



NOTICE AND CALL OF SPECIAL MEETING

Notice is hereby given that I, Tom Campbell, Chair of the Engineering and Operations Committee, have called a SPECIAL MEETING of the Agency's Engineering and Operations Committee.

Said SPECIAL MEETING of the Engineering and Operations Committee to be held on:

THURSDAY, JANUARY 9, 2020 AT 5:30 P.M.

Santa Clarita Valley Water Agency
26521 Summit Circle
Santa Clarita, California 91350
Training Room

Enclosed with and as part of this Notice and Call is an Agenda for the meeting.

Signed: 
Tom Campbell, Chair

Date: 12/31/19

Posted on December 31, 2019

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Date: December 30, 2019

To: **Engineering and Operations Committee**
Tom Campbell, Chair
Ed Colley
William Cooper
Jeff Ford
Gary Martin
Lynne Plambeck

From: Brian J. Folsom, Chief Engineer *BJF*
Keith Abercrombie, Chief Operating Officer *KA*

A special meeting of the **Engineering & Operations Committee** is scheduled to meet on **Thursday, January 9, 2020 at 5:30 PM at Summit Circle** located at 26521 Summit Circle, Santa Clarita, CA 91350 in the Training Room.

SPECIAL MEETING AGENDA

<u>ITEM</u>		<u>PAGE</u>
1.	Public Comments	
2. *	Recommend Approval of (1) a Resolution for a Construction Contract with Cedro Construction, Inc., (2) a Work Authorization to Woodard & Curran for Engineering Services During Construction and (3) a Work Authorization to Michael Baker International for Construction Management and Inspection Services for the West Ranch Recycled Water Main Extension (Phase 2D) Project	1
3. *	Recommend Approval of a Resolution for a Construction Contract with Ferreira Construction Co., Inc., and a Work Authorization to Cannon Corporation for Construction Management and Inspection Services for the Vista Canyon Recycled Water Main Extension (Phase 2B) Project	5
4. *	Operations and Production Report	9
5. *	Capital Improvement Projects Construction Status Report	67
6. *	Committee Planning Calendar	69

December 30, 2019

Page 2 of 2

7. General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities
8. General Report on Engineering Services Section Activities
9. Adjournment

* Indicates attachments

◆ To be distributed

NOTICES:

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (661) 297-1600, or writing to Santa Clarita Valley Water Agency at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Santa Clarita Valley Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, California 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Website, accessible at <http://www.yourscvwater.com>.

Posted on December 31, 2019.

M65



COMMITTEE MEMORANDUM

DATE: December 27, 2019

TO: Engineering and Operations Committee

FROM: Brian J. Folsom, P.E. *BJF*
Chief Engineer

SUBJECT: Recommend Approval of (1) a Resolution for a Construction Contract with Cedro Construction, Inc., (2) a Work Authorization to Woodard & Curran for Engineering Services During Construction and (3) a Work Authorization to Michael Baker International for Construction Management and Inspection Services for the West Ranch Recycled Water Main Extension (Phase 2D) Project

SUMMARY

The West Ranch Recycled Water Main Extension (Phase 2D) Project has been advertised for construction bids. Bids have been received and staff is recommending award of a construction contract to Cedro Construction, Inc. Staff is also recommending approval of work authorizations to Woodard & Curran (W&C) for engineering services during construction and to Michael Baker International (MBI) for construction management and inspection services.

DISCUSSION

The Agency's Capital Improvement Program includes the development and construction of a recycled water system. The West Ranch Recycled Water Main Extension (Phase 2D) Project (Project) includes construction of approximately 5,000 linear feet of new 12-inch diameter pipeline, an enclosed pump station and a hydropneumatic tank that would convey recycled water from the Agency's existing Recycled Water Reservoir No. 1 to customers including West Ranch High School, Rancho Pico Junior High School, Oak Hills Elementary School and several Homeowner's Association and street irrigation customers along the pipeline route.

The Project has been advertised in accordance with Santa Clarita Valley Water Agency (SCV Water)'s Purchasing Policy, with notices in *The Signal* on three different dates and on the Agency's website. On December 9, 2019, five bids were received and opened. A summary of the bids is presented below:

Bidder	Bidder Location	Total Bid Price
Cedro Construction, Inc.	Santa Paula, CA	\$3,112,332
Colich & Sons L.P.	Gardena, CA	\$3,127,564
MNR Construction Inc.	La Verne, CA	\$3,237,700
Ferreira Construction Co. Inc.	Rancho Cucamonga, CA	\$3,482,440
Blois Construction, Inc.	Oxnard, CA	\$5,473,822

The apparent lowest responsive bid is from Cedro Construction, Inc. for a total of \$3,112,332. The engineer's estimate for the project is \$2,709,000. Cedro Construction, Inc. is a licensed Class A General Engineering Contractor in California and is registered with the Department of Industrial Relations.

Staff has requested the engineering design consultant, Woodard & Curran (W&C), to provide a proposal for professional engineering services during construction. W&C's services include responding to contractor's requests for information, reviewing contractor submittals for conformance to the project's technical aspects, updating the construction drawings to reflect changes made during construction, and attending various construction meetings.

Staff has also requested Michael Baker International (MBI) to provide a proposal for construction management and inspection services to include managing and coordinating construction meetings and documentation, monitoring construction activities, performing inspections, reviewing progress pay estimates and construction performance and coordinating project start-up activities.

CEQA Determination

The staff recommendation is to award contracts for construction, construction management, and engineering services for the Project. The Project was previously evaluated by the lead agency, Castaic Lake Water Agency (CLWA). The CLWA Board of Directors certified the Mitigated Negative Declaration (MND) and Mitigation Monitoring and Reporting Program (MMRP) on July 26, 2017. CLWA filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on August 1, 2017. SCV Water is the successor agency to CLWA. There are no substantial changes to the project and no further CEQA documentation is necessary for the SCV Water Board to act with regards to the proposed actions.

FINANCIAL CONSIDERATIONS

The Project is included in the Agency's FY 2019/20 Capital Improvement Budget for the West Ranch Recycled Water Main Extension (Phase 2D) Project. The Project's total estimated cost, including planning, design, construction management, construction, inspection and miscellaneous costs, is \$4,700,000. This Project is expected to receive \$1,806,900 in grant funding from Proposition 84 Integrated Regional Water Management (IRWM) Round 1 Implementation Program Grant funds from the State of California Natural Resources Agency, Department of Water Resources. As of November 30, 2019, the Project's total expenses are \$561,000.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors (1) approve the attached resolution for a construction contract with Cedro Construction, Inc. in an amount not to exceed \$3,112,332, (2) authorize the General Manager to execute a work authorization with Woodard & Curran for an amount not to exceed \$160,000 for engineering services during construction and (3) authorize the General Manager to execute a work authorization with Michael Baker International for an amount not to exceed \$426,000 for construction management and inspection services for the West Ranch Recycled Water Main Extension (Phase 2D) Project.

SB

Attachment

MBS

RESOLUTION NO. SCV-XXX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
AWARDING A CONSTRUCTION CONTRACT TO
CEDRO CONSTRUCTION, INC. FOR THE
WEST RANCH RECYCLED WATER MAIN EXTENSION (PHASE 2D) PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (Agency) determined that recycled water is an important component of future water supplies; and

WHEREAS, the West Ranch Recycled Water Main Extension (Phase 2D) Project is a component of the Recycled Water Master Plan; and

WHEREAS, the previous Castaic Lake Water Agency, as a CEQA Responsible Agency, filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on August 1, 2017 and there are no substantial changes to the project, and no further CEQA documentation is necessary for the Board to act with regards to the proposed actions; and

WHEREAS, all bid proposals submitted to the Agency pursuant to the Agency's specifications (Project No. 200456) for the construction of the West Ranch Recycled Water Main Extension (Phase 2D) Project, as amended by Addenda, were publicly opened and read at the Agency's offices on Monday, December 9, 2019 at 2:00 p.m., in full accordance with the law and the Agency's customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total bid of Cedro Construction, Inc. in the amount of \$3,112,332 is the lowest responsible bid of five bids submitted, and that said bid substantially meets the requirements of said construction contract documents as amended by Addenda; and

WHEREAS, it is in the Agency's best interest that the Board of Directors, on behalf of the Agency, authorize its General Manager to accept the \$3,112,332 bid.

NOW, THEREFORE, BE IT RESOLVED that the Agency's Board of Directors does authorize its General Manager to accept said low bid and does therefore authorize the Agency's General Manager or its Chief Engineer to issue a Notice of Award to Cedro Construction, Inc., hereby found to be the "lowest responsible bidder" for the West Ranch Recycled Water Main Extension (Phase 2D) for the total sum of \$3,112,332

RESOLVED FURTHER that the Agency's General Manager or its President and Secretary are thereupon authorized, upon receipt of appropriate payment and performance bonds, appropriate certificates of insurance and an executed Contract Agreement from Cedro Construction, Inc., all of which must be approved by General Counsel, to execute the said Contract Agreement on behalf of the Agency

RESOLVED FURTHER that the Agency's General Manager or Chief Engineer are thereafter authorized to execute and forward to Cedro Construction, Inc. an appropriate Notice to Proceed.

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COMMITTEE MEMORANDUM

DATE: December 27, 2019

TO: Engineering and Operations Committee

FROM: Brian J. Folsom, P.E. *BJF*
Chief Engineer

SUBJECT: Recommend Approval of a Resolution for a Construction Contract with Ferreira Construction Co., Inc., and a Work Authorization to Cannon Corporation for Construction Management and Inspection Services for the Vista Canyon Recycled Water Main Extension (Phase 2B) Project

SUMMARY

The Vista Canyon Recycled Water Main Extension (Phase 2B) Project has two construction phases: 1) construction of pipelines for delivery of recycled water, and 2) construction of tanks for operational storage. The pipelines portion of the project has been advertised for construction bids. Bids have been received and staff is recommending award of a construction contract to Ferreira Construction Co., Inc. Staff is also recommending approval of a work authorization to Cannon Corporation (Cannon) for construction management and inspection services.

DISCUSSION

The Vista Canyon Recycled Water Main Extension (Phase 2B) Project (Project) will provide recycled water in the eastern portion of the Santa Clarita Valley. The Project will use surplus recycled water from an onsite water reclamation plant (Water Factory) to serve existing irrigation customers in the nearby Fair Oaks Community. A pump station located at the Water Factory will pump recycled water to the Agency's Phase 2B system, which includes about 11,000 feet of pipelines, and approximately 1.0 million gallons of storage. The first phase of construction will be the Phase 2B pipelines. It is anticipated that construction of the tanks will start in second quarter of 2020, pending completion of geotechnical investigations and design.

The Project was advertised for bids on November 6, 2019 in accordance with SCV Water's Purchasing Policy, with notices in *The Signal* on November 7 and 9, 2019 and on the Agency's website. On December 4, 2019, five bids were received and opened. A summary of the bids is presented below:

Bidder	Bidder Location	Total Bid Price
Ferreira Construction Co., Inc.	Rancho Cucamonga, CA	\$ 2,752,982
Cedro Construction, Inc.	Santa Paula, CA	\$ 2,786,995
MNR Construction, Inc.	La Verne, CA	\$ 2,873,700
Colich & Sons L.P.	Gardena, CA	\$ 3,699,570
Blois Construction, Inc.	Oxnard, CA	\$ 4,499,840

Staff reviewed the bids for completeness and compliance with the bid and contract requirements, and recommends award of the construction contract to Ferreira Construction Co., Inc. as the apparent lowest responsible bidder, for a total of \$2,752,982. The engineer's estimate for the project is \$2,704,000. Ferreira Construction Co., Inc. is licensed as a Class A General Engineering Contractor in California and is registered with the Department of Industrial Relations.

Staff has requested the engineering design consultant, Woodard & Curran (W&C), to provide a proposal for professional engineering services during construction. W&C's services include responding to contractor's requests for information, reviewing contractor submittals for conformance to the project's technical aspects, updating the construction drawings to reflect changes made during construction, and attending various construction meetings. W&C's proposal for an amount not to exceed \$60,000 is within the General Manager's authority.

Staff has also requested Cannon Corporation (Cannon) to provide a proposal for construction management and inspection services to include managing and coordinating construction meetings and documentation, monitoring construction activities, performing inspections, reviewing progress pay estimates and construction performance and coordinating project start-up activities.

CEQA Determination

The proposed action was previously evaluated by the Castaic Lake Water Agency's (CLWA) Board of Directors. The CLWA Board of Directors adopted the Mitigated Negative Declaration (MND) and Mitigation Monitoring and Reporting Program (MMRP), by Resolution 3211, on November 20, 2017. CLWA filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on February 12, 2018. There are no substantial changes to the project and no further CEQA documentation is necessary for the Board to act with regards to the proposed actions.

FINANCIAL CONSIDERATIONS

The Project is included in the Agency's FY 2019/20 Capital Improvement Budget. The Project's total estimated cost is \$8,672,000 for the planning, design and construction of pipelines and tanks. The budget includes \$3,000,000 for construction of Phase 2B pipelines and \$540,000 for construction management. The Project is expected to receive \$2,710,300 in grant funding from Proposition 84 Integrated Regional Water Management (IRWM) Round 1 Implementation Program Grant funds from the State of California Natural Resources Agency, Department of Water Resources. As of November 30, 2019, the Project's total expenses are \$602,000.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors approve the attached resolution for a construction contract with Ferreira Construction Co., Inc. in an amount of \$2,752,982, and authorize the General Manager to execute a work authorization with Cannon Corporation for an amount not to exceed \$400,000 for construction management and inspection services for the Vista Canyon Recycled Water Main Extension (Phase 2B) Project.

BP

Attachment

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RESOLUTION NO. SCV-XXX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
AWARDING A CONSTRUCTION CONTRACT TO
FERREIRA CONSTRUCTION CO., INC. FOR THE
VISTA CANYON RECYCLED WATER MAIN EXTENSION (PHASE 2B) PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (Agency) determined that recycled water is an important component of future water supplies; and

WHEREAS, the Vista Canyon Recycled Water Main Extension (Phase 2B) Project is a component of the Recycled Water Master Plan; and

WHEREAS, the previous Castaic Lake Water Agency, as a CEQA Responsible Agency, filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on February 12, 2018 and there are no substantial changes to the project, and no further CEQA documentation is necessary for the Board to act with regards to the proposed actions; and

WHEREAS, all bid proposals submitted to the Agency pursuant to the Agency's specifications (Project No. S16-702) for the construction of the Vista Canyon Recycled Water Main Extension (Phase 2B) Project, as amended by Addenda, were publicly opened and read at the Agency's offices on Wednesday, December 4, 2019 at 2:00 p.m., in full accordance with the law and the Agency's customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total bid of Ferreira Construction Co., Inc. in the amount of \$2,752,982 is the lowest responsible bid of five bids submitted, and that said bid substantially meets the requirements of said construction contract documents as amended by Addenda; and

WHEREAS, it is in the Agency's best interest that the Board of Directors, on behalf of the Agency, authorize its General Manager to accept the \$2,752,982 bid.

NOW, THEREFORE, BE IT RESOLVED that the Agency's Board of Directors does authorize its General Manager to accept said low bid and does therefore authorize the Agency's General Manager or its Chief Engineer to issue a Notice of Award to Ferreira Construction Co, Inc., hereby found to be the "lowest responsible bidder" for the Vista Canyon Recycled Water Main Extension (Phase 2B) for the total sum of \$2,752,982

RESOLVED FURTHER that the Agency's General Manager or its President and Secretary are thereupon authorized, upon receipt of appropriate payment and performance bonds, appropriate certificates of insurance and an executed Contract Agreement from Ferreira Construction Co., Inc., all of which must be approved by General Counsel, to execute the said Contract Agreement on behalf of the Agency

RESOLVED FURTHER that the Agency's General Manager or Chief Engineer are thereafter authorized to execute and forward to Ferreira Construction Co. Inc. an appropriate Notice to Proceed.

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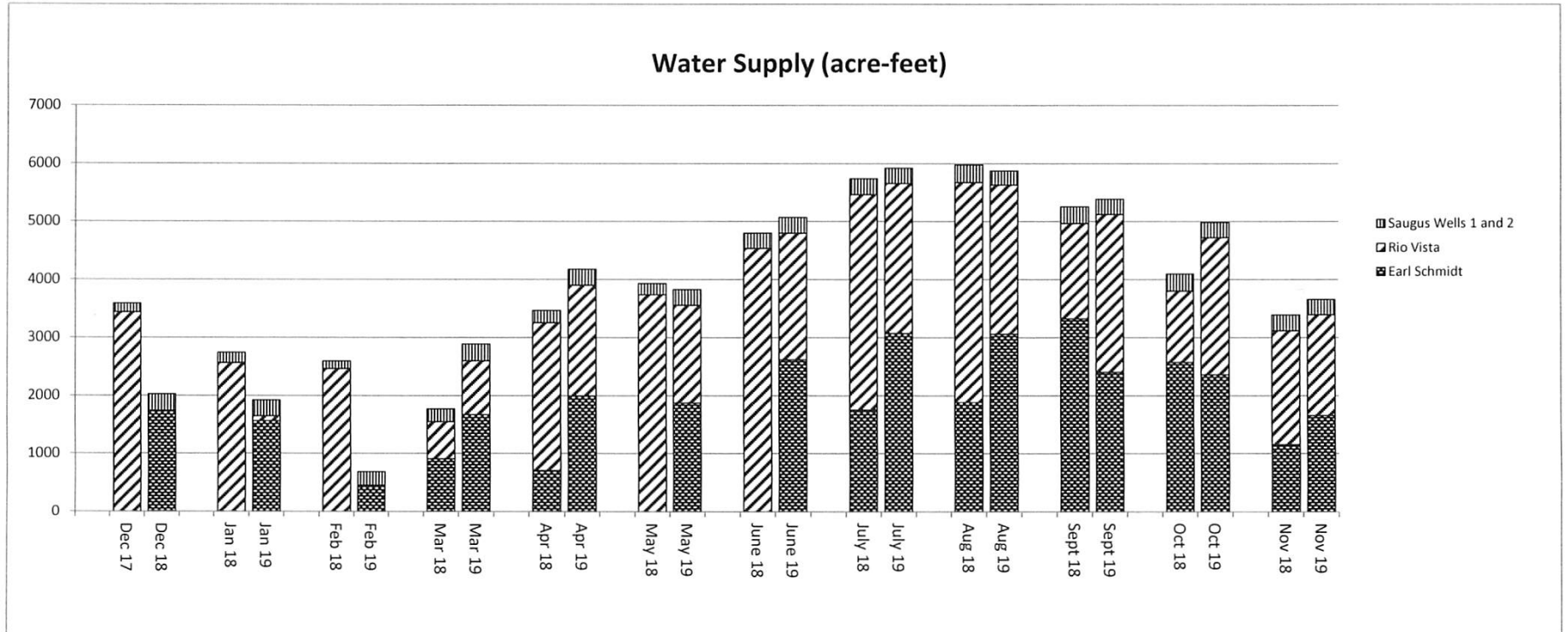


Monthly Operations & Production Report

November 2019

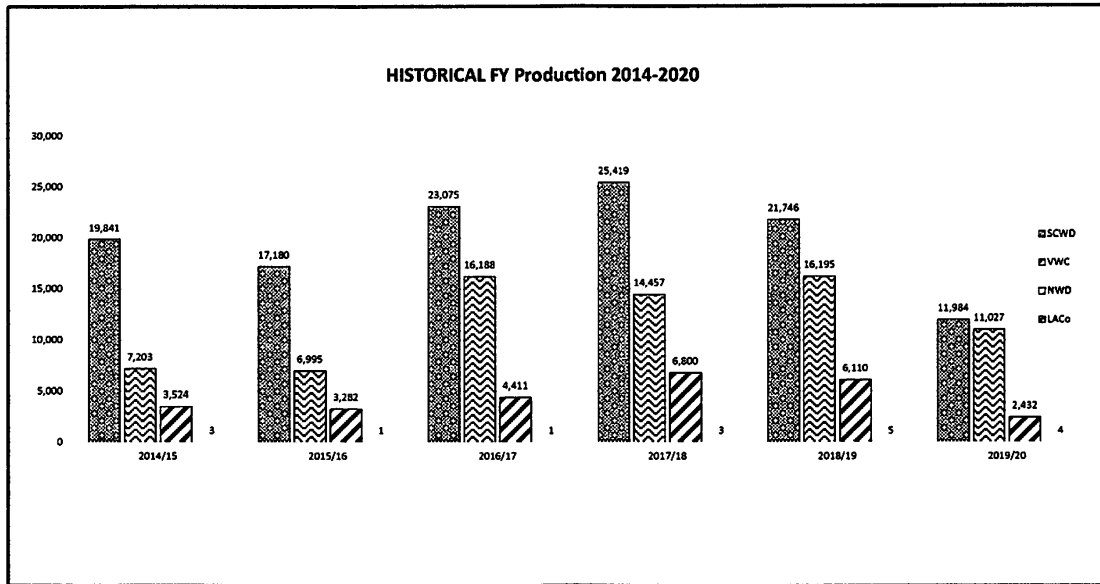
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SANTA CLARITA VALLEY WATER AGENCY
November 2019 Regional Operations Report



Source	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Total
Earl Schmidt	1736	1560	458	1665	1992	1869	2622	3071	3057	2404	2360	1655	24448.765
Rio Vista	0	85	0	933	1910	1683	2175	2588	2577	2719	2360	1736	18766.4
Saugus 1 and 2	286	275	230	288	276	277	273	267	242	261	263	263	3201.061
Total	2022	1920	688	2886	4178	3829	5070	5926	5876	5384	4983	3654	20593
Total Sold	1947	1805	802	2735	4016	3754	4985	5823	5779	5316	4879	3651	45492
RVWTP Use/Storage	9	80	-78	52.55	66.96	17.54	22.04	35.68	27.64	27.66	40.42	13.19	170.09
Total Use	1956	1885	724	2787.55	4082.96	3771.54	5007.04	5858.68	5806.64	5343.66	4919.42	3664.19	20214.09
Water Loss	-3.26%	-1.82%	5.23%	-3.41%	-2.27%	-1.50%	-1.24%	-1.14%	-1.18%	-0.75%	-1.28%	0.28%	-1.84%
Recycled Water	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Total
Valencia	0	2	0	10	50	36	59	76	70	64	65	25	457

* Water loss includes water usage at Rio Vista Water Treatment Plant facilities and system storage.



