



NOTICE AND CALL OF SPECIAL MEETING

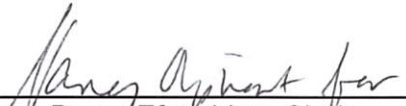
Notice is hereby given that I, Dean Efstathiou, Chair of the Engineering and Operations Committee, have called a SPECIAL MEETING of the Agency's Engineering and Operations Committee.

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

Monday, December 10, 2018 AT 5:30 P.M.

Santa Clarita Valley Water Agency
27234 Bouquet Canyon Road
Santa Clarita, California 91350
Rio Vista Water Treatment Plant
Training Room

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

Signed: 
Dean Efstathiou, Chair

Date: 11/30/18



Date: November 30, 2018

To: **Engineering and Operations Committee**
Dean Efstathiou, Chair
Tom Campbell
Ed Colley
William Cooper
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 **Monday, December 10, 2018 at 5:30 PM at Rio Vista Water Treatment Plant** located at 27234 Bouquet Canyon Road, 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 Construction Contract and Management Funding to The Newhall Land and Farming Company, LLC, and (2) a Work Authorization to Kennedy/Jenks Consultants for Inspection Services for the Magic Mountain Pipeline Phase 5 Project	3
3. *	Recommend Approval of (1) a Change Order to the Construction Contract with GSE Construction Company, Inc., (2) a Budget Increase to the Work Authorization with Vali Cooper & Associates, Inc., for Construction Management Services, and (3) a Budget Adjustment for Work Authorization No. 07-055 for Metropolitan Water District of Southern California for the Foothill Feeder Connection Project	9
4.	Quarterly Safety Presentation	
5. *	Operations and Production Report	15
6. *	Capital Improvement Projects Construction Status Report	73
7. *	Third Party Funded Agreements Quarterly Report	75

8. * Committee Planning Calendar 77
9. General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities
10. General Report on Engineering Services Section Activities
11. 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 3, 2018.



COMMITTEE MEMORANDUM

DATE: November 30, 2018

TO: Engineering and Operations Committee

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

SUBJECT: Recommend Approval of (1) a Resolution for Construction Contract and Management Funding to The Newhall Land and Farming Company, LLC, and (2) a Work Authorization to Kennedy/Jenks Consultants for Inspection Services for the Magic Mountain Pipeline Phase 5 Project

SUMMARY

The Magic Mountain Pipeline Phase 5 (Phase 5 Pipeline) project has been advertised for construction bids. Bids have been received and staff is recommending approval of construction contract and construction management funding to The Newhall Land and Farming Company, LLC (Newhall Land). Staff is also recommending approval of a work authorization to Kennedy/Jenks Consultants (K/J) for inspection services.

DISCUSSION

The Agency's Capital Improvement Program includes construction of new pipelines to extend its existing Magic Mountain Pipeline to the future Magic Mountain Reservoir, located in the Mission Village development. The pipeline extension will be constructed in three phases (Phases 4, 5, and 6) based on the Mission Village development road construction schedule. On August 1, 2018, the Agency executed the Magic Mountain Water Pipeline Installation Agreement (Agreement) with Newhall Land. Under the terms of the Agreement, Newhall Land will install the Phase 5 Pipeline as a part of the road improvements and the Agency will reimburse Newhall Land for construction costs.

The Phase 5 Pipeline is approximately 3,000 feet long and 42-inches in diameter. The pipeline will be installed within Magic Mountain Parkway beginning near the intersection of Magic Mountain Parkway and Magic Mountain Amusement Park entrance and approximately 400 feet west of the intersection of the new Magic Mountain Parkway and Commerce Center Drive. The project was advertised for construction bids by Newhall Land on November 7, 2018.

On November 26, 2018, three bids were received by Newhall Land. A summary of the bids is presented below:

Bidder	Bidder Location	Total Bid Price
Toro Enterprises Inc.	Oxnard, CA	\$3,269,978.85
Sam Hill & Sons Inc.	Ventura, CA	\$4,098,750.56
Blois Construction Inc.	Oxnard, CA	\$5,034,350.00

Newhall Land and Agency staff evaluated the submitted bids. The apparent responsive low bid is from Toro Enterprises Inc. (Toro) for a total of \$3,269,978.85. The engineer's estimate for the project is \$4,281,498. Toro is a licensed Class A contractor in the State of California and is registered with the Department of Industrial Relations.

The Agency's Purchasing Policy allows the General Manager to approve change orders up to four percent (4%) of the original contract amount, however, the Board may grant a different change order authority on a project-specific basis. Newhall Land will manage the construction contract of the Phase 5 Pipeline as part of the overall road development. Since it is anticipated that there may be a limited time for change order processing and approval, staff is recommending increasing the General Manager's Change Order Authority from four percent (4%) to ten percent (10%) of the original contract amount.

K/J is performing inspection services for the Phase 4 project and staff is recommending that K/J provide inspection services for the Phase 5 project. K/J will be performing inspections and reviewing progress pay estimates.

CEQA Determination

The proposed action was previously evaluated by the Castaic Lake Water Agency's (CLWA) Board of Directors. On February 11, 2015, CLWA, as a Responsible Agency under CEQA, certified the Mission Village Final Environmental Impact Report (Final EIR) and adopted the Lead Agency's (the County of Los Angeles) findings, the Statement of Overriding Considerations and the Mitigation Monitoring and Reporting Programs with the adoption of Resolution No. 3023. CLWA filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on February 24, 2015. 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 Agency will reimburse Newhall Land for construction costs and the Agency shall pay Newhall Land for construction management and miscellaneous costs for permits, construction survey and geotechnical testing. Toro's construction bid is \$3,269,978.85. Newhall Land's budget for construction management and miscellaneous costs (permits, construction survey, and geotechnical testing) is an amount not to exceed \$244,000. K/J's budget for inspection services is an amount not to exceed \$287,000. K/J's services will be performed on a time and materials basis.

This project is funded in the Agency's FY 2018/19 Budget for the Magic Mountain Pipeline No. 5 Project. The project's total estimated cost including engineering, construction management, construction, and miscellaneous costs is \$6,167,000. The FY 2018/19 project budget is \$6,062,000. As of November 27, 2018, project expenditures are \$133,070.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors (1) approve the attached resolution awarding funding in an amount not to exceed \$3,269,978.85 for construction costs and an amount not to exceed \$244,000 for construction management and miscellaneous costs to The Newhall Land and Farming Company, LLC, and authorize the General Manager to execute construction change orders up to ten percent (10%) of the original construction contract, and (2) authorize the General Manager to execute a work

authorization with Kennedy/Jenks Consultants for an amount not to exceed \$287,000 for inspection services during construction of the Magic Mountain Pipeline Phase 5 project.

ES

Attachment

RESOLUTION NO. SCV-XX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
APPROVING FUNDING FOR CONSTRUCTION CONTRACT
AND CONSTRUCTION MANAGEMENT
TO THE NEWHALL LAND AND FARMING COMPANY, LLC,
FOR THE MAGIC MOUNTAIN PIPELINE PHASE 5 PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (SCVWA) desires to take steps to increase the reliability of its existing water system; and

WHEREAS, SCVWA's Capital Improvement Program includes new pipelines to extend the Agency's existing Magic Mountain Pipeline to the future Magic Mountain Reservoir, located in The Newhall Land and Farming Company, LLC, (Newhall Land)'s Mission Village project; and

WHEREAS, Newhall Land is constructing the Mission Village project, and would like to install/construct SCVWA's new pipelines in three phases, Magic Mountain Pipeline Phases 4-6, as part of Newhall Land's road improvements, subject to SCVWA's reimbursement; and

WHEREAS, any agreement with Newhall Land regarding the Mission Village project is independent of SCVWA's pre-existing plans to construct the pipeline as part of SCVWA's Capital Improvement Program to ensure a reliable supply of water; and

WHEREAS, Castaic Lake Water Agency (CLWA), as a CEQA Responsible Agency, filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on February 24, 2015 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, the General Manager executed the Magic Mountain Water Pipeline Installation Agreement with Newhall Land for the construction of the Magic Mountain Pipeline Phases 4-6 on August 1, 2018; and

WHEREAS, all bid proposals submitted to the Newhall Land, pursuant to the Magic Mountain Water Pipeline Installation Agreement, and the Agency's construction contract documents, as amended by Addenda, were received by Newhall Land on Monday, November 26, 2018 by 4:00 p.m., in full accordance with the law and the Newhall Land and Farming Company's customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total bid of Toro Enterprises Inc. in the amount of \$3,269,978.85 is the lowest responsible bid of three bids submitted, and that said bid substantially meets the requirements of said construction contract documents as amended by Addenda; and

WHEREAS, the Agency's Purchasing Policy allows the General Manager to approve change orders up to four percent (4%) of the original contract amount and the Board of Directors may grant a different change authority on a project-specific basis; and

WHEREAS, it is in the Agency's best interest that the Board of Directors change the General Manger's Change Order Authority for this project from four percent (4%) to ten percent (10%).

WHEREAS, under the terms of the Magic Mountain Water Pipeline Installation Agreement, Newhall Land will perform the construction management and miscellaneous construction support services for this project in an amount not to exceed \$244,000.

NOW, THEREFORE, BE IT RESOLVED that the Agency's Board of Directors does authorize its General Manager to accept said low bid and does thereafter authorize the Agency's General Manager or its Chief Engineer to approve the funding to Newhall Land for a reimbursement to Toro Enterprises Inc., hereby found to be the "lowest responsible bidder" for the Magic Mountain Pipeline Phase 5 Project pursuant to said Agency's construction contract documents as amended by Addenda for a total construction budget not to exceed \$3,269,978.85.

RESOLVED FURTHER that the Agency's Board of Directors does authorize its General Manager or its Chief Engineer to approve change orders up to a ten percent (10%) of the original construction contract amount for the Magic Mountain Pipeline Phase 5 Project.

RESOLVED FURTHER that the Agency's Board of Directors does authorize its General Manager or its Chief Engineer to approve the funding to Newhall Land for construction management and miscellaneous construction support services for the Magic Mountain Pipeline Phase 5 Project pursuant to the Magic Mountain Water Pipeline Installation Agreement in an amount not to exceed \$244,000.

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COMMITTEE MEMORANDUM

DATE: November 30, 2018

TO: Engineering and Operations Committee

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

SUBJECT: Recommend Approval of (1) a Change Order to the Construction Contract with GSE Construction Company, Inc., (2) a Budget Increase to the Work Authorization with Vali Cooper & Associates, Inc., for Construction Management Services, and (3) a Budget Adjustment for Work Authorization No. 07-055 for Metropolitan Water District of Southern California for the Foothill Feeder Connection Project

SUMMARY

Construction of a permanent turnout structure known as CLWA-01 will replace the current temporary connection which will remain as a back-up. The project consists of the installation of approximately 200 feet of 48-inch diameter pipeline, a 140 cfs/90 MGD turnout structure, valve and meter vaults, and SCADA equipment and construction of a new valve vault, a new meter vault, pipelines and other ancillary items. The Project will increase water delivery capacity to the Rio Vista Water Treatment Plant (RVWTP) by up to 6 MGD (6,700 AFY) immediately to allow for full utilization of RVWTP's current 66 MGD capacity and for future capacity of up to 90 MGD, if necessary.

On March 8, 2017, the Castaic Lake Water Agency Board of Directors adopted a resolution awarding a construction contract to GSE Construction Company, Inc. (GSE), for the Foothill Feeder Turnout No. CLWA-01 Project (Project) for \$2,691,300. Additional work beyond the original specifications has been required because of unforeseen conditions and new and changed requirements issued by the Metropolitan Water District of Southern California (MWDSC), owner of the Foothill Feeder, as well as a delay in dewatering of the Foothill Feeder from the winter of 2018 to February 2019. To date, six change orders have been issued for a total of \$175,550. Staff is recommending approval of Change Order Number 7 for additional costs, including those related to the shutdown scheduled for February 2019. Staff also recommends approval of a work authorization amendment to Vali Cooper & Associates, Inc. (Vali Cooper) for construction management services for the project.

MWDSC continues to play an important role in the Foothill Feeder Connection Project. The Agency made initial payments of \$765,000 to MWDSC in 2007 and \$350,000 in 2015 for anticipated MWDSC project costs. Based on extensive design reviews and the latest project scope, MWDSC's anticipated costs have increased. Staff is recommending approval of a budget increase for MWDSC so that sufficient funds will be available to successfully complete the project.

DISCUSSION

The proposed Change Order Number 7 includes the following items:

- Remobilization, excavation, perform tie-in to SCVWA's 42" pipeline, backfill
- Remobilization, excavation, perform tie-in to MWDSC's 48" pipeline, backfill
- Apply cement linings and coatings to pipelines

Vali Cooper, the Construction Manager, has negotiated Change Order Number 7 for a total cost of \$84,909. A copy of the proposed Change Order Number 7 is attached.

In 2015, Vali Cooper submitted a proposal with a budget in excess of \$600,000 to perform construction management services for the Foothill Feeder Connection project. Staff subsequently negotiated the not-to-exceed-fee down to \$450,000 for a forecasted construction period of 335 days. The project is taking considerably longer than 335 days due to the number of submittals submitted for review, the extensive MWDSC and Agency review process, and changes in the specifications upon which the contractors bid. Additionally, the contractor was not able to make the connection to MWDSC's Foothill Feeder nor the Agency's raw water pipeline because Metropolitan was not able to dewater the Foothill Feeder during the winter 2018 shutdown. The dewatering is currently scheduled for February 2019.

For the first 335 days of the project Vali Cooper was slightly under budget. However, soon after, a budget increase was required. A Board authorization and 10 percent increase in accordance with the Agency's Purchasing Manual resulted in a total authorized budget of \$599,500. An additional \$95,100 is necessary to complete the current work, the final connections during the February 2019 shutdown, and to conduct project closeout, thereafter.

Since the original work authorization was issued in 2007, the project scope has become more defined and MWDSC's estimated costs have increased. The increase is due to more reviews of plans and specifications than originally contemplated, MWDSC cost of living increases, the need to disassemble and inspect the valve after lying idle for several years, more extensive valve refurbishment than originally anticipated, and other items that were not originally identified. An estimated increase of \$165,000 is needed for MWDSC to complete the project, resulting in a budget adjustment from the currently authorized \$1,115,000 to \$1,280,000.

CEQA Determination

The environmental effects from the design, construction, and operation of the Foothill Feeder connection were originally evaluated in the Rio Vista Water Treatment Plant Expansion Project Final Environmental Impact Report, which was certified by the Castaic Lake Water Agency (CLWA) Board of Directors on August 23, 2006 (CLWA Resolution No. 2480). The CLWA Board also approved the Findings of Fact, the Mitigation Monitoring and Reporting Program, and a Statement of Overriding Considerations for the project. There are no substantial changes to the original project. The previous environmental documentation certified by the CLWA Board in conjunction with the proposed action fully complies with CEQA and the State CEQA Guidelines and no further environmental analysis or documentation is required for the Board to act on the proposed action.

FINANCIAL CONSIDERATIONS

The execution of Change Order Number 7 would increase the contract with GSE by \$84,909 from \$2,866,850 to \$ 2,951,759. The execution of an amendment to the Vali Cooper work authorization would increase the budget by \$95,100 from \$599,500 to \$694,600. Execution of an amendment to the MWDSC work authorization would increase the budget by \$165,000 from \$1,115,000 to \$1,280,000. The total budget increase for these three items combined is \$352,655.

The project is funded in the Agency's FY 2018/19 Budget for the Foothill Feeder Connection Project and there are adequate funds remaining for this work. The current estimated total cost of the project, including engineering, construction management and miscellaneous items, is \$5,200,000. As of November 27, 2018, total project expenditures are \$4,016,466.

RECOMMENDATIONS

That the Engineering and Operations Committee recommends that the Board of Directors:

1. Authorize the General Manager to execute Change Order Number 7 to the contract with GSE Construction Company, Inc. to increase the construction contract amount by \$84,909 to \$2,951,759 for the Foothill Feeder Connection Project;
2. Authorize the General Manager to execute an amendment to Work Authorization E1617-036 with Vali Cooper & Associates, Inc., with a budget increase of \$95,100 for a total not to exceed a total authorization of \$694,600 for Construction Management Services for the Foothill Feeder Connection Project; and
3. Authorize the General Manager to execute a budget adjustment to increase the budget of Work Authorization No. 07-055 by \$165,000 for a total of \$1,280,000 for the Metropolitan Water District of Southern California to provide services for the Foothill Feeder Pipeline Connection Project.

JL

Attachment

MGS

ATTACHMENT 1

CHANGE ORDER NO. 7

SANTA CLARITA VALLEY WATER AGENCY

CONTRACT: SCVWA Foothill Feeder Turnout Project

TO: GSE Construction, Inc.
26027 Huntington Lane, Unit D
Valencia, CA 91355

You are hereby directed to make the herein described changes from the plans and specifications or do the following described work not included in the plans and specifications of this contract. All new work herein described shall be done in accordance with the applicable provisions of the plans and specifications, except as specifically modified by this change order. NOTE: This change order is not effective until approved by the Owner.

Please refer to attachments for a cost breakdown, a more detailed description of the work and additional backup information.

CONTRACT SUMMARY:

CONTRACT COST ADJUSTMENT:

• Original Contract Amount	\$	2,691,300.00
• Net Cost Changes by Previous Change Orders	\$	175,550.00
• Contract Amount Prior to this Change Order	\$	2,866,850.00
• Cost Change by this Change Order	\$	84,909.00
• New Contract Amount	\$	2,951,759.00

CONTRACT TIME ADJUSTMENT:

• Original Completion Date	March 27, 2018
• Net Time Adjustment by Previous Change Orders	295
• Completion Date Prior to This Change Order	January 16, 2019
• Contract Time Adjusted by this Change Order	58
• New Completion Date	March 15, 2019

PREPARED BY:

Vali Cooper & Associates

By:  Date: 11/8/18

We the undersigned contractor, have given careful consideration to the change proposed and hereby agree. If this change order is approved, we will provide all equipment, furnish all material, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above.

