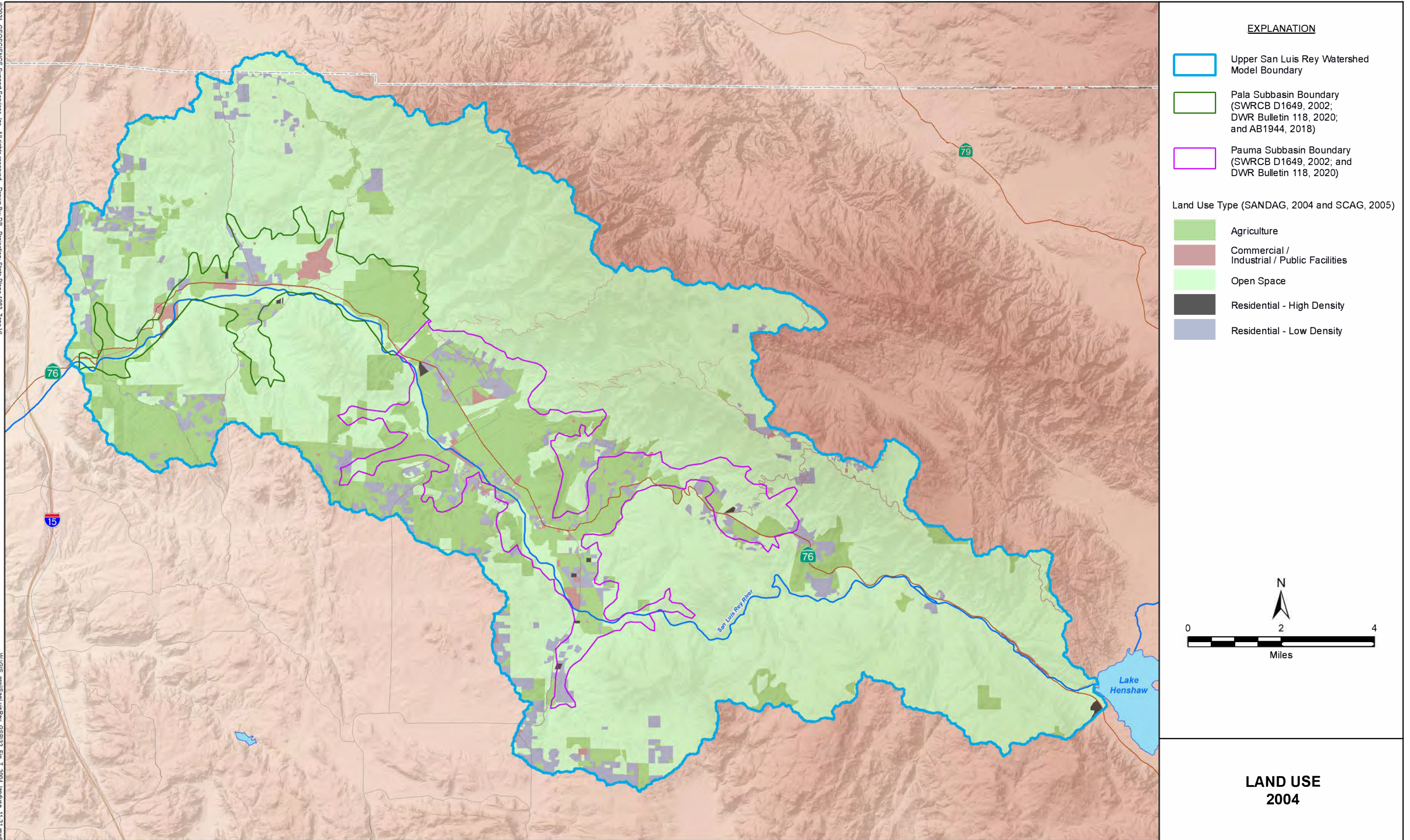
- Upper San Luis Rey Watershed Model Boundary
- Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
- Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)

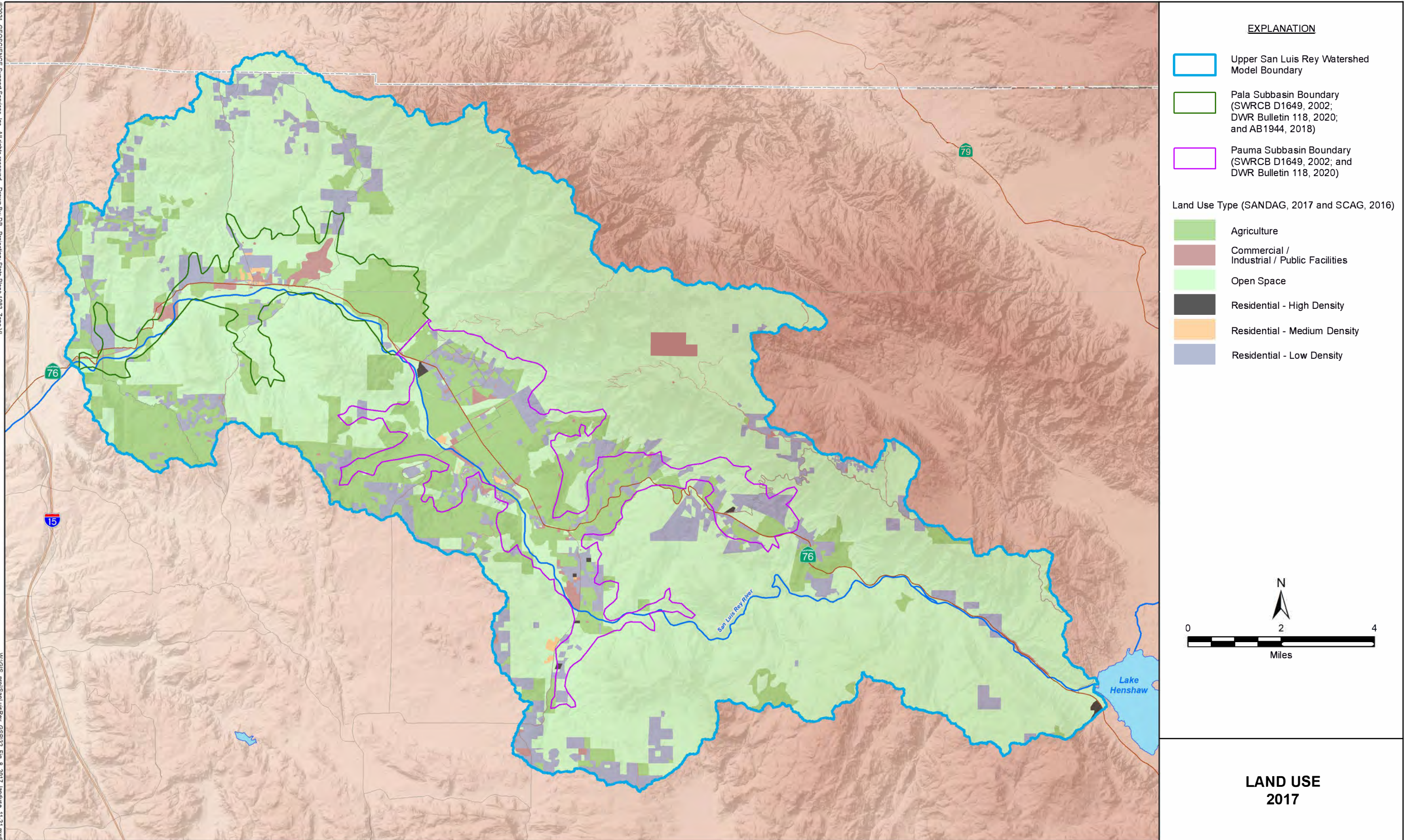
Land Use Type (SANDAG, 1995 and SCAG, 1993)

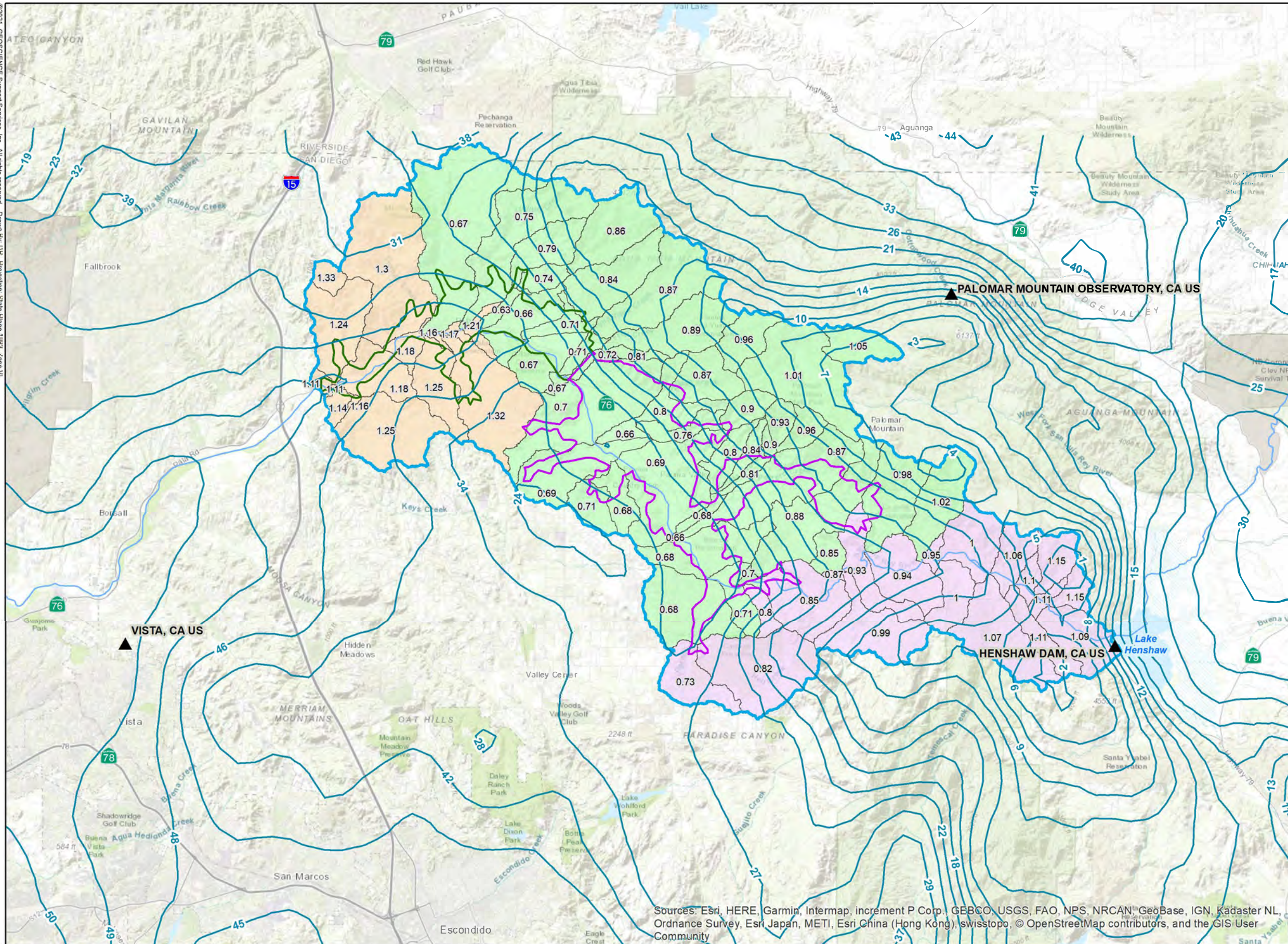
- Agriculture
- Commercial / Industrial / Public Facilities
- Open Space
- Residential - High Density
- Residential - Low Density



**LAND USE
1995**





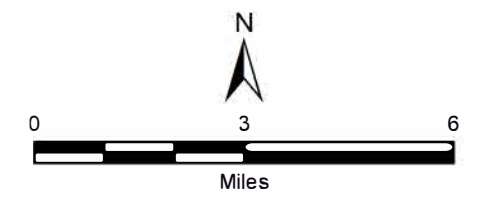


EXPLANATION

- Upper San Luis Rey Watershed Model Boundary
- Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
- Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)
- Precipitation Station Location
- 1.02 Sub-Watershed Boundary and Precipitation Adjustment Factor
- 12 Average Annual Precipitation, in. (1981-2010 PRISM)

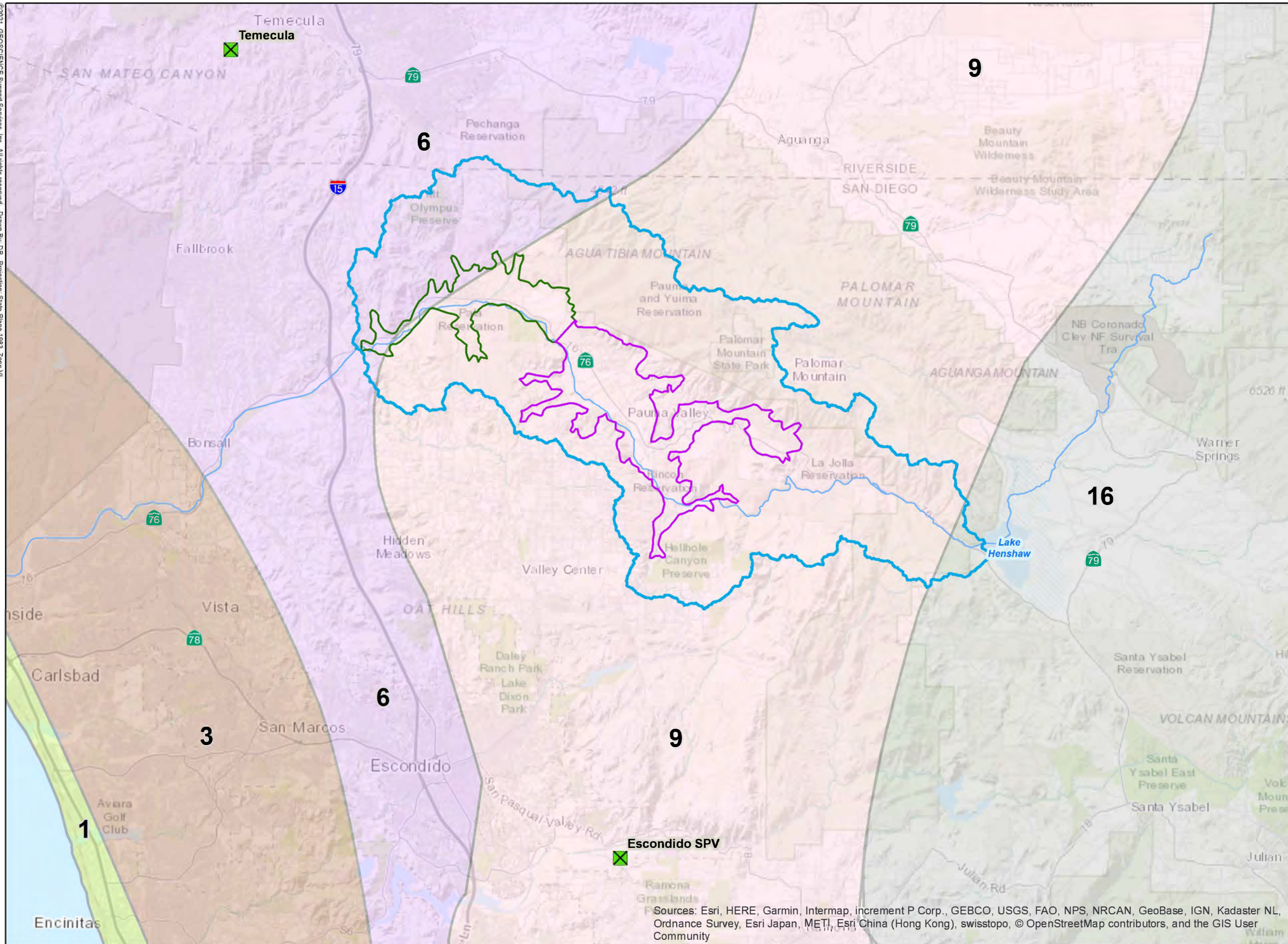
Colors of sub-watersheds represent which designated precipitation station was used.