HISTORICAL FY PRODUCTION 2014-2020													
2014/15	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,912	2,491	2,177	2,110	1,536	748	990	1,036	1,174	1,365	1,458	1,844	19,841
VWC	1,143	897	718	545	410	340	408	388	400	858	587	700	7,203
NCWD	481	410	389	341	268	135	200	244	244	283	253	334	3,524
LACo	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	4,517	3,798	3,285	2,996	2,215	1,221	1,603	1,635	1,818	2,306	2,299	2,879	30,571
Cum. FYTD	4,517	8,315	11,599	14,596	16,811	18,032	19,635	21,270	23,088	25,393	27,692	30,571	
2015/16	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	1,731	1,600	1,616	1,629	1,427	1,180	829	1,060	1,185	1,176	1,612	1,935	17,180
VWC	691	773	583	550	547	364	157	366	412	482	715	1,375	6,995
NCWD	347	373	325	278	233	199	148	195	206	250	319	411	3,282
LACo	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	2,769	2,948	2,524	2,455	2,207	1,743	1,134	1,622	1,803	1,888	2,646	3,721	27,458
Cum. FYTD	2,769	5,715	8,239	10,694	12,901	14,644	15,778	17,400	19,203	21,091	23,737	27,458	
2016/17	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,404	2,663	2,368	2,128	1,712	1,377	952	844	1,359	2,040	2,456	2,772	23,075
VWC	1,565	1,640	1,305	1,080	607	620	643	764	1,123	1,728	2,499	2,614	16,188
NCWD	478	467	418	372	293	234	141	109	216	384	604	695	4,411
LACo	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	4,447	4,770	4,091	3,580	2,612	2,231	1,736	1,716	2,699	4,152	5,559	6,081	43,674
Cum. FYTD	4,447	9,218	13,309	16,888	19,501	21,732	23,467	25,184	27,882	32,034	37,593	43,674	
2017/18	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	3,085	3,035	2,589	2,462	1,922	1,955	1,578	1,580	969	1,905	2,076	2,264	25,419
VWC	2,089	1,723	1,184	1,260	966	969	853	676	619	1,160	1,336	1,622	14,457
NCWD	785	856	845	801	640	596	253	275	157	349	473	808	6,800
LACo	0	0	0	0	0	0	0	1	0	0	1	0	3
Total	5,958	5,615	4,619	4,522	3,528	3,481	2,684	2,532	1,746	3,414	3,885	4,695	46,680
Cum. FYTD	5,958	11,573	16,192	20,714	24,242	27,723	30,407	32,939	34,685	38,099	41,984	46,680	
2018/19	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,694	2,816	2,535	2,174	1,882	1,274	1,110	493	1,177	1,770	1,632	2,189	21,746
VWC	1,921	2,026	1,743	1,300	1,084	459	513	232	1,205	1,619	1,701	2,193	16,195
NCWD	1,023	1,012	881	537	382	214	181	76	352	428	422	603	6,110
LACo	1	0	0	1	0	0	1	1	1	0	0	0	5
Total	5,639	5,855	5,160	4,011	3,349	1,947	1,805	802	2,735	4,016	3,754	4,985	44,057
Cum. FYTD	5,639	11,494	16,654	20,665	24,014	25,961	27,766	28,567	31,302	35,318	39,072	44,057	
2019/20	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,610	2,743	2,475	2,310	1,845	0	0	0	0	0	0	0	11,984
VWC	2,491	2,518	2,348	2,145	1,526	0	0	0	0	0	0	0	11,027
NCWD	721	518	492	422	280	0	0	0	0	0	0	0	2,432
LACo	2	0	0	1	1	0	0	0	0	0	0	0	4
Total	5,823	5,779	5,316	4,879	3,651	0	0	0	0	0	0	0	25,448
Cum. FYTD	5,823	11,602	16,918	21,796	25,448	25,448	25,448	25,448	25,448	25,448	25,448	25,448	

*Total does not include recycled water.

SANTA CLARITA VALLEY WATER AGENCY

Record of Weather Observations

November 2019

DATE	High Temperature	Low Temperature	Precipitation 2019	Precipitation 2018
1-Nov	76	36	0.00	0.00
2-Nov	80	42	0.00	0.00
3-Nov	82	40	0.00	0.00
4-Nov	85	39	0.00	0.00
5-Nov	86	40	0.00	0.00
6-Nov	83	41	0.00	0.00
7-Nov	86	41	0.00	0.01
8-Nov	85	43	0.00	0.01
9-Nov	85	43	0.00	0.00
10-Nov	82	40	0.00	0.00
11-Nov	85	39	0.00	0.00
12-Nov	87	45	0.00	0.00
13-Nov	80	42	0.00	0.00
14-Nov	74	43	0.00	0.00
15-Nov	73	41	0.00	0.00
16-Nov	82	41	0.00	0.00
17-Nov	84	45	0.00	0.00
18-Nov	90	43	0.00	0.00
19-Nov	79	46	0.00	0.00
20-Nov	58	48	0.18	0.00
21-Nov	64	40	0.00	0.13
22-Nov	63	39	0.01	0.34
23-Nov	67	39	0.00	0.01
24-Nov	71	39	0.00	0.01
25-Nov	68	34	0.00	0.01
26-Nov	59	42	0.00	0.00
27-Nov	52	39	0.93	0.00
28-Nov	44	38	1.31	0.11
29-Nov	53	34	0.01	1.22
30-Nov	50	32	0.17	0.02

TOTAL	2.61	1.87
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	2019-2020	2018-2019
<i>Total Precipitation of Current Month</i>	2.61	1.87
<i>Total Precipitation End of Previous Month</i>	0.01	0.52
Total Precipitation Since October 1st	2.62	2.39
<i>Temperature Averages for Current Month</i>		
HIGH	73.8	73.0
LOW	40.5	42.0

Santa Clarita Valley Water Agency
Summary of Annual Precipitation
 October 1st through September 30th
 (Total in Inches)

	<i>1998-99</i>	<i>1999-00</i>	<i>2000-01</i>	<i>2001-02</i>	<i>2002-03</i>	<i>2003-04</i>	<i>2004-05</i>	<i>2005-06</i>	<i>2006-07</i>	<i>2007-08</i>	<i>2008-09</i>
Oct	0.33	0.00	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25	0.09
Nov	1.39	0.00	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50	1.78
Dec	1.39	0.05	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67	3.01
Jan	2.08	1.21	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54	0.69
Feb	0.65	9.43	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82	6.78
Mar	3.00	3.15	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10	1.18
Apr	3.78	2.10	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07	0.07
May	0.00	0.00	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17	0.01
Jun	0.48	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Jul	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.00
Aug	0.00	0.31	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Sep	0.01	0.00	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00	0.00
TOTAL	13.11	16.25	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12	13.64
	<i>2009-10</i>	<i>2010-11</i>	<i>2011-12</i>	<i>2012-13</i>	<i>2013-14</i>	<i>2014-15</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>
Oct	4.04	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52	0.01
Nov	0.08	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06	1.87	2.61
Dec	4.28	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01	2.77	
Jan	9.13	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18	8.08	
Feb	4.96	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35	8.56	
Mar	0.69	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50	4.15	
Apr	2.40	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02	0.09	
May	0.07	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01	1.60	
Jun	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	
Jul	0.00	0.01	0.00	0.08	0.02	0.87	0.00	0.01	0.00	0.00	
Aug	0.00	0.00	0.01	0.00	0.05	0.00	0.02	0.07	0.00	0.00	
Sep	0.00	0.00	0.02	0.00	0.00	0.78	0.00	0.13	0.02	0.03	
TOTAL	25.65	31.27	16.07	8.28	9.23	12.87	10.87	25.53	11.15	27.68	2.62

SANTA CLARITA VALLEY WATER AGENCY
WATER PRODUCTION BY WELL 2019 (ACRE-FEET)

NEWHALL WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
N12	85	72	17	60	41	0	147	191	109	163	137	0	1022
N13	95	79	21	139	108	168	78	222	190	194	157	0	1450
C1	21	13	3	23	31	36	46	56	54	44	32	0	359
C2	6	5	0	13	18	20	24	11	27	21	16	0	163
C7	22	18	4	29	40	47	59	75	70	57	44	0	465
P1	0	0	0	0	0	0	0	0	0	0	0	0	0
P3	0	0	0	0	0	0	0	0	0	0	0	0	0
P4	0	0	0	0	0	0	0	0	0	0	0	0	0
P5	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NWD	229	187	45	265	238	271	353	555	451	479	386	0	3459
SANTA CLARITA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	8	0	0	0	14	44	47	37	27	21	0	198
LOST CANYON NO.2A	0	24	1	30	59	50	85	101	77	54	42	0	523
SAND CANYON	3	29	1	38	69	91	91	94	86	58	45	0	605
MITCHELL 5A	0	0	0	0	0	0	0	0	0	0	0	0	0
MITCHELL 5B	0	0	0	0	0	0	1	1	0	1	0	0	3
SIERRA	15	54	1	1	6	41	29	13	16	27	2	0	205
NORTH OAKS EAST	2	35	1	2	1	2	2	1	2	0	0	0	48
NORTH OAKS CENTRAL	2	47	2	2	1	3	3	2	4	2	1	0	69
NORTH OAKS WEST	0	0	0	0	0	0	0	0	0	0	0	0	0
HONBY	1	2	0	0	0	0	1	4	4	2	1	0	15
GUIDA	25	31	0	41	34	53	44	45	45	37	0	0	355
CLARK	19	32	0	29	25	39	32	32	28	39	24	0	299
SANTA CLARA	1	37	1	1	1	2	1	2	5	2	2	0	55
VALLEY CENTER	54	55	1	72	75	0	0	0	0	0	0	0	257
TOTAL SCWD	122	354	8	216	271	295	333	342	304	249	138	0	2632
VALENCIA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	34	28	8	5	5	6	7	12	14	16	14	0	148
E15	35	21	1	6	9	8	11	14	32	20	17	0	174
N	20	36	5	25	30	37	43	58	61	39	33	0	387
N7	91	23	8	23	40	49	43	109	100	59	37	0	581
N8	39	16	2	33	27	37	100	60	68	71	38	0	491
Q2	64	52	4	20	18	0	0	0	0	0	0	0	157
T7	8	4	2	4	6	7	21	39	16	26	6	0	138
U6	2	3	2	5	6	8	33	49	9	6	4	0	126
U4	3	2	1	3	3	3	18	23	5	6	4	0	69
S6	64	74	13	33	50	64	26	0	0	0	0	0	324
S7	24	24	8	5	13	8	10	17	8	13	9	0	140
S8	9	30	4	9	9	13	2	10	7	37	10	0	139
W11	24	30	2	56	49	73	88	103	1	0	61	0	486
W9	22	9	5	39	36	41	98	92	101	75	89	0	607
W10	87	61	8	36	52	74	71	147	152	141	76	0	906
159 (GOLF COURSE IRRIGATION)	0	0	0	0	0	5	0	0	0	2	1	0	9
160 (SYSTEM)	2	2	1	1	2	1	2	3	2	1	2	0	19
160 (GOLF COURSE IRRIGATION)	10	4	19	56	45	66	90	83	40	85	28	0	527
201 (SYSTEM)	0	0	0	0	0	0	0	0	0	0	0	0	0
205	0	0	0	0	0	0	0	0	0	0	0	0	0
206	95	84	7	42	37	54	58	84	65	75	64	0	663
207	120	66	6	57	54	50	116	87	100	101	76	0	833
TOTAL VWD	752	569	106	457	491	605	834	988	780	774	568	0	6923
S1	143	116	149	146	149	142	140	117	129	141	141	0	1513
S2	132	114	139	130	128	131	127	125	132	122	123	0	1403
TOTAL S1 & S2	275	230	288	276	277	273	267	242	261	263	263	0	2915
TOTAL WELL PRODUCTION	1378	1340	447	1214	1276	1444	1787	2127	1796	1765	1355	0	15929
WELL 201 (NON-SYSTEM)	106	31	106	99	108	101	105	103	102	105	85	0	1052
VALLEY CENTER (NON-SYSTEM)	0	0	0	0	0	0	0	0.33	0	0	0	0	0.33
Q2 (NON SYSTEM)	0	0	0	0	0	0.05	0.09	0.13	0.60	0	0.28	0	1.15
205 (NON-SYSTEM)	0	0	0	0	0	0	0	0	0	0	3.39	0	3.39

NEWHALL WATER DIVISION
WATER PRODUCTION 2019 (ACRE-FEET)

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NEWHALL SYSTEM													
N12	85	72	17	60	41	0	147	191	109	163	137		1022
N13	95	79	21	139	108	168	78	222	190	194	157		1450
CASTAIC SYSTEM													
C1	21	13	3	23	31	36	46	56	54	44	32		359
C2	6	5	0	13	18	20	24	11	27	21	16		163
C7	22	18	4	29	40	47	59	75	70	57	44		465
PINETREE SYSTEM													
P1	0	0	0	0	0	0	0	0	0	0	0		0
P3	0	0	0	0	0	0	0	0	0	0	0		0
P4	0	0	0	0	0	0	0	0	0	0	0		0
P5	0	0	0	0	0	0	0	0	0	0	0		0
S1 & S2	74	62	77	74	74	73	72	65	70	71	71		781
TOTAL GROUNDWATER	303	249	122	338	312	344	425	620	521	549	456	0	4240
IMPORT + S1 & S2													
NEWHALL SYSTEM													
N-3	13	1	156	109	162	216	233	73	128	65	23		1179
CASTAIC SYSTEM													
N-1	39	18	69	76	46	67	74	73	41	47	45		594
PINETREE SYSTEM													
N-2	87	48	88	156	139	197	233	239	206	202	136		1733
TESORO SYSTEM													
N-4	41	10	40	86	75	122	180	133	117	109	76		988
TOTAL IMPORT + S1 & S2	181	76	352	428	422	603	721	518	492	422	280	0	4494
TOTAL GROUNDWATER (INCLUDES S1 & S2)	303	249	122	338	312	344	425	620	521	549	456	0	4240
TOTAL IMPORT (NO S1 & S2)	107	15	275	354	348	530	649	453	422	352	209	0	3713
TOTAL GROSS PRODUCTION (GW + IMPORT)	410	263	397	692	660	874	1074	1073	943	901	666	0	7953
TOTAL INTERTIE TRANSFERS	0	50	0	0	0	-13	-52	0	0	0	0	0	-15
TOTAL NET PRODUCTION	410	314	397	692	660	861	1022	1073	943	901	666	0	7938
% BY SOURCE													
GROUNDWATER	74%	79%	31%	49%	47%	40%	42%	58%	55%	61%	69%		53%
IMPORT	26%	5%	69%	51%	53%	62%	64%	42%	45%	39%	31%		47%
INTERTIE	0%	16%	0%	0%	0%	-2%	-5%	0%	0%	0%	0%		0%

**SANTA CLARITA WATER DIVISION
WATER PRODUCTION 2019 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	8	0	0	0	14	44	47	37	27	21		198
LOST CANYON NO.2A	0	24	1	30	59	50	85	101	77	54	42		523
SAND CANYON	3	29	1	38	69	91	91	94	86	58	45		605
MITCHELL 5A	0	0	0	0	0	0	0	0	0	0	0		0
MITCHELL 5B	0	0	0	0	0	0	1	1	0	1	0		3
SIERRA	15	54	1	1	6	41	29	13	16	27	2		205
NORTH OAKS EAST	2	35	1	2	1	2	2	1	2	0	0		48
NORTH OAKS CENTRAL	2	47	2	2	1	3	3	2	4	2	1		69
NORTH OAKS WEST	0	0	0	0	0	0	0	0	0	0	0		0
HONBY	1	2	0	0	0	0	1	4	4	2	1		15
GUIDA	25	31	0	41	34	53	44	45	45	37	0		355
CLARK	19	32	0	29	25	39	32	32	28	39	24		299
SANTA CLARA	1	37	1	1	1	2	1	2	5	2	2		55
VALLEY CENTER	54	55	1	72	75	0	0	0	0	0	0		257
TOTAL ALLUVIUM	122	354	8	216	271	295	333	342	304	249	138	0	2632
SAUGUS WELLS S1 & S2	201	168	211	202	203	200	196	177	191	193	193		2134
TOTAL GROUNDWATER	323	522	219	418	474	495	529	519	495	442	331	0	4766
IMPORT + S1 & S2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SC-1 BOUQUET	191	83	175	136	143	171	233	302	269	225	221		2148
SC-2 HONBY	179	2	126	166	171	250	307	341	311	303	163		2319
SC-3 WILEY	50	52	52	93	79	111	185	199	186	185	139		1331
SC-4 HONBY #2	200	119	284	320	354	520	614	599	531	455	301		4296
SC-5 RIO VISTA	0	0	38	194	204	250	237	233	222	227	180		1786
SC-6 LOST CANYON	55	68	26	219	95	126	200	215	144	166	201		1516
SC-7	26	12	50	52	52	110	117	123	113	103	71		830
SC-8	79	20	112	131	215	303	324	327	298	209	163		2181
SC-9	40	50	70	85	46	52	130	173	176	135	44		1002
SC-10	35	17	76	172	67	25	24	24	20	76	172		708
SC-11	38	2	17	0	6	2	5	7	4	21	15		116
SC-12	180	66	115	140	125	166	176	172	175	170	156		1640
SC-13	37	1	37	62	73	104	59	27	25	38	20		482
TOTAL IMPORT + S1 & S2	1110	493	1,177	1,770	1,632	2,189	2,610	2,743	2,475	2,310	1,845	0	20,354
METERING ADJUSTMENT	-9	-5	0	0	0	-3	0	-0.17	0	0	0		-18
NET IMPORT + S1 & S2	1,100	488	1,177	1,770	1,632	2,186	2,610	2,742	2,475	2,310	1,845	0	20,336
TOTAL GROUNDWATER (INCLUDES S1 & S2)	323	522	219	418	474	495	529	519	495	442	331	0	4766
TOTAL IMPORT (NO S1 & S2)	908	324	967	1,568	1,429	1,989	2,415	2,566	2,284	2,118	1,652	0	18,220
TOTAL GROSS PRODUCTION (GW + IMPORT)	1,232	847	1,185	1,986	1,903	2,484	2,943	3,085	2,779	2,559	1,983	0	22,986
TOTAL INTERTIE TRANSFERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NET PRODUCTION	1,232	847	1,185	1,986	1,903	2,484	2,943	3,085	2,779	2,559	1,983	0	22,986
% BY SOURCE													
GROUNDWATER	26%	62%	18%	21%	25%	20%	18%	17%	18%	17%	17%		21%
IMPORT	74%	38%	82%	79%	75%	80%	82%	83%	82%	83%	83%		79%
INTERTIE	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%
VALLEY CENTER (NON-SYSTEM) *	0	0	0	0	0	0	0	0.33	0	0	0		0.33

* Not used in the calculation for % by Source

VALENCIA WATER DIVISION
WATER PRODUCTION 2019 (ACRE-FEET)

ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	34	28	8	5	5	6	7	12	14	16	14		148
E15	35	21	1	6	9	8	11	14	32	20	17		174
N	20	36	5	25	30	37	43	58	61	39	33		387
N7	91	23	8	23	40	49	43	109	100	59	37		581
N8	39	16	2	33	27	37	100	60	68	71	38		491
Q2	64	52	4	20	18	0	0	0	0	0	0		157
T7	8	4	2	4	6	7	21	39	16	26	6		138
U6	2	3	2	5	6	8	33	49	9	6	4		126
U4	3	2	1	3	3	3	18	23	5	6	4		69
S6	64	74	13	33	50	64	26	0	0	0	0		324
S7	24	24	8	5	13	8	10	17	8	13	9		140
S8	9	30	4	9	9	13	2	10	7	37	10		139
W11	24	30	2	56	49	73	88	103	1	0	61		486
W9	22	9	5	39	36	41	98	92	101	75	89		607
W10	87	61	8	36	52	74	71	147	152	141	76		906
TOTAL ALLUVIUM	525	412	73	302	353	428	568	731	573	510	397	0	4873
SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	0	0	0	0	0	5	0	0	0	2	1		9
160 - DOM	2	2	1	1	2	1	2	3	2	1	2		19
160 - VGC*	10	4	19	56	45	66	90	83	40	85	28		527
201	0	0	0	0	0	0	0	0	0	0	0		0
205	0	0	0	0	0	0	0	0	0	0	0		0
206	95	84	7	42	37	54	58	84	65	75	64		663
207	120	66	6	57	54	50	116	87	100	101	76		833
TOTAL SAUGUS	226	157	33	156	138	177	265	257	207	264	171	0	2051
IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	83	23	115	160	204	240	323	351	312	306	237		2353
V-2	65	42	180	351	289	427	452	454	462	395	208		3324
V-4	25	14	154	251	229	266	311	330	334	302	92		2309
V-5	96	63	180	143	159	307	447	461	406	401	267		2931
V-6	99	37	84	60	67	67	70	96	81	67	79		807
V-7	18	8	61	160	115	148	150	124	116	61	40		1000
V-8	128	46	431	694	637	738	738	701	637	612	603		5965
TOTAL IMPORT	513	232	1205	1,819	1,701	2,193	2,491	2,518	2,348	2,145	1,526	0	18,689
TOTAL GROUNDWATER	752	569	106	457	491	605	834	988	780	774	568	0	6,923
TOTAL IMPORT	513	232	1,205	1,819	1,701	2,193	2,491	2,518	2,348	2,145	1,526	0	18,689
TOTAL GROSS PRODUCTION	1,265	801	1,311	2,276	2,192	2,797	3,324	3,506	3,128	2,919	2,094	0	25,612
TOTAL INTERTIE TRANSFERS	0	-50	0	0	0	13	52	0	0	0	0	0	15
TOTAL NET PRODUCTION	1,265	751	1,311	2,276	2,192	2,811	3,377	3,506	3,128	2,919	2,094	0	25,627
% BY SOURCE													
GROUNDWATER	59%	71%	7%	18%	21%	20%	23%	26%	24%	24%	26%		25%
IMPORT WATER	41%	29%	93%	82%	79%	80%	77%	74%	76%	76%	74%		75%
INTERTIE	0%	-7%	0%	0%	0%	0%	2%	0%	0%	0%	0%		0%
RECYCLED WATER	2	0	10	50	36	59	76	70	64	65	25		456
Well 201 Discharge *	106	31	106	99	108	101	105	103	102	105	85		1052
Well Q2 Non-System *	0	0	0	0	0	0.05	0.09	0.13	0.60	0	0.28		1.15
Well 205 Non-System *	0	0	0	0	0	0	0	0	0	0	3.39		3.39

*Not used in the calculation for % by source

LOS ANGELES COUNTY WATERWORKS DISTRICT 36

SOURCE

TURNOUT	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
LA 1	0.0491	0	0.0276	0.046	0	0.00	0	0	0	0.0368	0		0.16
LA 2	1.0925	0.5371	0.5432	0	0	0.00	1.989	0.3744	0.491	0.7488	0.5094		6.29
TOTAL	1.1416	0.5371	0.5708	0.046	0	0	1.989	0.3744	0.491	0.7856	0.5094	0.00	6.44

RAW WATER

SOURCE	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
RVTP	85	0	933	1,910	1683	2175	2,588	2,577	2,404	2,360	1,733		18,446.55
ESTP	1,560	458	1,665	1,992	1869	2622	3,071	3,057	2,719	2,360	1,617		22,990.00
Wells	275	230	288	276	277	273	267	242	261	263	263		2,915.11
TOTAL	1,920	688	2,886	4,178	3,828	5,071	5,926	5,875	5,384	4,983	3,613	0	44,351.66

S1/S2 TREATMENT

SOURCE	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
S1	143.2	115.9	148.82	145.9	148.67	142.1	139.7	117.34	129.21	140.96	140.69		1512.51
S2	131.98	114.01	138.91	129.74	128.26	131.08	127.4	124.54	131.85	122.19	122.66		1402.60
TOTAL	275.17	229.91	287.73	275.65	276.93	273.18	267.1	241.88	261.06	263.15	263.36	0	2915.11