ACCEPTED:

GSE Construction, Inc.
(Contractor)

By:  Date: 11/8/18

APPROVED:

Santa Clarita Valley Water Agency

By: _____ Date: _____

**DESCRIPTION OF WORK, TIME AND COST BREAKDOWN
CHANGE ORDER NO. 07**

Item	Description	Amount	Time - Days
6.01	PCO 013 - Remobilization to Perform SCVWA 42" Tie-in: MWD was not able to close the isolation valves to allow tie-in of the new 42" pipeline to the existing 42" pipeline, resulting in this work being delayed until the shut down of the Foothill Feeder currently scheduled for February, 2019. GSE submitted a lump sum cost of \$33,122.00, to remobilize, excavate, dewater the 42" pipeline, complete the tie-in work and backfill during the February, 2019, shut down. A Time Extension of 38 Calendar Days is required to move the Contract completion date to coincide w/ the revised shut down date.	\$ 33,122.00	58
6.02	PCO 014 - Remobilization to Perform MWD 48" Tie-in: MWD cancelled the shut down of the Foothill Feeder scheduled for February, 2018, and rescheduled the shut down for February, 2019. GSE stored the 48" pipe fittings without cement mortar linings or coatings at MWD's request. GSE submitted a lump sum cost of \$51,787.00, to remobilize, excavate, complete the tie-in work and backfill during the shut down. This price includes the cost of applying the cement mortar linings & coatings.	\$ 51,787.00	0
	TOTAL	\$ 84,909.00	58

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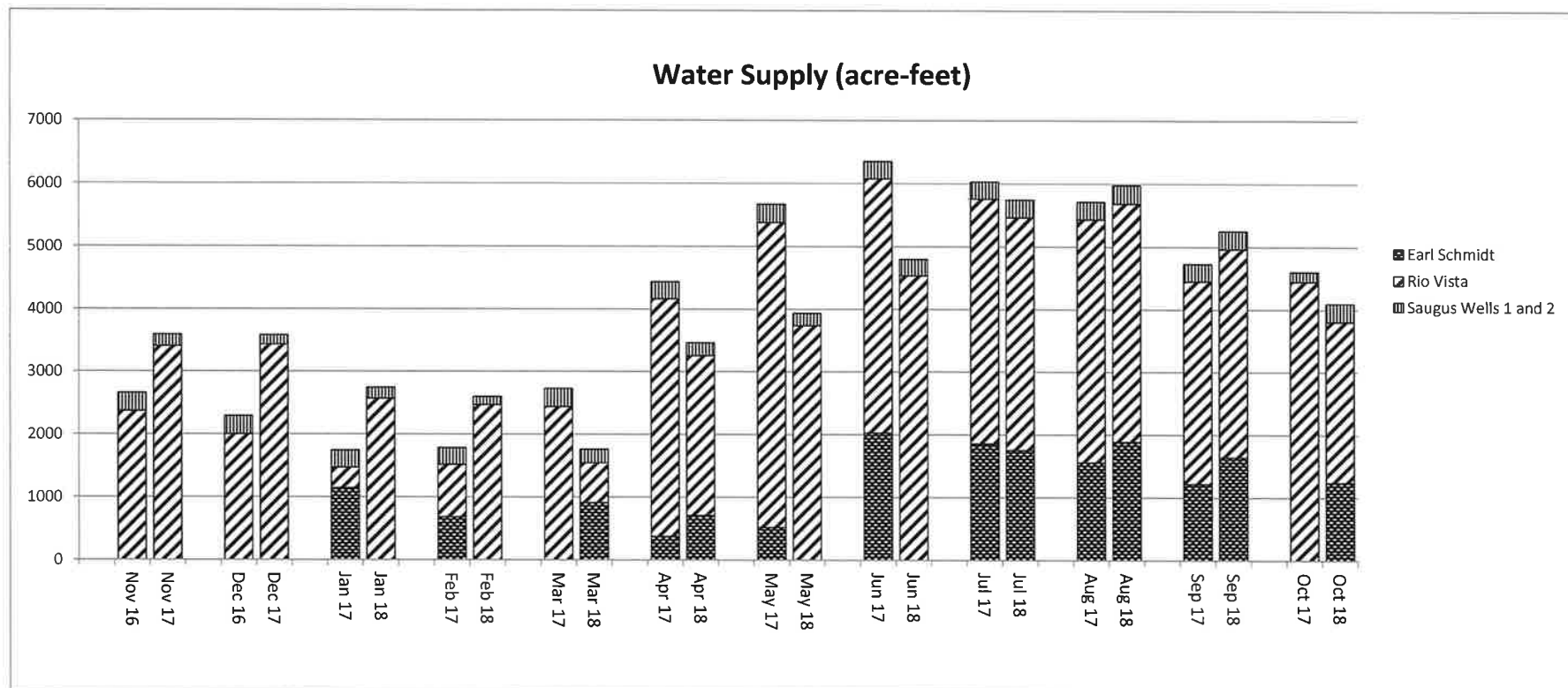


Monthly Operations & Production Report

October 2018

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SANTA CLARITA VALLEY WATER AGENCY
October 2018 Regional Operations Report



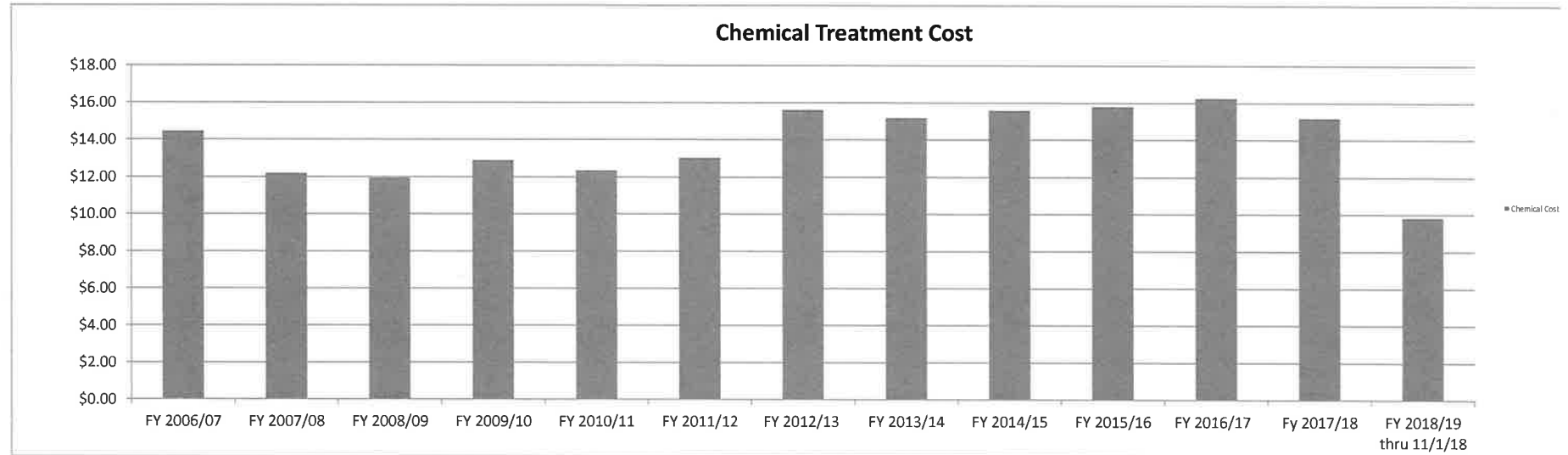
Source	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
Earl Schmidt	0	0	0	0	909	710	0	0	3705	1886	1645	1236.7	10091.7
Rio Vista	3403	3434	2564	2465	637	2544	3735	4539	1755	3793	3321	2570	34760
Saugus 1 and 2	191	150	176	128	220	210	201	260	283	300	289	292	2700
Total	3594	3584	2740	2593	1766	3464	3936	4799	5743	5979	5255	4098.7	47551.7
Total Sold	3527	3481	2684	2532	1746	3414	3885	4695	5639	5855	5160	4011	46629
RVWTP Use/Storage	35	19.29	37.6	23.58	0.71	21.8	67	10	22.7	44.11	17.82	60	359.61
Total Use	3562	3500.29	2721.6	2555.58	1746.71	3435.8	3952	4705	5661.7	5899.11	5177.82	4071	46988.61
Water Loss	-0.89%	-2.34%	-0.67%	-1.44%	-1.09%	-0.81%	0.41%	-1.96%	-1.42%	-1.34%	-1.47%	-0.68%	-1.18%
Recycled Water	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
Valencia	24	24	15	14	9	39	39	64	79	75	17	0	399

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

**Treatment Process
October 2018**

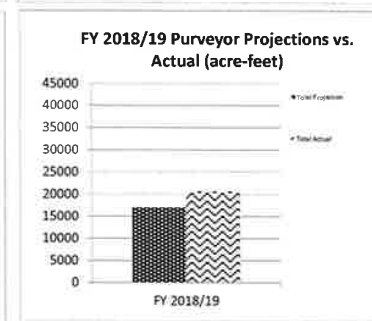
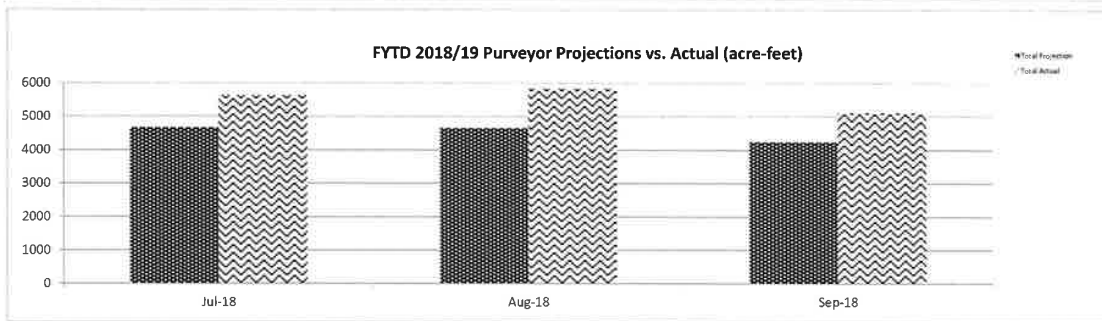
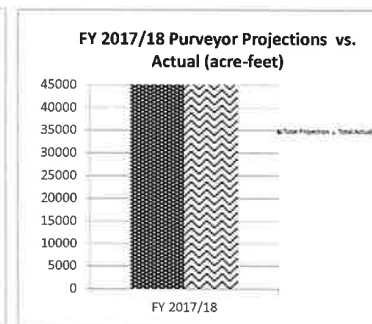
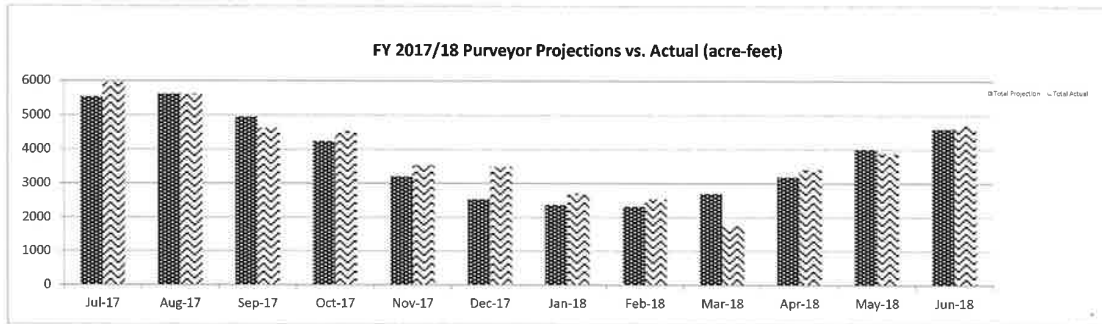
	Perchlorate Raw Water	Perchlorate Finished Water	Raw NTU	Treated NTU	Percent Reduction	Raw Ph	Adjusted pH	Ferric Chloride Dosage	Polymer Dosage	Chlorine Dosage	Ammonia Dosage	Ozone Dosage
Rio Vista			1.22	0.04	96.72%	7.08	8.08	0.82	0.75	4.23	0.88	1.1
Earl Schmidt			0.81	0.04	95.06%	7.24	7.6	1.03	0.98	6.13	0.74	1.1
Saugus 1 and 2	15.5	<1				7.5	7.67			3.3	0.66	

Chemical Treatment Cost



	FY 2006/07	FY 2007/08	FY 2008/09	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	Fy 2017/18
Acre Feet Treated Imported Water	44,493	44,732	38,275	34,610	33,441	35,653	41,504	44,909	30,571	27,456	43,670	46,672
Chemical Cost Per Acre Foot*	\$14.46	\$12.19	\$11.95	\$12.89	\$12.35	\$13.04	\$15.62	\$15.20	\$15.60	\$15.80	\$16.24	\$15.20

* The cost per acre foot includes all chemicals used the treatment process: Chlorine Gas, Sodium Hypochlorite, Caustic Soda (Sodium Hydroxide), Ferric Chloride, Ammonia, and Cationic, non-ionic, and anionic polymers as well as the cost of liquid Oxygen, but does not include the electrical costs to produce the Ozone.



Purveyor Projections vs. Actual															
Month	SCWD Projection	SCWD Actual	%	Valencia Projection	Valencia Actual	%	Newhall Projection	Newhall Actual	%	LA County Projection	LA County Actual	%	Total Projection	Total Actual	Percentage of Estimate
Jul-17	2505	3084	123%	2380	2088	88%	544	785	144%	101	0	0	5530	5957	108%
Aug-17	2585	3035	117%	2345	1723	73%	544	856	157%	140	0	0	5614	5614	100%
Sep-17	2265	2589	114%	2070	1184	57%	480	845	176%	134	0	0	4949	4618	93%
Oct-17	2025	2462	122%	1690	1260	75%	430	804	187%	85	0	0	4230	4526	107%
Nov-17	1545	1921	124%	1300	965	74%	350	640	183%	0	0	0	3195	3526	110%
Dec-17	1265	1955	155%	970	969	100%	290	556	192%	0	0	0	2525	3480	138%
Jan-18	1145	1578	138%	990	853	86%	229	253	110%	0	0	0	2364	2684	114%
Feb-18	1225	1580	129%	880	676	77%	210	275	131%	0	0	0	2315	2531	109%
Mar-18	1305	969	74%	1125	619	55%	260	157	60%	0	0	0	2690	1745	65%
Apr-18	1465	1905	130%	1410	1160	82%	310	349	113%	0	0	0	3185	3414	107%
May-18	1785	2075	116%	1880	1335	71%	330	473	143%	0	0	0	3995	3883	97%
Jun-18	2105	2264	108%	2080	1622	78%	410	808	197%	0	0	0	4595	4694	102%
FY 2017/18	21220	25417	120%	19120	14454	76%	4387	6801	155%	460	0	0	45187	46672	103%
Jul-18	2453	2694	110%	1655	1921	116%	558	1023	183%	0	0	0	4666	5638	121%
Aug-18	2453	2796	114%	1637	2026	124%	558	1012	181%	0	0.42	0	4648	5835	126%
Sep-18	2312	2485	107%	1441	1743	121%	488	881	181%	0	0.4	0	4241	5109	120%
Oct-18	1862	2174	117%	1178	1300	110%	448	537	120%	0	0	0	3488	4011	115%
FY 2018/19	9080	10149	112%	5911	6990	118%	2052	3453	168%	0	0.82	0	17043	20593	121%

SANTA CLARITA VALLEY WATER AGENCY

Record of Weather Observations

October 2018

(Beginning of the 2019 Water Year)

DATE	High Temperature	Low Temperature	Precipitation 2018	Precipitation 2017
1-Oct	90	59	0.00	0.00
2-Oct	81	65	0.00	0.00
3-Oct	72	62	0.00	0.00
4-Oct	75	52	0.00	0.00
5-Oct	81	53	0.00	0.00
6-Oct	76	54	0.00	0.00
7-Oct	79	47	0.00	0.00
8-Oct	77	46	0.00	0.00
9-Oct	75	46	0.00	0.00
10-Oct	72	50	0.00	0.00
11-Oct	73	49	0.00	0.00
12-Oct	82	46	0.11	0.00
13-Oct	71	59	0.38	0.00
14-Oct	73	52	0.01	0.00
15-Oct	75	47	0.02	0.00
16-Oct	79	39	0.00	0.00
17-Oct	80	41	0.00	0.00
18-Oct	82	42	0.00	0.00
19-Oct	83	45	0.00	0.00
20-Oct	85	46	0.00	0.00
21-Oct	81	48	0.00	0.00
22-Oct	79	47	0.00	0.00
23-Oct	86	48	0.00	0.00
24-Oct	86	48	0.00	0.00
25-Oct	83	46	0.00	0.00
26-Oct	92	46	0.00	0.00
27-Oct	91	48	0.00	0.00
28-Oct	88	46	0.00	0.00
29-Oct	83	54	0.00	0.00
30-Oct	78	45	0.00	0.00
31-Oct	76	49	0.00	0.00

TOTAL		0.52	0.00
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		2018-2019	2017-2018
<i>Total Precipitation of Current Month</i>		0.52	0.00
<i>Total Precipitation End of Previous Month</i>		0.00	0.00

Total Precipitation Since October 1st		0.52	0.00
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<i>Temperature Averages for Current Month</i>	HIGH	80.1	84.7
	LOW	49.2	49.7

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

	<i>1997-98</i>	<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>
Oct	0.00	0.33	0.00	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25
Nov	3.73	1.39	0.00	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50
Dec	6.72	1.39	0.05	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67
Jan	3.49	2.08	1.21	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54
Feb	22.00	0.65	9.43	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82
Mar	5.15	3.00	3.15	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10
Apr	2.28	3.78	2.10	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07
May	5.50	0.00	0.00	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17
Jun	0.06	0.48	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Jul	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00
Aug	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
Sep	0.21	0.01	0.00	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00
TOTAL	49.14	13.11	16.25	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12
	<i>2008-09</i>	<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>
Oct	0.09	4.04	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52
Nov	1.78	0.08	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06	
Dec	3.01	4.28	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01	
Jan	0.69	9.13	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18	
Feb	6.78	4.96	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35	
Mar	1.18	0.69	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50	
Apr	0.07	2.40	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02	
May	0.01	0.07	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01	
Jun	0.03	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	
Jul	0.00	0.00	0.01	0.00	0.08	0.02	0.87	0.00	0.01	0.00	
Aug	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.02	0.07	0.00	
Sep	0.00	0.00	0.00	0.02	0.00	0.00	0.78	0.00	0.13	0.02	
TOTAL	13.64	25.65	31.27	16.07	8.28	9.23	12.87	10.87	25.53	11.15	0.52

SANTA CLARITA VALLEY WATER AGENCY
WATER PRODUCTION BY WELL 2018 (ACRE-FEET)