- Henshaw Dam
- Palomar Mountain Observatory
- Vista



PRECIPITATION STATION LOCATIONS AND PRISM PRECIPITATION ADJUSTMENT FACTORS

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

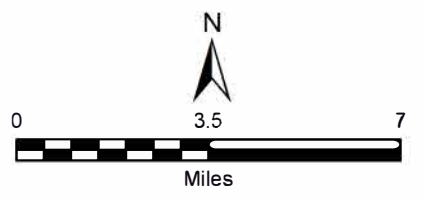


EXPLANATION

- Upper San Luis Rey Watershed Model Boundary
- Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
- Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)
- ✕ Evaporation Station Location

Evapotranspiration (ET_o) Zones
(Source: CIMIS 2017)

- 1 Coastal Mixed Fog Belt
- 3 Coastal Valleys and Plains and North Coast Mountains
- 6 Upland Central Coast and Los Angeles Basin
- 9 South Coast Marine to Desert Transition
- 16 Westside San Joaquin Valley & Mountains East & West of Imperial Valley

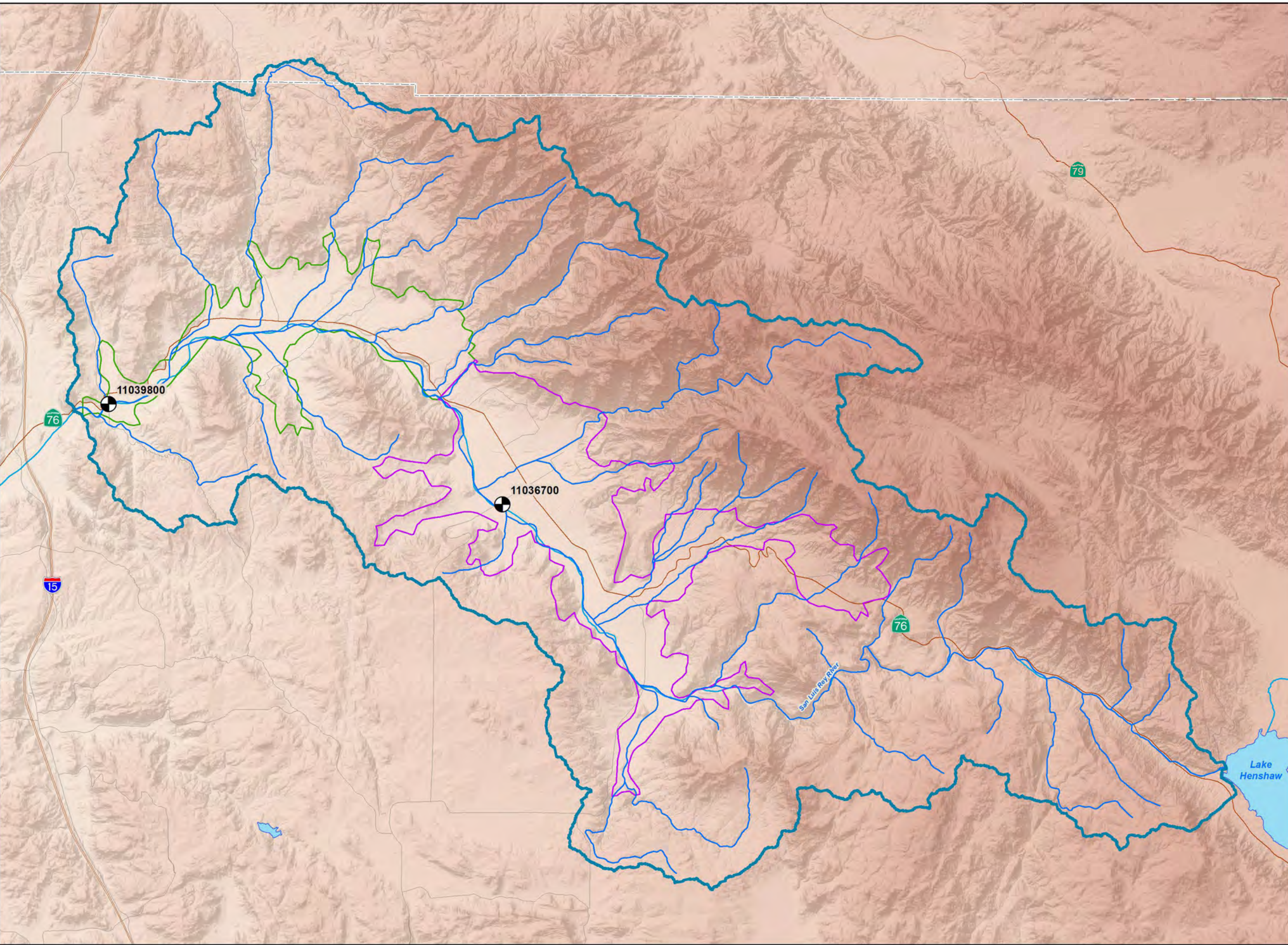


EVAPORATION STATION LOCATIONS AND REFERENCE EVAPOTRANSPIRATION ZONES






Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

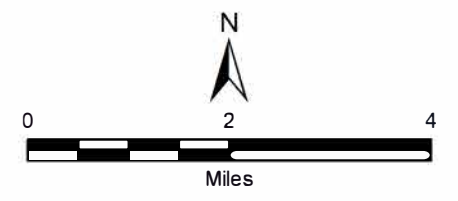
©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn By: DB. Projection: State Plane 1983, Zone VI.

W:\GIS\proj\SanLuisRey\GSP\32_Fig_11_stream_channels_gagingstations_11.21.mxd



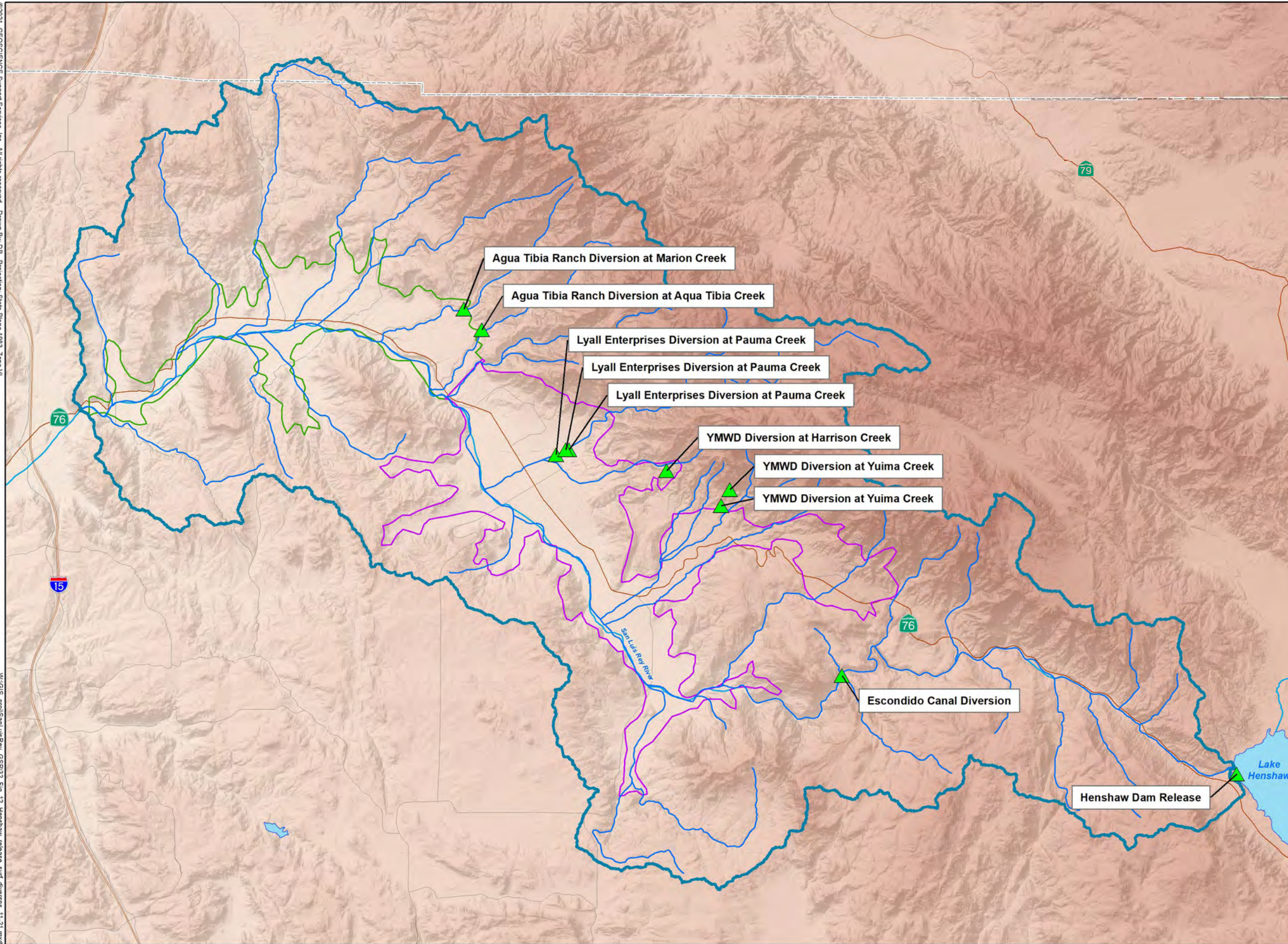
EXPLANATION

-  Upper San Luis Rey Watershed Model Boundary
-  Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
-  Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)
-  Gaging Station Location
 - 11036700 - San Luis Rey R A Cole Grade Rd NR Pauma Valley CA
 - 11039800 - San Luis Rey R A Couser Cyn BR NR Pala CA
-  Stream Channel








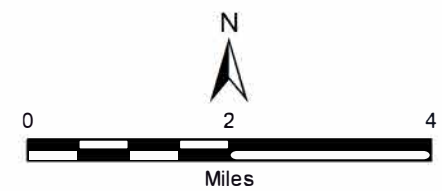
STREAM CHANNEL TYPES AND GAGING STATION LOCATIONS

Jan-22



EXPLANATION

-  Upper San Luis Rey Watershed Model Boundary
-  Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
-  Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)
-  Location of Lake Henshaw Release and Surface Diversions
-  Stream Channel



**LAKE HENSHAW
RELEASE AND
SURFACE
DIVERSION**

Scatterplot of Measured and Model-Simulated Daily Streamflow at San Luis Rey River at Couser Canyon Bridge Near Pala (11039800) - 1991 to 1992