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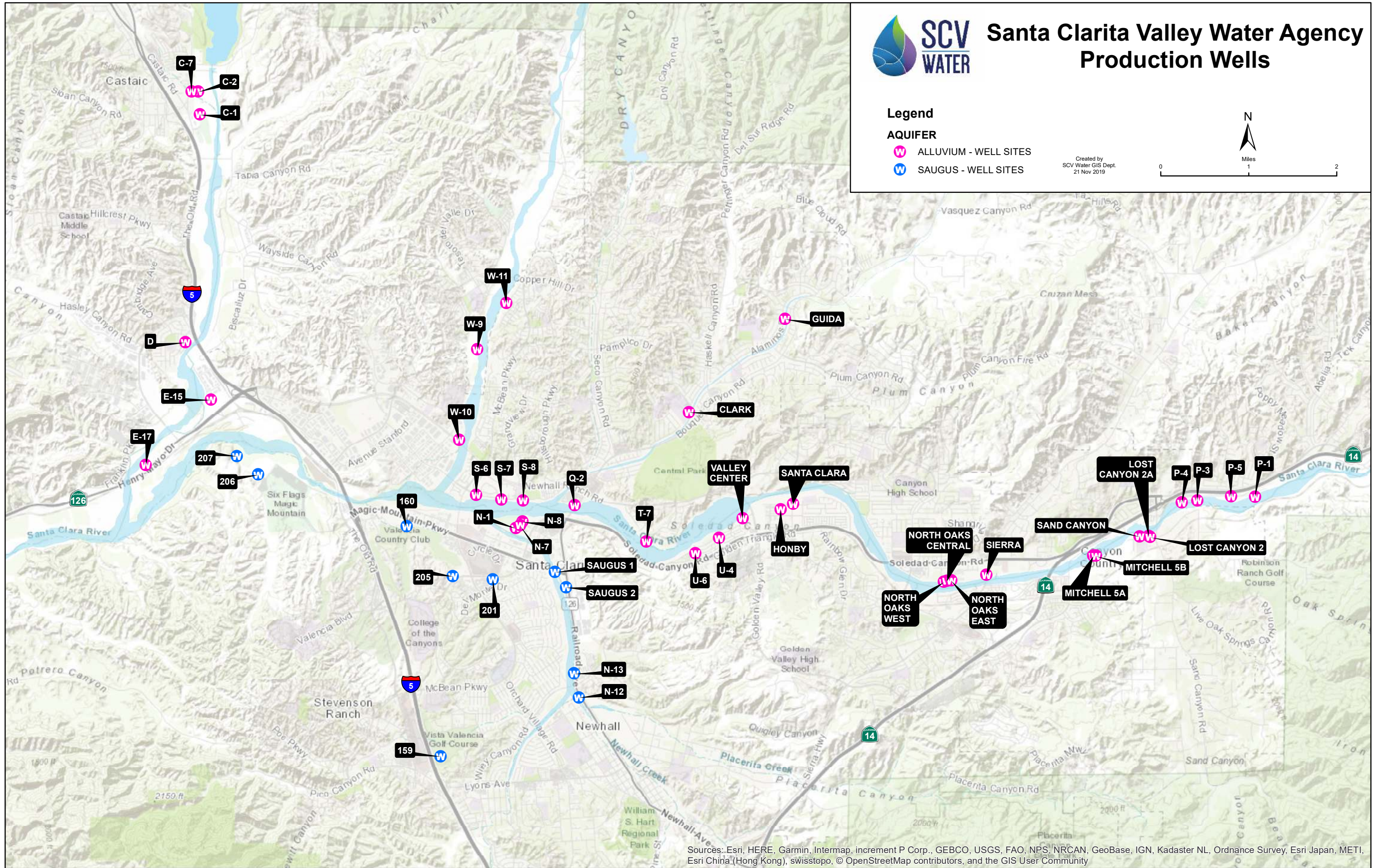
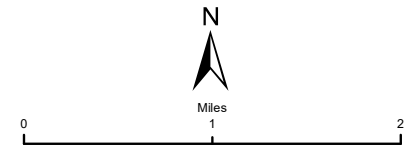
Santa Clarita Valley Water Agency Production Wells

Legend

AQUIFER

-  ALLUVIUM - WELL SITES
-  SAUGUS - WELL SITES

Created by
SCV Water GIS Dept.
21 Nov 2019

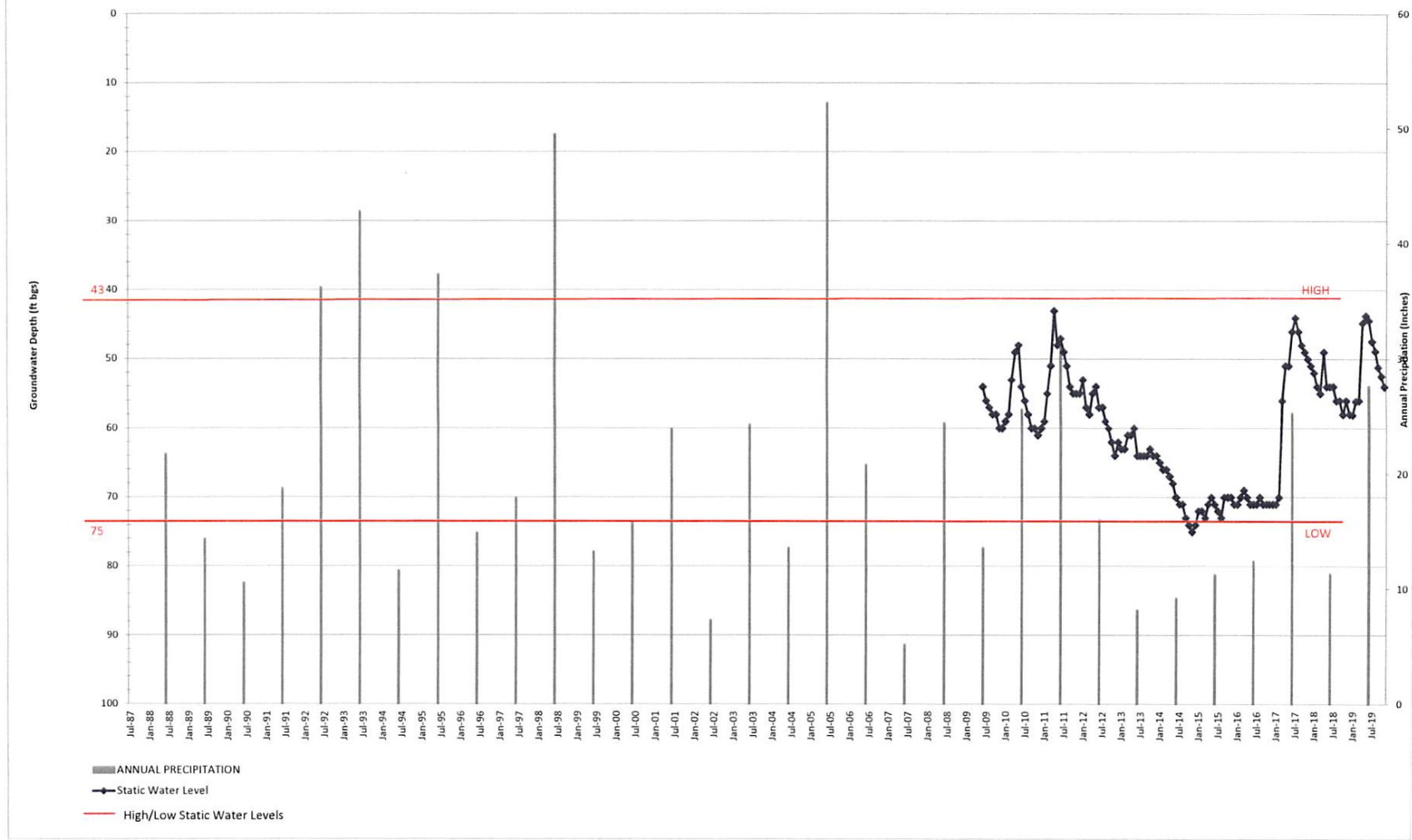


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

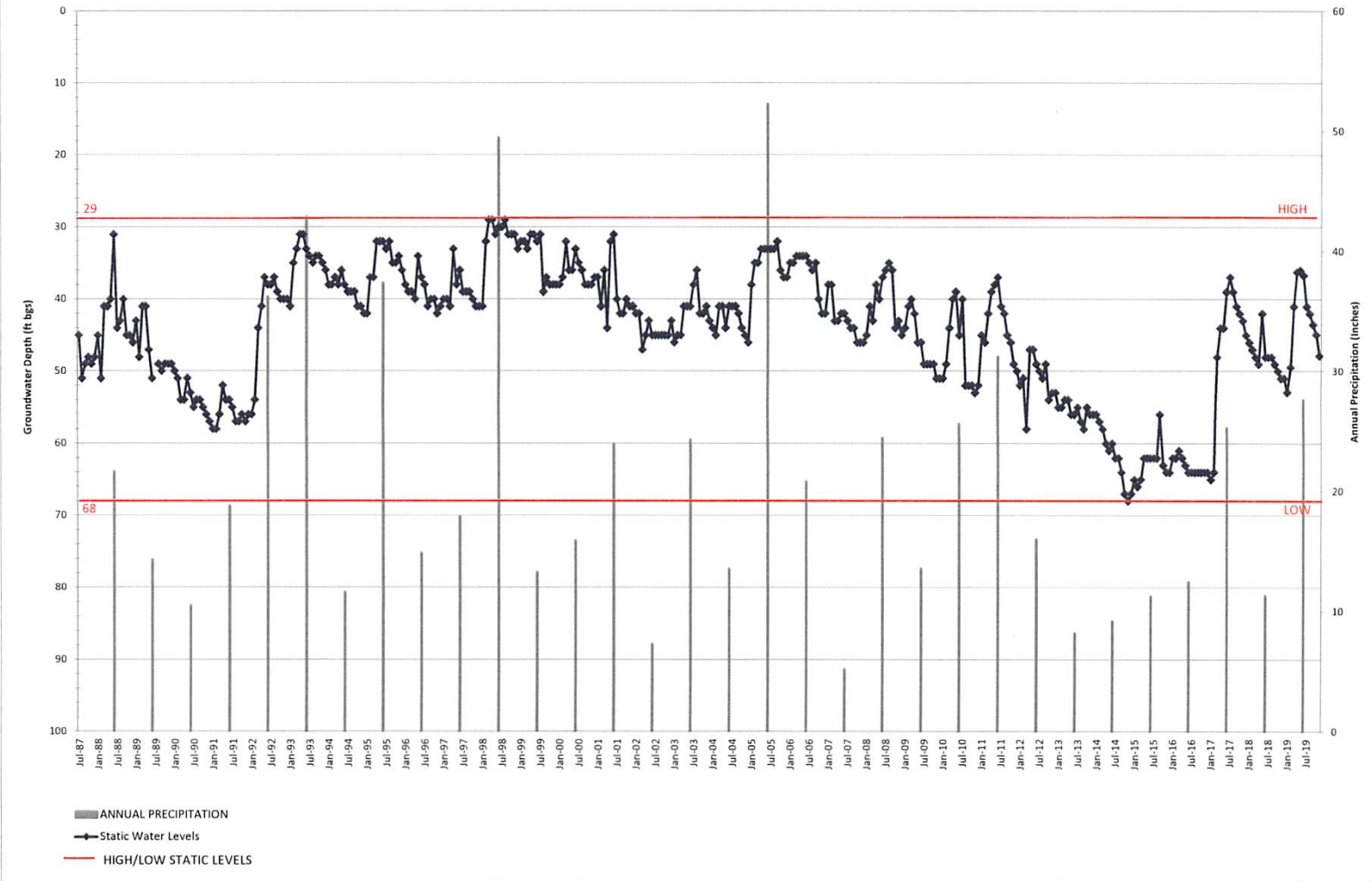
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SCV WATER WELL C7
STATIC WATER LEVEL VS PRECIPITATION



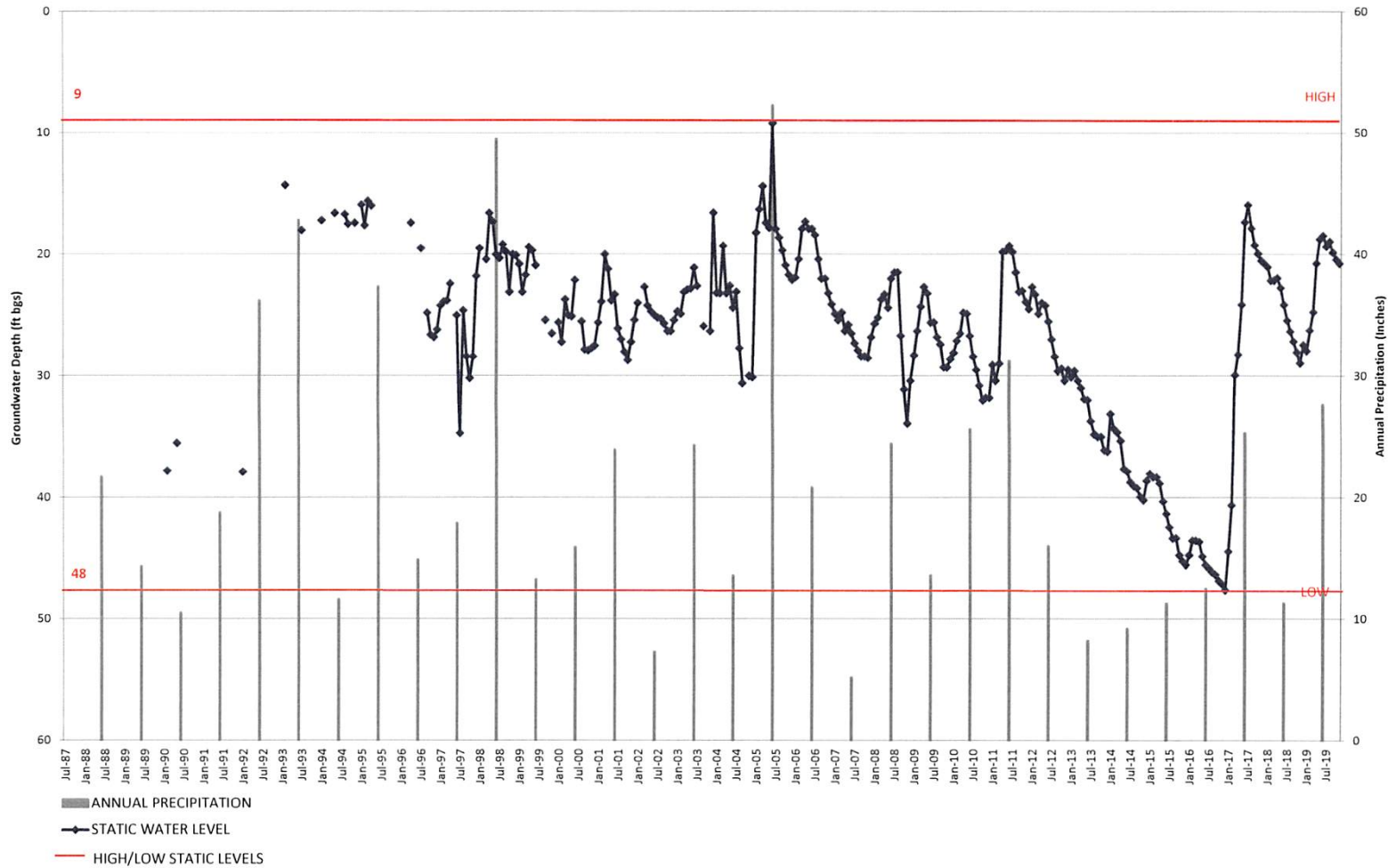
SCV WATER WELL C2
STATIC WATER LEVEL VS PRECIPITATION



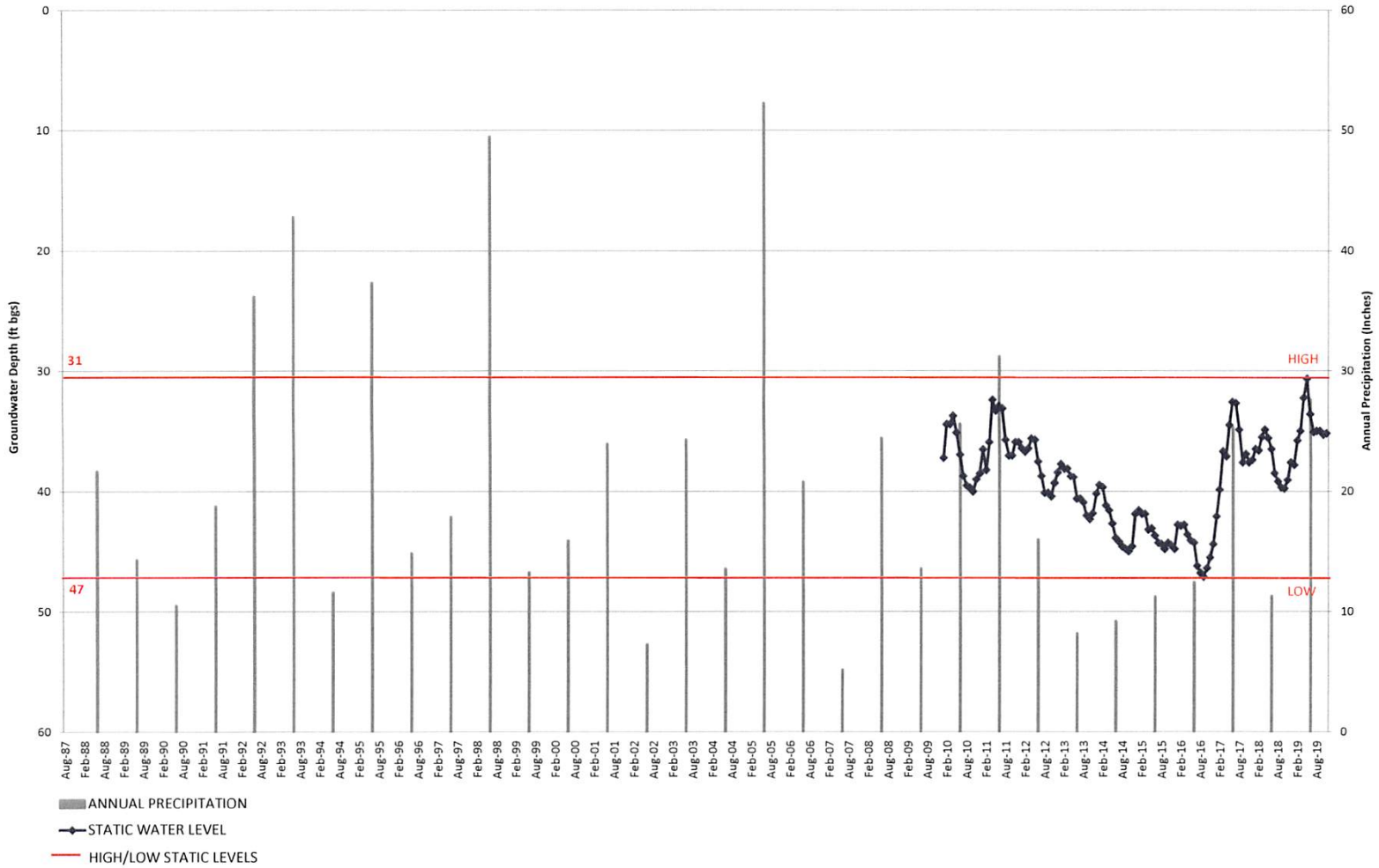
SCV WATER WELL C1
STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL D
 STATIC WATER LEVEL VS PRECIPITATION