NEWHALL WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
N12	0	0	0	0	0	0	0	0	0	0	0	0	0
N13	216	214	164	274	272	53	0	0	0	220	0	0	1412
C1	30	30	20	33	41	37	43	48	42	42	0	0	366
C2	15	15	9	16	19	17	20	22	20	19	0	0	172
C7	34	33	22	19	0	0	0	0	0	0	0	0	108
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	295	292	214	342	332	107	63	71	61	281	0	0	2058

SANTA CLARITA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	10	0	2	0	0	0	0	0	0	0	0	12
LOST CANYON NO.2A	5	28	20	37	68	88	85	40	14	0	0	0	385
SAND CANYON	0	0	18	22	68	85	81	42	14	0	0	0	330
MITCHELL 5A	0	0	13	1	33	0	0	0	0	0	0	0	47
MITCHELL 5B	0	0	0	2	0	55	39	1	0	0	0	0	97
SIERRA	2	1	19	2	25	54	31	64	31	0	0	0	229
NORTH OAKS EAST	1	1	12	5	1	1	1	2	4	1	0	0	29
NORTH OAKS CENTRAL	1	1	0	2	1	2	2	3	4	2	0	0	18
NORTH OAKS WEST	1	2	18	4	6	0	0	0	0	0	0	0	31
HONBY	0	0	12	1	0	0	1	1	3	1	0	0	19
GUIDA	10	10	21	10	29	26	51	44	42	42	0	0	285
CLARK	14	7	21	12	23	24	52	48	37	17	0	0	255
SANTA CLARA	1	6	13	1	0	1	0	1	3	1	0	0	27
VALLEY CENTER	0	1	19	2	1	36	117	99	96	92	0	0	463
TOTAL SCWD	35	67	186	103	255	372	460	345	248	156	0	0	2227

VALENCIA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	43	49	27	60	62	79	93	92	87	72	0	0	663
E15	51	44	31	32	43	53	78	70	73	68	0	0	543
N	63	67	31	84	72	115	139	112	80	64	0	0	829
N7	61	138	69	101	137	78	104	118	100	230	0	0	1136
N8	65	100	58	92	130	75	107	122	111	72	0	0	932
Q2	39	69	40	90	92	113	130	123	113	116	0	0	927
T7	4	7	16	7	8	10	6	4	6	12	0	0	80
U6	5	8	12	14	11	4	9	8	6	12	0	0	89
U4	3	6	10	6	6	7	5	4	3	6	0	0	55
S6	65	124	39	81	104	95	147	189	153	145	0	0	1143
S7	15	28	25	43	57	45	68	51	37	56	0	0	424
S8	24	32	17	44	62	60	53	89	69	32	0	0	481
W11	41	34	28	23	37	65	124	110	72	69	0	0	602
W9	3	2	8	29	29	20	24	21	20	22	0	0	179
W10	65	118	28	111	120	143	169	150	113	140	0	0	1157
159 (GOLF COURSE IRRIGATION)	3	4	1	12	6	0	0	0	0	0	0	0	27
160 (SYSTEM)	1	1	1	1	1	1	1	1	1	1	0	0	11
160 (GOLF COURSE IRRIGATION)	22	28	11	57	58	82	93	77	77	54	0	0	559
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	71	59	30	95	153	141	131	134	142	132	0	0	1088
207	66	68	92	94	112	147	186	157	121	158	0	0	1201
TOTAL VWD	710	986	575	1077	1300	1334	1666	1633	1382	1462	0	0	12125

S1	92	68	134	146	151	145	133	150	147	150	0	0	1317
S2	84	60	86	64	50	115	150	149	142	142	0	0	1043
TOTAL S1 & S2	176	128	220	210	201	260	283	300	289	292	0	0	2360

TOTAL WELL PRODUCTION	1216	1474	1196	1732	2088	2073	2472	2348	1980	2191	0	0	18771
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WELL 201 (NON-SYSTEM)	224	201	128	155	154	149	153	148	148	165	0	0	1624
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**NEWHALL WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
NEWHALL SYSTEM													
N12	0	0	0	0	0	0	0	0	0	0	0	0	0
N13	216	214	164	274	272	53	0	0	0	0	220		1412
CASTAIC SYSTEM													
C1	30	30	20	33	41	37	43	48	42	42			366
C2	15	15	9	16	19	17	20	22	20	19			172
C7	34	33	22	19	0	0	0	0	0	0			108
PINETREE SYSTEM													
P1	0	0	0	0	0	0	0	0	0	0			0
P3	0	0	0	0	0	0	0	0	0	0			0
P4	0	0	0	0	0	0	0	0	0	0			0
P5	0	0	0	0	0	0	0	0	0	0			0
S1 & S2	47	34	59	56	54	70	76	80	77	78			633
TOTAL GROUNDWATER	342	327	273	398	386	177	139	151	139	359			2691
IMPORT + S1 & S2													
NEWHALL SYSTEM													
N-3	51	62	33	61	112	377	500	496	435	163			2291
CASTAIC SYSTEM													
N-1	33	33	24	58	87	120	144	132	112	99			841
PINETREE SYSTEM													
N-2	120	120	75	153	184	204	244	242	211	177			1730
TESORO SYSTEM													
N-4	50	60	25	77	90	108	136	141	123	98			908
TOTAL IMPORT + S1 & S2	253	275	157	349	473	808	1023	1012	881	537			5769
VWD- INTERTIE	5	0	0	0	0	0	0	0	0	0	0	0	5
TOTAL GROUNDWATER (INCLUDES S1 & S2)	342	327	273	398	386	177	139	151	139	359			2691
TOTAL IMPORT (NO S1 & S2)	206	241	98	292	420	738	947	931	804	458			5137
TOTAL VWD INTERTIE	5	0	0	0	0	0	0	0	0	0			5
TOTAL PRODUCTION	553	568	372	690	806	915	1087	1082	943	818			7833
% BY SOURCE													
GROUNDWATER	62%	58%	74%	58%	48%	19%	13%	14%	15%	44%			34%
IMPORT	37%	42%	26%	42%	52%	81%	87%	86%	85%	56%			66%
INTERTIE	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%			0%

**SANTA CLARITA WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	10	0	2	0	0	0	0	0	0			12
LOST CANYON NO.2A	5	28	20	37	68	88	85	40	14	0			385
SAND CANYON	0	0	18	22	68	85	81	42	14	0			330
MITCHELL 5A	0	0	13	1	33	0	0	0	0	0			47
MITCHELL 5B	0	0	0	2	0	55	39	1	0	0			97
SIERRA	2	1	19	2	25	54	31	64	31	0			229
NORTH OAKS EAST	1	1	12	5	1	1	1	2	4	1			29
NORTH OAKS CENTRAL	1	1	0	2	1	2	2	3	4	2			18
NORTH OAKS WEST	1	2	18	4	6	0	0	0	0	0			31
HONBY	0	0	12	1	0	0	1	1	3	1			19
GUIDA	10	10	21	10	29	26	51	44	42	42			285
CLARK	14	7	21	12	23	24	52	48	37	17			255
SANTA CLARA	1	6	13	1	0	1	0	1	3	1			27
VALLEY CENTER	0	1	19	2	1	36	117	99	96	92			463
TOTAL ALLUVIUM	35	67	186	103	255	372	460	345	248	156	0	0	2227
SAUGUS WELLS S1 & S2	129	94	161	154	147	191	207	219	212	214			1727
TOTAL GROUNDWATER	164	161	347	257	402	563	667	564	460	370	0	0	3954
IMPORT + S1 & S2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SC-1 BOUQUET	138	152	31	47	197	233	283	301	301	266			1948
SC-2 HONBY	473	445	275	548	626	730	804	809	617	449			5776
SC-3 WILEY	43	44	47	84	87	91	107	107	92	84			785
SC-4 HONBY #2	0	0	0	0	80	41	0	0	0	43			165
SC-5 RIO VISTA	177	174	50	319	171	230	230	229	193	199			1974
SC-6 LOST CANYON	160	239	186	314	243	163	199	144	109	173			1931
SC-7	49	204	108	126	154	177	295	257	241	189			1800
SC-8	181	62	32	77	222	185	230	332	310	242			1873
SC-9	107	99	48	94	177	191	206	141	168	116			1348
SC-10	57	52	18	87	9	52	68	76	71	85			576
SC-11	46	37	38	103	10	60	95	76	75	96			635
SC-12	76	0	0	0	0	0	41	203	232	143			695
SC-13	71	71	136	106	99	110	135	141	126	90			1086
TOTAL IMPORT + S1 & S2	1,578	1,580	969	1,905	2,076	2,264	2,694	2,816	2,535	2,174	0	0	20,591
METERING ADJUSTMENT	0	0	-4	0	0	0	0	0	0	0			-4
NET IMPORT + S1 & S2	1,578	1,580	965	1,905	2,076	2,264	2,694	2,816	2,535	2,174	0	0	20,587
TOTAL GROUNDWATER (INCLUDES S1 & S2)	164	161	347	257	402	563	667	564	460	370	0	0	3954.222167
TOTAL IMPORT (NO S1 & S2)	1,449	1,486	808	1,751	1,929	2,074	2,487	2,597	2,324	1,960	0	0	18,864
TOTAL VWD INTERTIE	0	0	8	0	0	0	0	0	0	0			8
TOTAL PRODUCTION	1,613	1,647	1,163	2,008	2,331	2,636	3,154	3,161	2,783	2,330	0	0	22,826
% BY SOURCE													
GROUNDWATER	10%	10%	30%	13%	17%	21%	21%	18%	17%	16%			17%
IMPORT	90%	90%	69%	87%	83%	79%	79%	82%	83%	84%			83%
VWD INTERTIE	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%			0%

**VALENCIA WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	43	49	27	60	62	79	93	92	87	72			663
E15	51	44	31	32	43	53	78	70	73	68			543
N	63	67	31	84	72	115	139	112	80	64			829
N7	61	138	69	101	137	78	104	118	100	230			1136
N8	65	100	58	92	130	75	107	122	111	72			932
Q2	39	69	40	90	92	113	130	123	113	116			927
T7	4	7	16	7	8	10	6	4	6	12			80
U6	5	8	12	14	11	4	9	8	6	12			89
U4	3	6	10	6	6	7	5	4	3	6			55
S6	65	124	39	81	104	95	147	189	153	145			1143
S7	15	28	25	43	57	45	68	51	37	56			424
S8	24	32	17	44	62	60	53	89	69	32			481
W11	41	34	28	23	37	65	124	110	72	69			602
W9	3	2	8	29	29	20	24	21	20	22			179
W10	65	118	28	111	120	143	169	150	113	140			1157
TOTAL ALLUVIUM	548	825	441	817	970	963	1255	1263	1041	1117			9240
SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	3	4	1	12	6	0	0	0	0	0			27
160 - DOM	1	1	1	1	1	1	1	1	1	1			11
160 - VGC*	22	28	11	57	58	82	93	77	77	54			559
201	0	0	0	0	0	0	0	0	0	0			0
205	0	0	0	0	0	0	0	0	0	0			0
206	71	59	30	95	153	141	131	134	142	132			1088
207	66	68	92	94	112	147	186	157	121	158			1201
TOTAL SAUGUS	162	161	135	261	330	371	411	369	341	345			2885
IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	95	96	58	94	101	136	174	186	168	145			1253
V-2	220	108	131	273	315	436	510	518	490	204			3204
V-4	91	62	22	40	119	108	234	246	200	274			1398
V-5	183	153	172	307	348	411	394	374	322	186			2851
V-6	150	137	111	164	202	185	144	144	122	133			1493
V-7	24	36	25	51	71	61	71	93	59	53			544
V-8	91	84	100	230	180	284	393	465	381	305			2514
TOTAL IMPORT	853	676	619	1,160	1,336	1,622	1,921	2,026	1,743	1,300			13,257
TOTAL GROUNDWATER	710	986	575	1,077	1,300	1,334	1,666	1,633	1,382	1,462			12,125
TOTAL IMPORT	853	676	619	1,160	1,336	1,622	1,921	2,026	1,743	1,300			13,257
TOTAL PRODUCTION	1,564	1,662	1,194	2,237	2,636	2,957	3,587	3,659	3,125	2,762			25,382
% BY SOURCE													
GROUNDWATER	45%	59%	48%	47%	48%	44%	45%	43%	43%	52%			47%
IMPORT WATER	55%	41%	52%	53%	52%	56%	55%	57%	57%	48%			53%
RECYCLED WATER	15	14	9	39	39	64	79	75	17	0			352
Well 201 Discharge	224	201	128	155	154	149	153	148	148	165			1624

*Not used in the calculation for % by source

LOS ANGELES COUNTY WATERWORKS DISTRICT 36

SOURCE

TURNOUT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
LA 1	0	0.02	0	0.01	0	0.00	0.009	0	0.0031	0			0.04
LA 2	0	1.04	0.44	0.38	0.6046	0.43	0.623	0.4204	0.402	0.5647			4.90
TOTAL	0	1.06	0.44	0.39	0.6046	0.4296	0.632	0.4204	0.4051	0.5647			4.95

RAW WATER

SOURCE	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
RVTP	2,564	2,465	637	2,545	3,735	4,539	3,705	3,793	3,322	2,570			29,872.94
ESTP	0	0	909	710	0	0	1,755	1,885	1,645	1,237			8,140.72
Wells	176	126	220	210	201	260	283	300	289	292			2,358.14
TOTAL	2,740	2,592	1,766	3,465	3,936	4,799	5,742	5,978	5,255	4,098			40,371.80

S1/S2 TREATMENT

SOURCE	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
S1	92.091	68.445	134.13	146.44	150.73	144.99	133.4	150.31	146.62	150.19			1317.39
S2	84.397	60.049	86.039	63.676	49.949	115.45	149.6	149.47	142.33	141.76			1042.76
TOTAL	176.49	128.49	220.17	210.12	200.68	260.45	283.1	299.78	288.95	291.94			2360.15

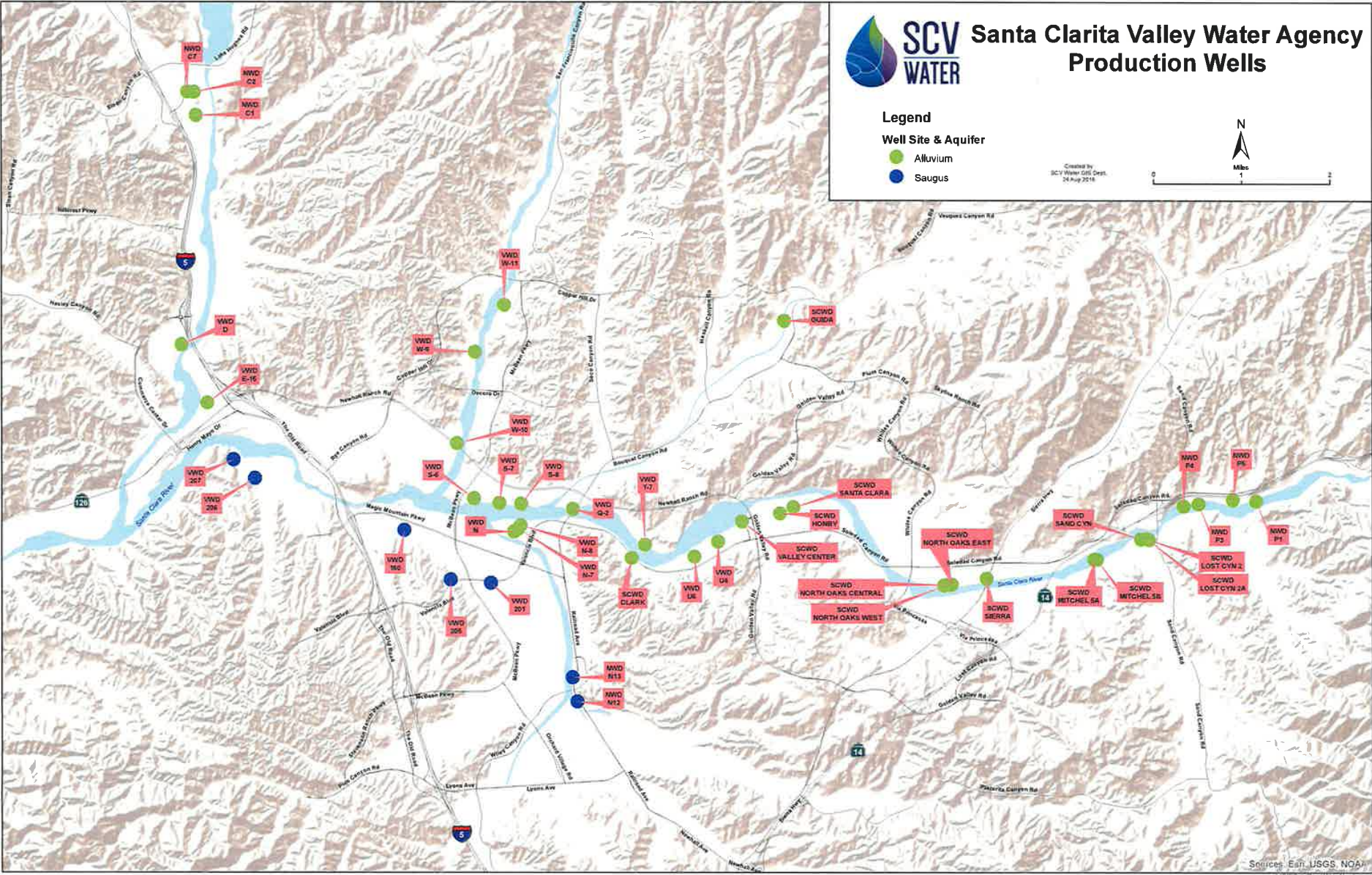


Santa Clarita Valley Water Agency Production Wells

Legend

- Well Site & Aquifer
- Alluvium (Green circle)
- Saugus (Blue circle)