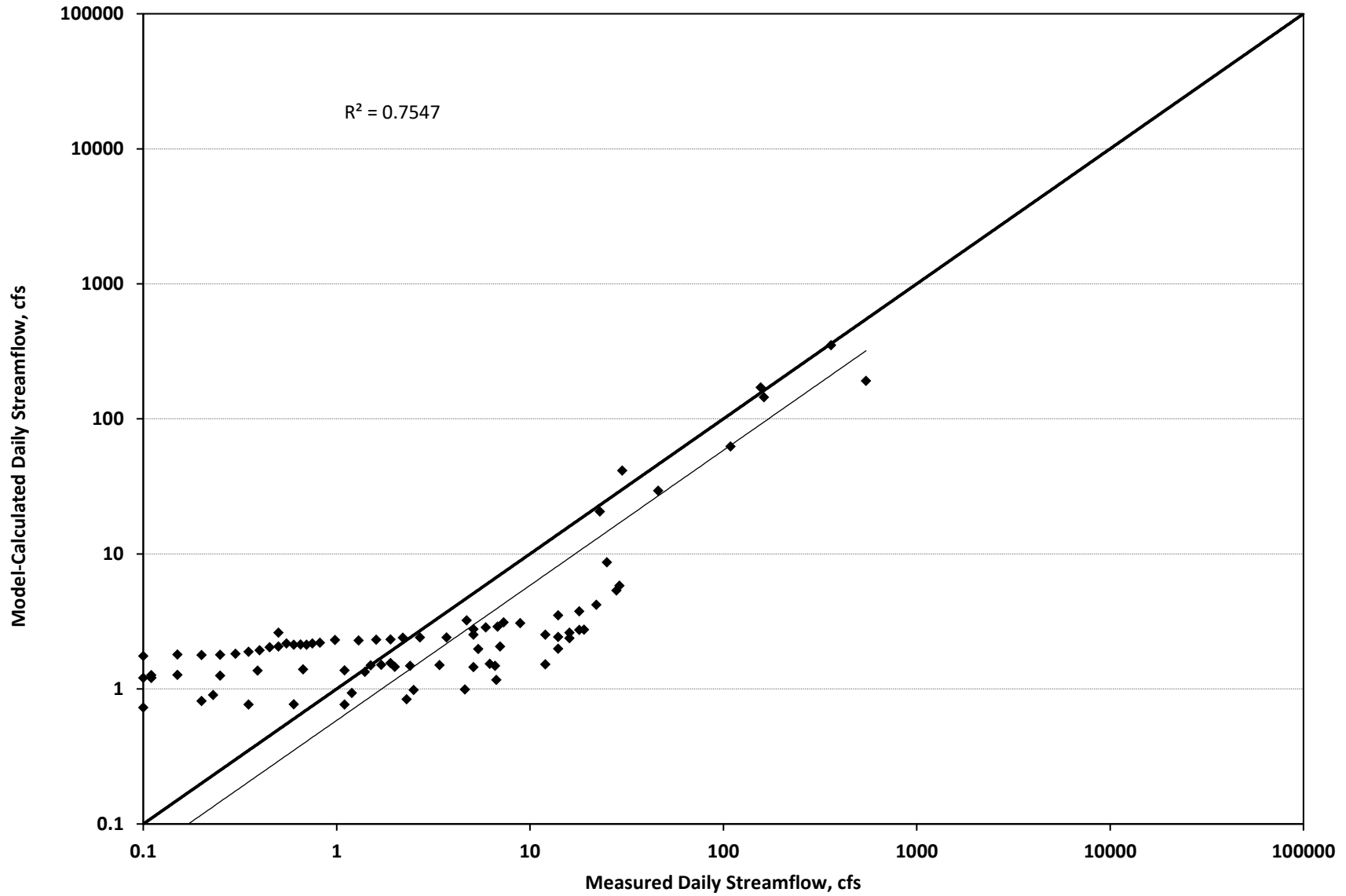


Figure 13

Scatterplot of Measured and Model-Simulated Daily Streamflow
at San Luis Rey River at Cole Grade Road, near Pauma Valley, CA (11036700) - 2008 to 2009

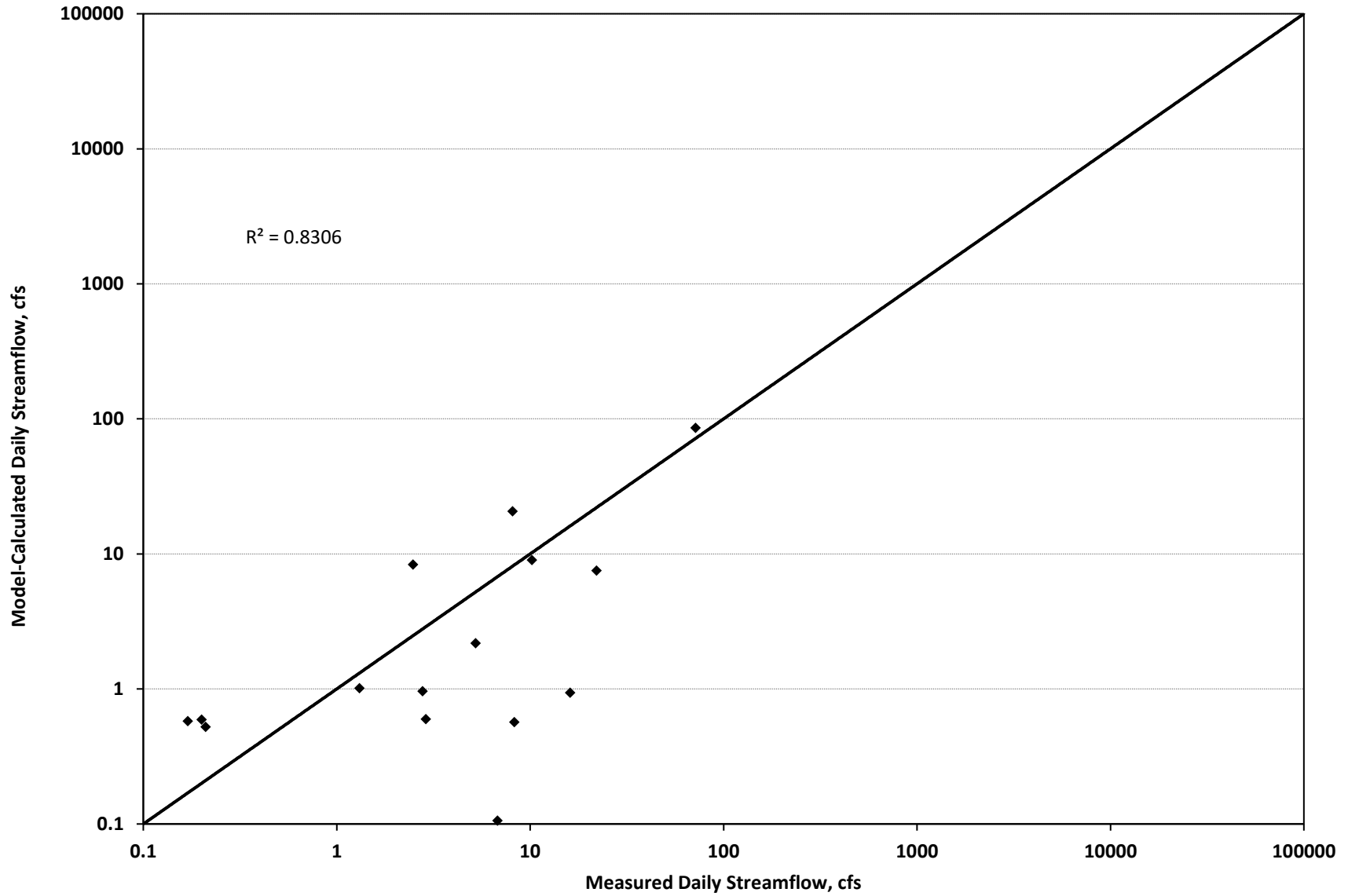


Figure 14

Scatterplot of Measured and Model-Simulated Monthly Streamflow at San Luis Rey River at Couser Canyon Bridge Near Pala (11039800) - 1991 to 1992

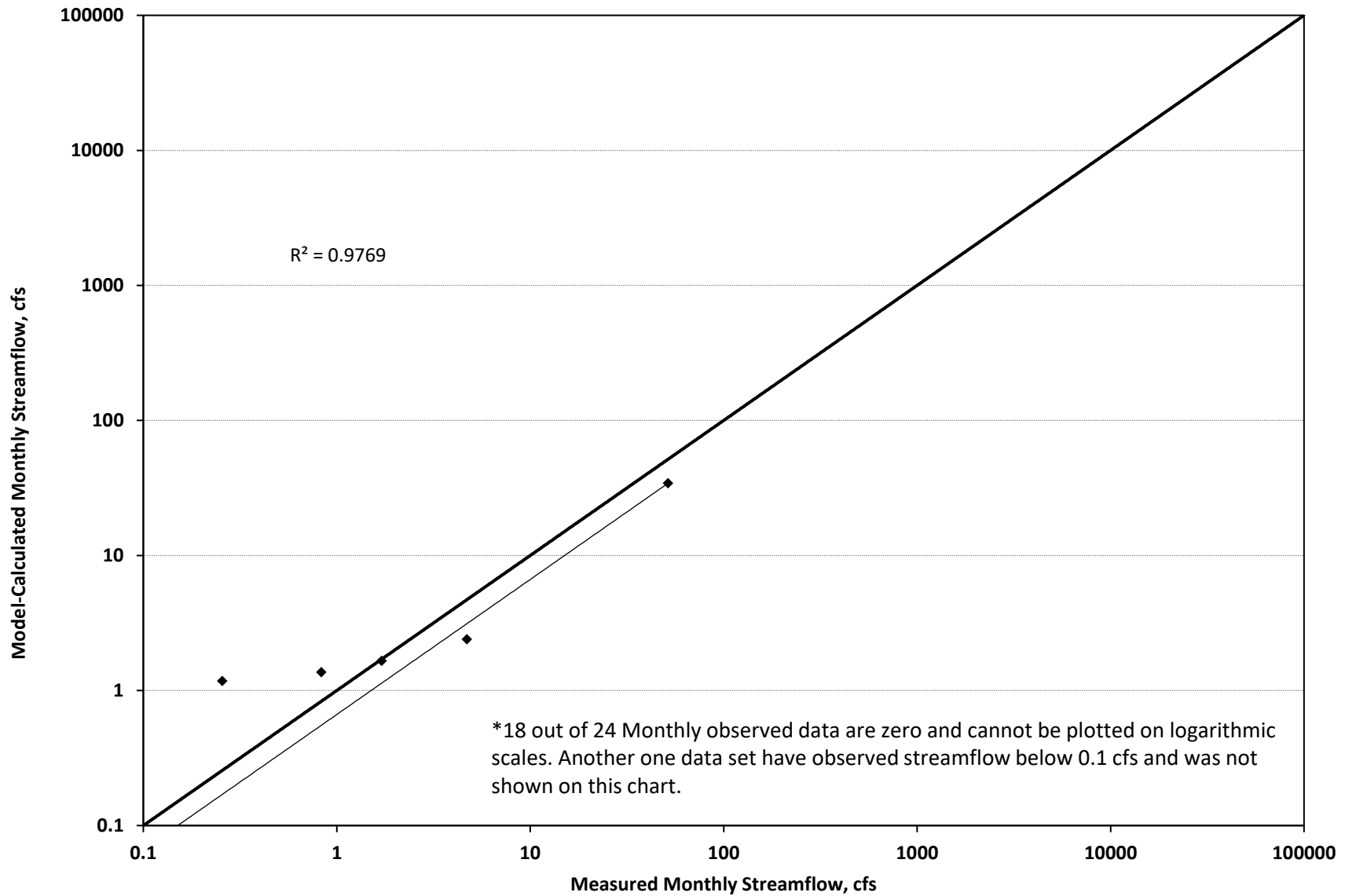


Figure 15

Scatterplot of Measured and Model-Simulated Monthly Streamflow at San Luis Rey River at Cole Grade Road, near Pauma Valley, CA (11036700) - 2008 to 2009

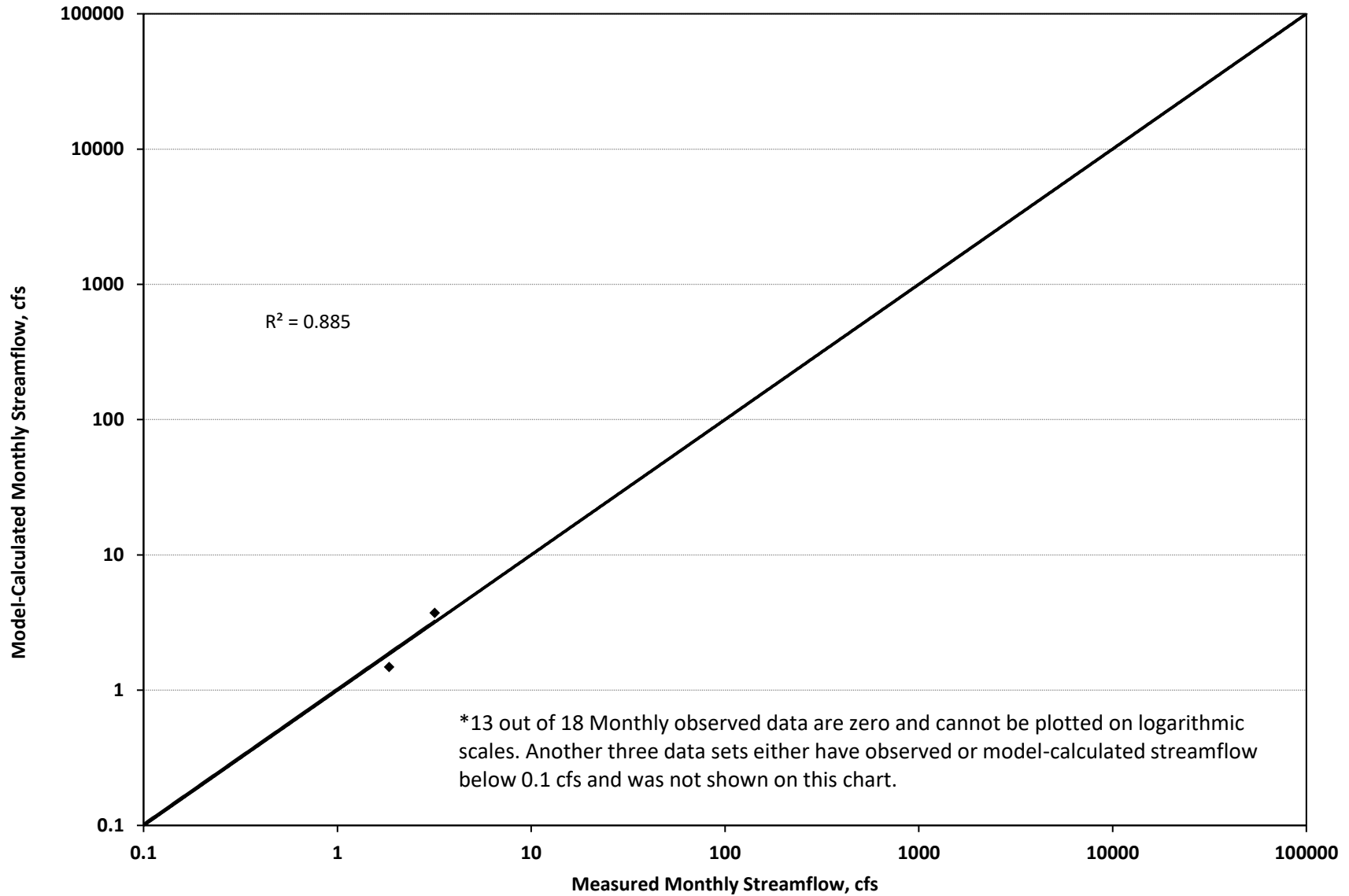


Figure 16

**Annual Total Measured and Model-Simulated Annual Total Streamflow
at San Luis Rey River at Couser Canyon Bridge Near Pala
Calendar Years 1991 to 1992**