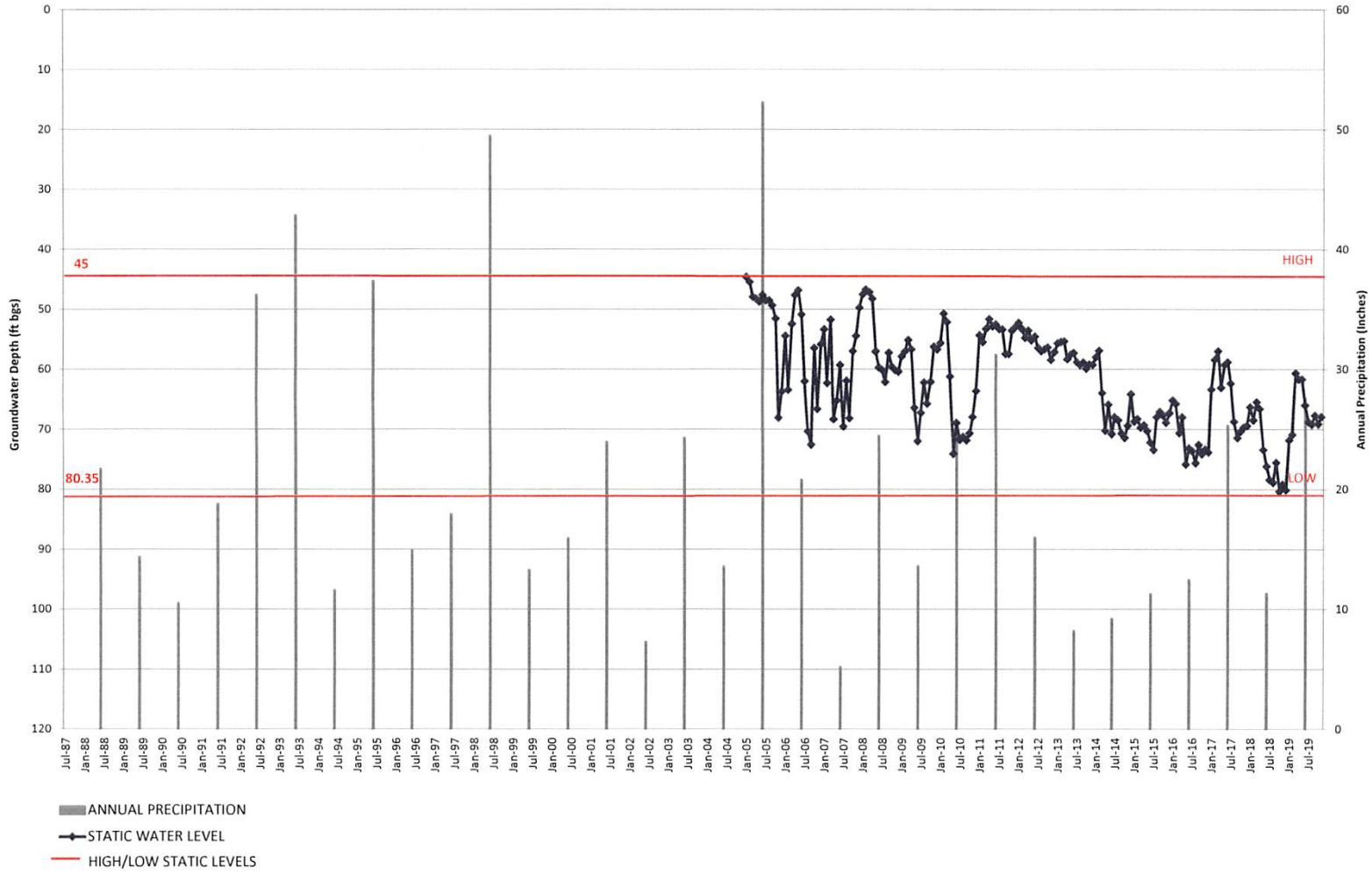
SCV WATER WELL E15
 STATIC WATER LEVEL VS. PRECIPITATION



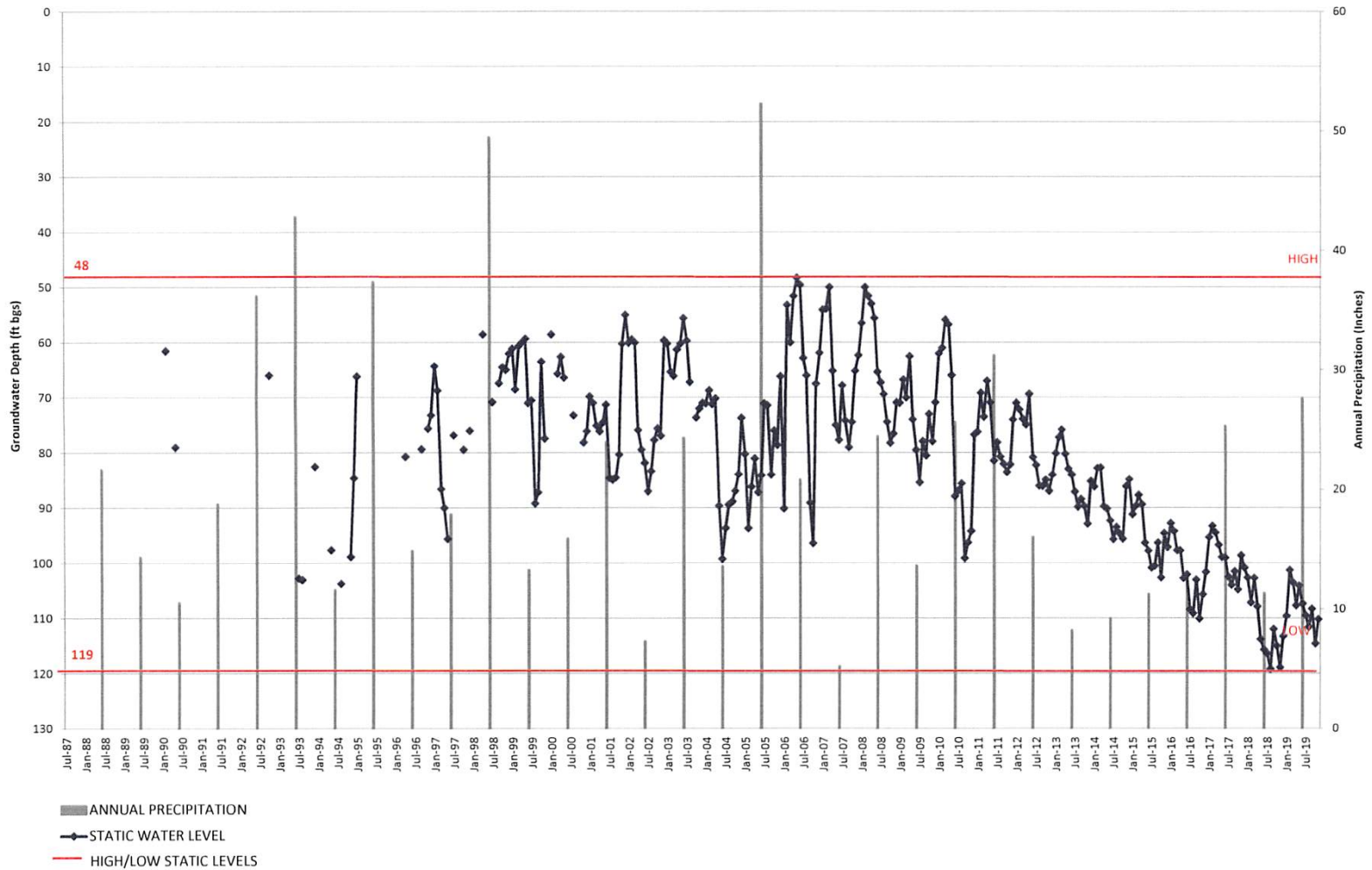
SCV WATER WELL 207
 STATIC WATER LEVEL VS PRECIPITATION



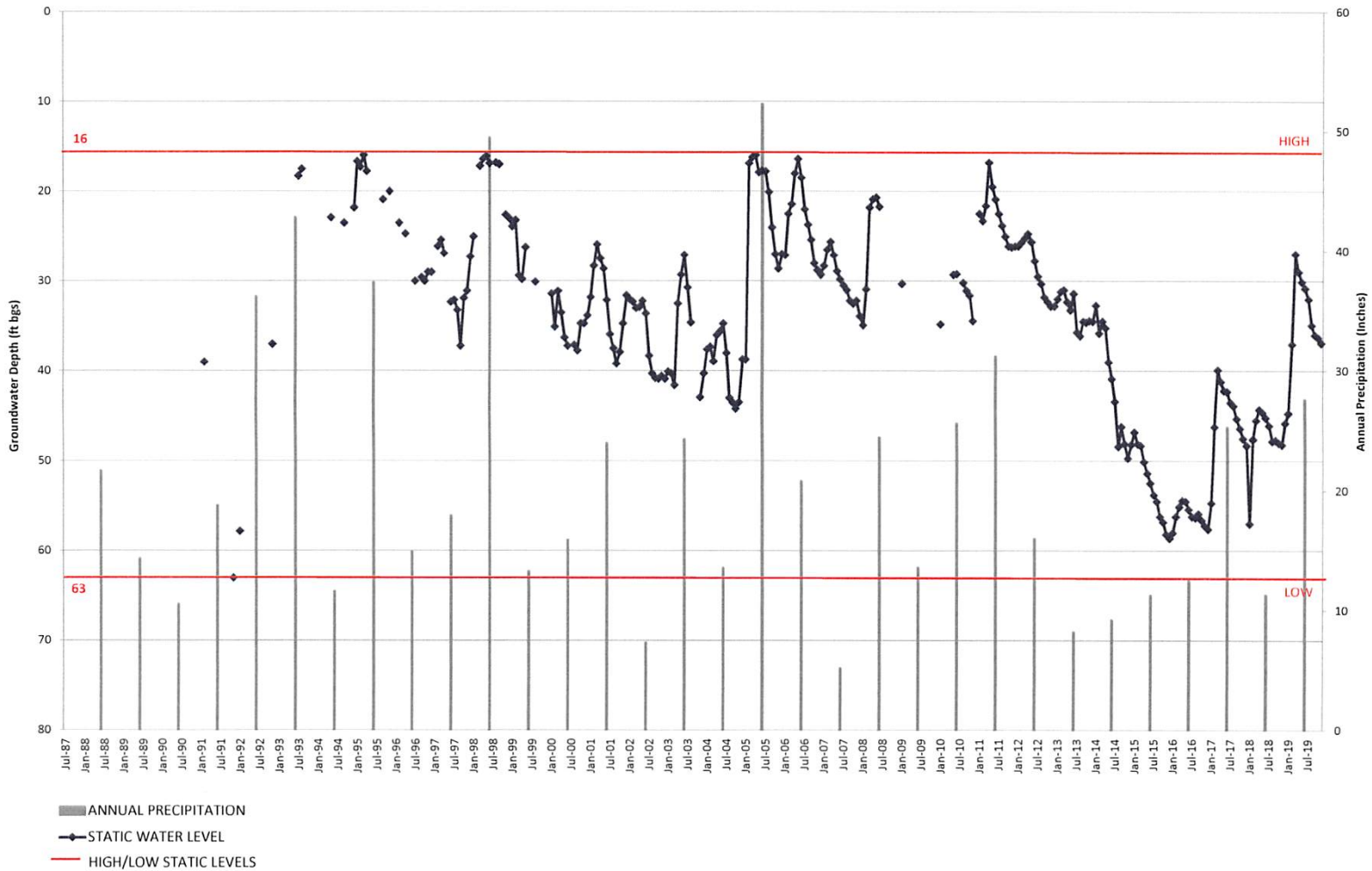
SCV WATER WELL 206
 STATIC WATER LEVEL VS PRECIPITATION



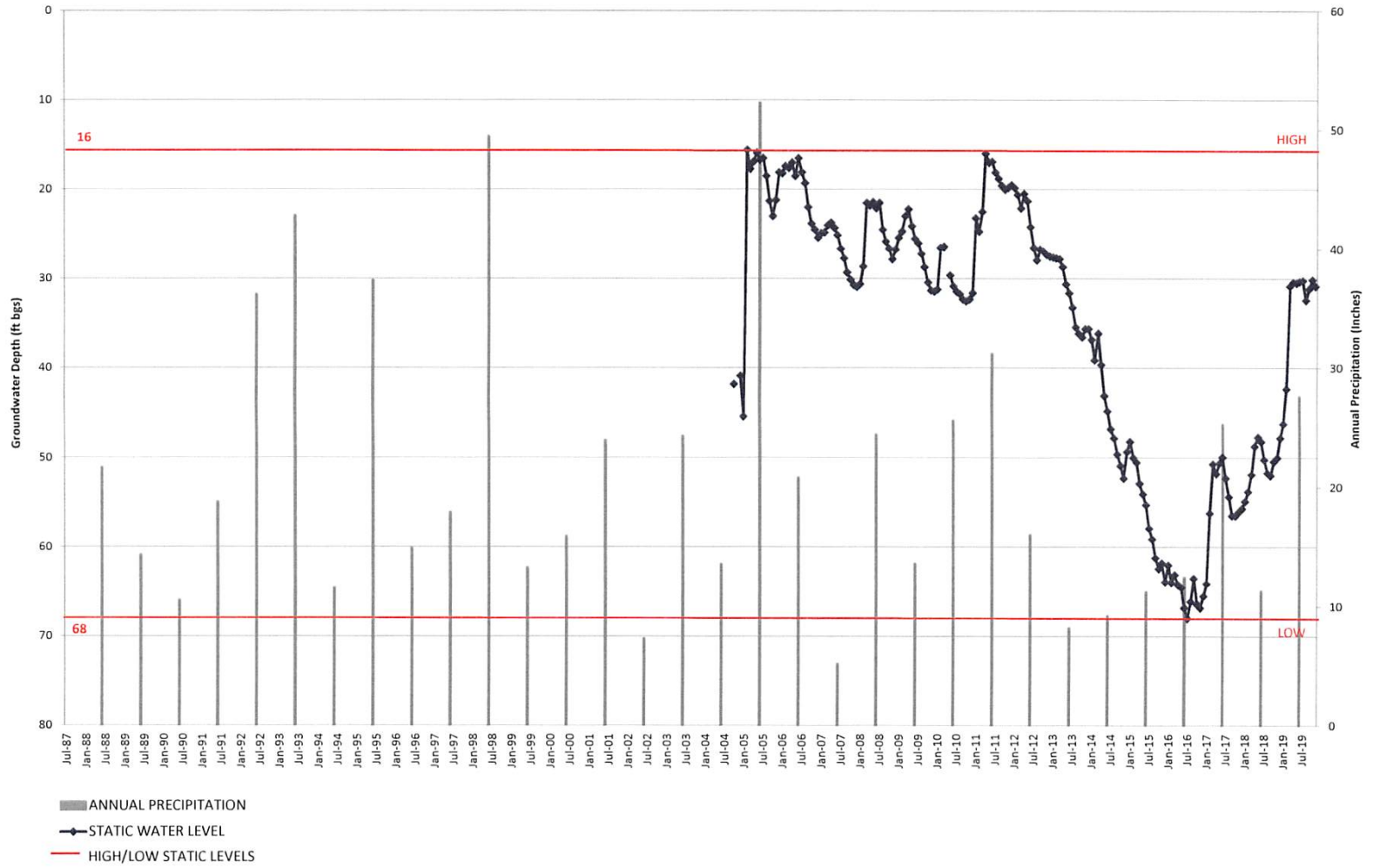
SCV WATER WELL 160
 STATIC WATER LEVEL VS PRECIPITATION



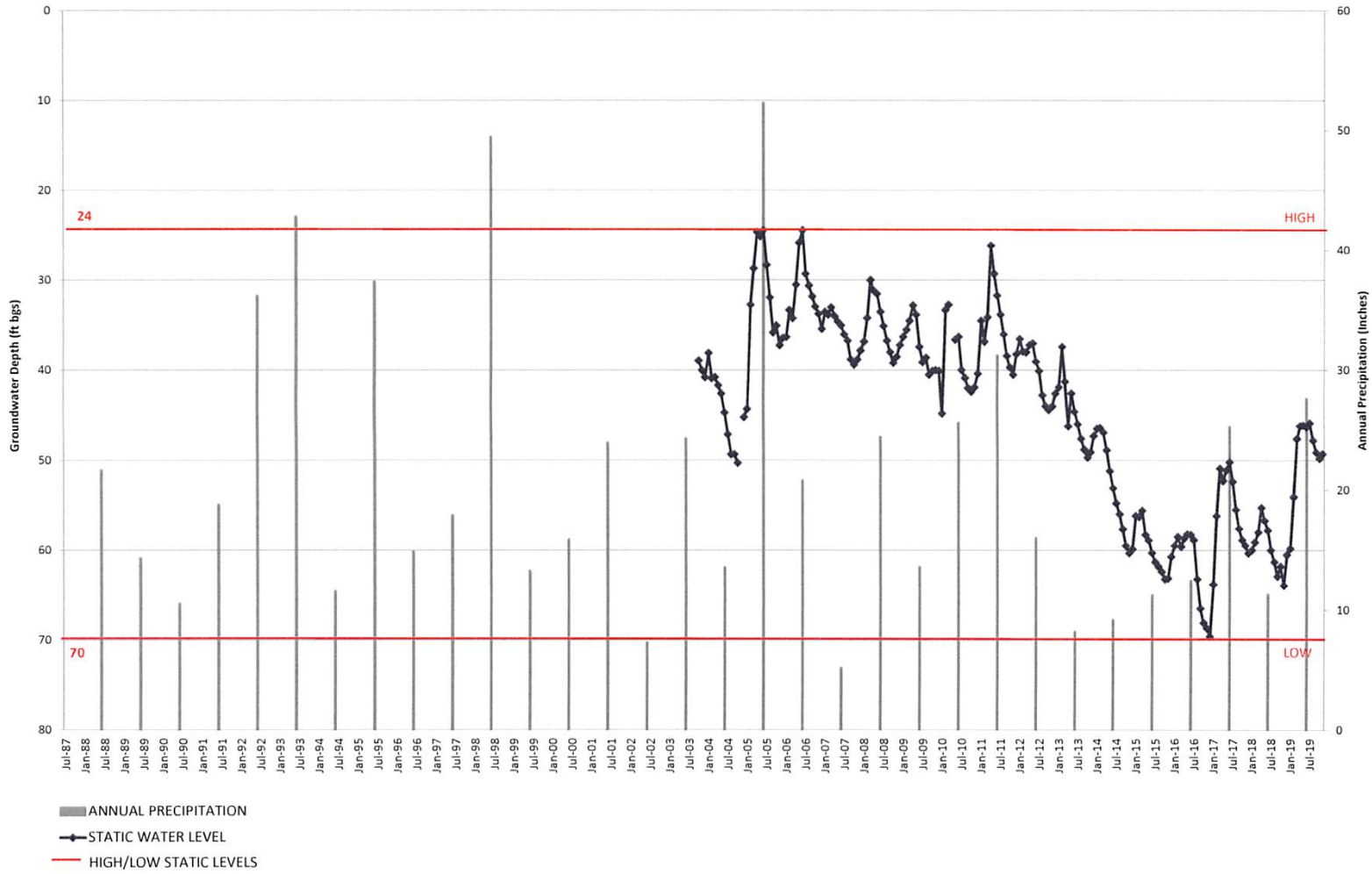
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 STATIC WATER LEVEL VS PRECIPITATION