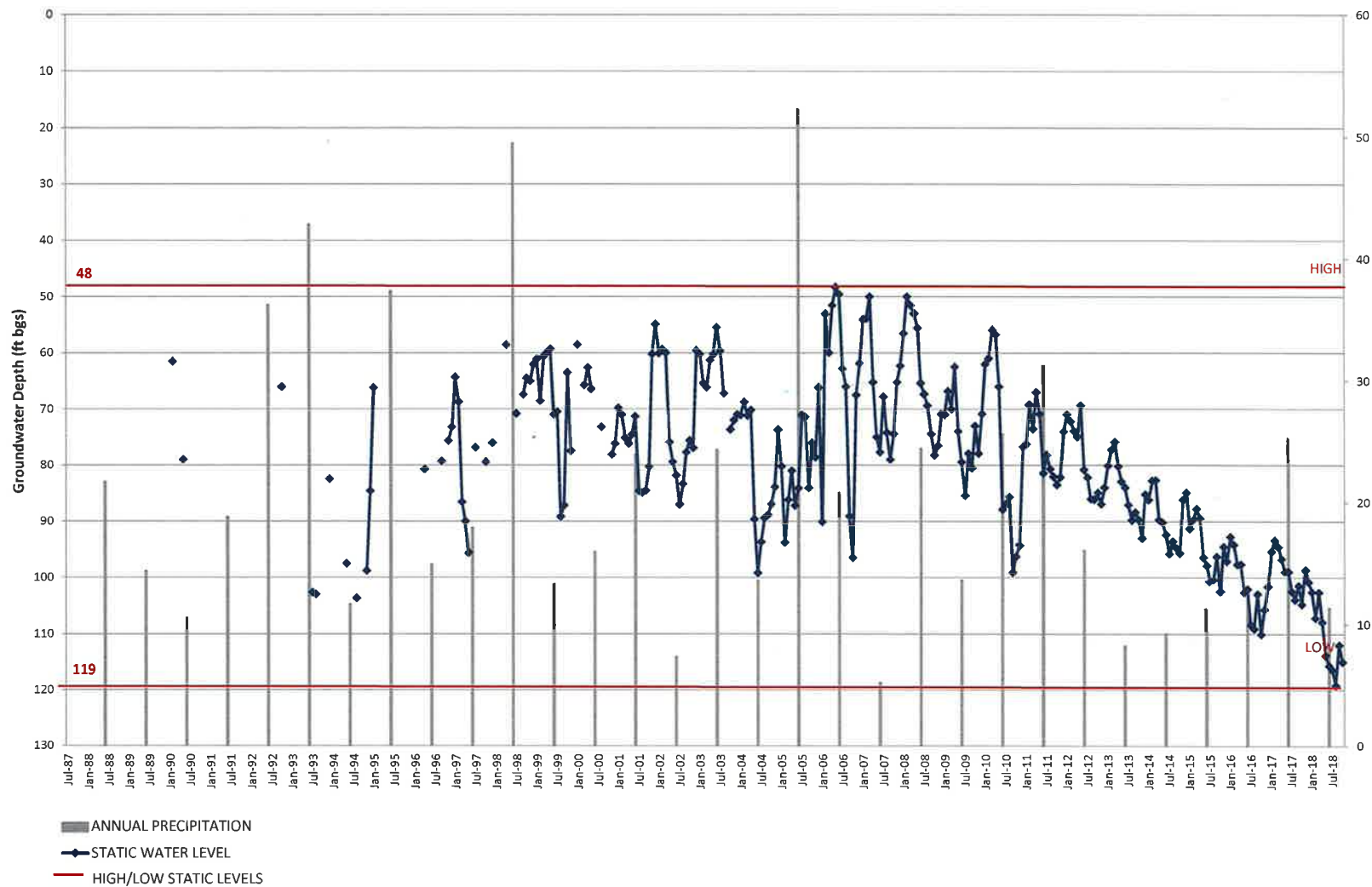
Created by
SCV Water GIS Dept.
24 Aug 2016



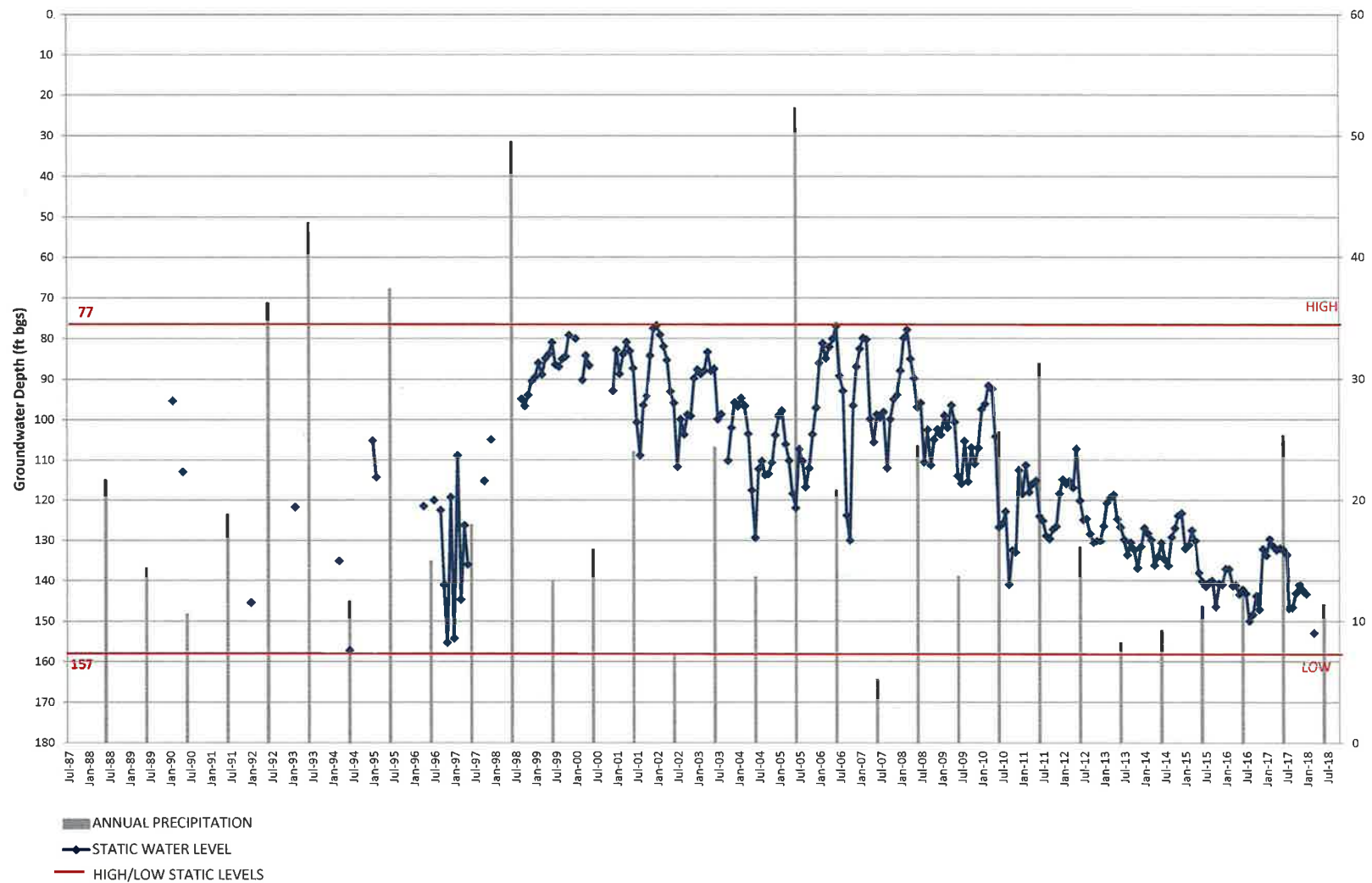
Sources: Esri, USGS, NOAA
L:\GIS\scv\map\Map_Aquifer.mxd

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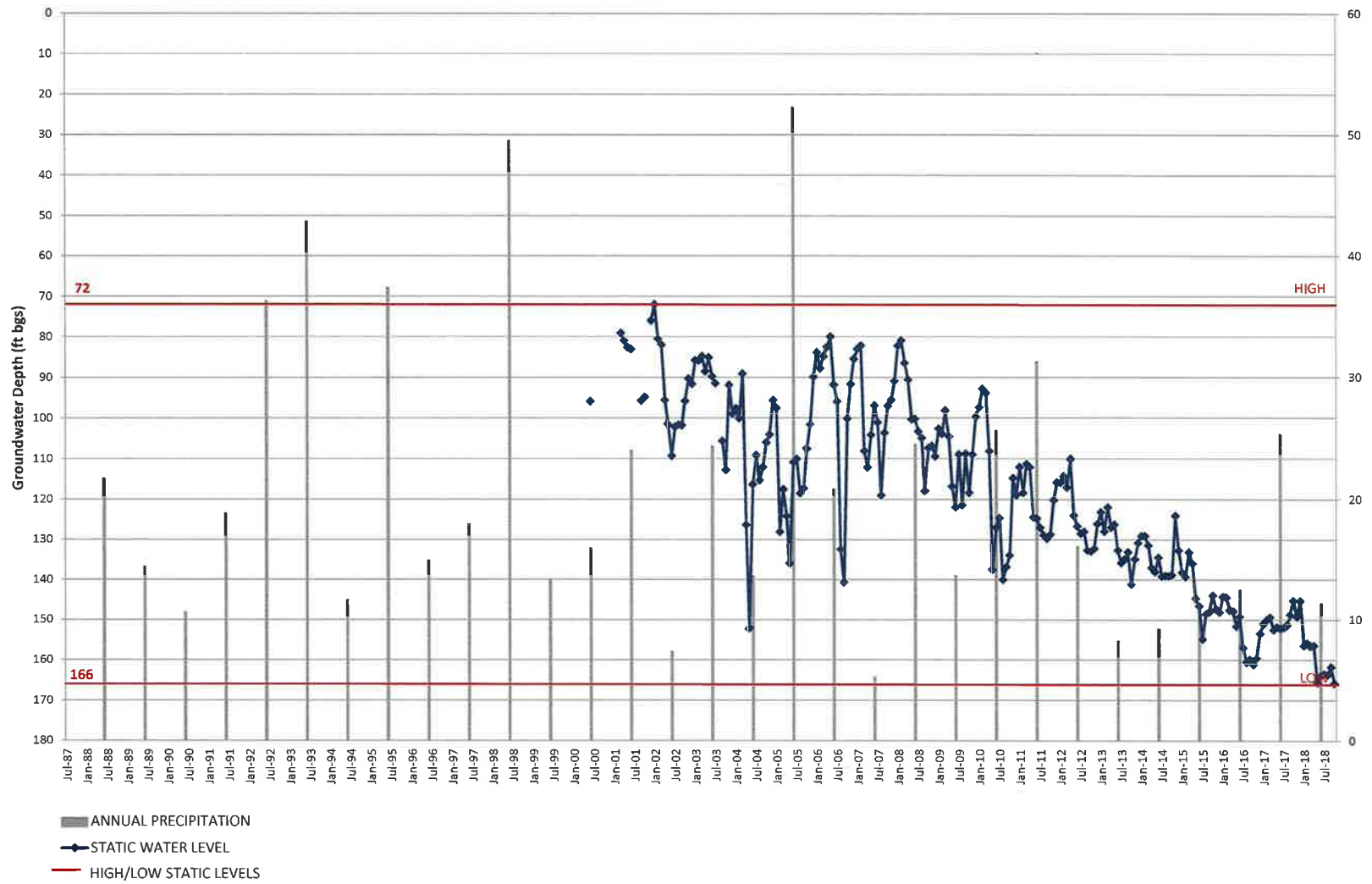
SCV WATER WELL 160
STATIC WATER LEVEL VS PRECIPITATION



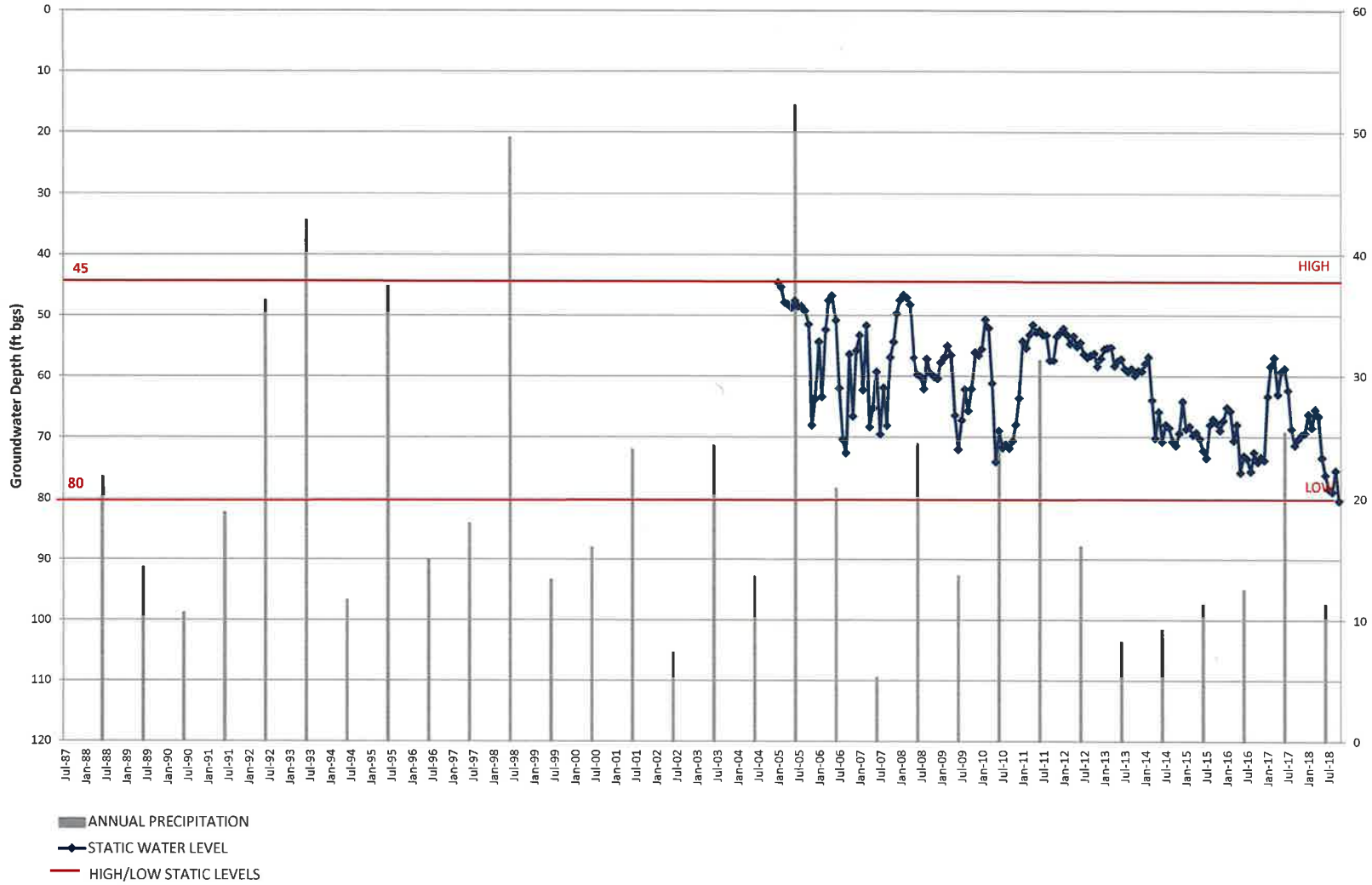
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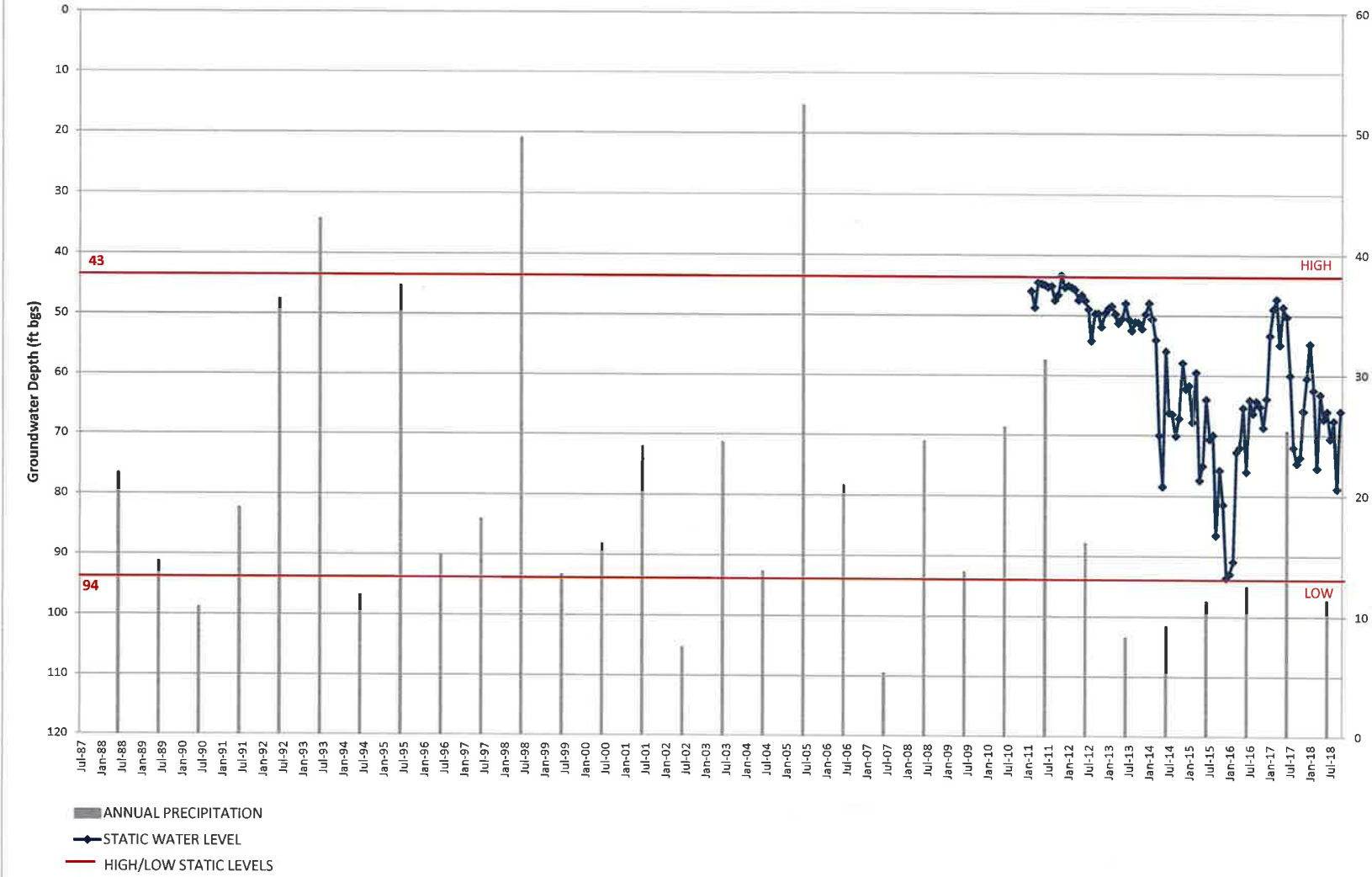
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SCV WATER WELL 206
STATIC WATER LEVEL VS PRECIPITATION