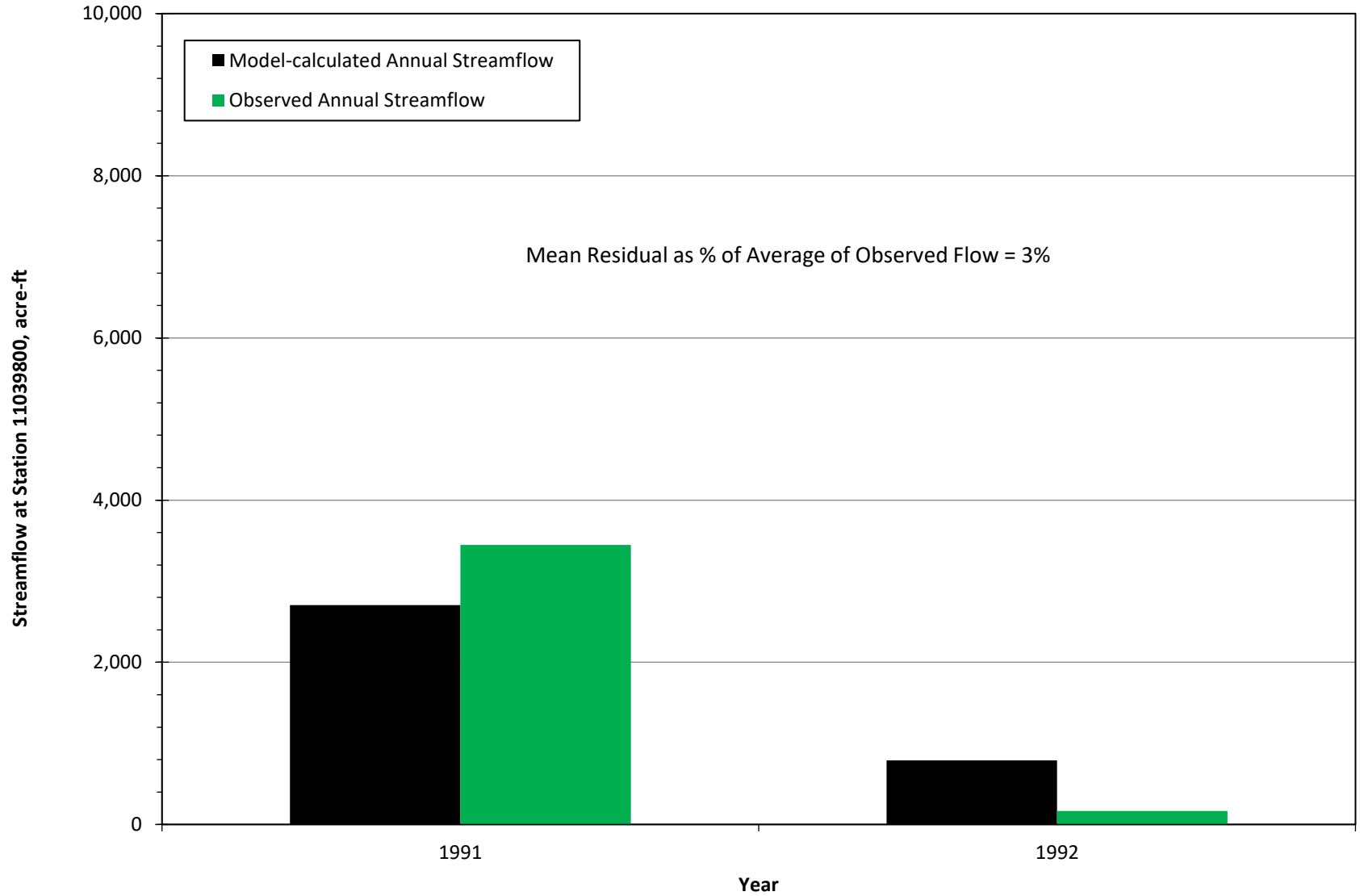
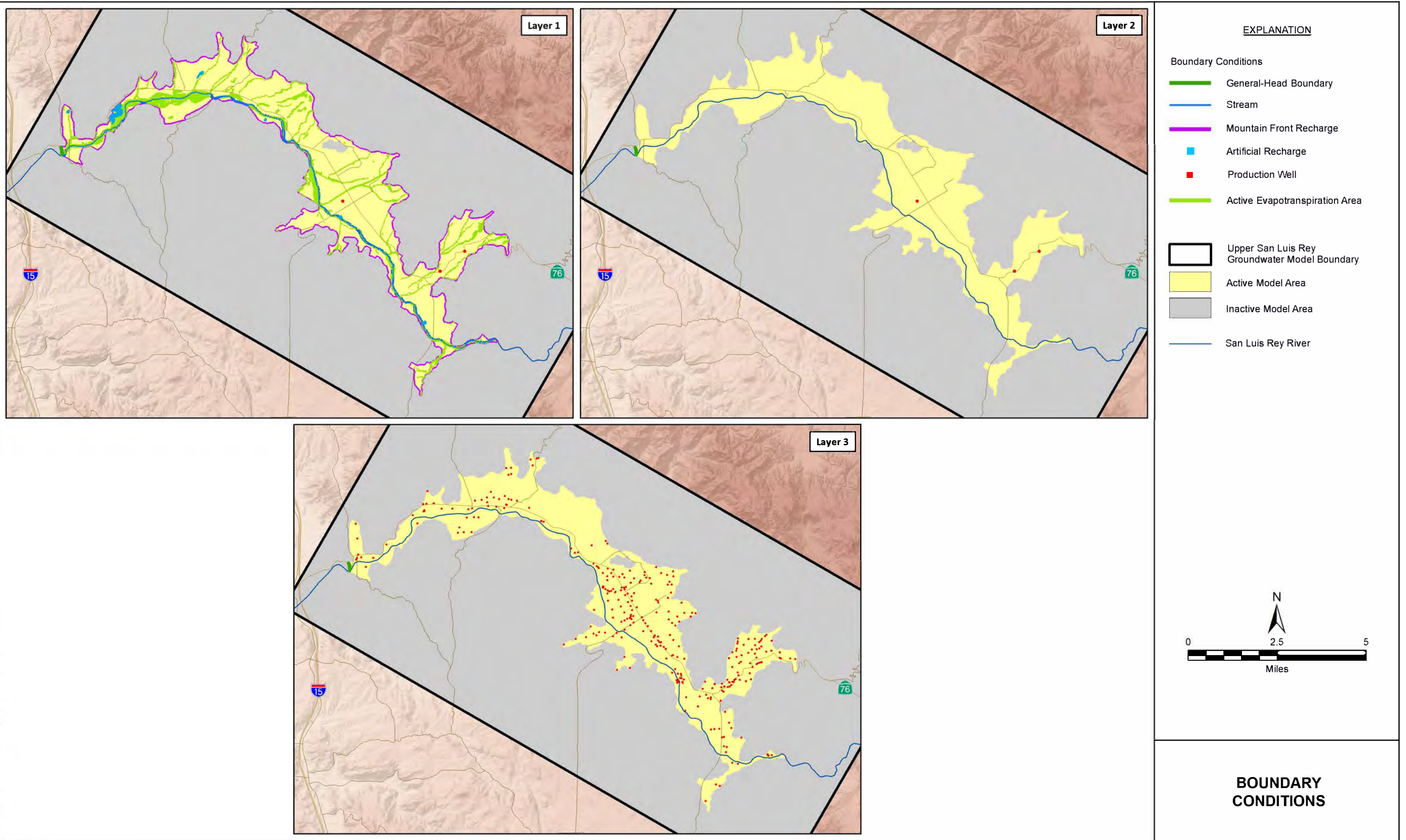
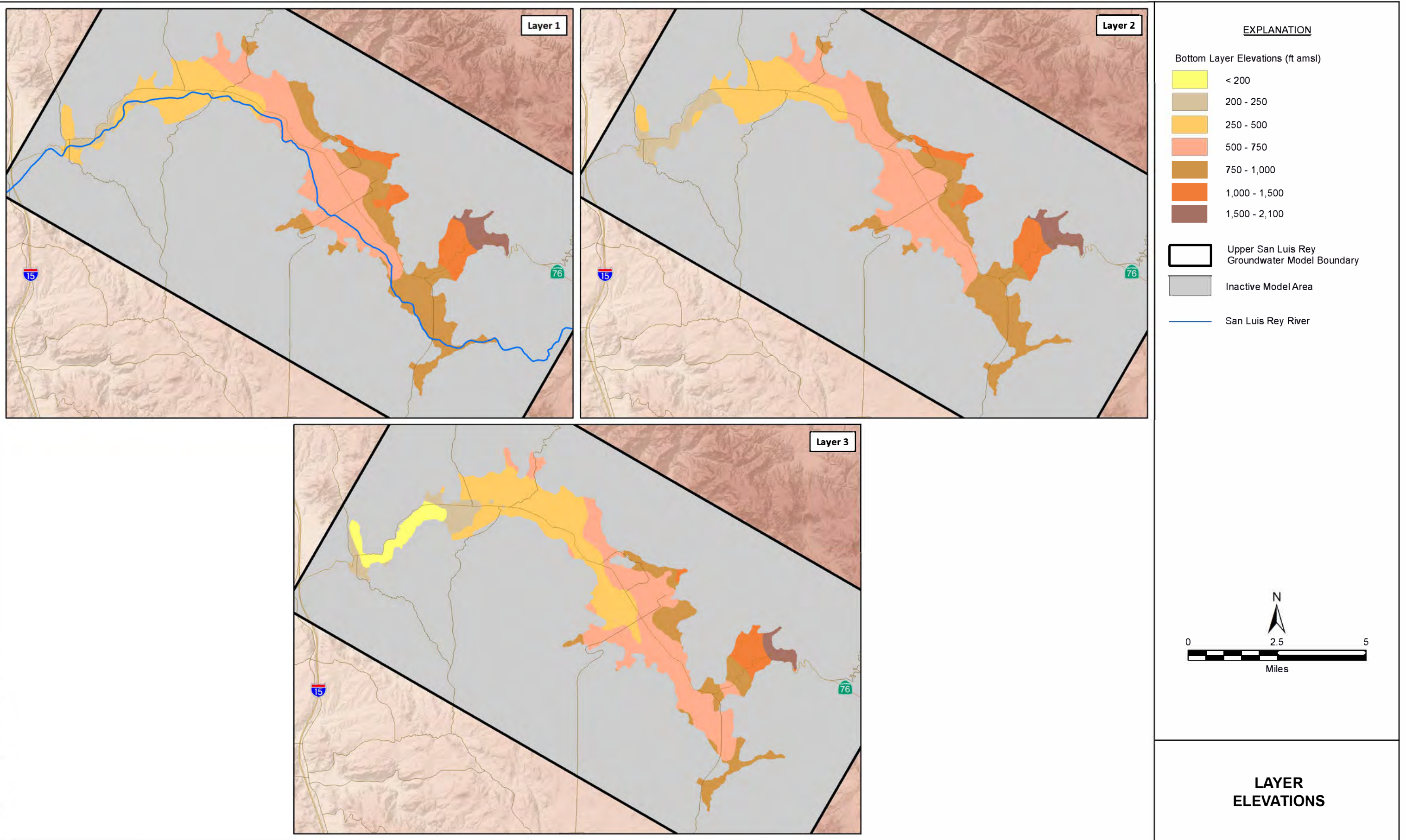
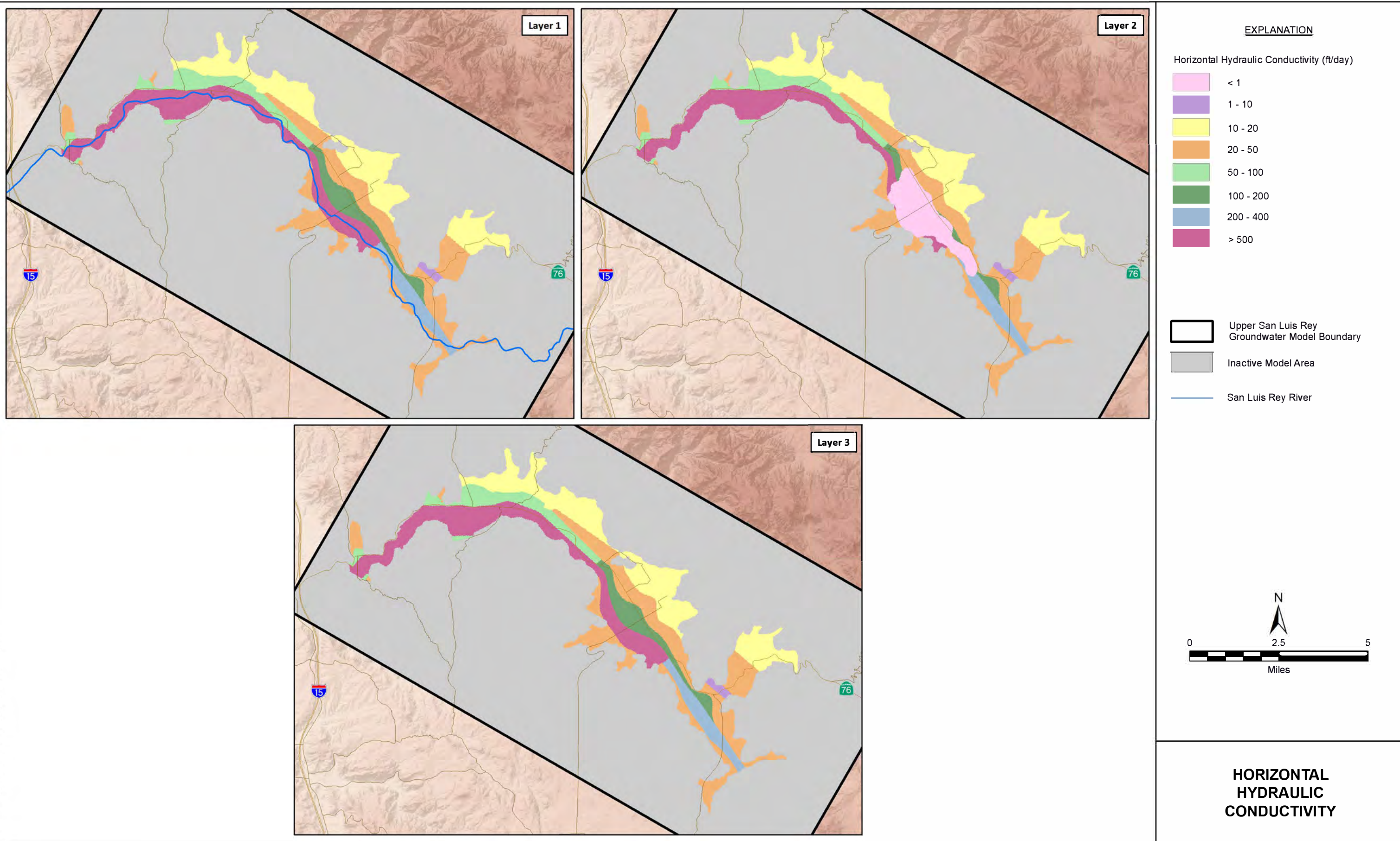