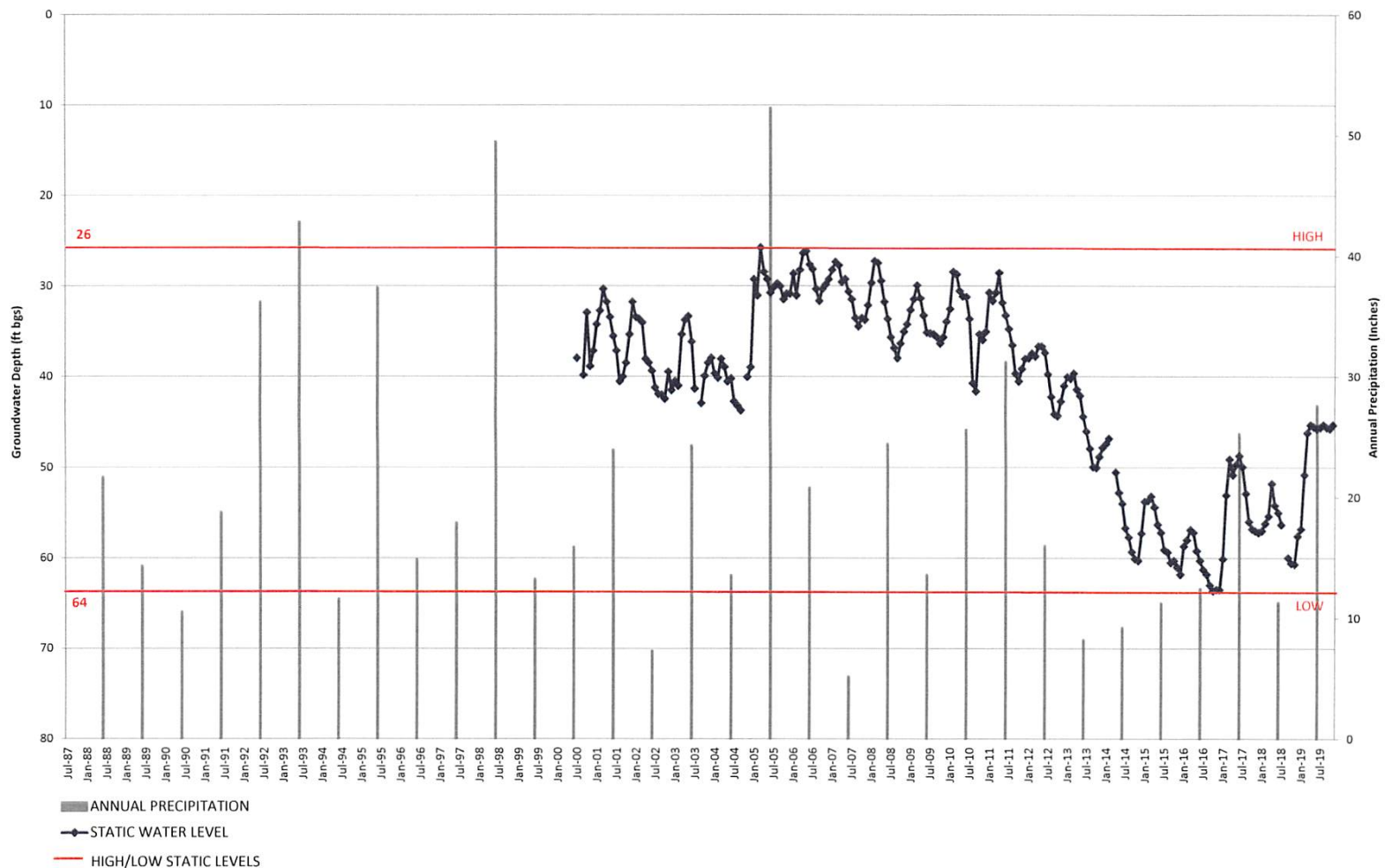
SCV WATER WELL W11
 STATIC WATER LEVEL PRECIPITATION



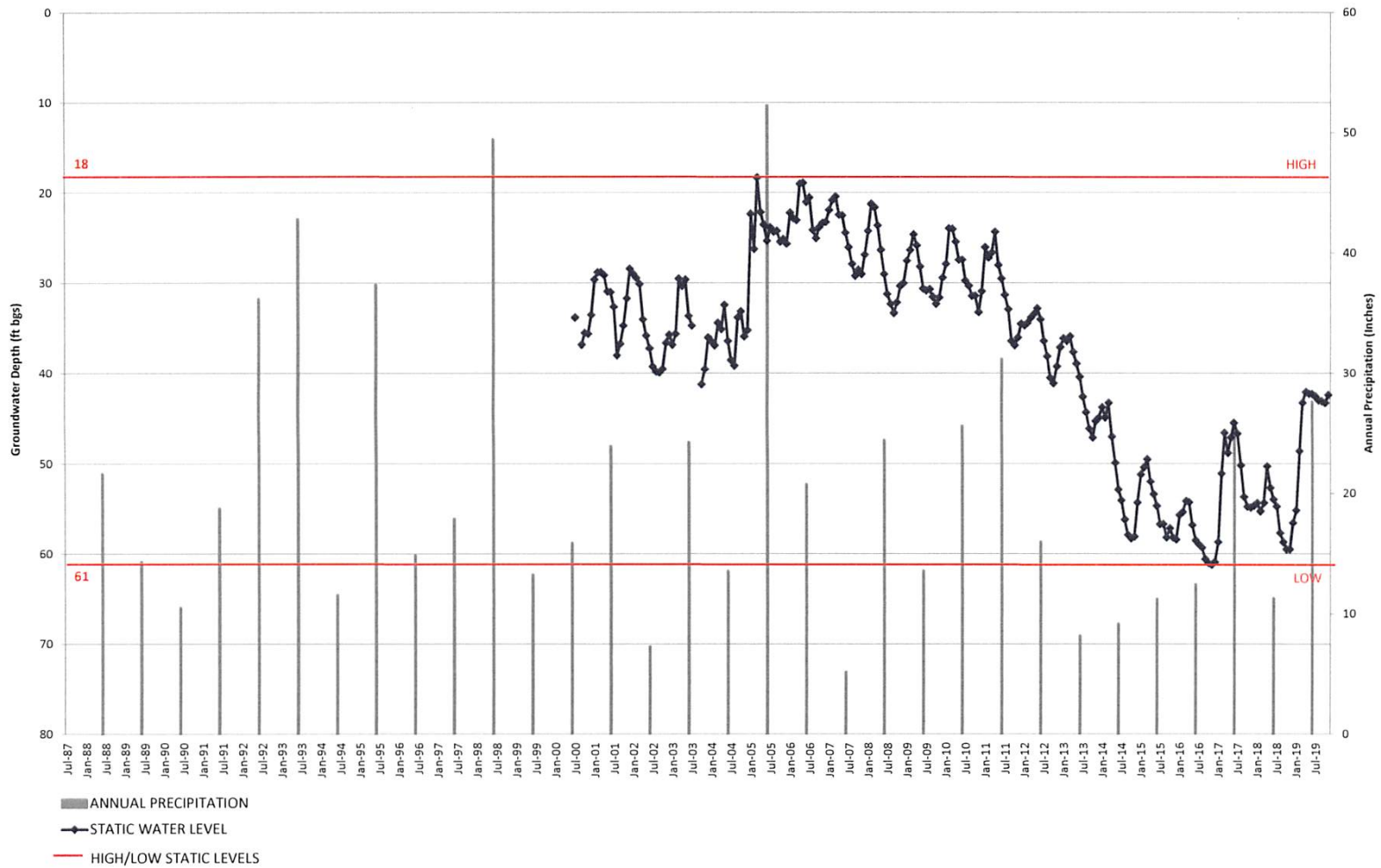
SCV WATER WELL W10
STATIC WATER LEVEL VS PRECIPITATION



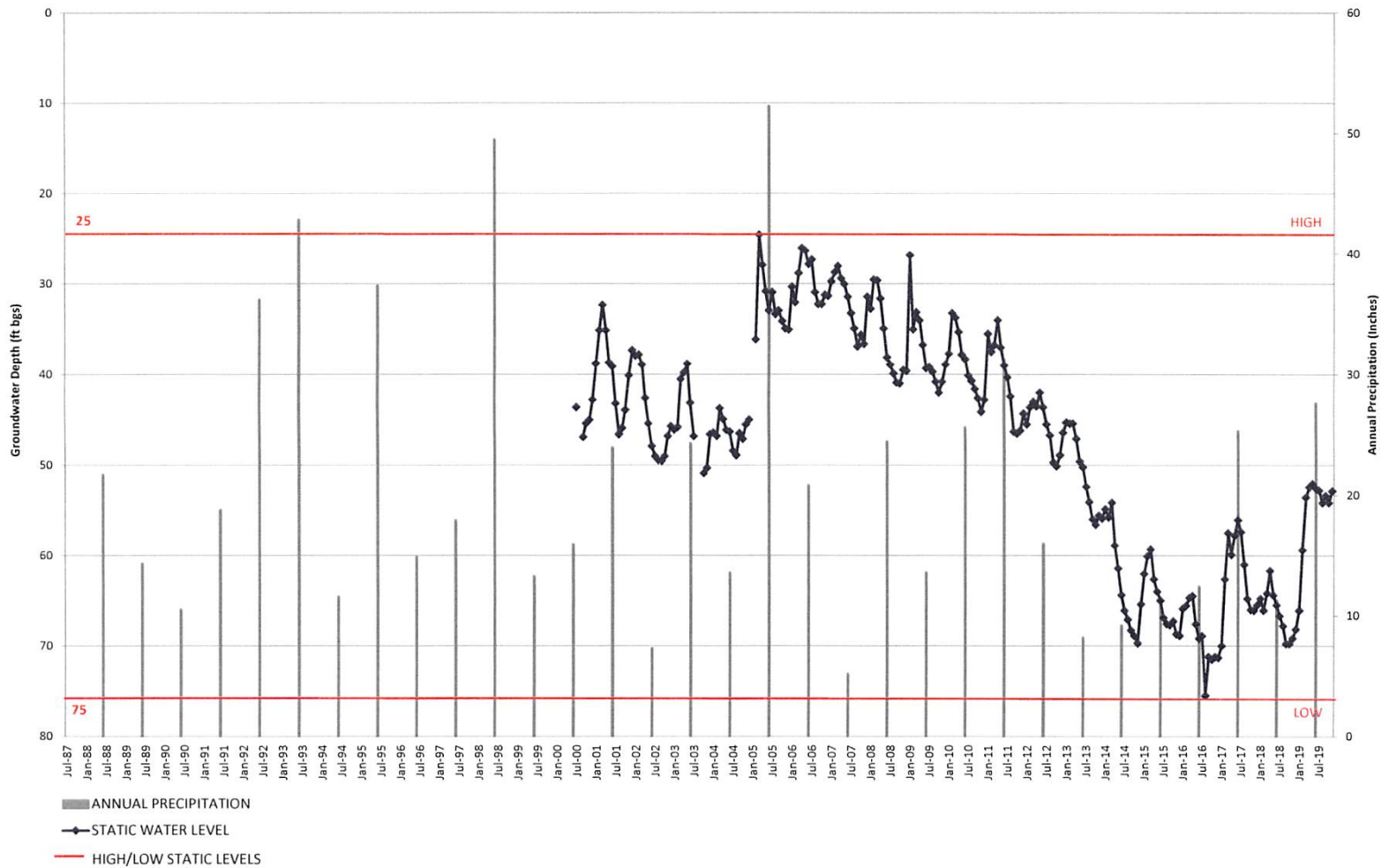
SCV WATER WELL S6
 STATIC WATER LEVEL VS PRECIPITATION



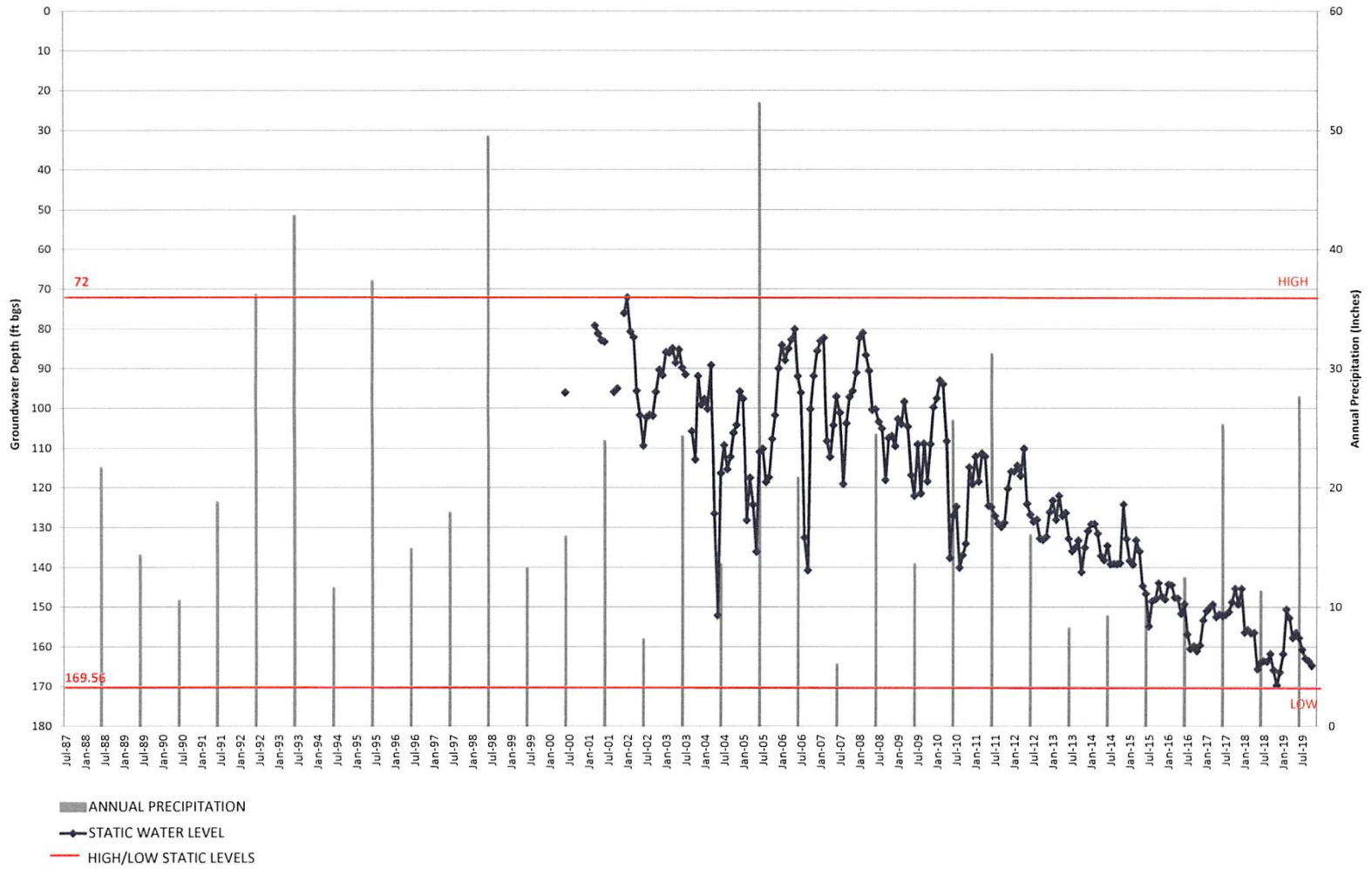
SCV WATER WELL S7
 STATIC WATER LEVEL VS PRECIPITATION



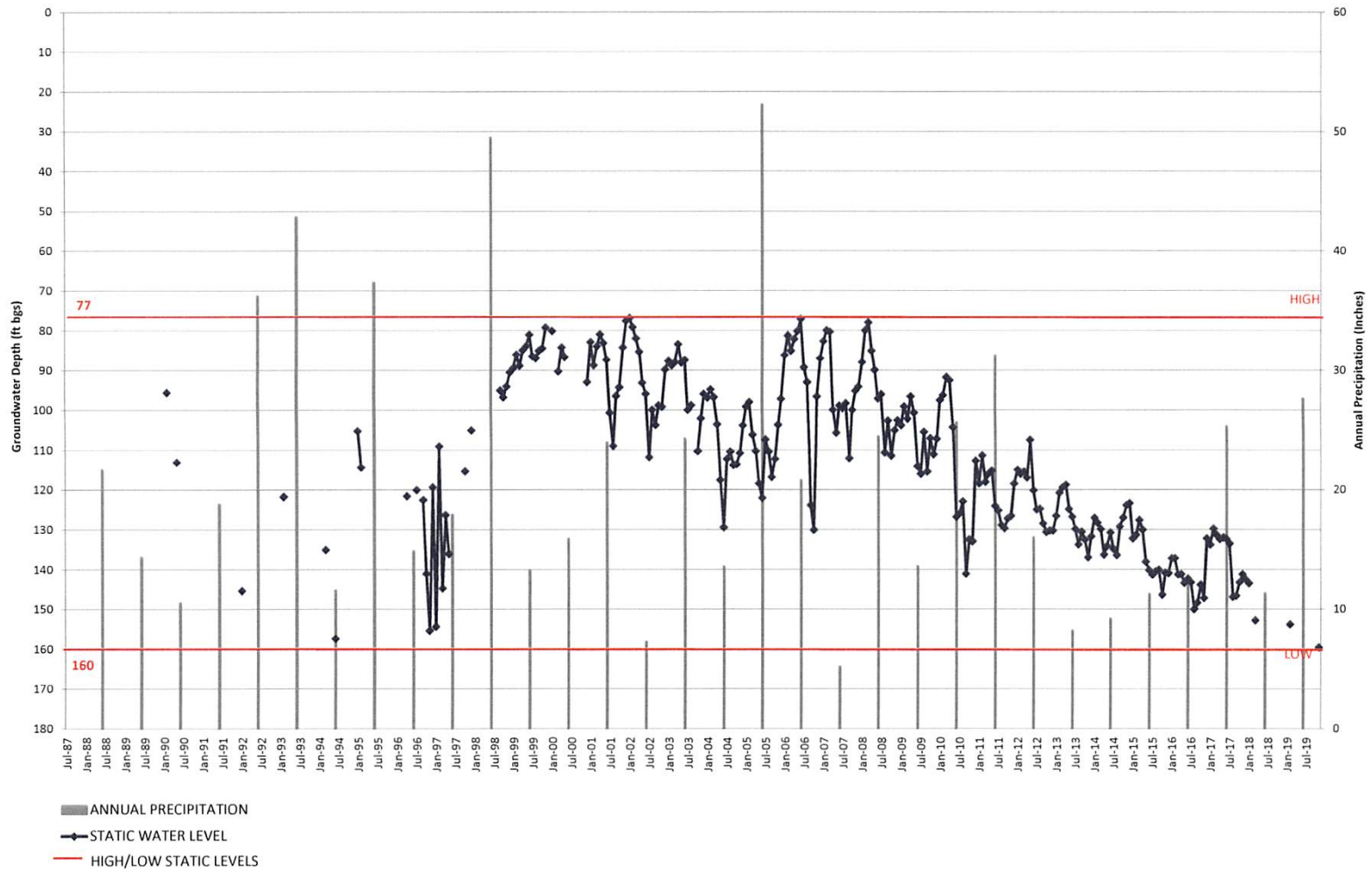
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 STATIC WATER LEVEL VS PRECIPITATION



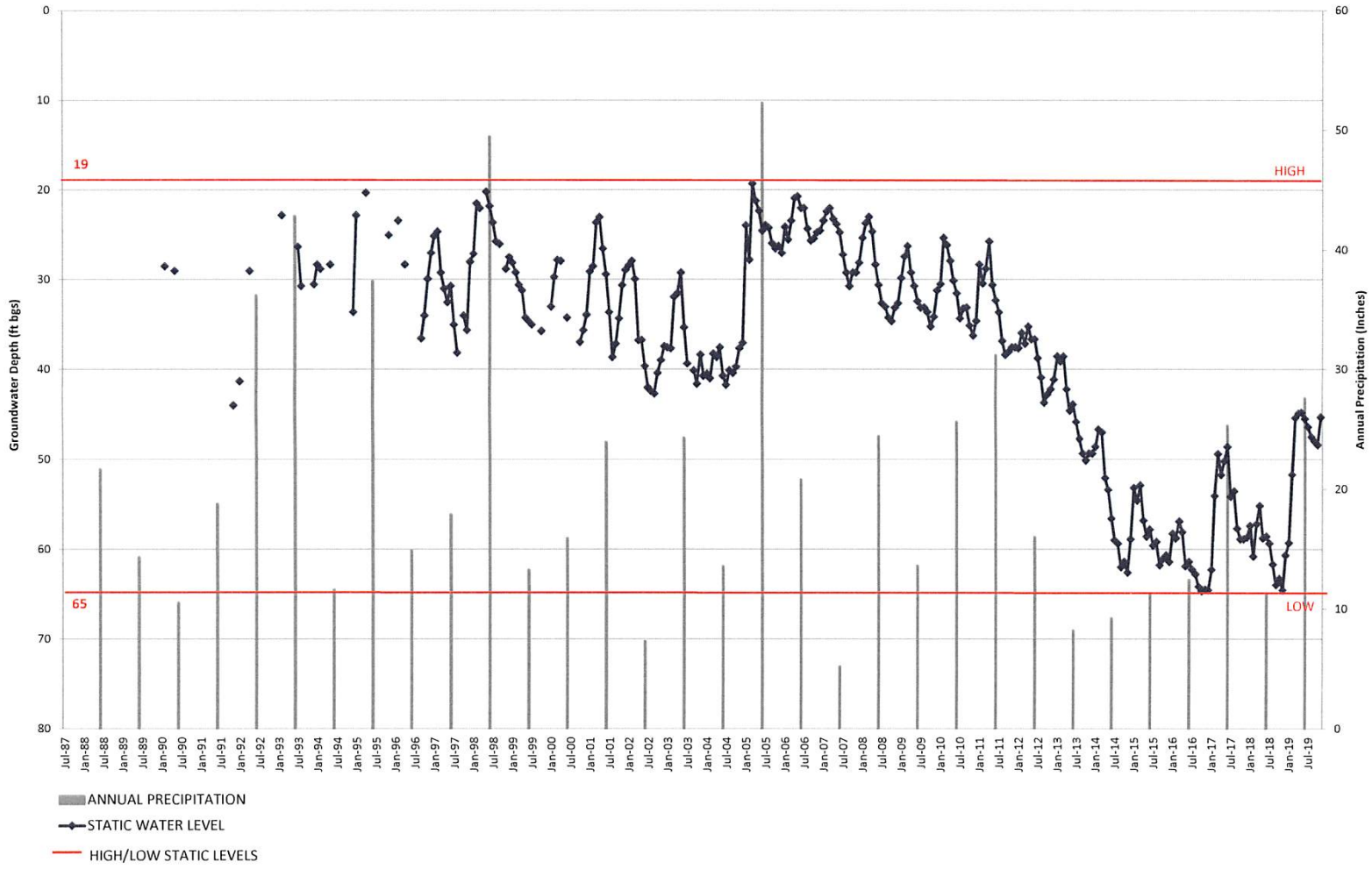
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 STATIC WATER LEVEL VS PRECIPITATION



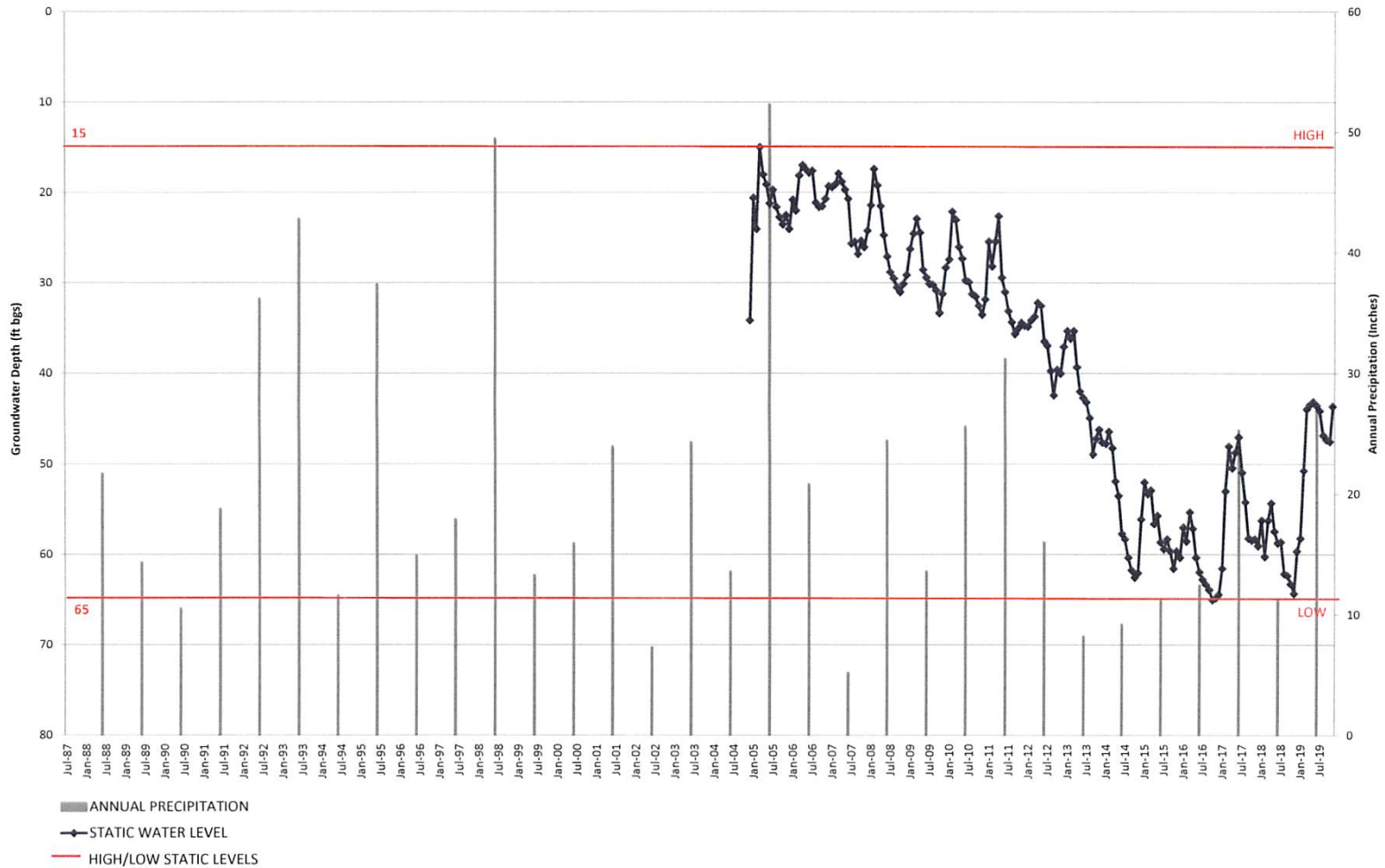
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 STATIC WATER LEVEL VS PRECIPITATION