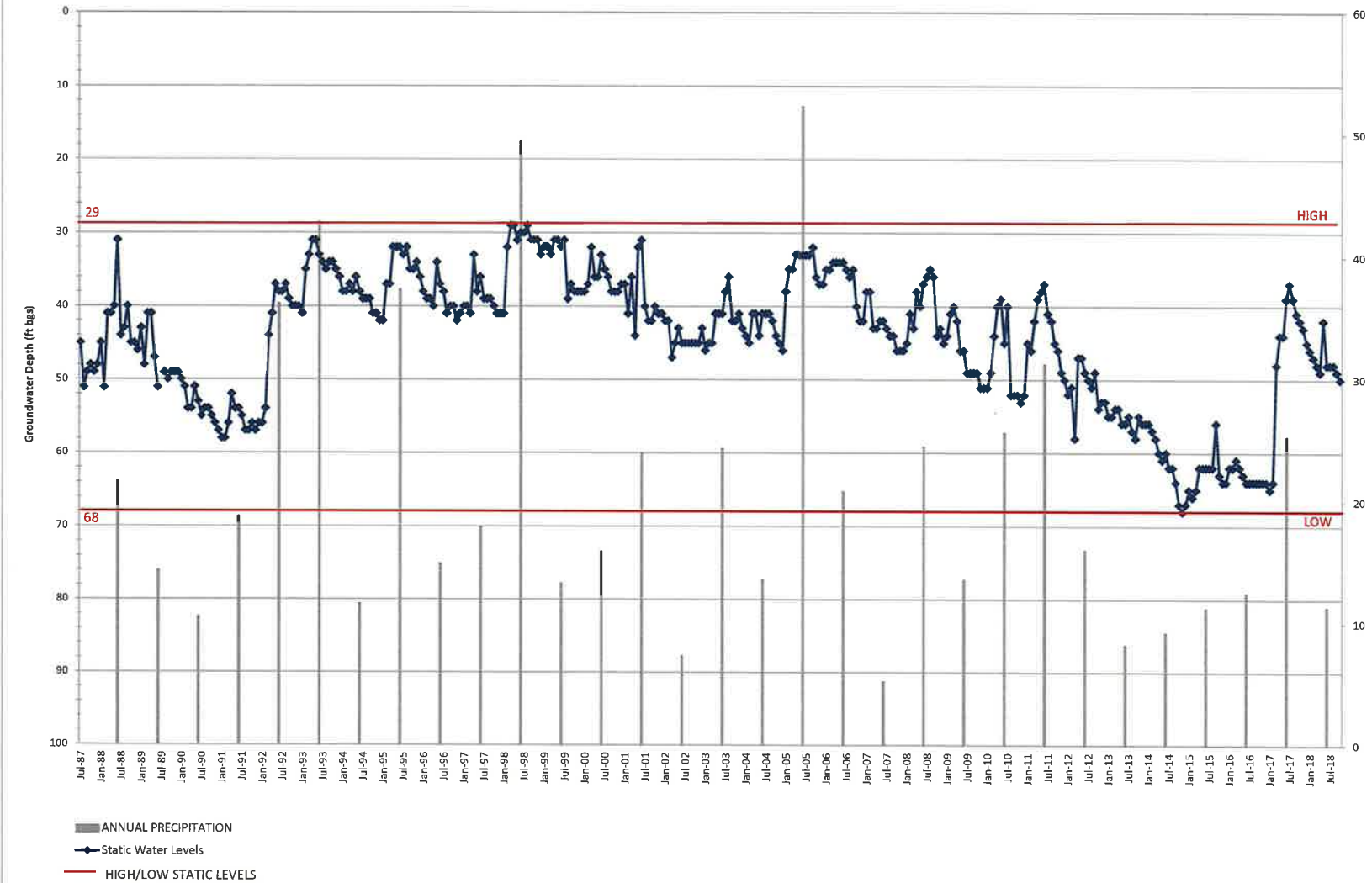
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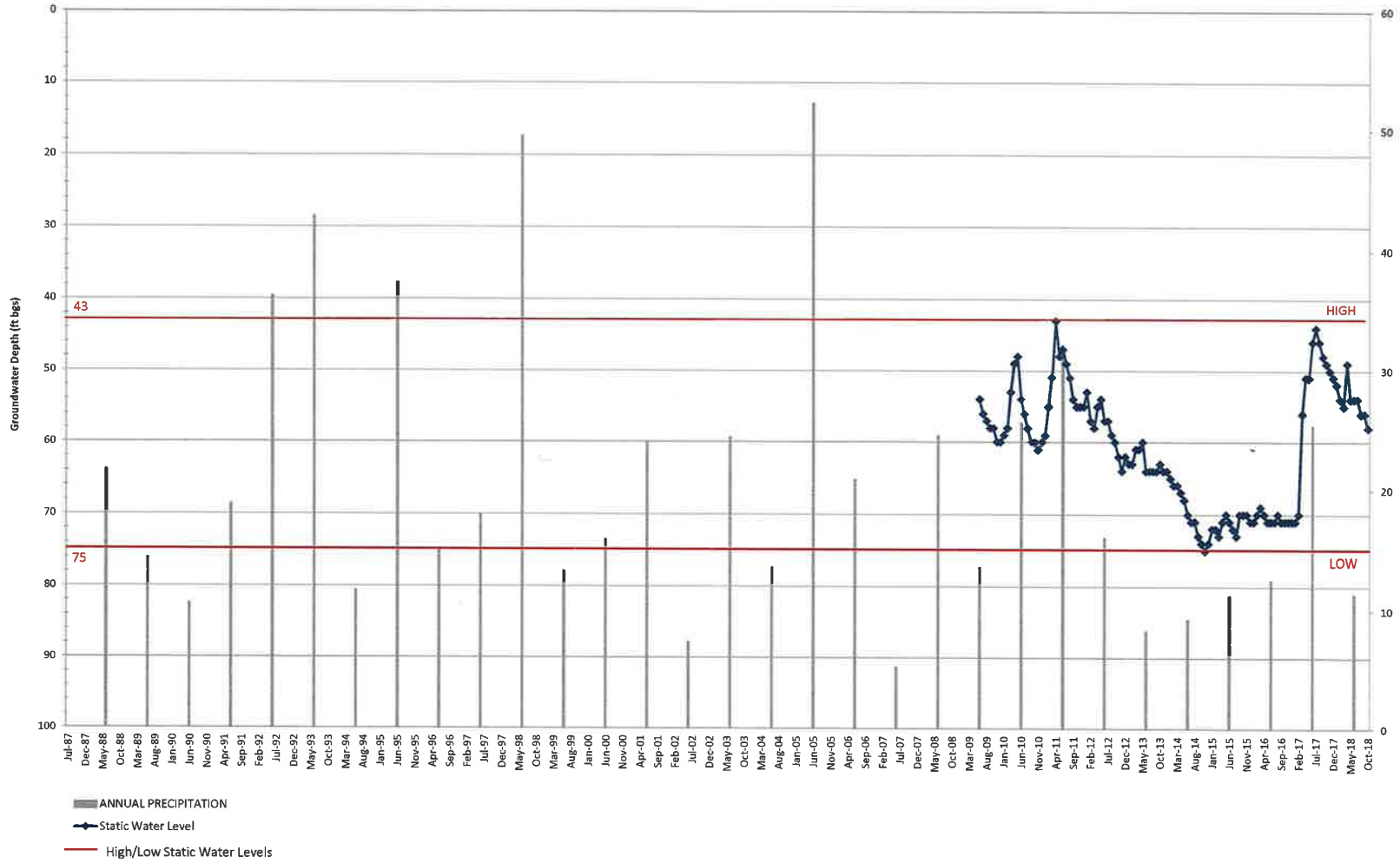
SCV WATER WELL C1
STATIC WATER LEVEL VS PRECIPITATION



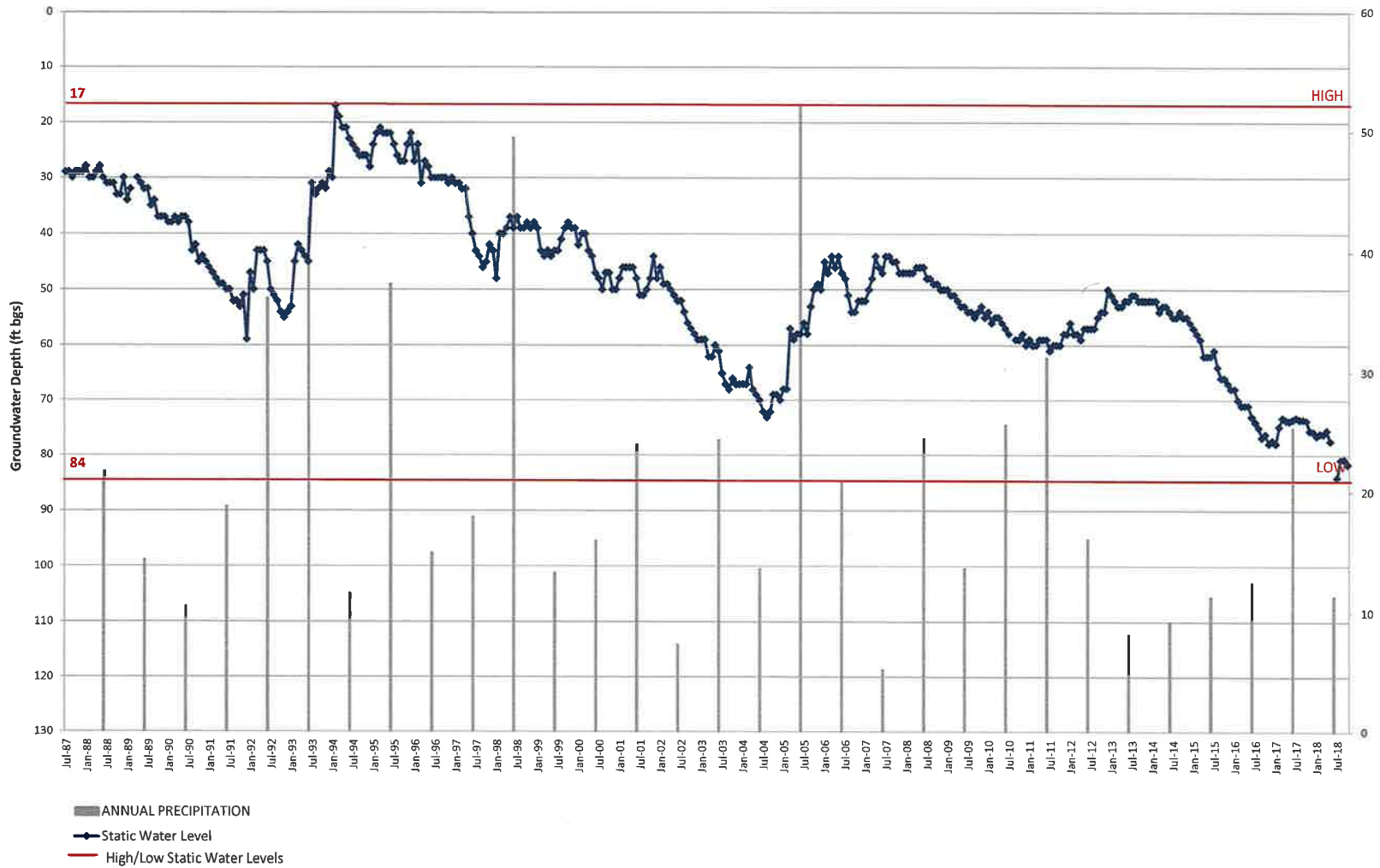
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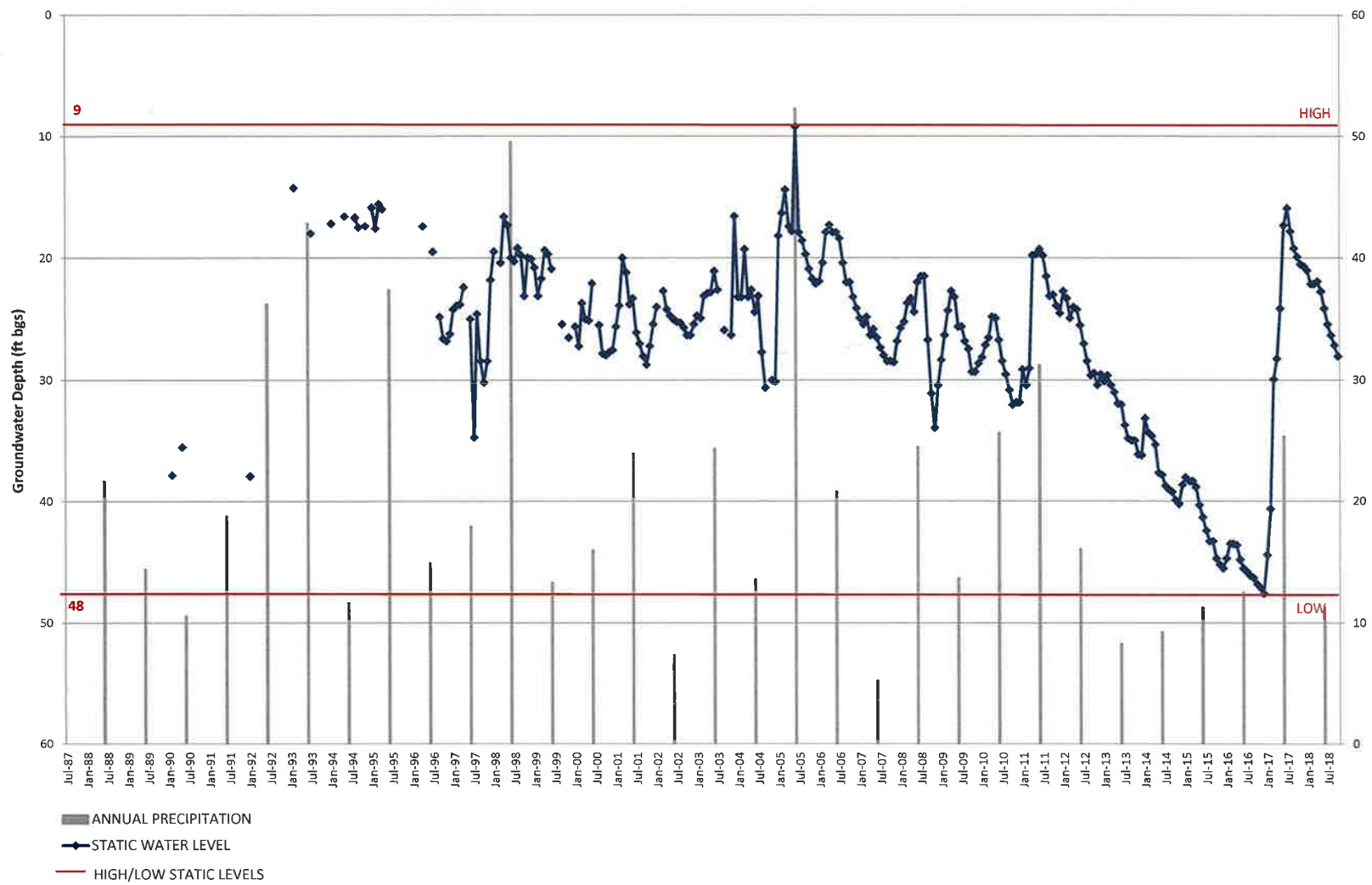
SCV WATER WELL C7
STATIC WATER LEVEL VS PRECIPITATION