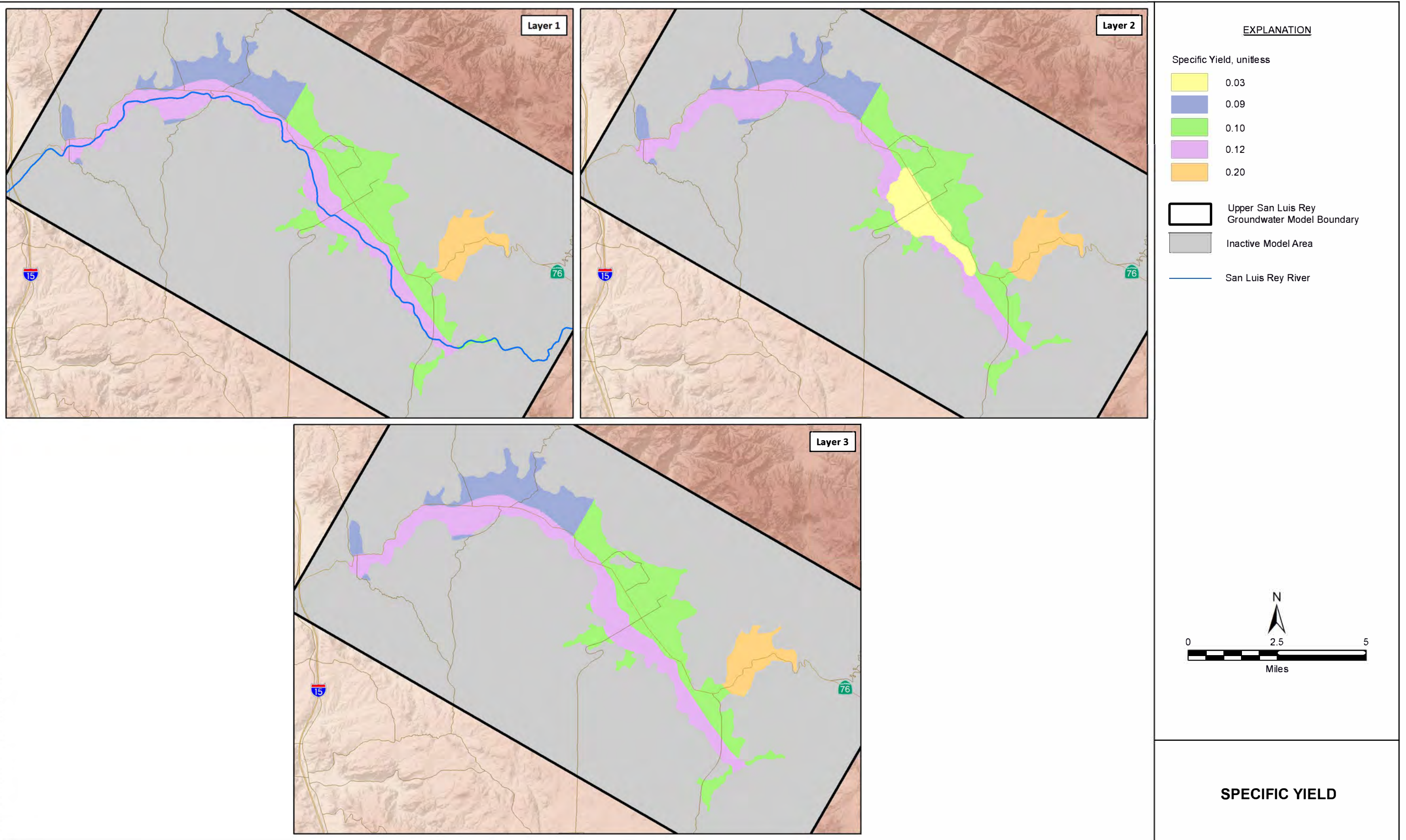
Figure 17







©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn by: DB. Projection: State Plane 1983, Zone VI.



W:\GIS_Proj\SanLuisRey_GSP\32_Fig_21_spec_yield_3panel_11-21.mxd

Jan-22

Model-Calculated Annual Groundwater Pumping 1991 through 2020

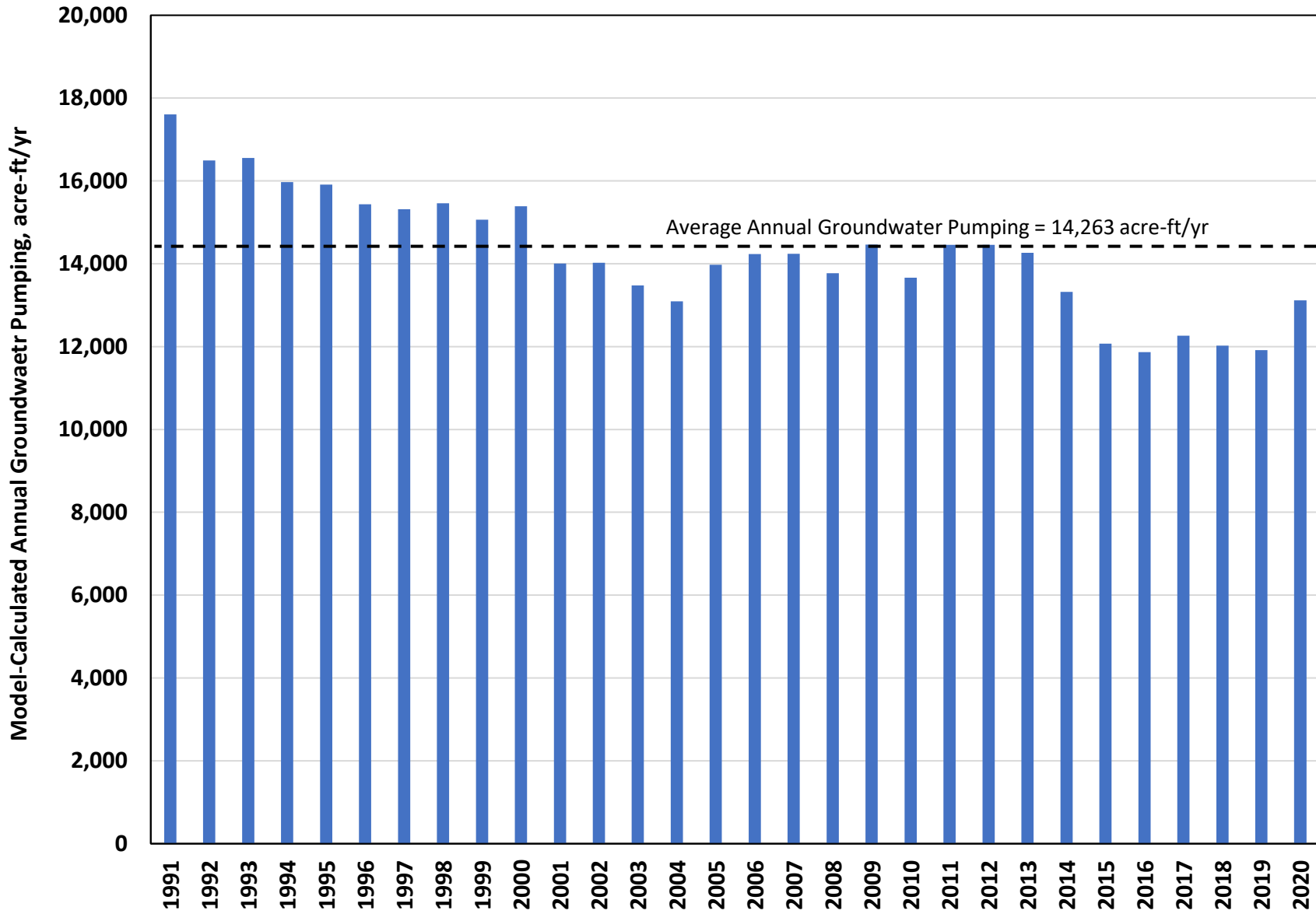


Figure 22

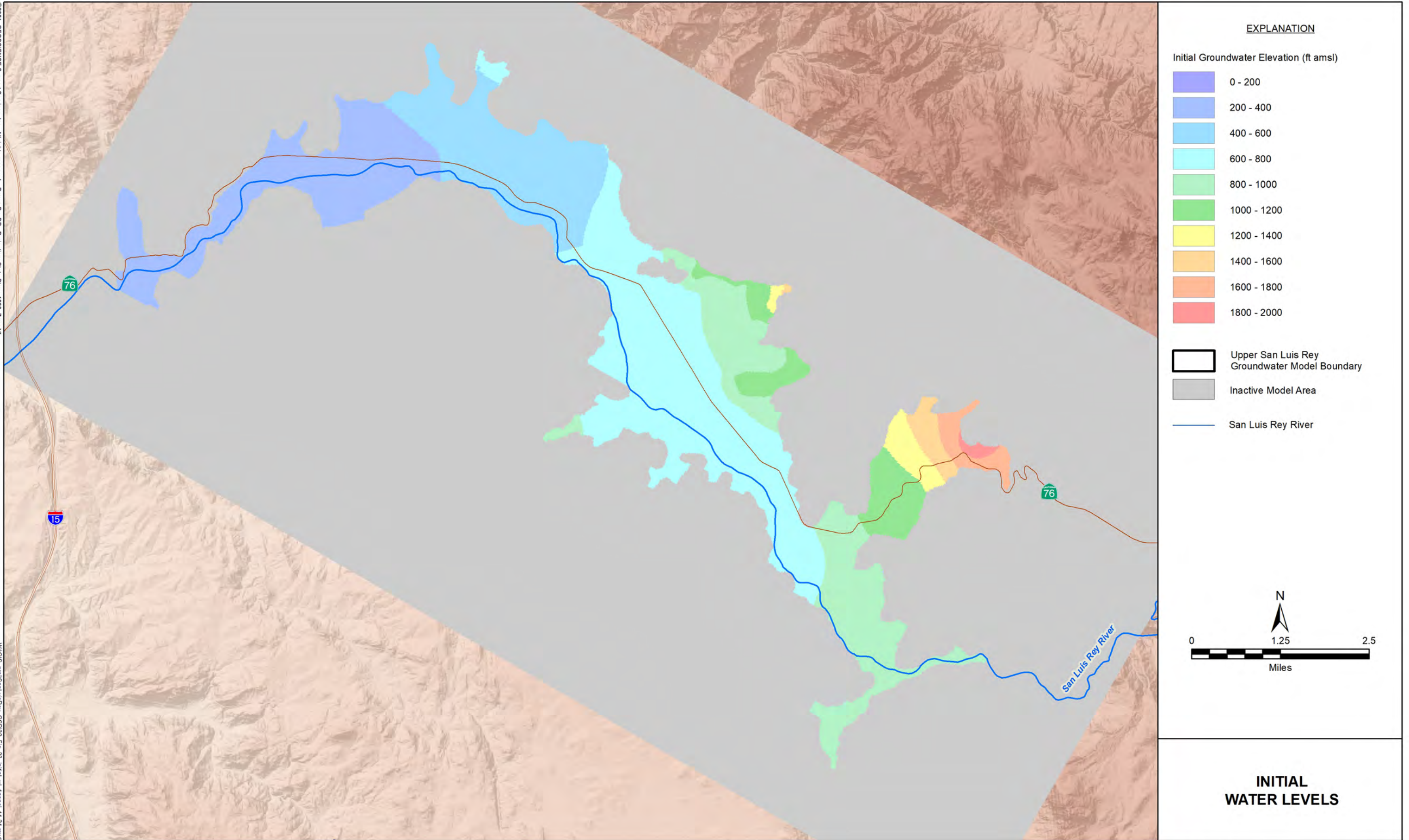
©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn By: DB, Projection: State Plane 1983, Zone VI