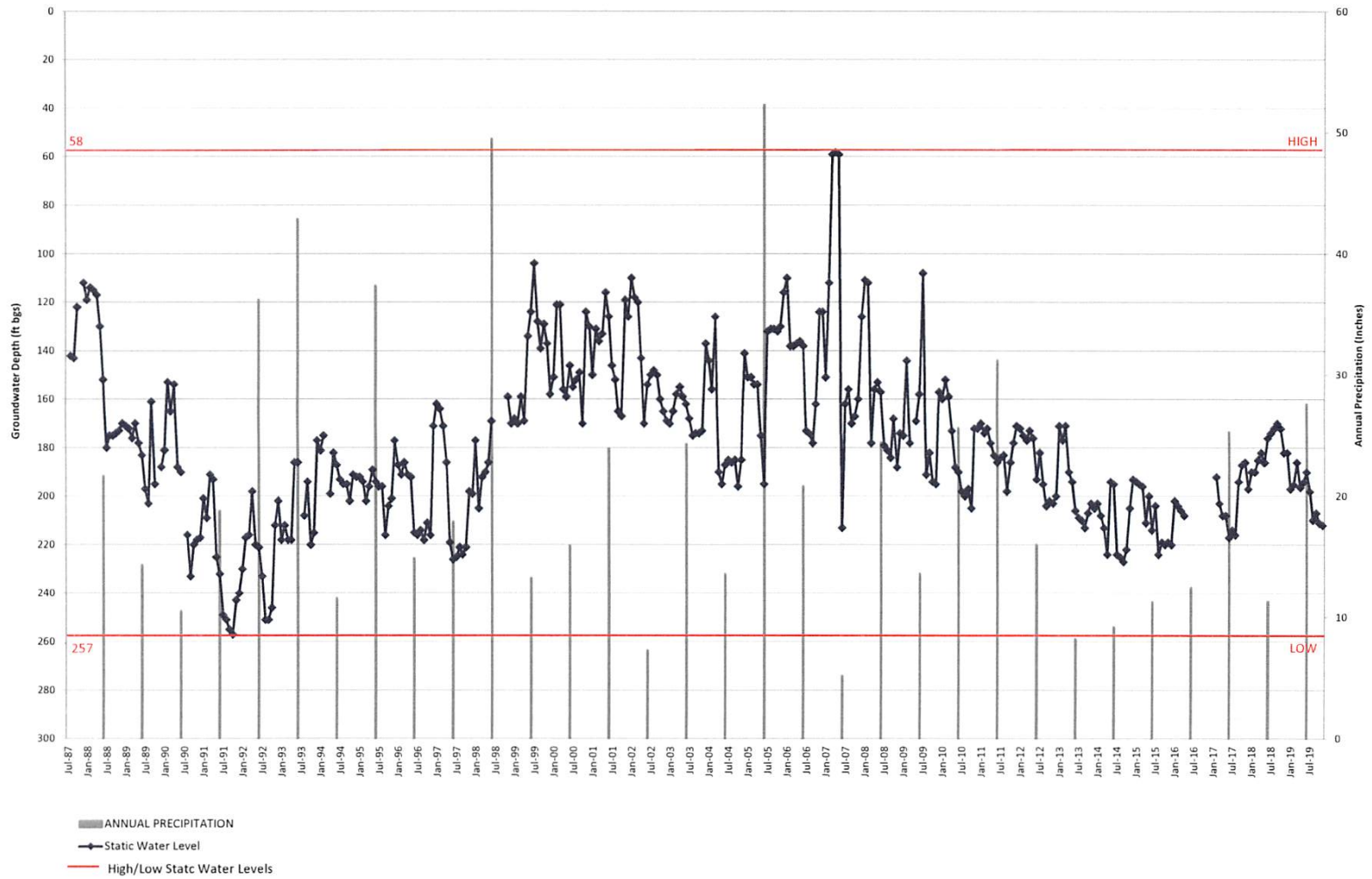
SCV WATER WELL N
 STATIC WATER LEVEL VS PRECIPITATION



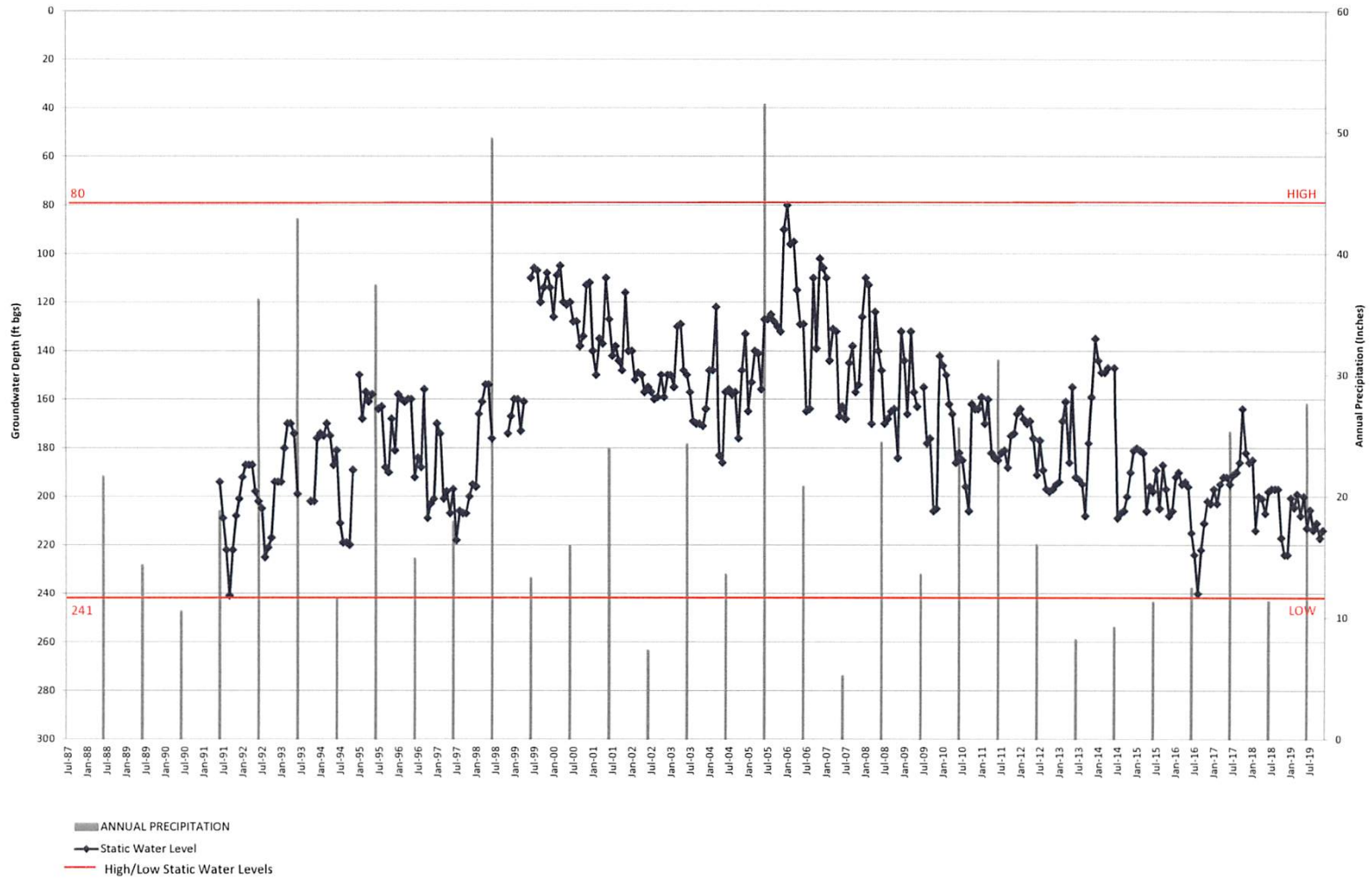
SCV WATER WELL N7
 STATIC WATER LEVEL VS PRECIPITATION



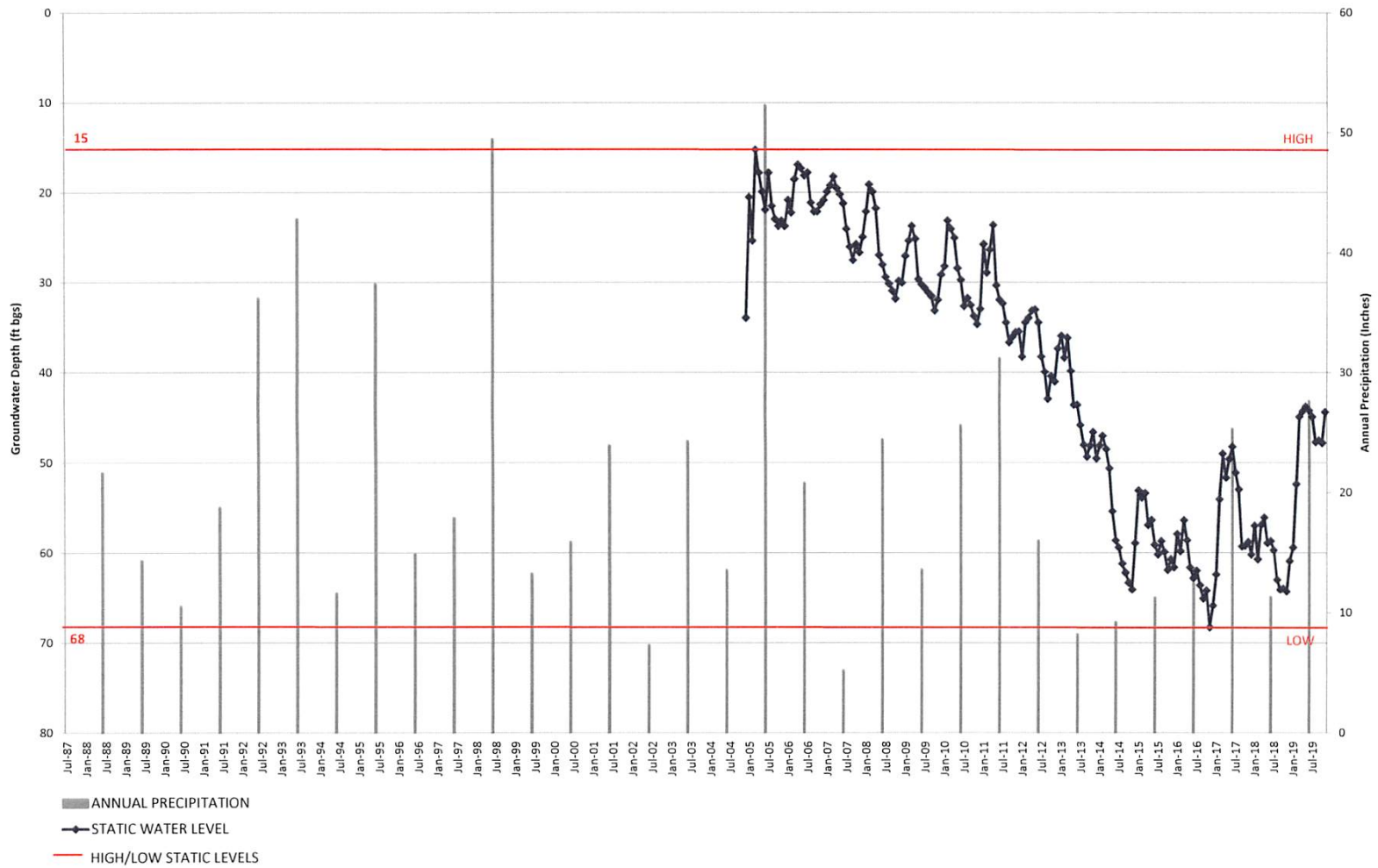
SCV WATER WELL N12
STATIC WATER LEVEL VS PRECIPITATION



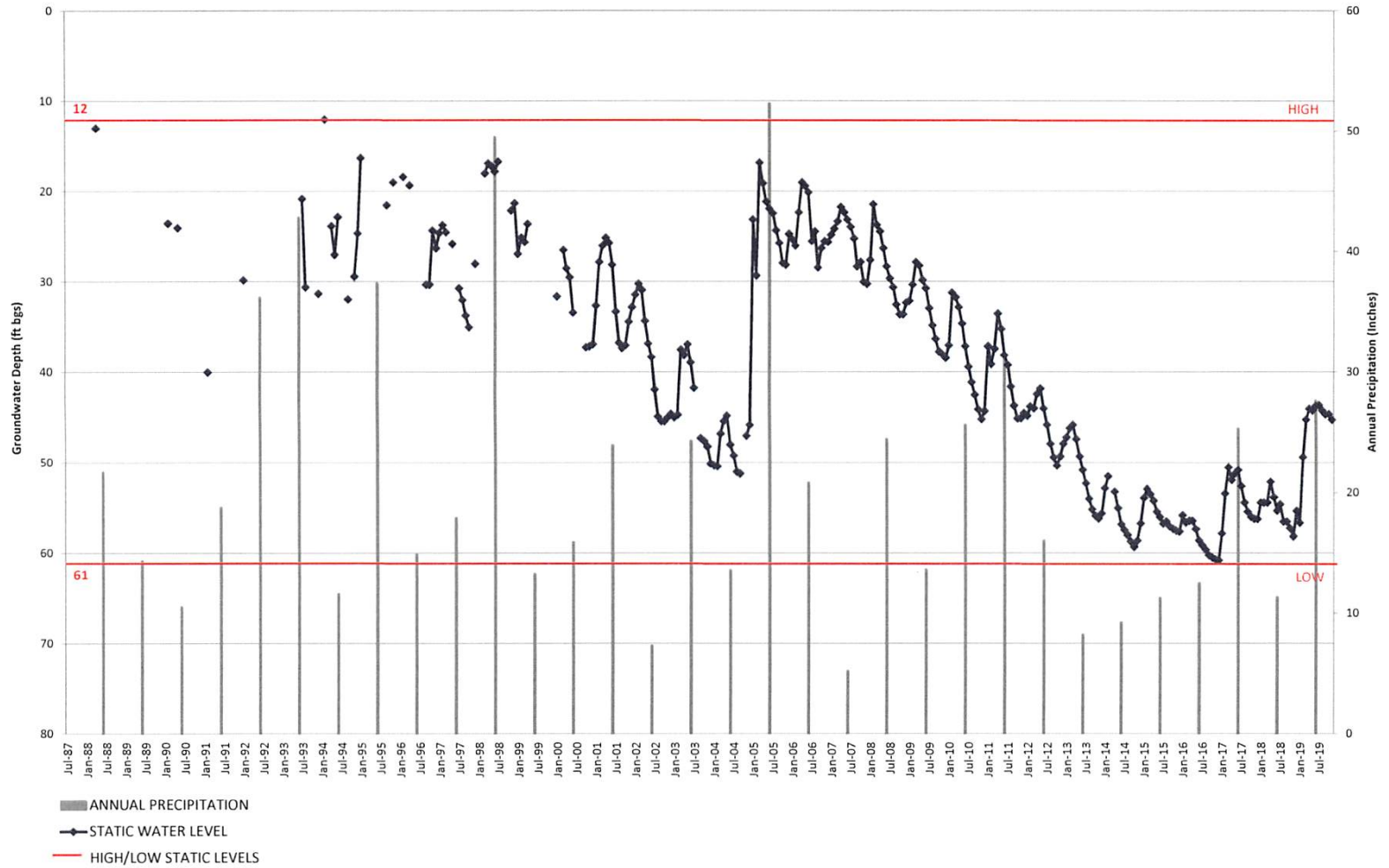
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STATIC WATER LEVEL VS PRECIPITATION