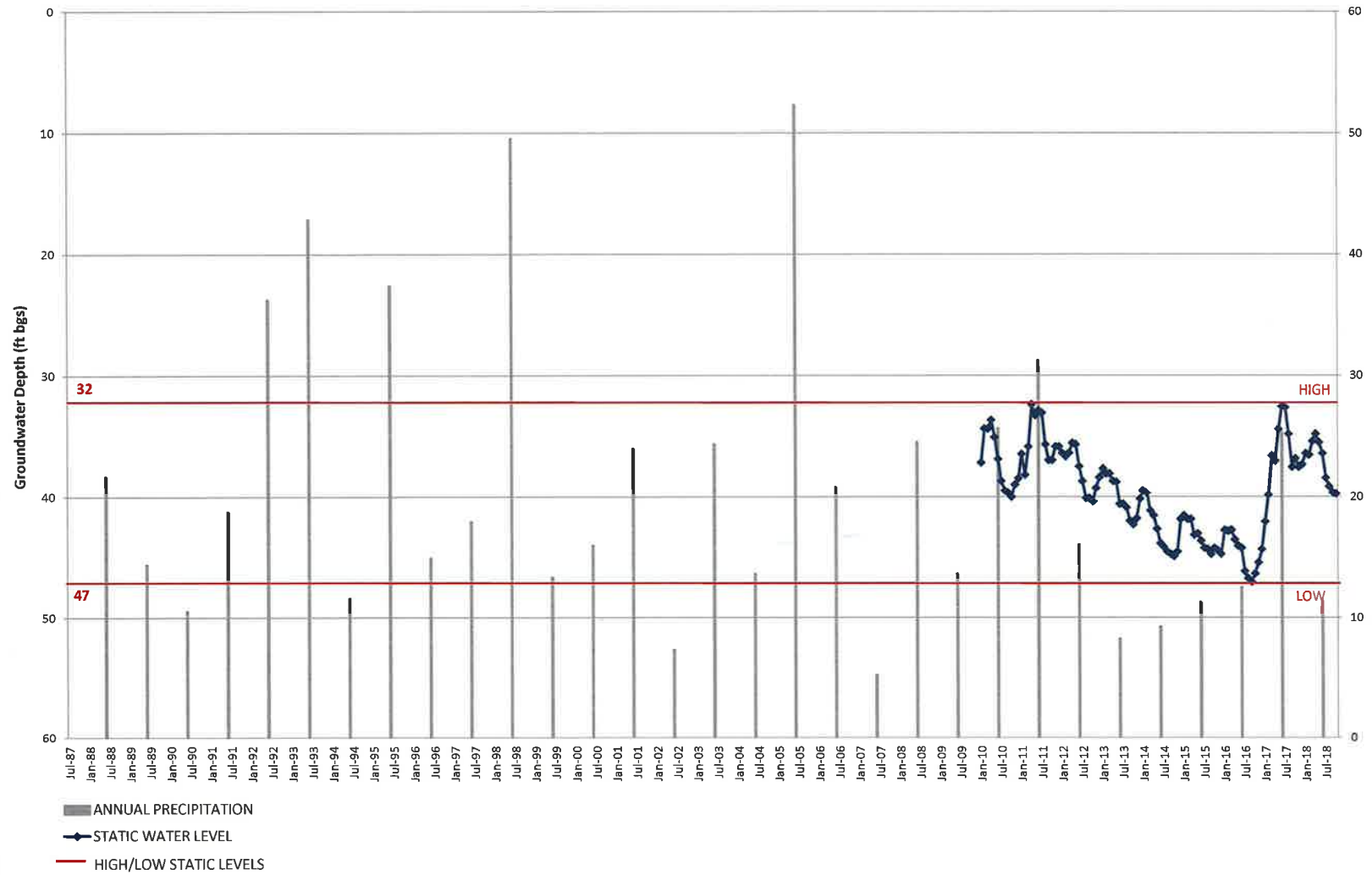
SCV WATER WELL CLARK #15
 STATIC WATER LEVEL VS PRECIPITATION



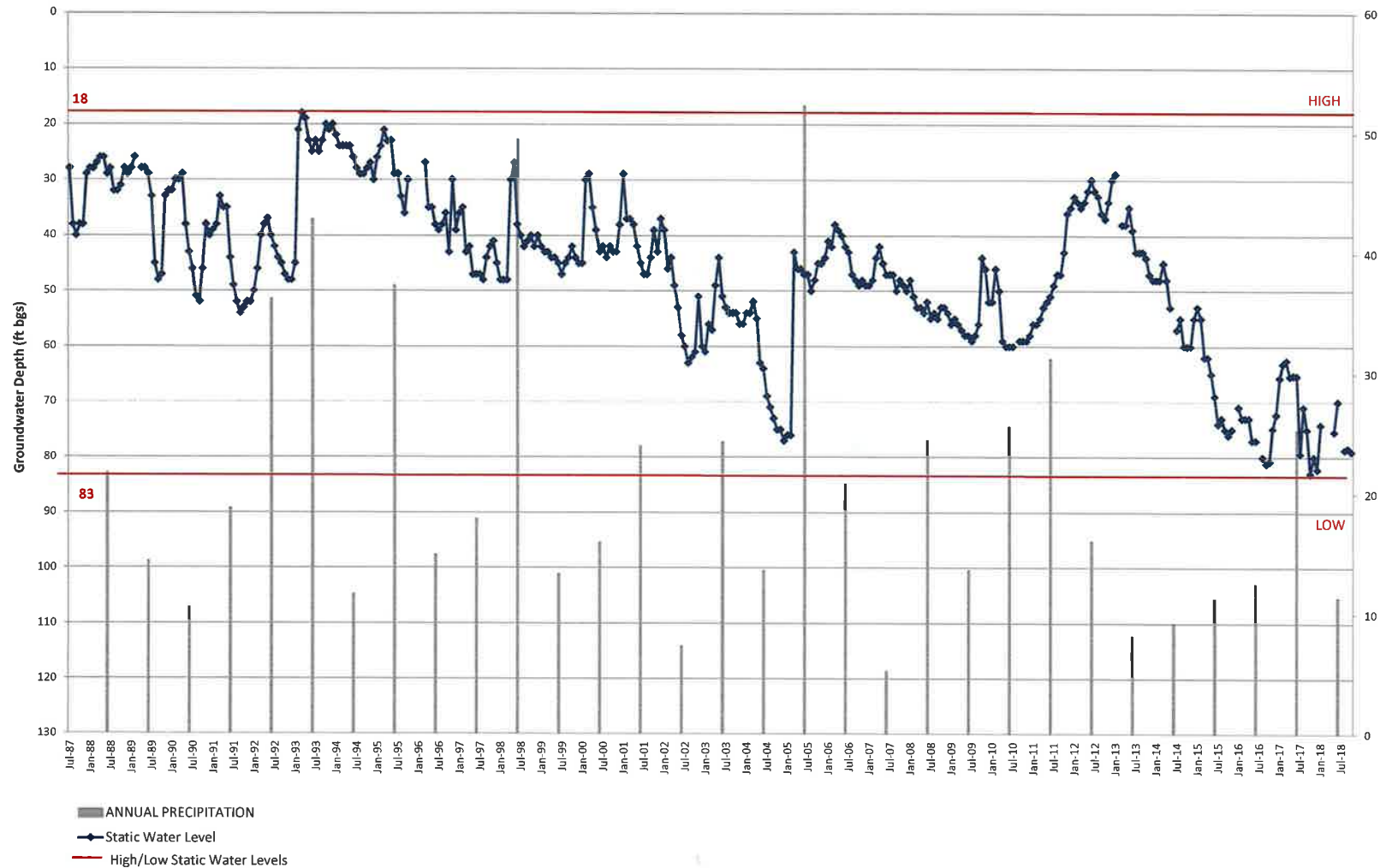
SCV WATER WELL D
STATIC WATER LEVEL VS PRECIPITATION



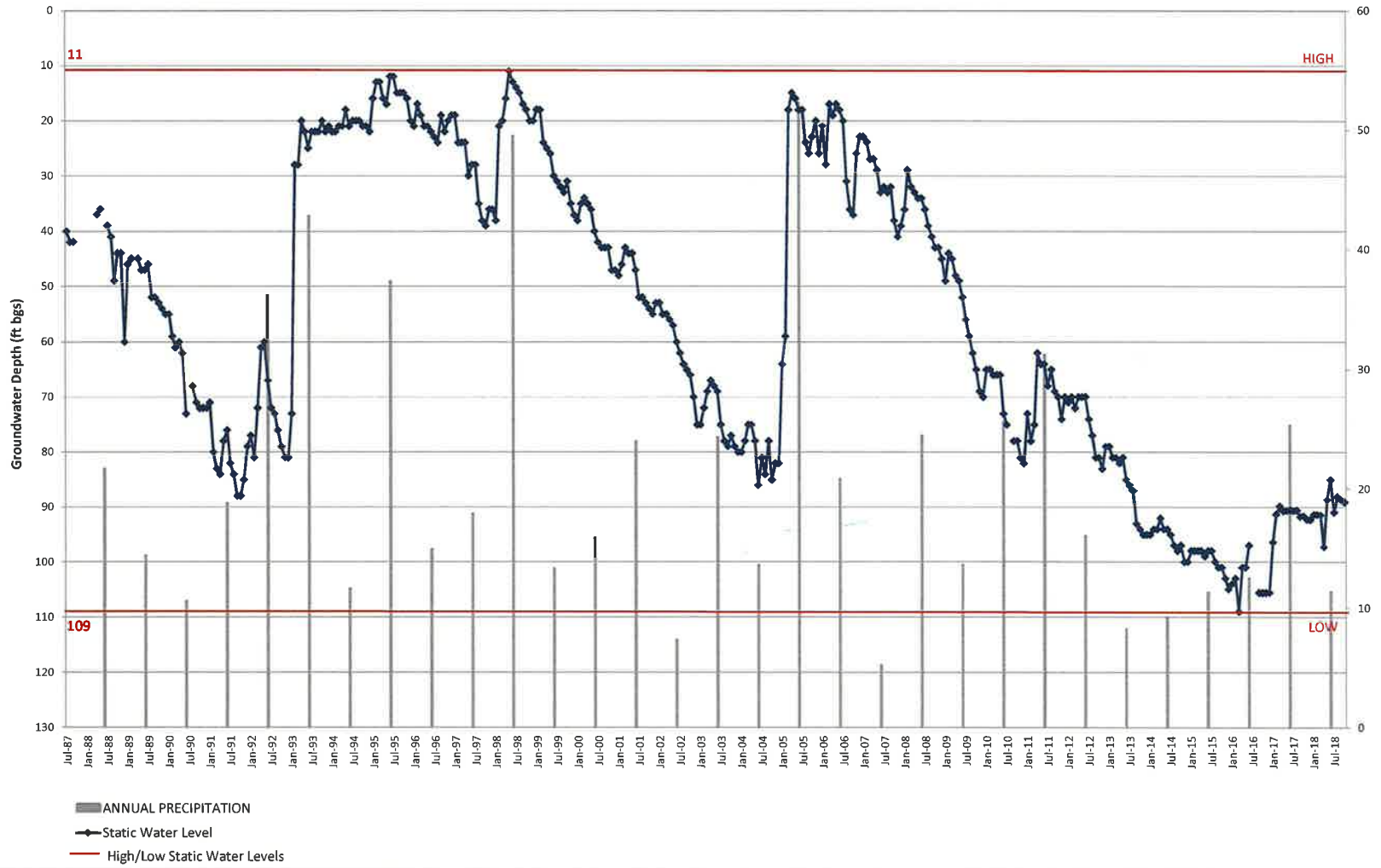
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STATIC WATER LEVEL VS. PRECIPITATION



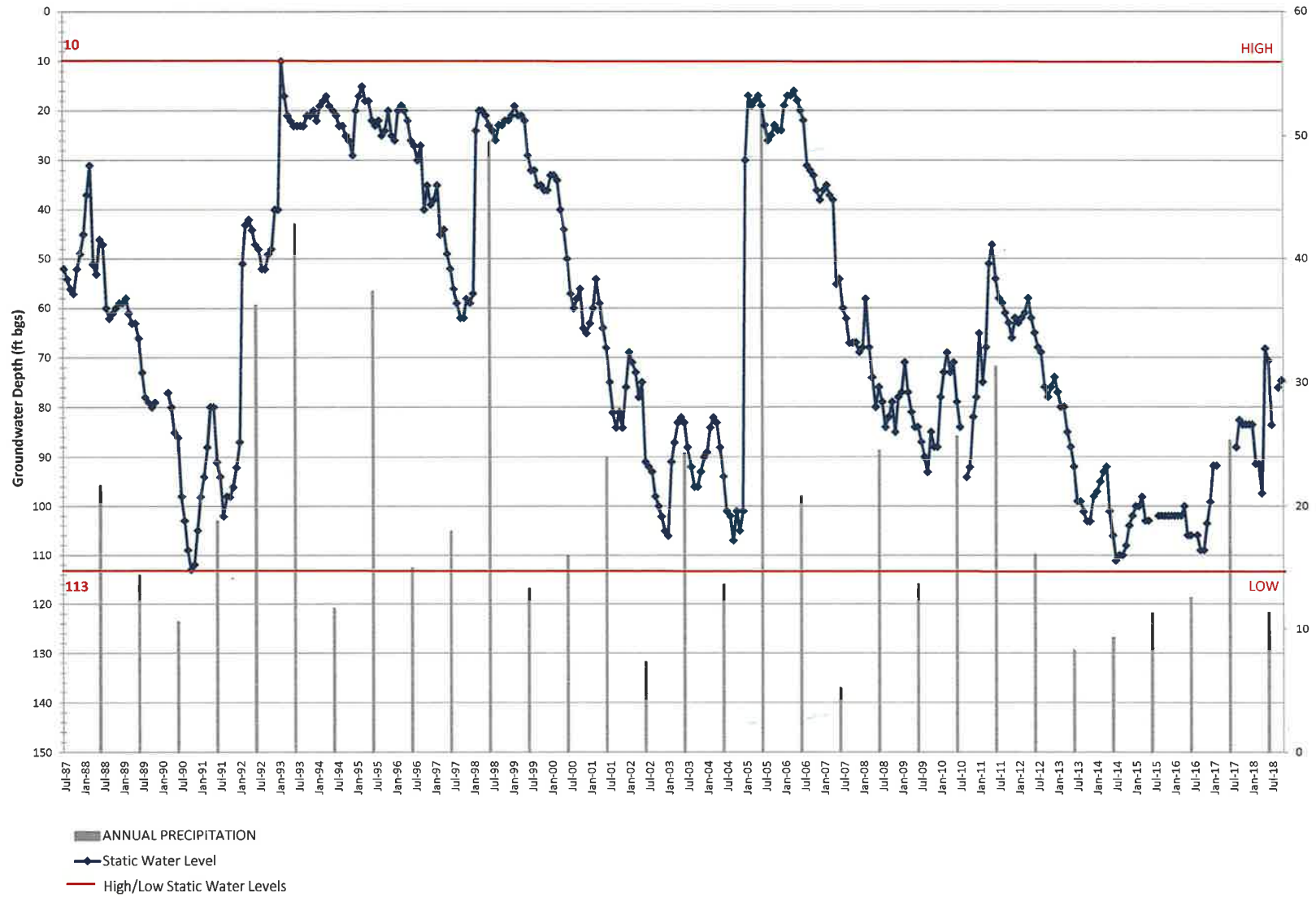
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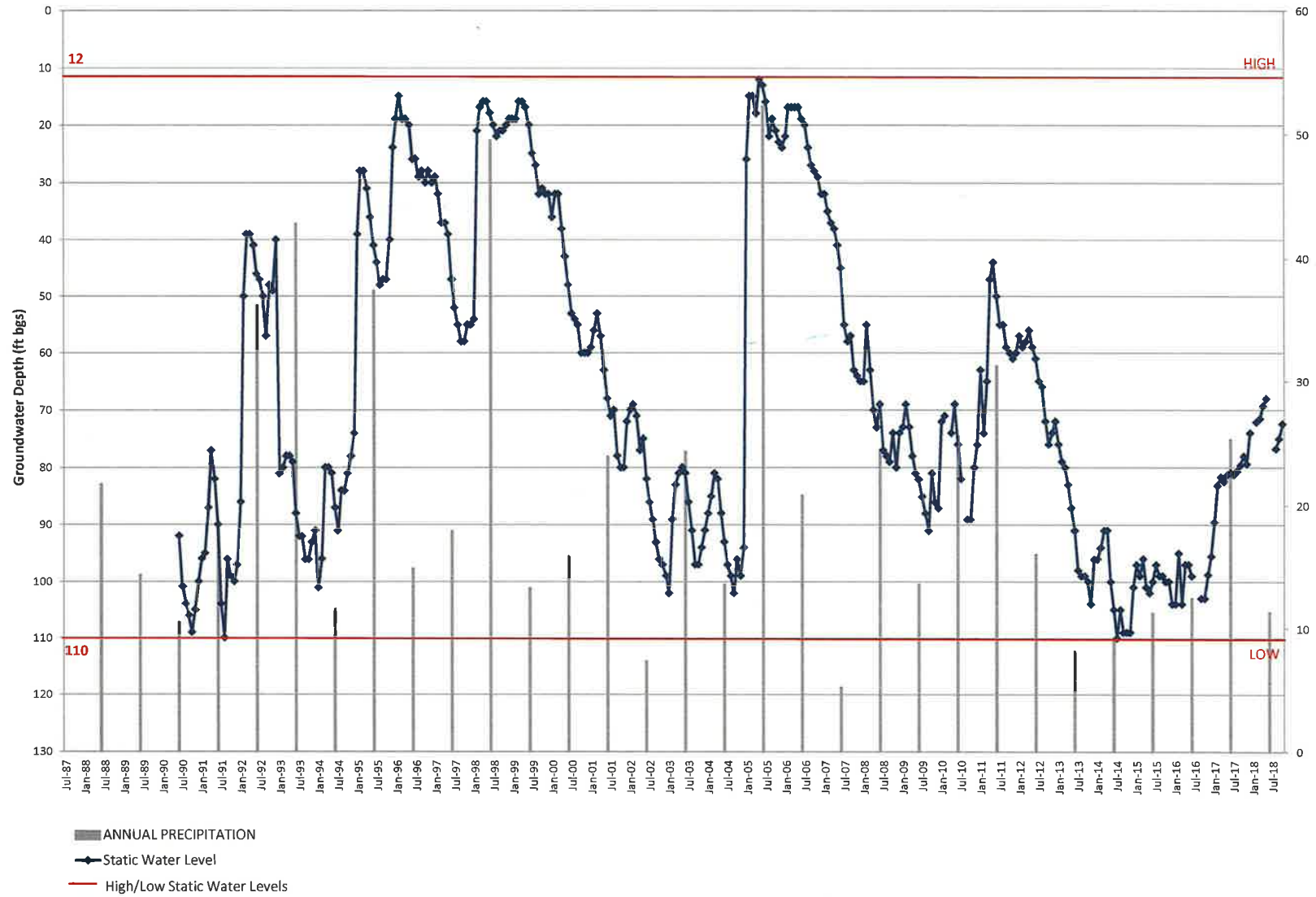
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STATIC WATER LEVEL VS PRECIPITATION