W:\GIS\proj\SanLuisRey_GSP\92_Fig_23_initial_v1_1panel_1121.mxd

Nov-21

PAUMA VALLEY GSA

DEVELOPMENT AND CALIBRATION OF UPPER SAN LUIS REY SURFACE WATER AND GROUNDWATER MODEL



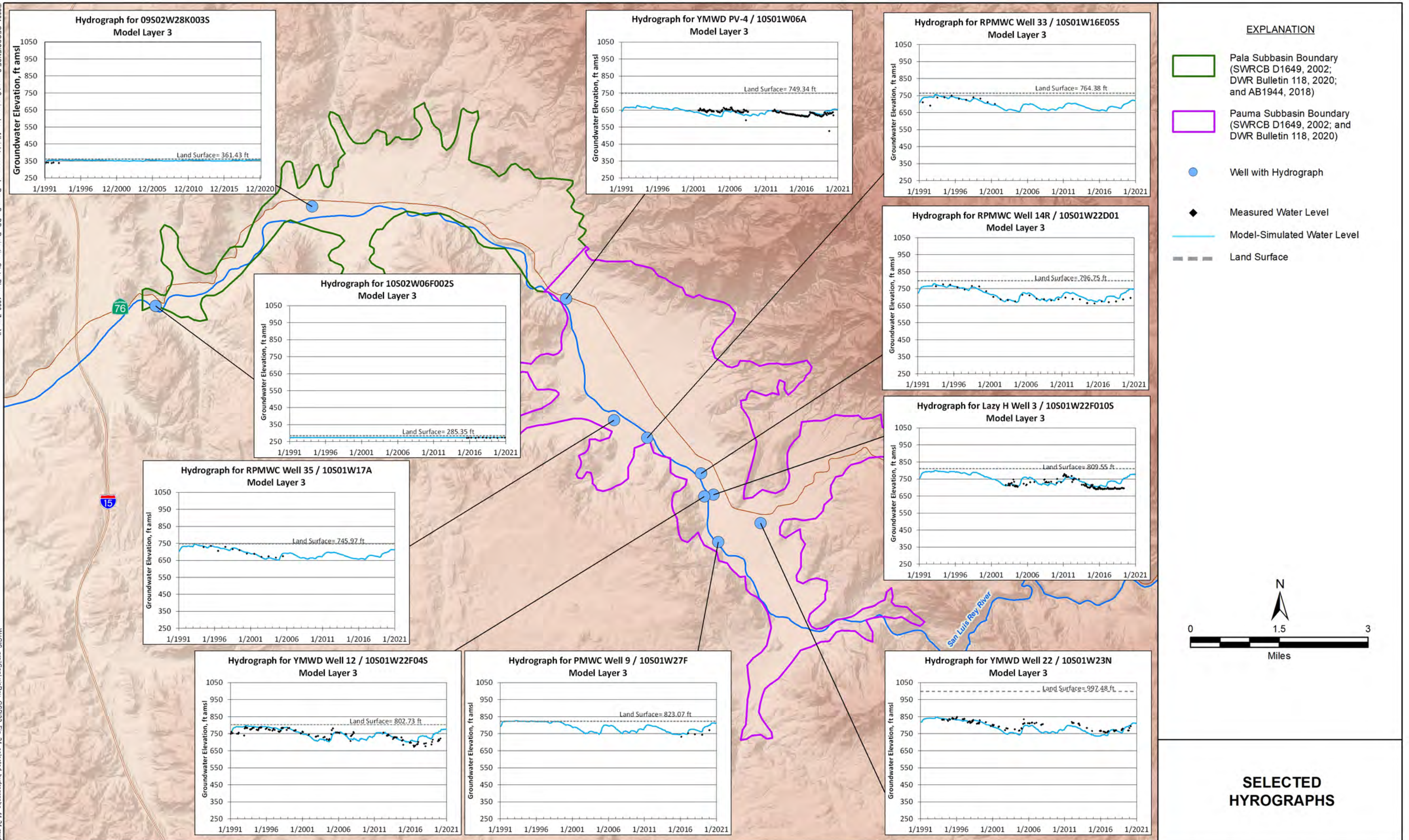
DRAFT

FIGURE 23

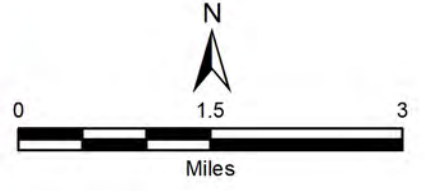
GEOSCIENCE

©2021, GEOSCIENCE Support Services, Inc. All rights reserved. Drawn By: DB, Projection: State Plane 1983, Zone VI

W:\GIS\proj\SanLuisRey_GSP\32_Fig_24_selected_hydrographs_11-21.mxd



- EXPLANATION**
- Pala Subbasin Boundary (SWRCB D1649, 2002; DWR Bulletin 118, 2020; and AB1944, 2018)
 - Pauma Subbasin Boundary (SWRCB D1649, 2002; and DWR Bulletin 118, 2020)
 - Well with Hydrograph
 - ◆ Measured Water Level
 - Model-Simulated Water Level
 - Land Surface



SELECTED HYDROGRAPHS

Nov-21

Measured vs. Updated Model-Calculated Water Levels – All Layers (1991 to 2020)

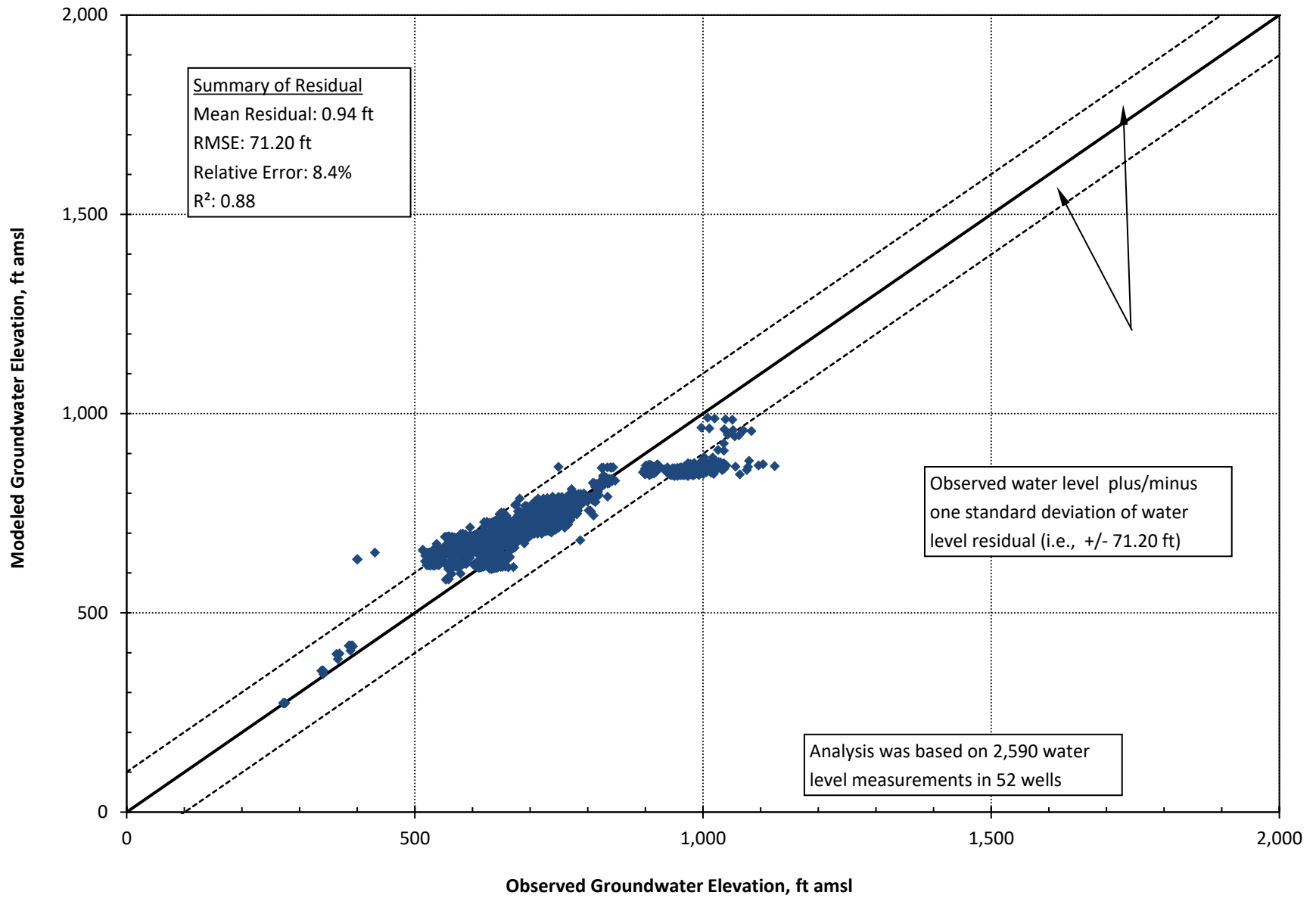
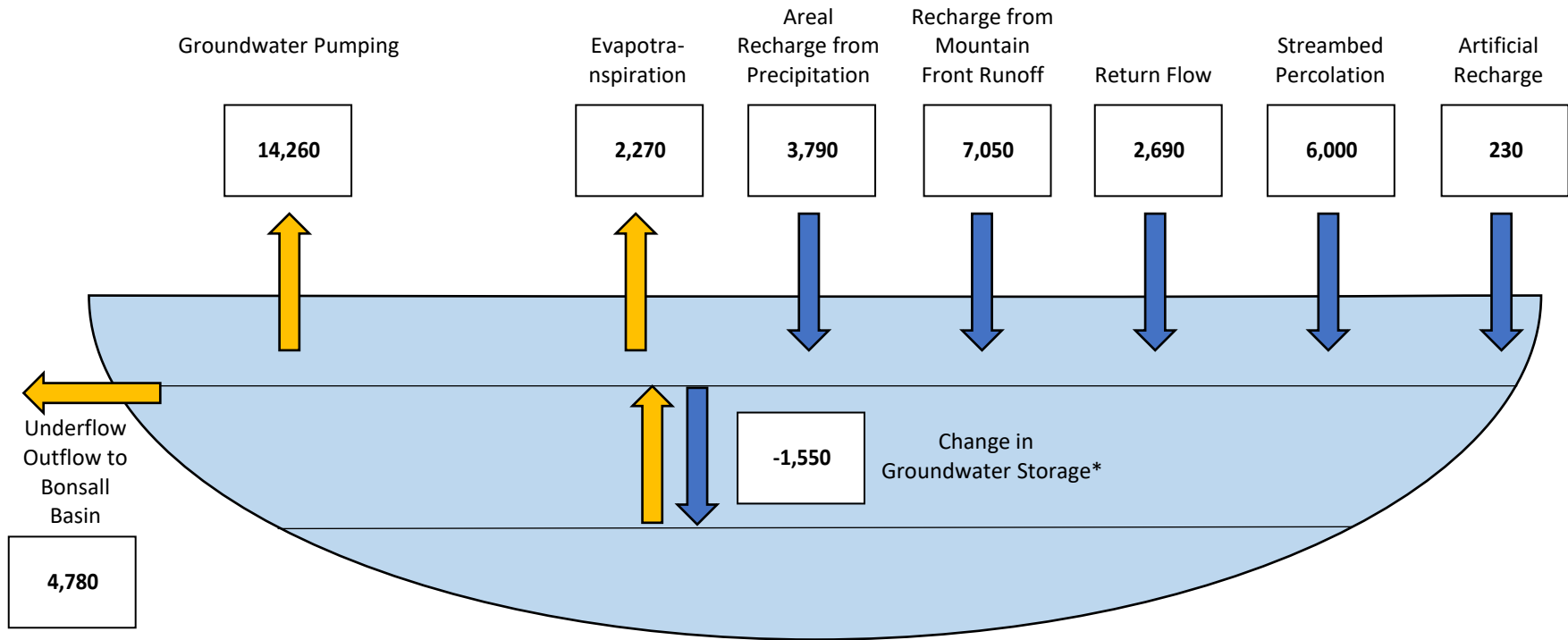


Figure 25

Upper San Luis Rey Valley Groundwater Subbasin Average Annual Water Budget



All values in acre-ft/yr

*A positive sign indicates an increase in groundwater storage; a negative sign represents a decline in groundwater storage.

Figure 26

TABLES

GEOSCIENCE

A decorative flourish consisting of a horizontal line with a downward-pointing curve at its center, positioned below the word "GEOSCIENCE".

**Upper San Luis Rey Valley Groundwater Subbasin
Annual Water Balance from 1991 through 2020**

Calendar Year	Areal Recharge from Precipitation	Recharge from Mountain Front Runoff	Anthropogenic Return Flow	Streambed Percolation	Artificial Recharge	Total Inflow	Groundwater Pumping	Evapotranspiration	Underflow Outflow to Bonsall Basin	Total Outflow	Change in Storage	Cumulative Change in Storage
	acre-ft						acre-ft				acre-ft	
1991	3,483	6,525	2,902	10,300	149	23,359	17,609	2,886	3,533	24,028	-669	-669
1992	2,452	4,787	2,929	2,401	155	12,724	16,497	3,278	4,697	24,471	-11,747	-12,416
1993	9,937	18,129	2,919	-5,376	160	25,769	16,556	4,048	5,437	26,041	-271	-12,688
1994	2,131	4,303	2,936	579	166	10,116	15,971	3,271	4,682	23,925	-13,809	-26,496
1995	6,766	12,440	2,925	3,596	171	25,898	15,913	3,663	5,042	24,618	1,280	-25,217
1996	2,174	4,347	2,942	3,788	177	13,428	15,434	2,928	4,640	23,002	-9,574	-34,791
1997	1,897	4,034	2,979	3,708	182	12,799	15,314	2,412	4,642	22,369	-9,570	-44,360
1998	6,541	12,027	2,951	10,200	187	31,907	15,460	3,151	4,933	23,544	8,363	-35,998
1999	970	2,746	2,955	-381	193	6,483	15,063	2,252	4,598	21,914	-15,431	-51,429
2000	1,697	3,296	3,033	4,438	198	12,662	15,388	1,899	4,568	21,855	-9,193	-60,622
2001	2,366	4,055	2,727	3,122	204	12,474	14,005	1,811	4,694	20,510	-8,036	-68,658
2002	1,133	1,980	2,790	-600	209	5,511	14,023	1,519	4,584	20,127	-14,615	-83,273
2003	3,566	5,909	2,733	10,119	214	22,541	13,476	1,697	4,691	19,864	2,677	-80,596
2004	3,075	4,981	2,695	6,486	220	17,457	13,093	1,481	4,624	19,198	-1,742	-82,338
2005	10,730	19,281	2,636	15,383	225	48,256	13,976	2,514	5,272	21,763	26,493	-55,844
2006	2,571	4,897	2,729	3,661	230	14,089	14,234	2,062	4,715	21,011	-6,922	-62,767
2007	858	1,571	2,787	-2,444	236	3,008	14,240	1,635	4,621	20,496	-17,487	-80,254
2008	2,933	6,195	2,760	7,503	241	19,632	13,772	1,558	4,684	20,014	-383	-80,637
2009	3,282	5,335	2,860	8,862	247	20,586	14,462	1,679	4,658	20,798	-212	-80,849
2010	5,354	11,055	2,442	14,709	252	33,812	13,664	1,929	4,805	20,398	13,415	-67,434
2011	6,472	12,918	2,517	12,842	257	35,008	14,458	2,555	5,167	22,180	12,828	-54,606
2012	2,739	4,920	2,539	4,867	263	15,328	14,456	2,187	4,846	21,489	-6,161	-60,767
2013	1,929	3,170	2,556	1,776	268	9,700	14,265	1,863	4,765	20,893	-11,193	-71,960
2014	1,756	2,821	2,475	2,330	273	9,655	13,319	1,632	4,723	19,673	-10,018	-81,977
2015	2,171	3,501	2,362	5,028	279	13,341	12,072	1,532	4,745	18,350	-5,009	-86,986
2016	2,913	4,924	2,327	8,607	284	19,055	11,868	1,542	4,791	18,201	854	-86,132
2017	6,004	11,770	2,323	15,808	290	36,195	12,262	2,178	5,113	19,553	16,641	-69,491
2018	1,984	3,150	2,319	2,718	295	10,465	12,020	1,715	4,755	18,490	-8,026	-77,517
2019	8,167	15,857	2,262	17,018	300	43,604	11,912	2,449	5,256	19,617	23,987	-53,530
2020	5,645	10,607	2,367	9,162	306	28,087	13,114	2,747	5,124	20,986	7,101	-46,429
Average 1991 to 2020	3,790	7,051	2,689	6,007	228	19,765	14,263	2,269	4,780	21,313	-1,548	