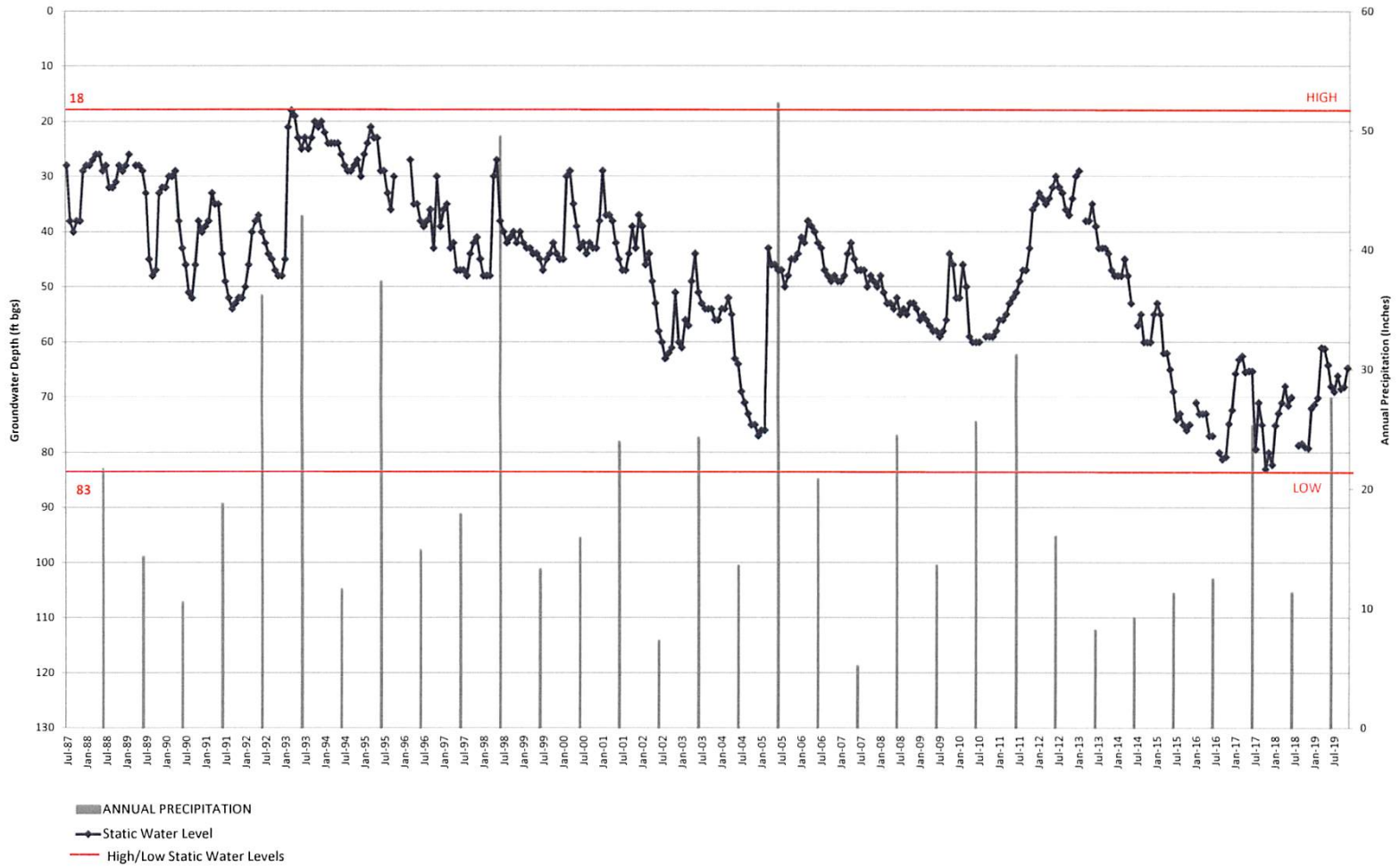
SCV WATER WELL N8
 STATIC WATER LEVEL VS PRECIPITATION



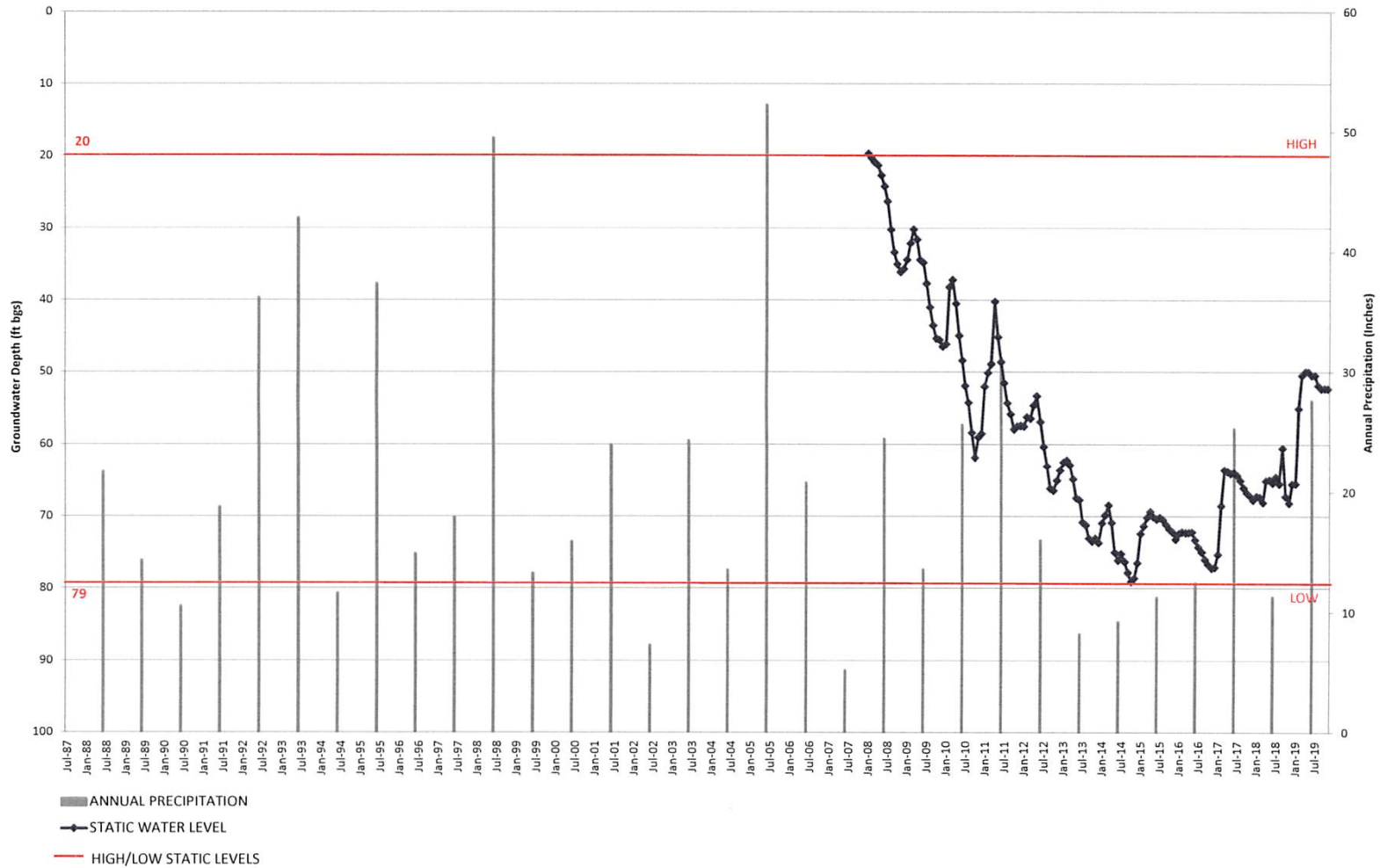
SCV WATER WELL Q2
STATIC WATER LEVEL VS PRECIPITATION



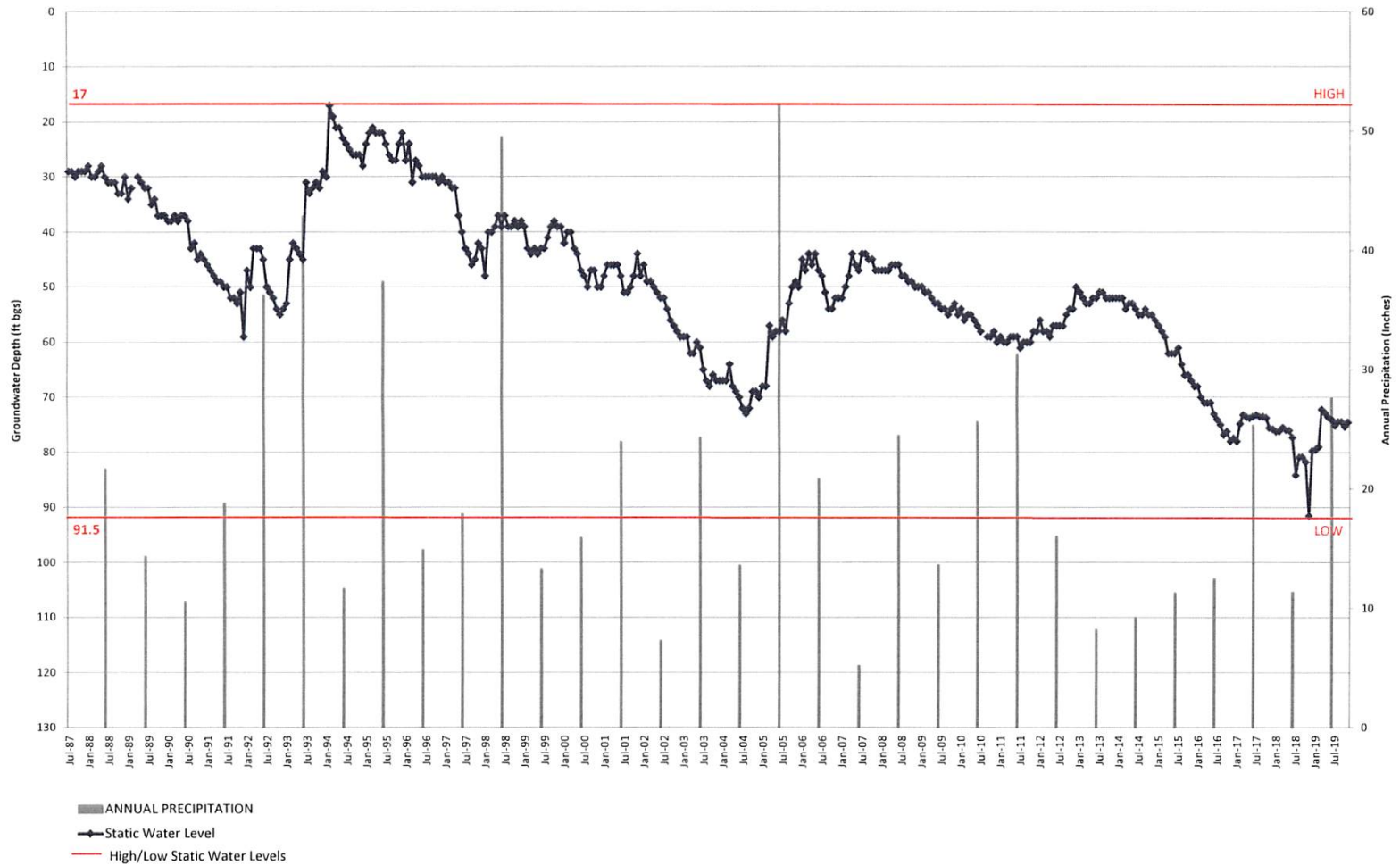
SCV WATER WELL GUIDA #14
 STATIC WATER LEVEL VS PRECIPITATION



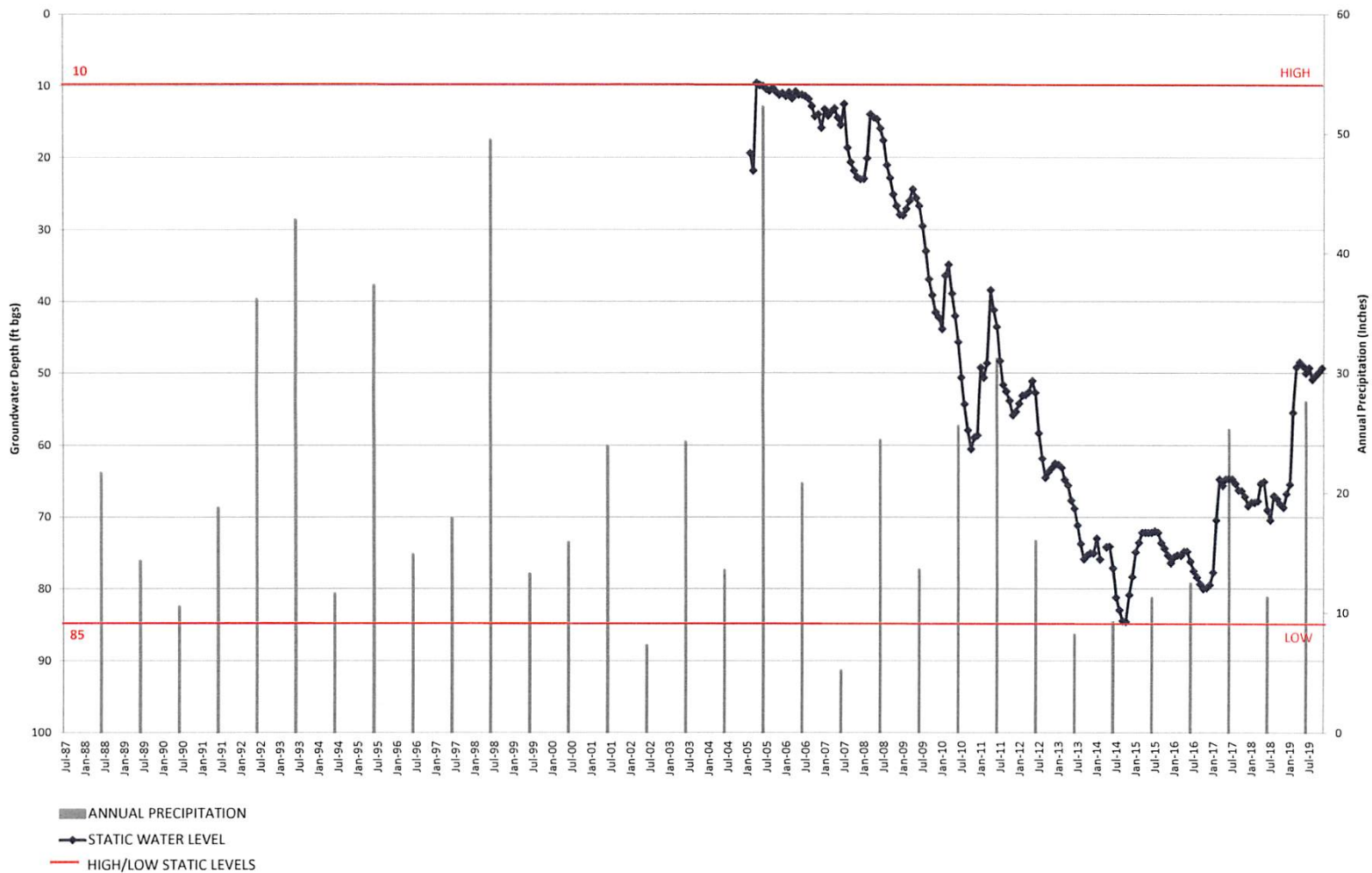
SCV WATER WELL T7
 STATIC WATER LEVEL VS PRECIPITATION



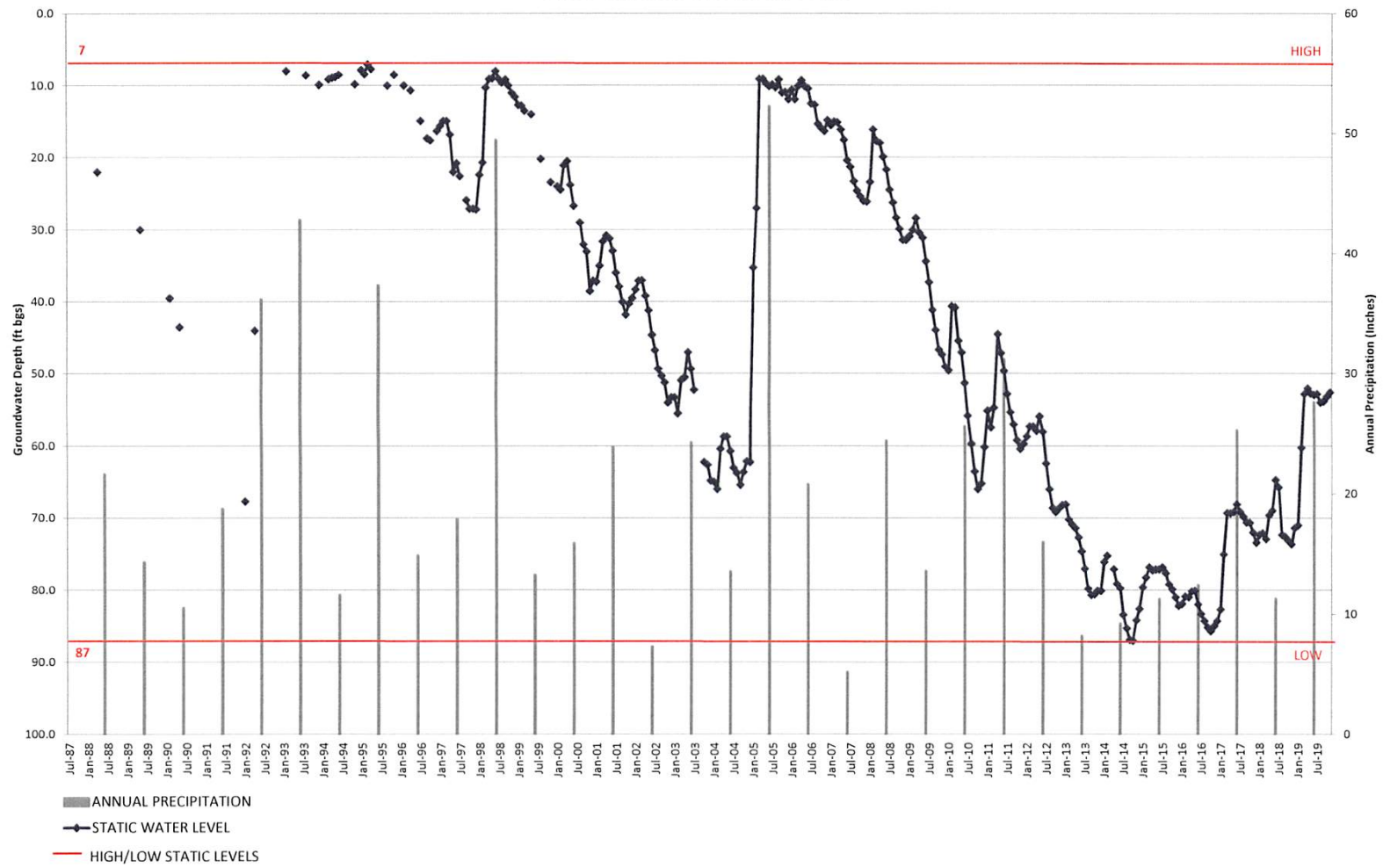
SCV WATER WELL CLARK #15
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL U6
 STATIC WATER LEVEL VS PRECIPITATION



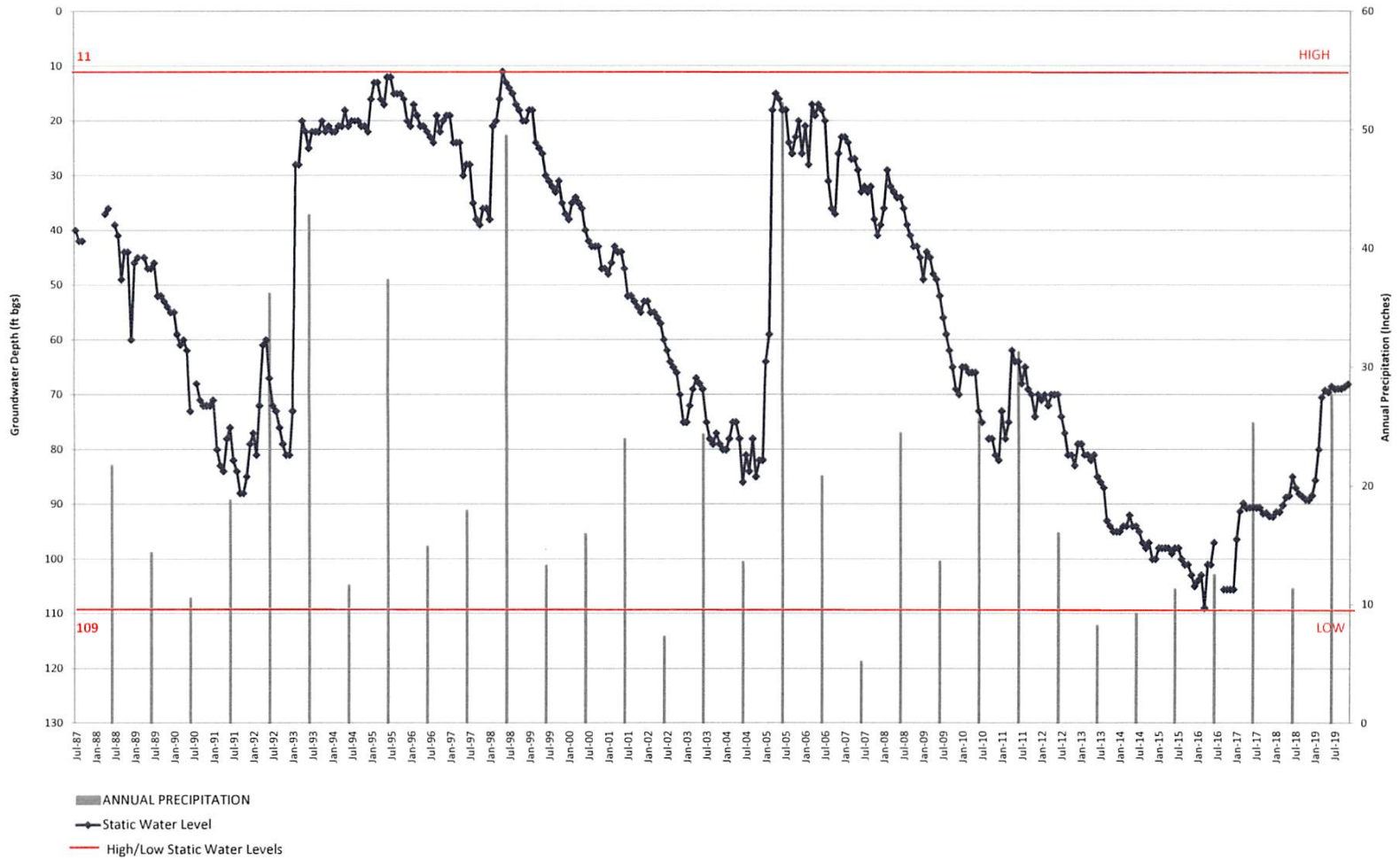
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 STATIC WATER LEVEL VS PRECIPITATION



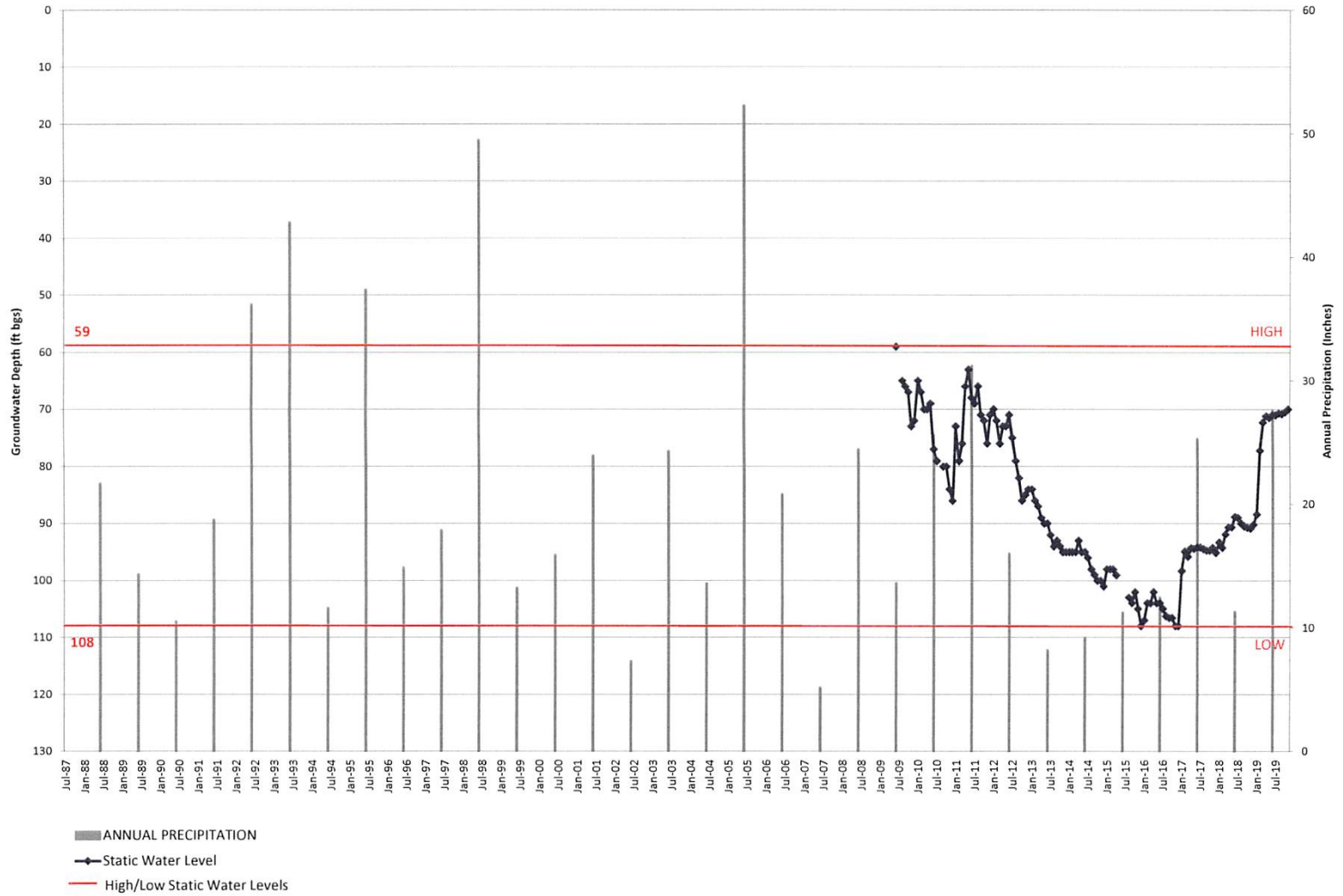
SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL HONBY #12
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL NORTH OAKS CENTRAL #8
 STATIC WATER LEVEL VS. PRECIPITATION



SCV WATER WELL NORTH OAKS WEST #9
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL SIERRA #6
 STATIC WATER LEVEL VS PRECIPITATION



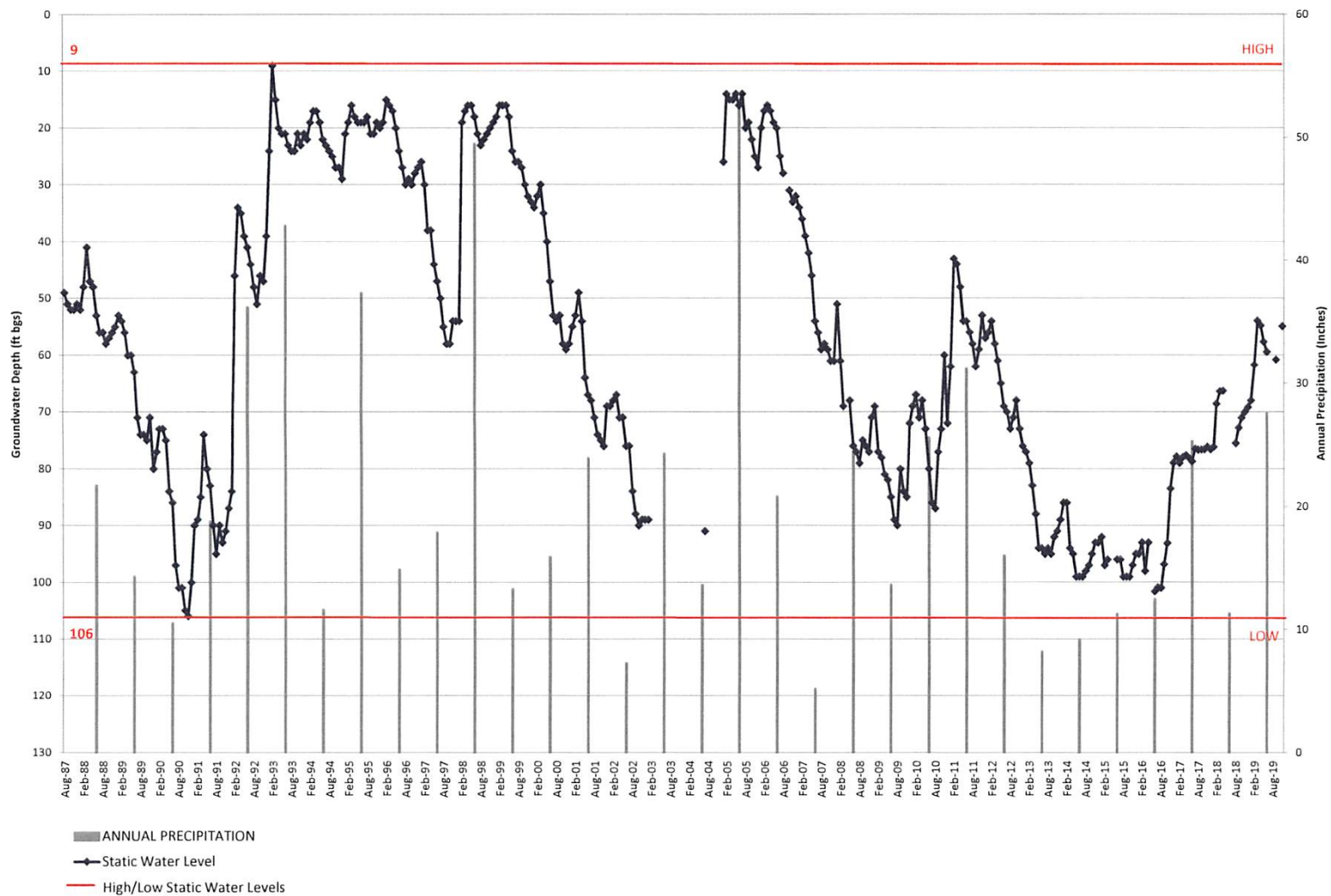
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 STATIC WATER LEVEL VS PRECIPITATION



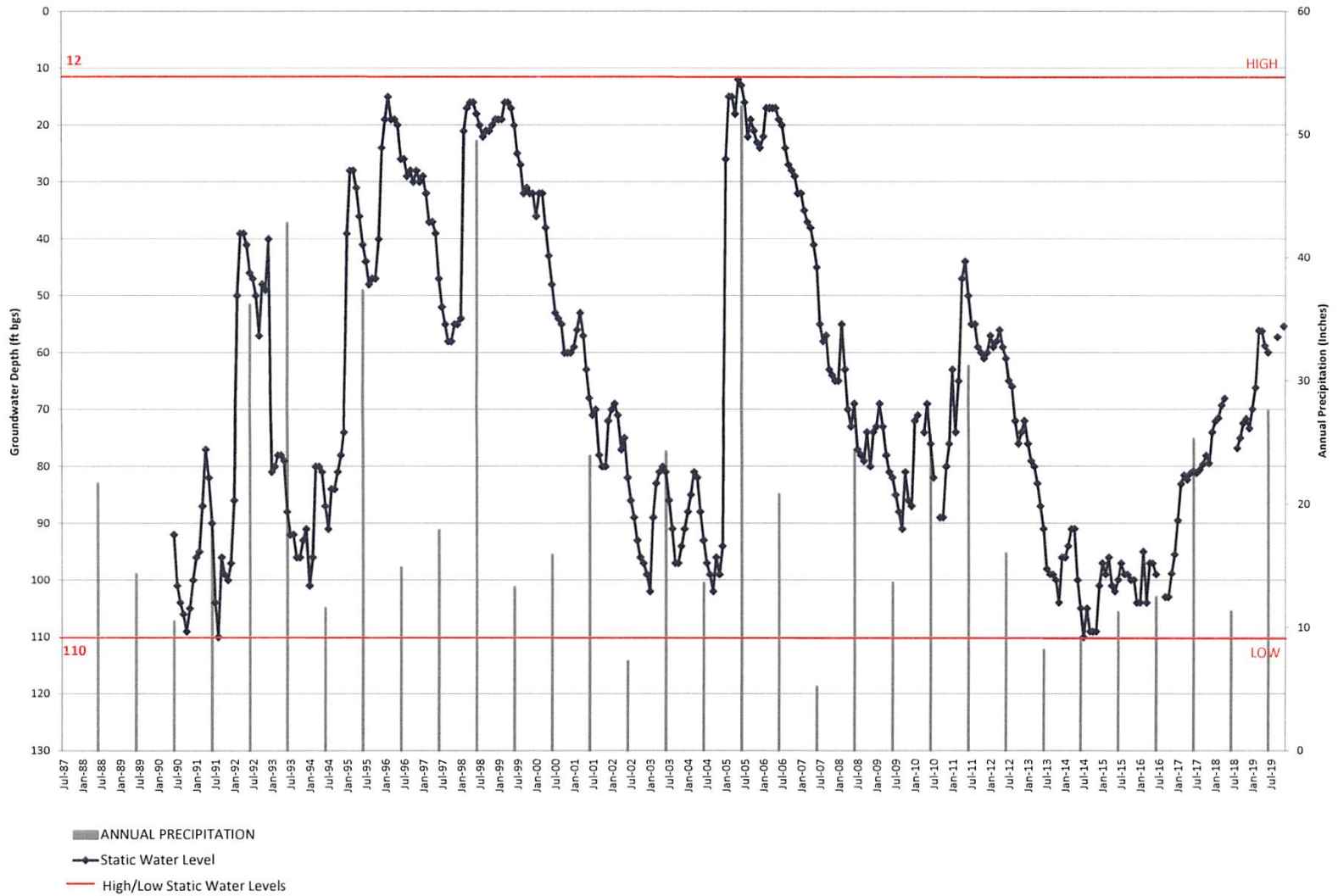
SCV WATER WELL MITCHELL #5B
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL SAND CANYON #3
STATIC WATER LEVEL VS PRECIPITATION