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



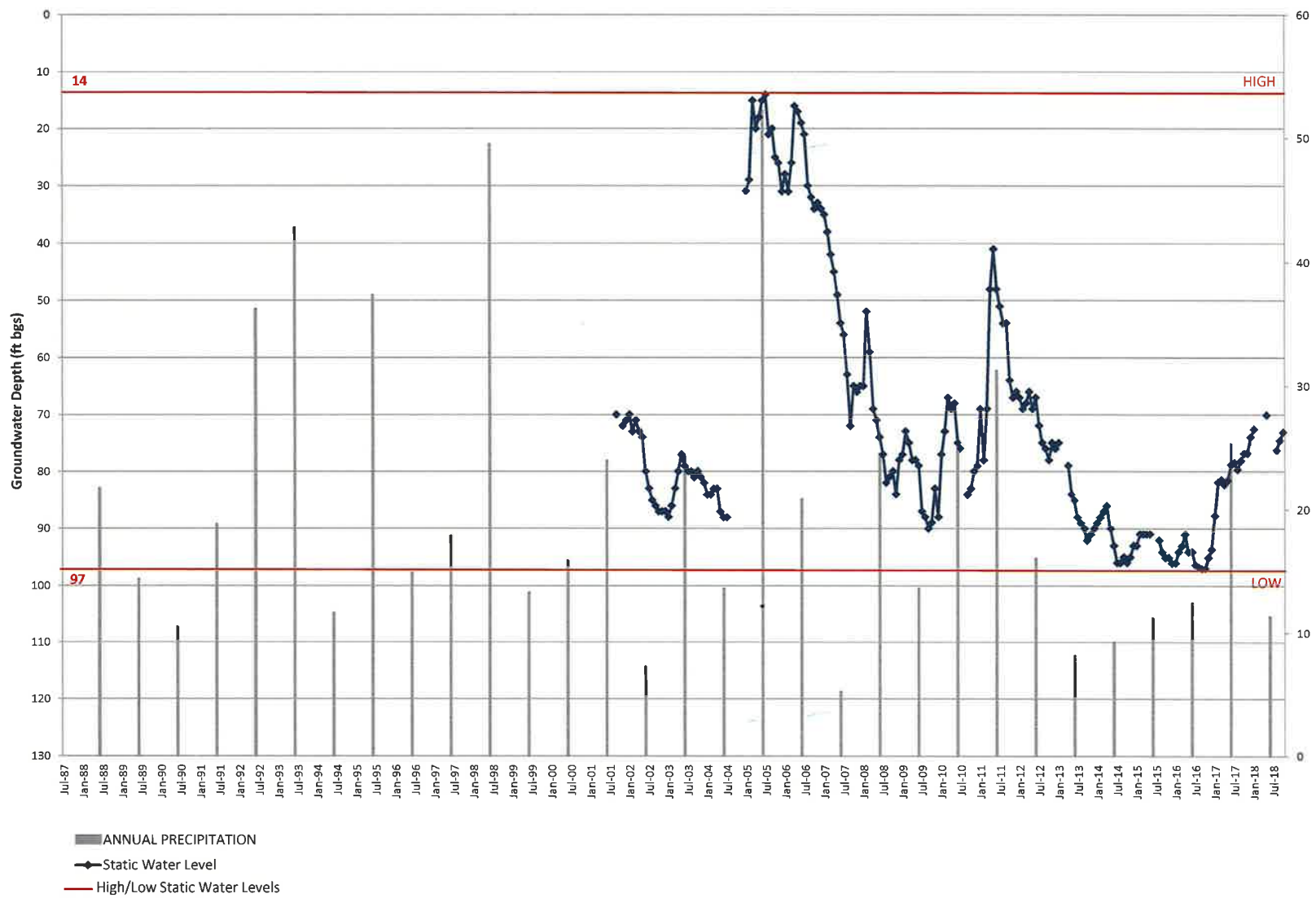
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 STATIC WATER LEVEL VS PRECIPITATION



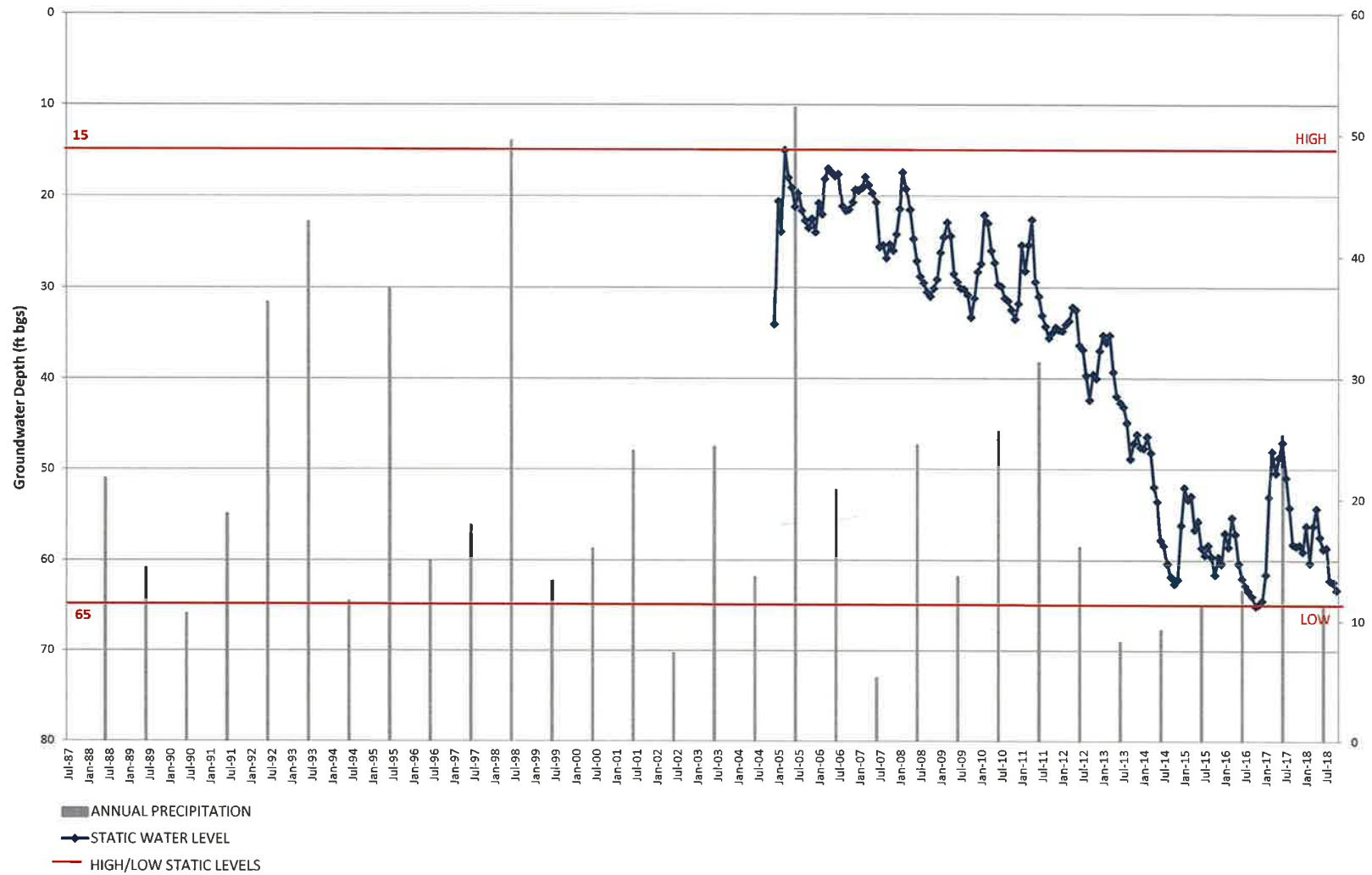
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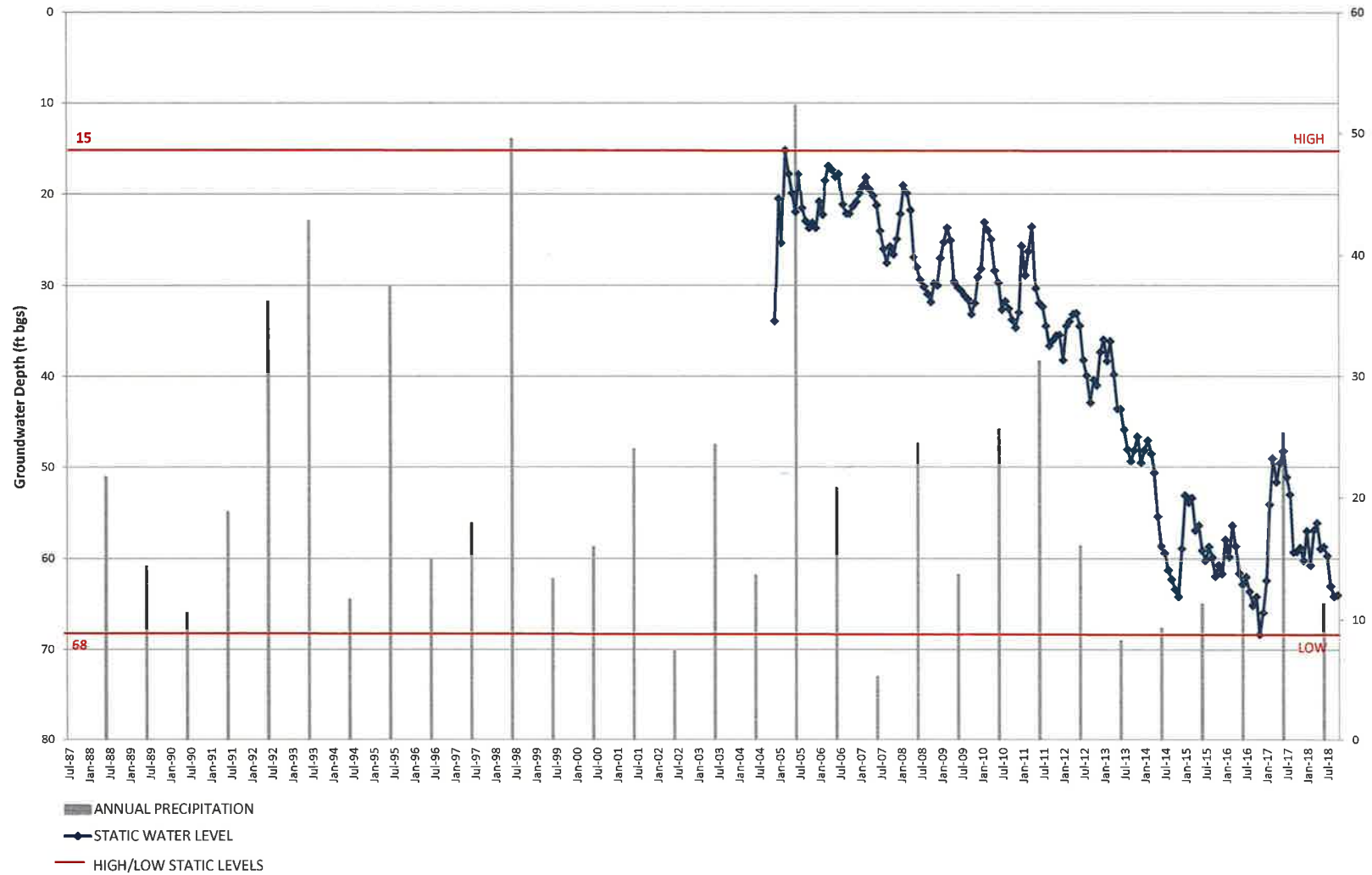
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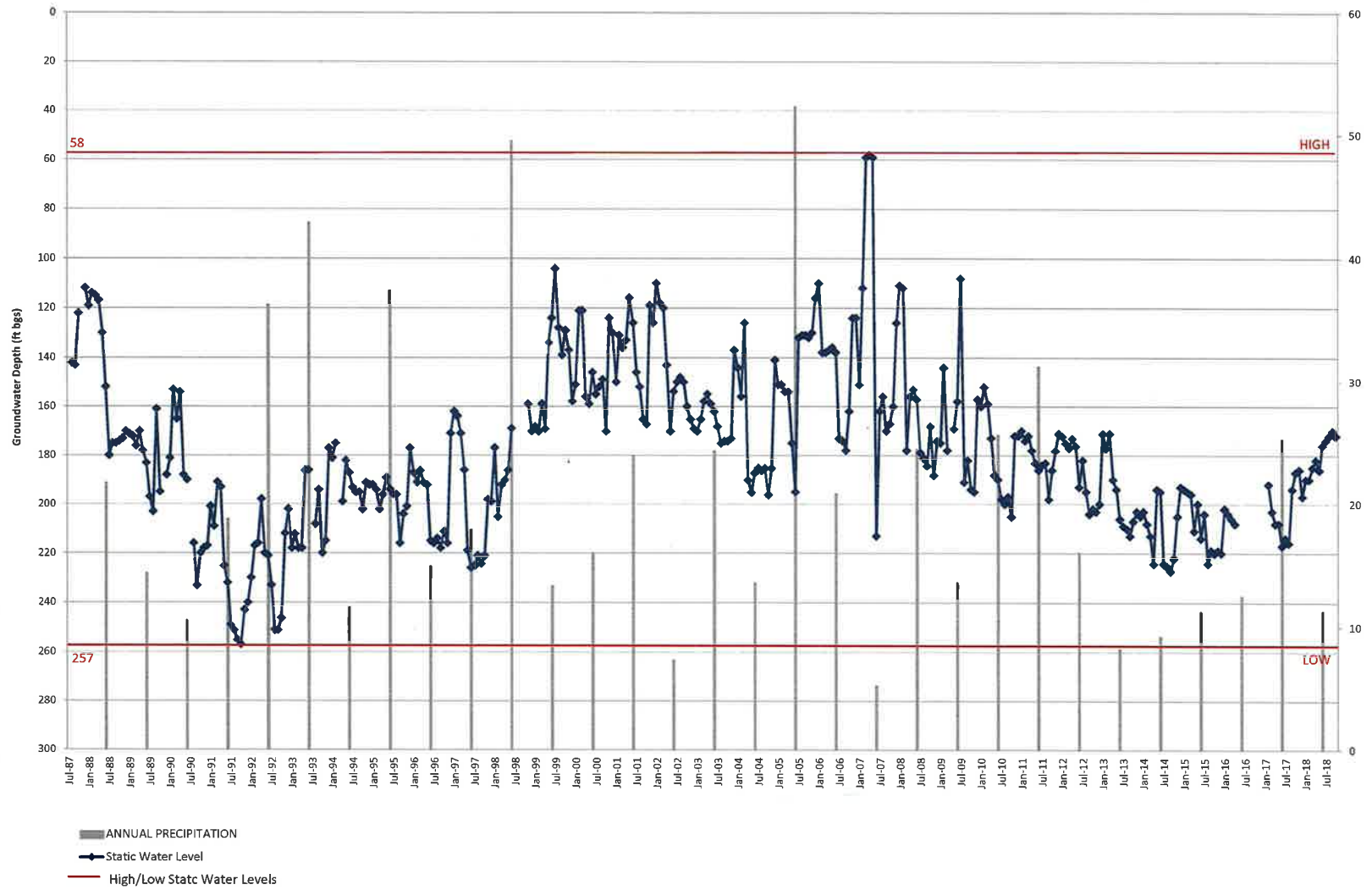
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STATIC WATER LEVEL VS PRECIPITATION