APPENDIX 5A

Water Level Measurement Field Form



GEOSCIENCE Support Services, Inc.
P.O. Box 220, Claremont, CA 91711
Tel: (909) 451-6650 Fax: (909) 451-6638
www.gssrwater.com

USLR GSP Water Level Monitoring

Name _____

Firm _____

Date / Day _____

Weather _____

Well	RP	Time	Depth to Water (ft brp)	Totalizer Reading	Nearby Pumping Wells	Notes:
MW-1						
MW-2						
MW-3						
MW-4						
MW-5						
MW-6						
MW-7						
MW-8						
MW-9						
MW-10						
MW-11						
MW-12						
MW-13						
MW-14						
MW-15						
MW-16						
MW-17						
MW-18						
MW-20						
MW-21						
MW-22						
MW-23						
MW-24						
MW-25						
MW-26						
MW-27						
MW-28						
MW-29						
MW-30						

APPENDIX 5B

Water Quality Sampling Field Form



GEOSCIENCE Support Services, Inc.
 P.O. Box 220, Claremont, CA 91711
 Tel: (909) 451-6650 Fax: (909) 451-6638
 www.gssiwater.com

WATER QUALITY SAMPLING DATA SHEET

Client: _____ Sampled By: _____
 Well Name/Number: _____ Test Date: _____
 Well Dia: _____ in Well Depth: _____ ft bgs Screened Interval: _____ ft bgs
 Static WL: _____ ft brp Reference Point Elevation: _____ ft amsl
 RP: _____ Pump Depth: _____ ft bgs
 Totalizer Reading: _____

Time	Water Level (ft brp)	Temp (°C)	Cond (µS/cm)	TDS (mg/L)	SDI	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)

Sampling Method: _____

Casing Volume: _____
 Tubing Volume: _____
 Volume Pumped Before Sampling: _____
 Flow Rate: _____

Stabilization Criteria:

3 to 5 minute recordings with 3 consecutive readings within:
 pH: +/- 0.1 unit Turb: +/- 10%
 Cond: +/- 3% DO: +/- 10%
 ORP: +/- 10 mV Desired Flow Rate: 100 to 500 mL/min

APPENDIX 6A

**Ordinance No. 100-08: An Ordinance of the Yuima Municipal Water District
Adopting a Drought Response Conservation Program**

ORDINANCE NO. 100 - 08

**AN ORDINANCE OF THE YUIMA MUNICIPAL WATER DISTRICT ADOPTING
A DROUGHT RESPONSE CONSERVATION PROGRAM**

WHEREAS, article 10, section 2 of the California Constitution declares that waters of the State are to be put to beneficial use, that waste, unreasonable use, or unreasonable methods of use of water be prevented, and that water be conserved for the public welfare; and

WHEREAS, conservation of current water supplies and minimization of the effects of water supply shortages that are the result of drought are essential to the public health, safety and welfare; and

WHEREAS, regulation of the time of certain water use, manner of certain water use, design of rates, method of application of water for certain uses, installation and use of water-saving devices, provide an effective and immediately available means of conserving water; and

WHEREAS, California Water Code sections 375 et seq. authorize water suppliers to adopt and enforce a comprehensive water conservation program; and

WHEREAS, adoption and enforcement of a comprehensive water conservation program will allow the Yuima Municipal Water District (hereinafter the "District") to delay or avoid implementing measures such as water rationing or more restrictive water use regulations pursuant to a declared water shortage emergency as authorized by California Water Code sections 350 et seq.; and

WHEREAS, San Diego County is a semi-arid region and local water resources are scarce. The region is dependent upon imported water supplies provided by the San Diego County Water Authority, which obtains a substantial portion of its supplies from the Metropolitan Water District of Southern California. Because the region is dependent upon imported water supplies, weather and other conditions in other portions of this State and of the Southwestern United States affect the availability of water for use in San Diego County; and

WHEREAS, the San Diego County Water Authority has adopted an Urban Water Management Plan that includes water conservation as a necessary and effective component of the Water Authority's programs to provide a reliable supply of water to meet the needs of the Water Authority's 24 member public agencies, including the District. The Water Authority's Urban Water Management Plan also includes a contingency analysis of actions to be taken in response to water supply shortages. This ordinance is consistent with the Water Authority's Urban Water Management Plan; and

WHEREAS, as anticipated by its Urban Water Management Plan, the San Diego County Water Authority, in cooperation and consultation with its member public agencies, has

adopted a Drought Management Plan, which establishes a progressive program for responding to water supply limitations resulting from drought conditions. This ordinance is intended to be consistent with and to implement the Water Authority's Drought Management Plan; and

WHEREAS, the Water Authority's Drought Management Plan contains three stages containing regional actions to be taken to lessen or avoid supply shortages. This ordinance contains drought response levels that correspond with the Drought Management Plan stages; and

WHEREAS, the District, due to the geographic and climatic conditions within its territory and its partial dependence upon water imported and provided by the San Diego County Water Authority, may experience shortages due to drought conditions, regulatory restrictions enacted upon imported supplies and other factors. The District has adopted an Urban Water Management Plan that includes water conservation as a necessary and effective component of its programs to provide a reliable supply of water to meet the needs of the public within its service territory. The District's Urban Water Management Plan also includes a contingency analysis of actions to be taken in response to water supply shortages. This ordinance is consistent with the Urban Water Management Plan adopted by the District; and

WHEREAS the water conservation measures and progressive restrictions on water use and method of use identified by this ordinance provide certainty to water users and enable District to control water use, provide water supplies, and plan and implement water management measures in a fair and orderly manner for the benefit of the public.

NOW, THEREFORE, the Board of Directors of the Yuima Municipal Water District does ordain as follows:

SECTION 1.0 DECLARATION OF NECESSITY AND INTENT

(a) This ordinance establishes water management requirements necessary to conserve water, enable effective water supply planning, assure reasonable and beneficial use of water, prevent waste of water, prevent unreasonable use of water, prevent unreasonable method of use of water within the District in order to assure adequate supplies of water to meet the needs of the public, and further the public health, safety, and welfare, recognizing that water is a scarce natural resource that requires careful management not only in times of drought, but at all times.

(b) This ordinance establishes regulations to be implemented during times of declared water shortages, or declared water shortage emergencies. It establishes four levels of drought response actions to be implemented in times of shortage, with increasing restrictions on water use in response to worsening drought conditions and decreasing available supplies.

(c) Level 1 condition drought response measures are voluntary and will be reinforced through local and regional public education and awareness measures that may be funded in part by District. During drought response condition Levels 2 through 4, all conservation measures and water-use restrictions are mandatory and become increasingly

restrictive in order to attain escalating conservation goals.

(d) During a Drought Response Level 2 condition or higher, the water conservation measures and water use restrictions established by this ordinance are mandatory and violations are subject to criminal, civil, and administrative penalties and remedies specified in this ordinance and as provided in the District's Rules and Regulations governing water service.

SECTION 2.0 DEFINITIONS

(a) The following words and phrases whenever used in this chapter shall have the meaning defined in this section:

1. "Grower" refers to those engaged in the growing or raising, in conformity with recognized practices of husbandry, for the purpose of commerce, trade, or industry, or for use by public educational or correctional institutions, of agricultural, horticultural or floricultural products, and produced: (1) for human consumption or for the market, or (2) for the feeding of fowl or livestock produced for human consumption or for the market, or (3) for the feeding of fowl or livestock for the purpose of obtaining their products for human consumption or for the market. "Grower" does not refer to customers who purchase water subject to the Metropolitan Interim Agricultural Water Program or the Water Authority Special Agricultural Rate programs.

2. "Water Authority" means the San Diego County Water Authority.

3. "DMP" means the Water Authority's Drought Management Plan in existence on the effective date of this ordinance and as readopted or amended from time to time, or an equivalent plan of the Water Authority to manage or allocate supplies during shortages.

4. "Metropolitan" means the Metropolitan Water District of Southern California.

5. "Person" means any natural person, corporation, public or private entity, public or private association, public or private agency, government agency or institution, school district, college, university, or any other user of water provided by the District.

SECTION 3.0 APPLICATION

(a) The provisions of this ordinance apply to any person in the use of any water provided by the District.

(b) This ordinance is intended solely to further the conservation of water. It is not intended to implement any provision of federal, State, or local statutes, ordinances, or regulations relating to protection of water quality or control of drainage or runoff. Refer to the local jurisdiction or Regional Water Quality Control Board for information on any stormwater ordinances and stormwater management plans.

(c) Nothing in this ordinance is intended to affect or limit the ability of the District to declare and respond to an emergency, including an emergency that affects the ability of the District to supply water.

(d) The provisions of this ordinance do not apply to use of water from private wells, water produced under Well Agreements between the District and private parties, or to recycled water.

(e) Nothing in this ordinance shall apply to use of water that is subject to a special supply program, such as the Metropolitan Interim Agricultural Water Program or the Water Authority Special Agricultural Rate programs. Violations of the conditions of special supply programs are subject to the penalties established under the applicable program. A person using water subject to a special supply program and other water provided by the District is subject to this ordinance in the use of the other water.

SECTION 4.0 DROUGHT RESPONSE LEVEL 1 - DROUGHT WATCH CONDITION

(a) A Drought Response Level 1 condition is also referred to as a "Drought Watch" condition. A Level 1 condition applies when the Water Authority notifies its member agencies that due to drought or other supply reductions, there is a reasonable probability there will be supply shortages and that a consumer demand reduction of up to 10 percent is required in order to ensure that sufficient supplies will be available to meet anticipated demands. The General Manager shall declare the existence of a Drought Response Level 1 and take action to implement the Level 1 conservation practices identified in this ordinance.

(b) During a Level 1 Drought Watch condition, District will increase its public education and outreach efforts to emphasize increased public awareness of the need to implement the following water conservation practices. [The same water conservation practices become mandatory if District declares a Level 2 Drought Alert condition]:

1. Stop washing down paved surfaces, including but not limited to sidewalks, driveways, parking lots, tennis courts, or patios, except when it is necessary to alleviate safety or sanitation hazards.

2. Stop water waste resulting from inefficient landscape irrigation, such as runoff, low head drainage, or overspray, etc. Similarly, stop water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.

3. Irrigate residential and commercial landscape before 10 a.m. and after 6 p.m. only.

4. Use a hand-held hose equipped with a positive shut-off nozzle or bucket to water landscaped areas, including trees and shrubs located on residential and commercial properties that are not irrigated by a landscape irrigation system.

5. Irrigate nursery and commercial grower's products in conformance with such irrigation schedules as the District's General Manager shall establish. Watering is permitted at any time with a hand-held hose equipped with a positive shut-off nozzle, or when a bucket is used. Irrigation of nursery propagation beds is permitted at any time. Watering of livestock is permitted at any time.

6. Use re-circulated water to operate ornamental fountains.

7. Wash vehicles using a bucket and a hand-held hose with positive shut-off nozzle, mobile high pressure/low volume wash system, or at a commercial site that re-circulates (reclaims) water on-site. Avoid washing during hot conditions when additional water is required due to evaporation.

8. Serve and refill water in restaurants and other food service establishments only upon request.

9. Offer guests in hotels, motels, and other commercial lodging establishments the option of not laundering towels and linens daily.

10. Repair all water leaks within five (5) days of notification by the District unless other arrangements are made with the General Manager.

11. Use recycled or non-potable water for construction purposes when available.

(c) During a Drought Response Level 2 condition or higher, all persons shall be required to implement the conservation practices established in a Drought Response Level 1 condition.

**SECTION 5.0 DROUGHT RESPONSE LEVEL 2 - DROUGHT ALERT
CONDITION**

(a) A Drought Response Level 2 condition is also referred to as a "Drought Alert" condition. A Level 2 condition applies when the Water Authority notifies its member agencies that due to cutbacks caused by drought or other reduction in supplies, a consumer demand reduction of up to 20 percent is required in order to have sufficient supplies available to meet anticipated demands. The District Board of Directors shall declare the existence of a Drought Response Level 2 condition and implement the mandatory Level 2 conservation measures identified in this ordinance.