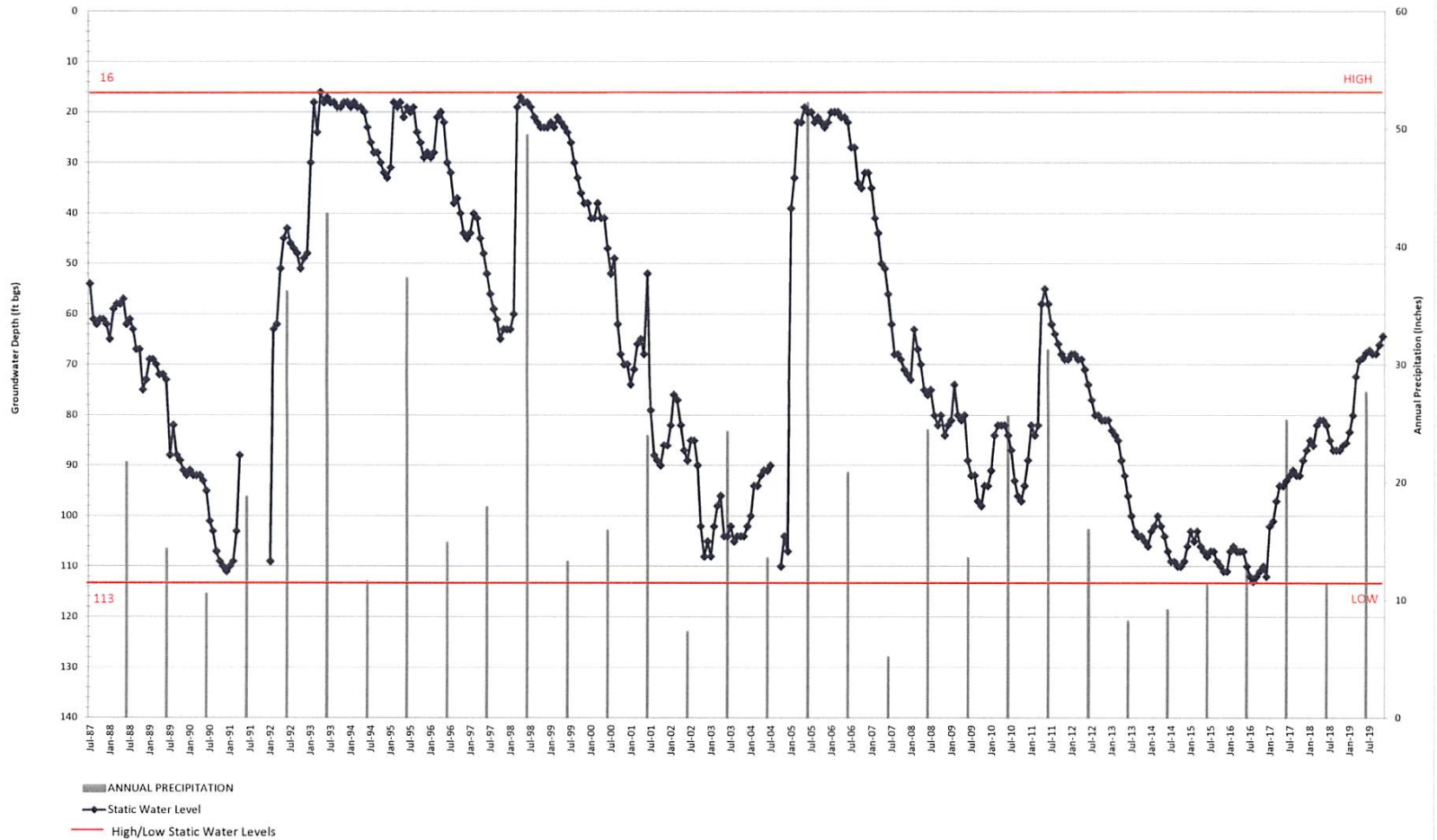
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL VS PRECIPITATION



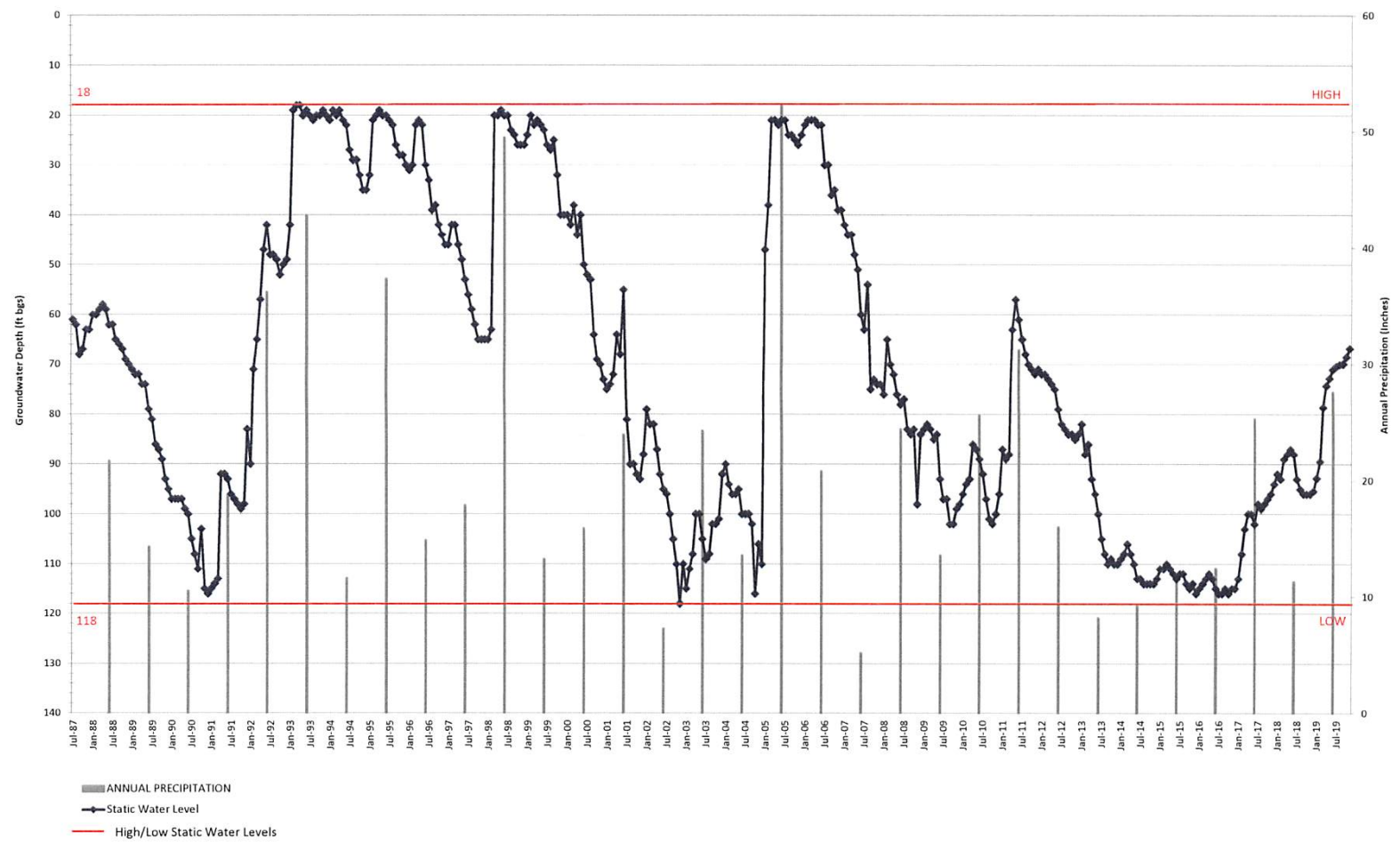
SCV WATER WELL LOST CANYON #2
 STATIC WATER LEVEL VS PRECIPITATION



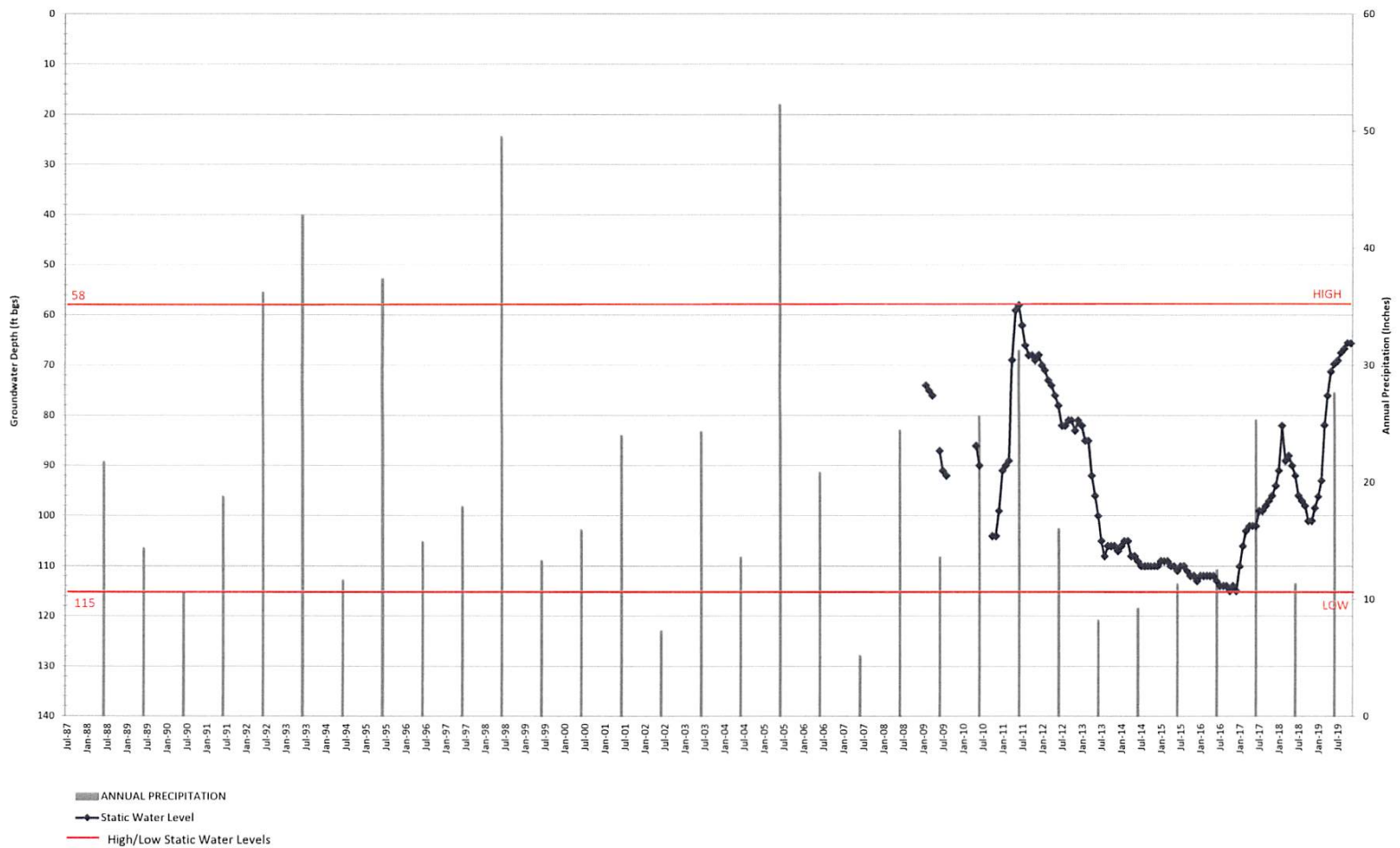
SCV WATER WELL P4
 STATIC WATER LEVEL VS PRECIPITATION



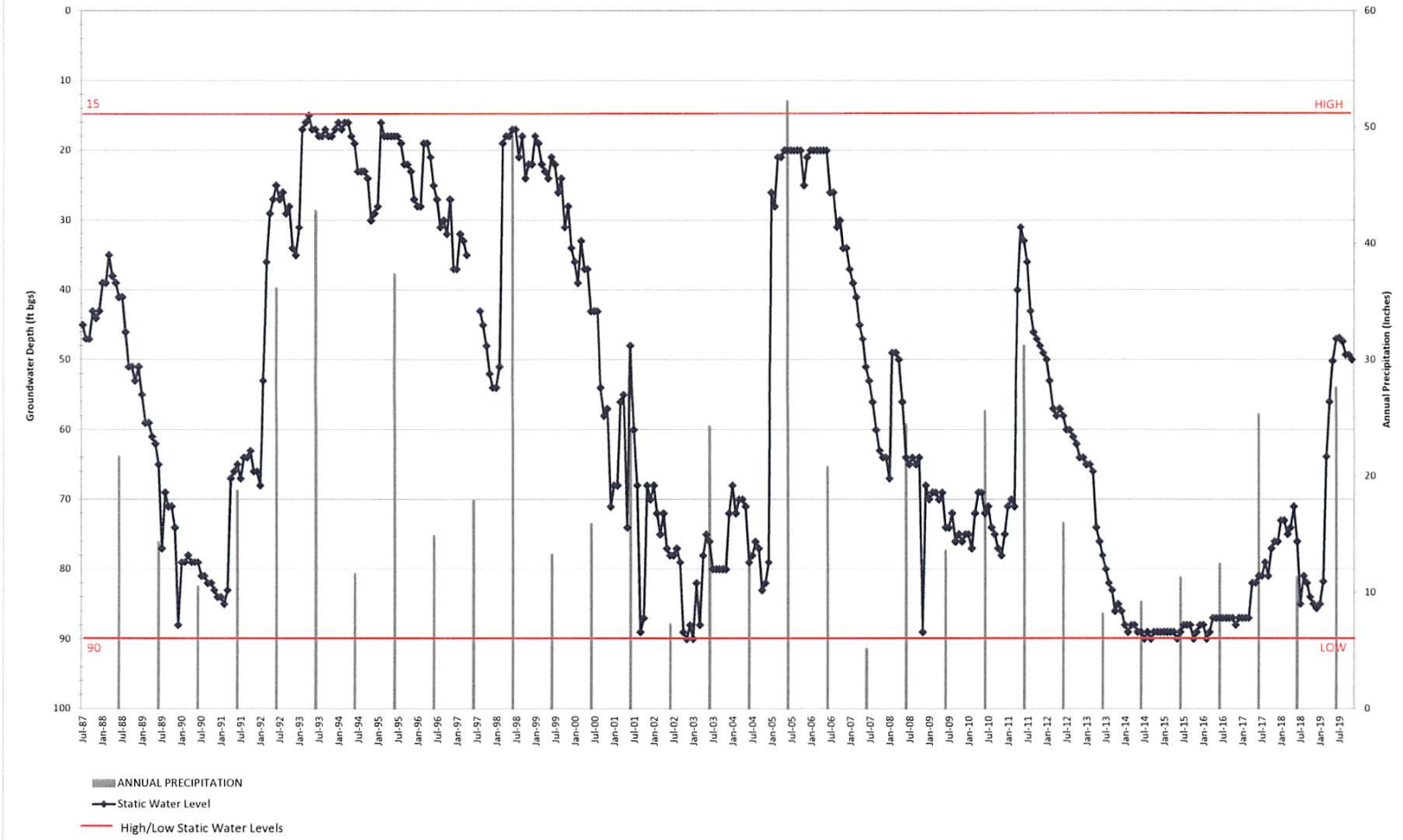
SCV WATER WELL P3
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL P5
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL P1
 STATIC WATER LEVEL VS PRECIPITATION



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Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Status Report
As of December 15, 2019

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
Well E-17 and Water Improvements	Staats Construction, Padilla Electric, and General Pump	\$571,734	\$0	0%	\$571,734	January 31, 2020	98%	Start-up will take place during January 2020.
Magic Mountain Pipeline Phase 4*	FivePoint / Toro Enterprises	\$3,084,725	\$294,130.72	9.5%	\$3,378,855.72	April 1, 2020	90%	Construction is in progress.
Magic Mountain Pipeline Phase 5	FivePoint / Toro Enterprises	\$3,269,978.85	\$0	0%	\$3,269,978.85	April 1, 2020	90%	Construction is in progress.
Magic Mountain Pipeline Phase 6A	FivePoint / Toro Enterprises	\$7,168,844.85	\$0	0%	\$7,168,844.85	August 5, 2020	1%	Contractor is preparing submittals for the engineer to review and approve. Mobilization is planned to begin in December 2019.
Honby Tank No. 1 – Recoat Roof Interior/Exterior and Interior Spot Repair	Olympus and Associates	\$338,848	\$28,974	8.6%	\$367,822	November 15, 2019	100%	Construction is complete. Tank is back in service.

*As of November 30, 2019, expenditures for Kennedy/Jenks Consultants' inspection services work authorization are \$379,627.73 (98%) of the Board authorized amount of \$386,200

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**Engineering and Operations Committee
Planning Calendar
FY 2019/20**

**ITEM NO.
6**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 11 Comm	Aug 1 Comm	Aug 6 Board	Sep 3 Board	Sep 5 Comm	Oct 1 Board	Oct 10 Comm	Oct 15 Board	Nov 5 Board	Nov 7 Comm	Dec 9 Comm	Dec 17 Board	Jan 7 Board	Jan 9 Comm	Feb 4 Board	Feb 6 Comm	Mar 3 Board	Mar 5 Comm	Mar 17 Board	Apr 2 Comm	Apr 7 Board	May 11 Comm	May 19 Board	Jun 2 Board	Jun 4 Comm	Jul 7 Board
1	Monthly Committee Planning Calendar	None	C	C			C		C			C	C			P		P		P		P		P			P	
2	CIP Construction Status Report	None	C	C			C		C			C	C			P		P		P		P		P			P	
3	Monthly Operations and Production Report	None	C	C			C		C			C	C			P		P		P		P		P			P	
4	Third Party Funded Agreements Quarterly Report	None		C								C						P						P				
5	Quarterly Safety Program Presentation	Yes 15 min		C								C						P						P				
6	Annual Safety Program Update (FY 18-19)	Yes 15 min				C																						
7	Recommend Approval of New Golden Triangle Modular Lease	None	C		C																							
8	Tour of Earl Schmidt Filtration Plant	None					C																					
9	Recommend Approval of the Purchase of a Chlorine Scrubber System for the Rio Vista Water Treatment Plant	None					C	C																				
10	Recommend Approval for an Agreement Amendment to The Newhall Land and Farming Company, LLC, for the Magic Mountain Water Pipeline Installation Agreement	None					C	C																				
11	Approve Bidding and Purchasing of Treatment Vessels and a Final Design Work Authorization for Kennedy Jenks Consultants for the N Wells PFAS Treatment	None						C																				
12	Approve Bidding and Purchasing of Treatment Vessels and a Final Design Work Authorization for Kennedy Jenks Consultants for Q2 Well Perchlorate Treatment	None						C																				
13	Approve Receiving and Filing the Public Notification of PFOS and PFOA Notification Level Exceedances	None						C																				
14	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 6A	Yes 10 min							C	C																		
15	Recommend Approval to Purchase a Backhoe-Replacement Unit No. 15	None							C		C																	
16	Presentation on Distribution System Interconnections	Yes										C	C															
17	Conference with Real Property Negotiators (Section 54956.8) Castaic Tank 1A Cell Lease - Verizon (33030 Ridge Route Road, Castaic, CA 91384) - CLOSED SESSION	None										C	C															
18	Approve Site Construction Budget Authorization for the N Wells PFAS Treatment and Well Q2 Perchlorate Removal Facility	Yes 10 min											C	C														

**Engineering and Operations Committee
Planning Calendar
FY 2019/20**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 11 Comm	Aug 1 Comm	Aug 6 Board	Sep 3 Board	Sep 5 Comm	Oct 1 Board	Oct 10 Comm	Oct 15 Board	Nov 5 Board	Nov 7 Comm	Dec 9 Comm	Dec 17 Board	Jan 7 Board	Jan 9 Comm	Feb 4 Board	Feb 6 Comm	Mar 3 Board	Mar 5 Comm	Mar 17 Board	Apr 2 Comm	Apr 7 Board	May 11 Comm	May 19 Board	Jun 2 Board	Jun 4 Comm	Jul 7 Board	
19	Recommend Approval of Resolution Awarding Construction Contract for West Ranch Recycled Water Main Extension (Phase 2D) Project	Yes 10 min														P	P												
20	Recommend Approval of Resolution Awarding Construction Contract for Vista Canyon Recycled Water Main Extension (Phase 2B) Project	Yes 10 min														P	P												
21	Recommend Approval of Resolution Awarding Contract to TBD for SC12 Facility Construction	None																P	P										
22	Recommend Approval of a Work Authorization for Final Design of the Replacement Wells On-Site Pipeline/Infrastructure	TBD																P	P										
23	Recommend Approval of Construction Contract Funding and a Work Authorization for Replacement Wells Commerce Center Drive Pipeline	TBD																P	P										
24	Recommend Approval of Construction Contract Funding and a Work Authorization for Replacement Wells Construction	TBD																P	P										
25	Recommend Approval of a Work Authorization for Final Design of the Magic Mountain Reservoir	TBD																		P	P								
26	Recommend Approval of Resolution Awarding Construction Contract for ESFP Washwater Return and Sludge Systems Project	TBD																		P	P								
27	Review FY 2020/21 Major Capital Projects	TBD																			P								
28	Recommend Approval of a Work Authorization for Final Design of the Groundwater Treatment Improvements	TBD																			P	P							
29	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 6B	TBD																			P	P							
30	Recommend Approval of Resolution Awarding Construction Contract to TBD to Recoat Tank Exteriors at Princess Tanks Nos. 1 and 2	TBD																			P	P							
31	Recommend Approval of Resolution Authorizing SCV Water to Execute Consolidation and Water Service Agreement with State Water Resources Control Board and Los Angeles Residential Community	TBD																				P			P				

**Engineering and Operations Committee
Planning Calendar
FY 2019/20**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 11 Comm	Aug 1 Comm	Aug 6 Board	Sep 3 Board	Sep 5 Comm	Oct 1 Board	Oct 10 Comm	Oct 15 Board	Nov 5 Board	Nov 7 Comm	Dec 9 Comm	Dec 17 Board	Jan 7 Board	Jan 9 Comm	Feb 4 Board	Feb 6 Comm	Mar 3 Board	Mar 5 Comm	Mar 17 Board	Apr 2 Comm	Apr 7 Board	May 11 Comm	May 19 Board	Jun 2 Board	Jun 4 Comm	Jul 7 Board
32	Recommend Approval of On-Call Engineering Services and/or Construction Management and Inspection Services	TBD																				P			P			
33	Recommend Approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD																						P		P		
34	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to the Los Angeles Residential Community	TBD																									P	P
35	Recommend Approval of Construction of a New Deane Zone Pump Station and Cost Sharing Agreement with Developer	TBD																									P	P
36	Recommend Approval of Construction of Two New 2.5 MG Deane Tank and Cost Sharing Agreement with Developer	TBD																									P	P
37	Recommend Approval of Work Authorization for Groundwater Modeling Services for Perchlorate Containment Evaluation	TBD																									P	P

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