(b) All persons using District water shall comply with Level 1 Drought Watch water conservation practices during a Level 2 Drought Alert, and shall also comply with the following additional conservation measures:

1. Limit residential and commercial landscape irrigation to no more than three (3) assigned days per week on a schedule established by the General Manager and posted by the District. During the months of November through May, landscape irrigation is limited to no more than once per week on a schedule established by the General Manager and posted by the District. This section shall not apply to commercial growers or nurseries.
2. Limit lawn watering and landscape irrigation using sprinklers to no more than ten (10) minutes per watering station per assigned day. This provision does not apply to landscape irrigation systems using water efficient devices, including but not limited to: weather based controllers, drip/micro-irrigation systems and stream rotor sprinklers.
3. Water landscaped areas, including trees and shrubs located on residential and commercial properties, and not irrigated by a landscape irrigation system governed by section 5 (b) (1), on the same schedule set forth in section 5 (b) (1) by using a bucket, hand-held hose with positive shut-off nozzle, or low-volume non-spray irrigation.
4. Repair all leaks within seventy-two (72) hours of notification by the District unless other arrangements are made with the General Manager.
5. Stop operating ornamental fountains or similar decorative water features unless recycled water is used.

**SECTION 6.0 DROUGHT RESPONSE LEVEL 3 - DROUGHT CRITICAL
CONDITION**

(a) A Drought Response Level 3 condition is also referred to as a "Drought Critical" condition. A Level 3 condition applies when the Water Authority notifies its member agencies

that due to increasing cutbacks caused by drought or other reduction of supplies, a consumer demand reduction of up to 40 percent is required in order to have sufficient supplies available to meet anticipated demands. The District Board of

Directors shall declare the existence of a Drought Response Level 3 condition and implement the Level 3 conservation measures identified in this ordinance.

(b) All persons using District water shall comply with Level 1 Drought Watch and Level 2 Drought Alert water conservation practices during a Level 3 Drought Critical condition and shall also comply with the following additional mandatory conservation measures:

1. Limit residential and commercial landscape irrigation to no more than two (2) assigned days per week on a schedule established by the General Manager and posted by the District. During the months of November through May, landscape irrigation is limited to no more than once per week on a schedule established by the General Manager and posted by the District. This section shall not apply to commercial growers or nurseries.

2. Water landscaped areas, including trees and shrubs located on residential and commercial properties, and not irrigated by a landscape irrigation system governed by section 6 (b) (1), on the same schedule set forth in section 6 (b) (1) by using a bucket, hand-held hose with a positive shut-off nozzle, or low-volume non-spray irrigation.

3. Stop filling or re-filling ornamental lakes or ponds, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to declaration of a drought response level under this ordinance.

4. Stop washing vehicles except at commercial carwashes that recirculate water, or by high pressure/low volume wash systems.

5. Repair all leaks within forty-eight (48) hours of notification by the District unless other arrangements are made with the General Manager.

(c) Upon the declaration of a Drought Response Level 3 condition, no new potable water service shall be provided, no new temporary meters or permanent meters shall be provided, and no statements of immediate ability to serve or provide potable water service (such as, will serve letters, certificates, or letters of availability) shall be issued, except under the following circumstances:

1. A valid, unexpired building permit has been issued for the project; or
2. The project is necessary to protect the public's health, safety, and welfare; or

3. The applicant provides substantial evidence of an enforceable commitment that water demands for the project will be offset prior to the provision of a new water meter(s) to the satisfaction of District.

This provision shall not be construed to preclude the resetting or turn-on of meters to provide continuation of water service or to restore service that has been interrupted for a period of one year or less.

(d) Upon the declaration of a Drought Response Level 3 condition, District will suspend consideration of annexations to its service area.

(e) The District may establish a water allocation for property served by the District using a method that does not penalize persons for the implementation of conservation methods or the installation of water saving devices. If the District establishes a water allocation it shall provide notice of the allocation by including it in the regular billing statement for the fee or charge or by any other mailing to the address to which the District customarily mails the billing statement for fees or charges for on-going water service. Following the effective date of the water allocation as established by the District, any person that uses water in excess of the allocation shall be subject to a penalty in such amount as shall be established from time to time in the District's Rules and Regulations Governing Water Service for each billing unit of water in excess of the allocation. The penalty for excess water usage shall be cumulative to any other remedy or penalty that may be imposed for violation of this ordinance.

SECTION 7.0 DROUGHT RESPONSE LEVEL 4 - DROUGHT EMERGENCY CONDITION

(a) A Drought Response Level 4 condition is also referred to as a "Drought Emergency" condition. A Level 4 condition applies when the Water Authority Board of Directors declares a water shortage emergency pursuant to California Water Code section 350 and notifies its member agencies that Level 4 requires a demand reduction of more than 40 percent in order for the District to have maximum supplies available to meet anticipated demands. The District's Board of Directors shall declare a Drought Emergency in the manner and on the grounds provided in California Water Code section 350.

(b) All persons using District water shall comply with conservation measures required during Level 1 Drought Watch, Level 2 Drought Alert, and Level 3 Drought Critical conditions and shall also comply with the following additional mandatory conservation measures:

1. Stop all landscape irrigation, except crops and landscape products of commercial growers and nurseries. This restriction shall not apply to the following categories of use unless the District has determined that recycled water is available and may be lawfully applied to the use.

A. Maintenance of trees and shrubs that are watered on the same schedule set forth in section 6 (b) (1) by using a bucket, hand-held hose with a positive shut-off nozzle, or low-volume non-spray irrigation;

B. Maintenance of existing landscaping necessary for fire protection as specified by the Fire Marshal of the local fire protection agency having jurisdiction over the property to be irrigated;

C. Maintenance of existing landscaping for erosion control;

D. Maintenance of plant materials identified to be rare or essential to the well being of rare animals;

E. Maintenance of landscaping within active public parks and playing fields, day care centers, school grounds, cemeteries, and golf course greens, provided that such irrigation does not exceed two (2) days per week according to the schedule established under section 6 (b) (1);

F. Watering of livestock; and

G. Public works projects and actively irrigated environmental mitigation projects.

2. Repair all water leaks within twenty-four (24) hours of notification by the District unless other arrangements are made with the General Manager.

(c) The District may establish a water allocation for property served by the District. If the District establishes a water allocation it shall provide notice of the allocation by including it in the regular billing statement for the fee or charge or by any other mailing to the address to which the District customarily mails the billing statement for fees or charges for on-going water service. Following the effective date of the water allocation as established by the District, any person that uses water in excess of the allocation shall be subject to a penalty in such amount as shall from time to time be established by the Board of Directors in the Rules and Regulations of the District Governing Water Service for each billing unit of water in excess of the allocation. The penalty for excess water usage shall be cumulative to any other remedy or penalty that may be imposed for violation of this ordinance.

SECTION 8.0 CORRELATION BETWEEN DROUGHT MANAGEMENT PLAN AND DROUGHT RESPONSE LEVELS

(a) The correlation between the Water Authority's DMP stages and the District's drought response levels identified in this ordinance is described herein. Under DMP Stage 1, the District may implement Drought Response Level 1 actions. Under DMP Stage 2, the District may implement Drought Response Level 1 or Level 2 actions. Under

DMP Stage 3, the District may implement Drought Response Level 2, Level 3, or Level 4 actions.

Drought Response Levels	Use Restrictions	Conservation Target	DMP Stage
1 - Drought Watch	Voluntary	Up to 10%	Stage 1 or 2
2 - Drought Alert	Mandatory	Up to 20%	Stage 2 or 3
3 - Drought Critical	Mandatory	Up to 40%	Stage 3
4 - Drought Emergency	Mandatory	Above 40%	Stage 3

(b) The drought response levels identified in this ordinance correspond with the Water Authority DMP as identified in the following table:

The foregoing and any subsequent provisions notwithstanding, the Board of Directors reserves the right, in its sole discretion, to establish a particular Drought Response Level independently of Water Authority actions, if in the Board’s sole judgment such action is necessary to take appropriate account of particular local circumstances that may ameliorate or exacerbate conditions at the local level.

SECTION 9.0 PROCEDURES FOR DETERMINATION AND NOTIFICATION OF DROUGHT RESPONSE LEVEL

(a) The existence of a Drought Response Level 1 condition may be declared by the General Manager upon a written determination of the existence of the facts and circumstances supporting the determination. A copy of the written determination shall be submitted to the District Board of Directors. The General Manager may publish a notice of the determination of existence of Drought Response Level 1 condition in one or more newspapers, including a newspaper of general circulation within the District. The District may also post notice of the condition on its website.

(b) The existence of Drought Response Level 2 or Level 3 conditions may be declared by resolution of the District Board of Directors adopted at a regular or special public meeting held in accordance with State law. The mandatory conservation measures applicable to Drought Response Level 2 or Level 3 conditions shall take effect on the tenth (10th) day after the date the response level is declared. Within five (5) days following the declaration of the response level, the District shall publish a copy of the resolution in a newspaper used for publication of official notices.

(c) The existence of a Drought Response Level 4 condition may be declared in accordance with the procedures specified in California Water Code sections 351 and 352. The mandatory conservation measures applicable to Drought Response Level 4 conditions shall take effect on the tenth (10) day after the date the response level is declared. Within five (5) days following the declaration of the response level, the District shall publish a copy of the resolution in a newspaper used for publication of official notices. If the District establishes a water allocation, it shall provide notice of the

allocation by including it in the regular billing statement for the fee or charge or by any other mailing to the address to which the District customarily mails the billing statement for fees or charges for on-going water service. Water allocation shall be effective on the fifth (5) day following the date of mailing or at such later date as specified in the notice.

(d) The District Board of Directors may declare an end to a Drought Response Level by the adoption of a resolution at any regular or special meeting held in accordance with State law.

SECTION 10.0 HARSHIP VARIANCE

(a) If, due to unique circumstances, a specific requirement of this ordinance would result in undue hardship to a person using agency water or to property upon which agency water is used, that is disproportionate to the impacts to District water users generally or to similar property or classes of water uses, then the person may apply for a variance to the requirements as provided in this section.

(b) The variance may be granted or conditionally granted, only upon a written finding of the existence of facts demonstrating an undue hardship to a person using agency water or to property upon which agency water is used, that is disproportionate to the impacts to District water users generally or to similar property or classes of water use due to specific and unique circumstances of the user or the user's property.

1. Application. Application for a variance shall be a form prescribed by District and shall be accompanied by a non-refundable processing fee in an amount set by resolution of the District Board of Directors.

2. Supporting Documentation. The application shall be accompanied by photographs, maps, drawings, and other information, including a written statement of the applicant.

3. Required Findings for Variance. An application for a variance shall be denied unless the approving authority finds, based on the information provided in the application, supporting documents, or such additional information as may be requested, and on water use information for the property as shown by the records of the District, all of the following:

A. That the variance does not constitute a grant of special privilege inconsistent with the limitations upon other District customers.

B. That because of special circumstances applicable to the property or its use, the strict application of this ordinance would have a disproportionate impact on the property or use that exceeds the impacts to customers generally.

C. That the authorizing of such variance will not be of

substantial detriment to adjacent properties, and will not materially affect the ability of the District to effectuate the purpose of this chapter and will not be detrimental to the public interest.

D. That the condition or situation of the subject property or the intended use of the property for which the variance is sought is not common, recurrent or general in nature.

4. Approval Authority. The General Manager shall exercise approval authority and act upon any completed application no later than 10 days after submittal and may approve, conditionally approve, or deny the variance. The applicant requesting the variance shall be promptly notified in writing of any action taken. Unless specified otherwise at the time a variance is approved, the variance applies to the subject property during the term of the mandatory drought response.

5. Appeals to District Board of Directors. An applicant may appeal a decision or condition of the General Manager on a variance application to the District Board of Directors within 10 days of the decision upon written request for a hearing. The request shall state the grounds for the appeal. At a public meeting, the District Board of Directors shall act as the approval authority and review the appeal de novo by following the regular variance procedure. The decision of the District Board of Directors is final.

SECTION 11.0 VIOLATIONS AND PENALTIES

(a) Any person, who uses, causes to be used, or permits the use of water in violation of this ordinance is guilty of an offense punishable as provided herein.

(b) Each day that a violation of this ordinance occurs is a separate offense.

(c) Administrative fines may be levied for each violation of a provision of this ordinance as follows:

1. One hundred dollars for a first violation.
2. Two hundred dollars for a second violation of any provision of this ordinance within one year.
3. Five hundred dollars for each additional violation of this ordinance within one year.

(d) Violation of a provision of this ordinance is subject to enforcement through installation of a flow-restricting device in the meter.

(e) Each violation of this ordinance may be prosecuted as a misdemeanor punishable by imprisonment in the county jail for not more than thirty (30) days or by a fine not exceeding \$1,000, or by both as provided in Water Code section 377.

(f) Willful violations of the mandatory conservation measures and water use restrictions as set forth in Section 7.0 and applicable during a Level 4 Drought

Emergency condition may be enforced by discontinuing service to the property at which the violation occurs as provided by Water Code section 356.

(g) All remedies provided for herein shall be cumulative and not exclusive.

SECTION 12.0 EFFECTIVE DATE

This ordinance is effective immediately upon adoption or as otherwise established by State law for District.

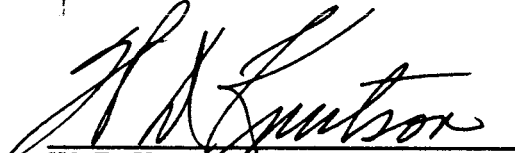
PASSED, APPROVED AND ADOPTED this 28th day of July, 2008 by the following vote:

AYES: Knutson, Anderson, Fitzsimmons, Lyttle, Stockton

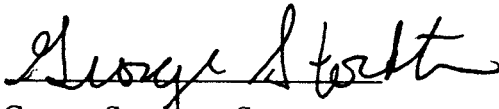
NOES: none

ABSTAIN: none

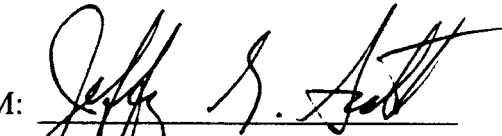
ABSENT: none



W. D. Knutson,
President of the Board of Directors

ATTEST: 

George Stockton, Secretary

APPROVED AS TO FORM: 

Jeffrey Scott, General Counsel