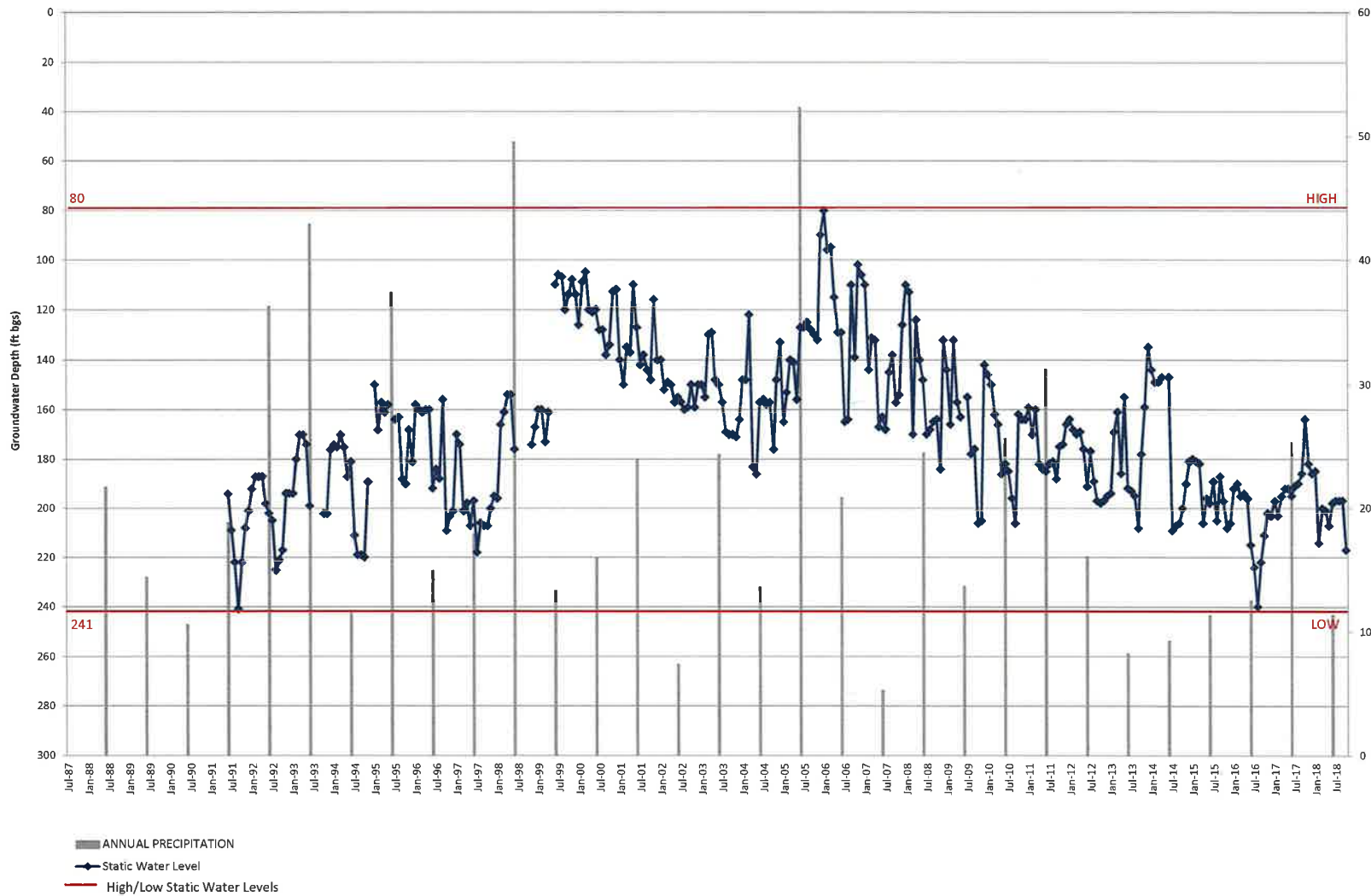
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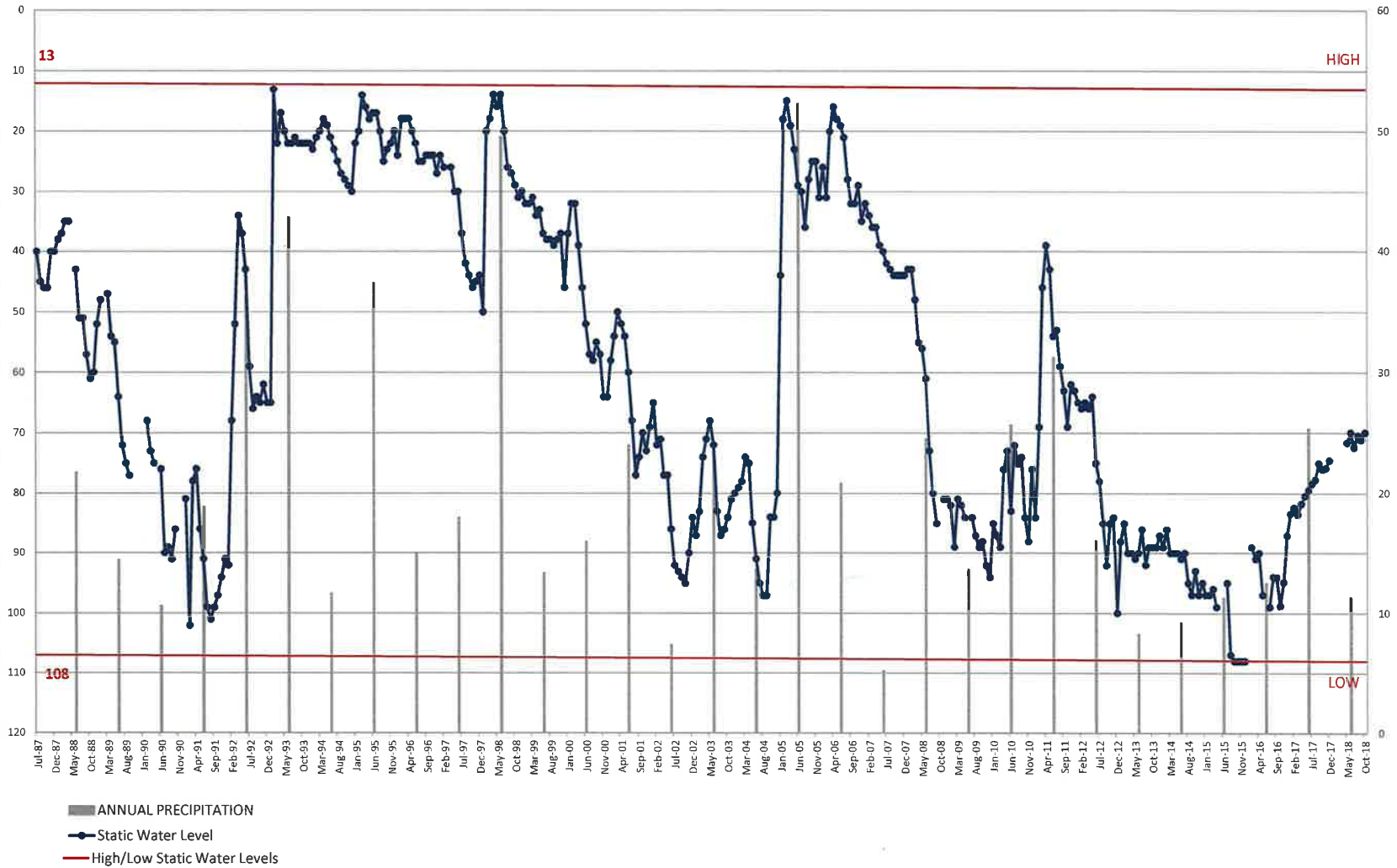
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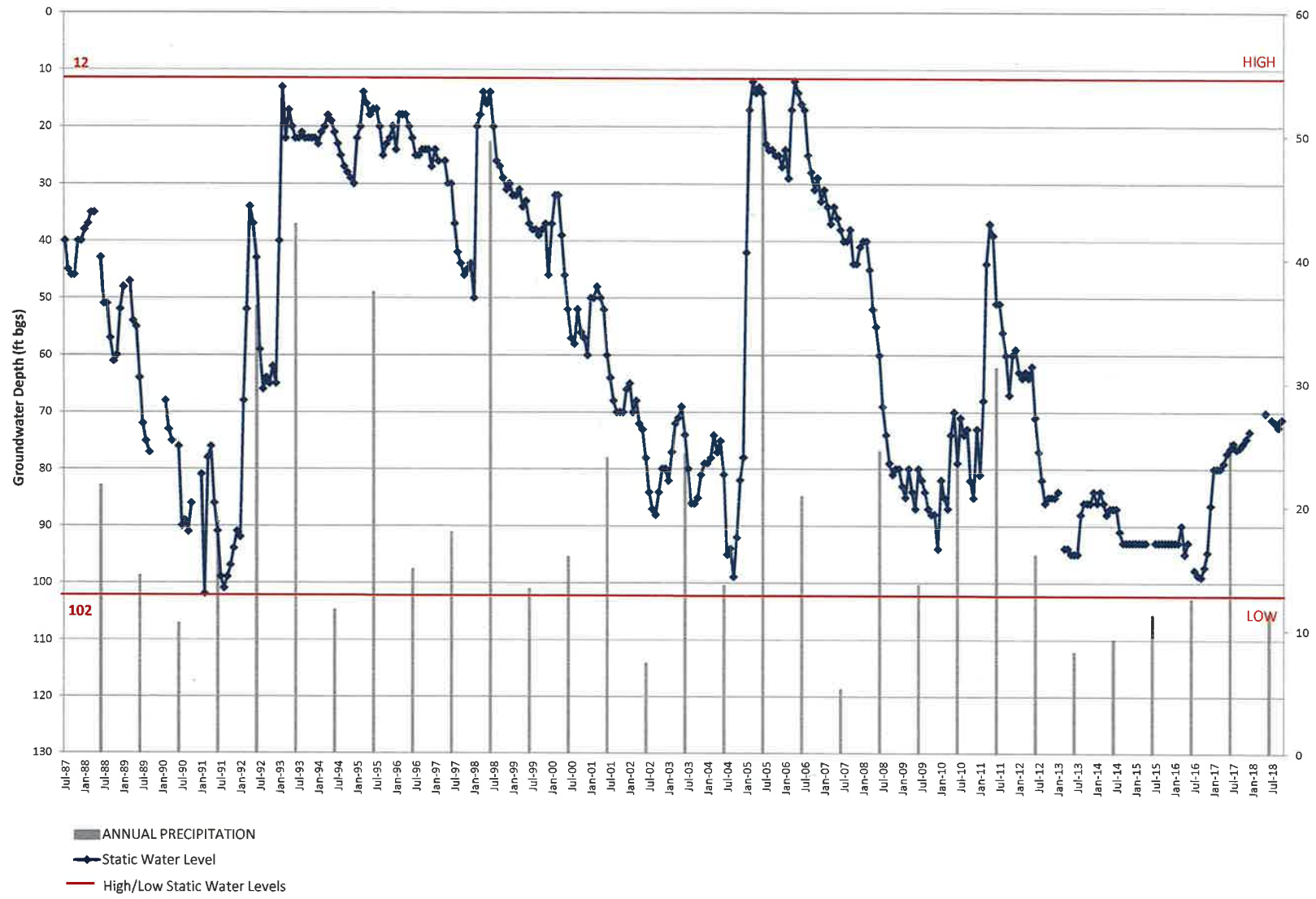
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 STATIC WATER LEVEL VS PRECIPITATION



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



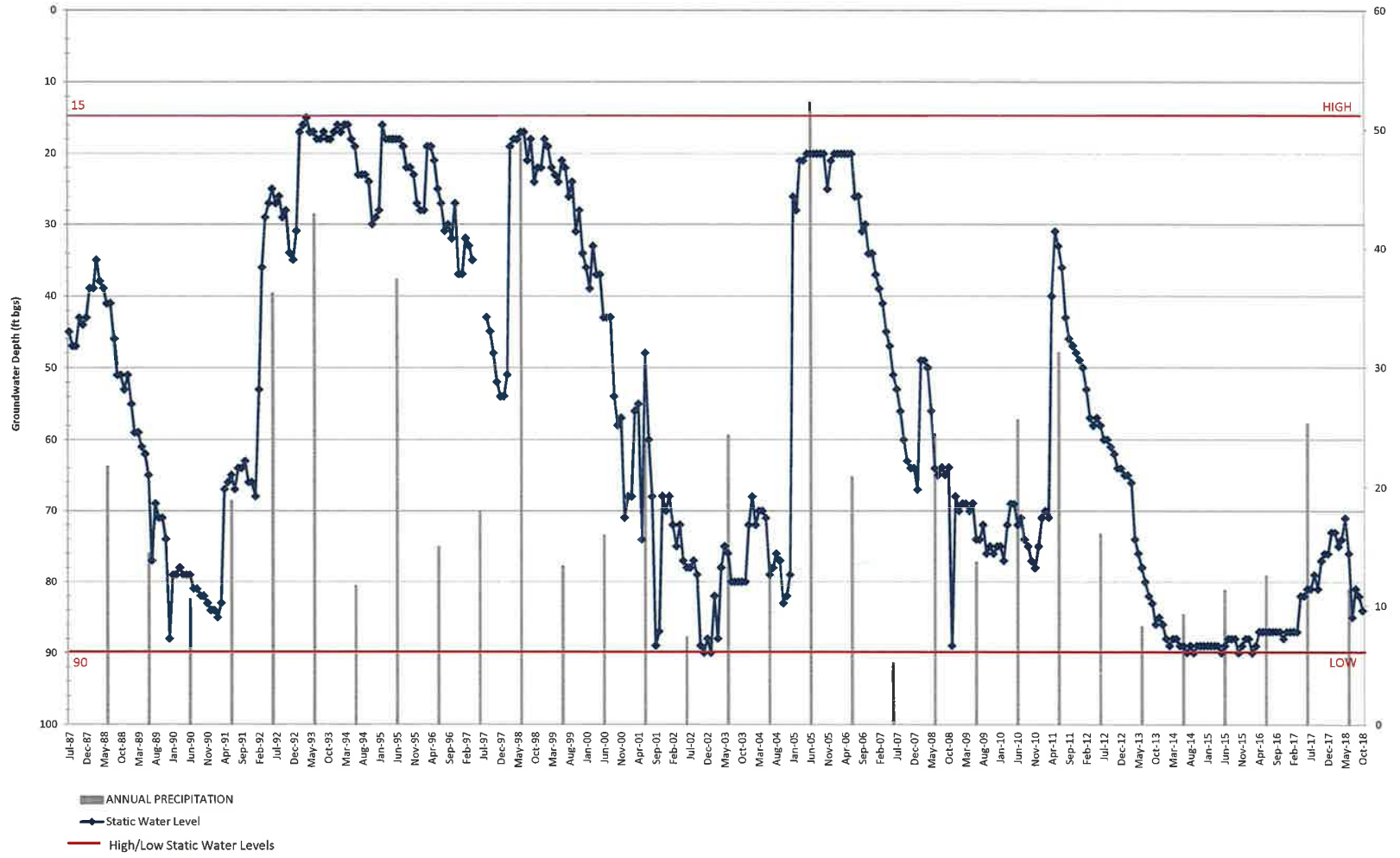
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 STATIC WATER LEVEL VS PRECIPITATION



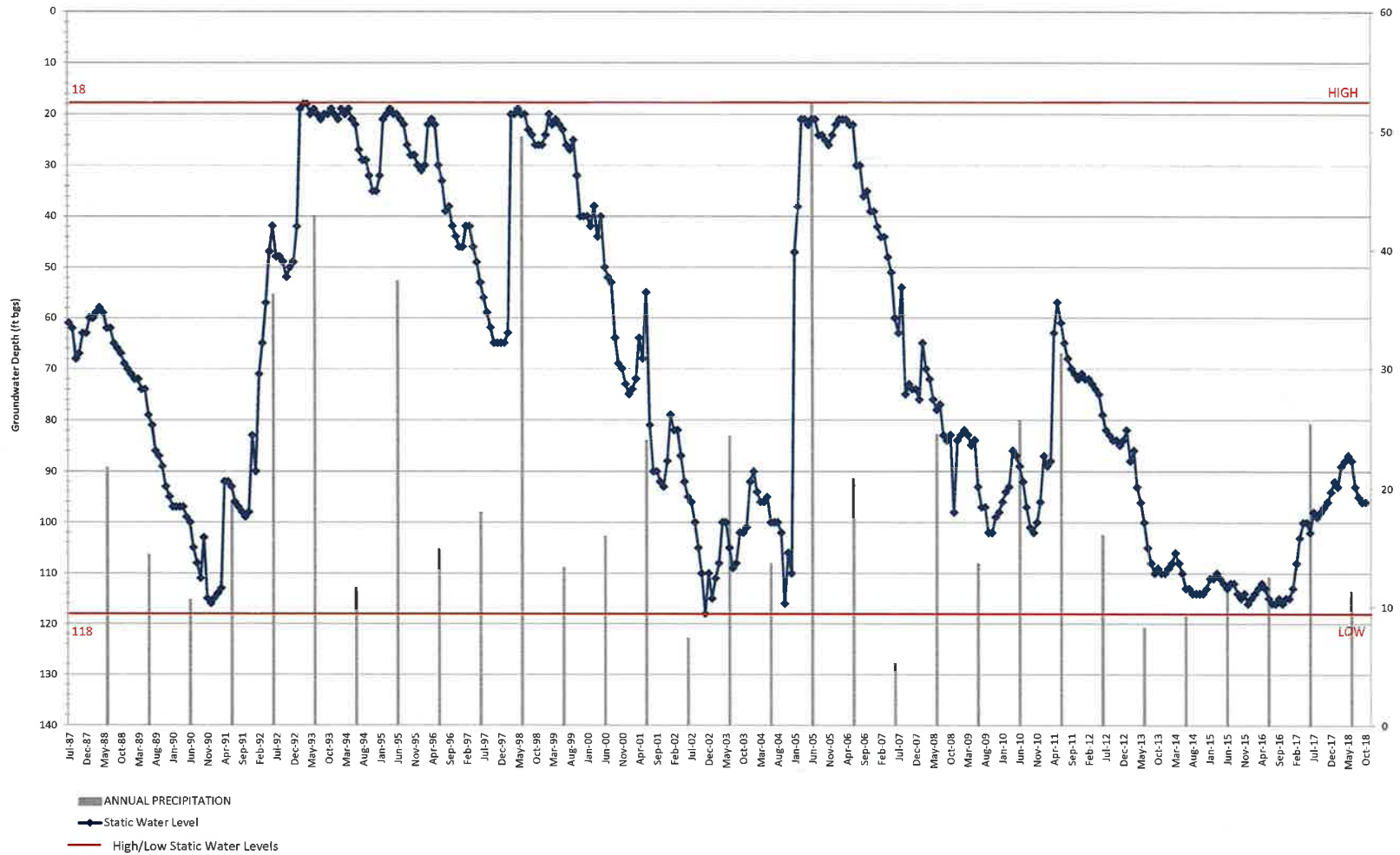
SCV WATER WELL NORTH OAKS WEST #9
 STATIC WATER LEVEL VS PRECIPITATION



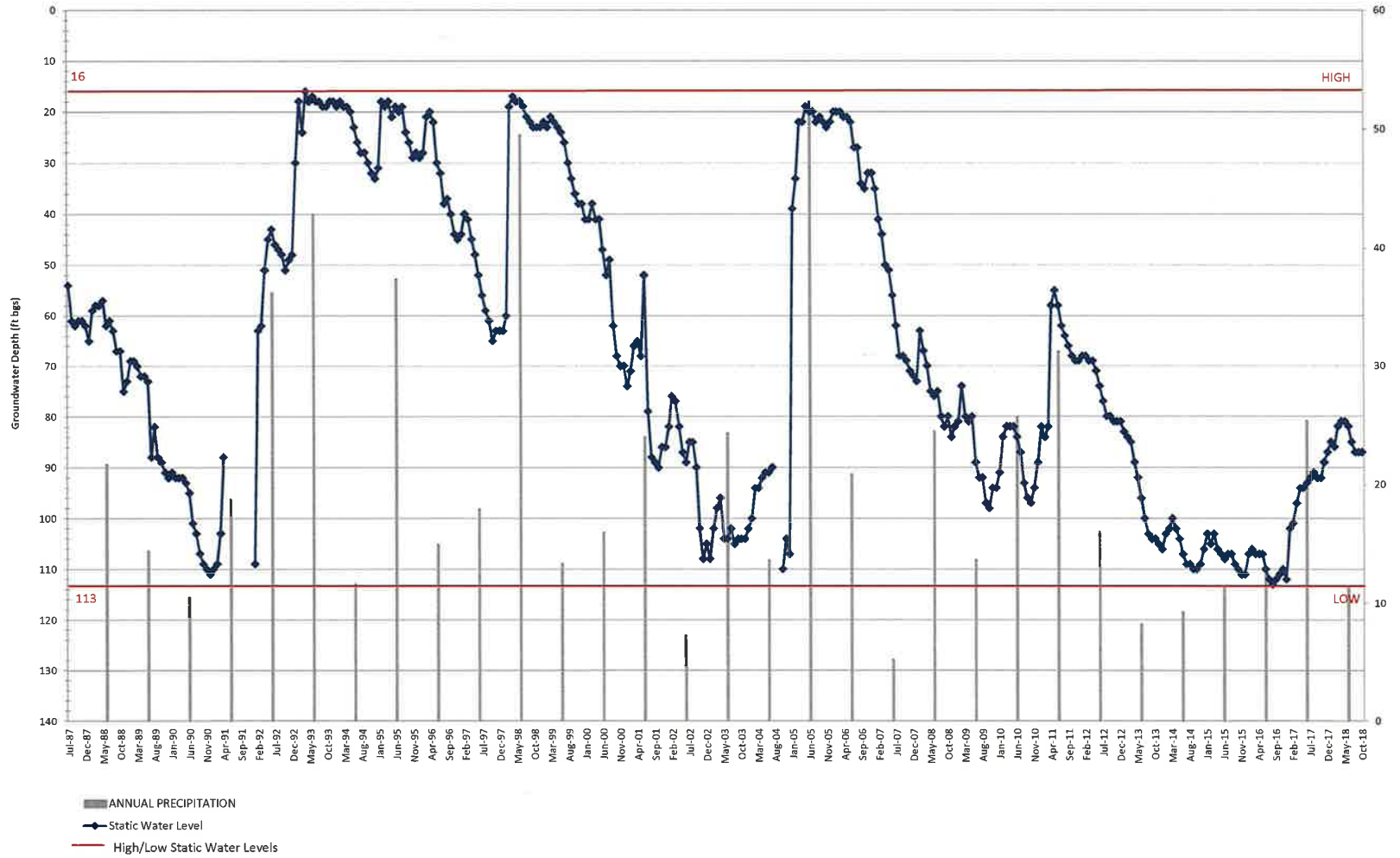
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 STATIC WATER LEVEL VS PRECIPITATION



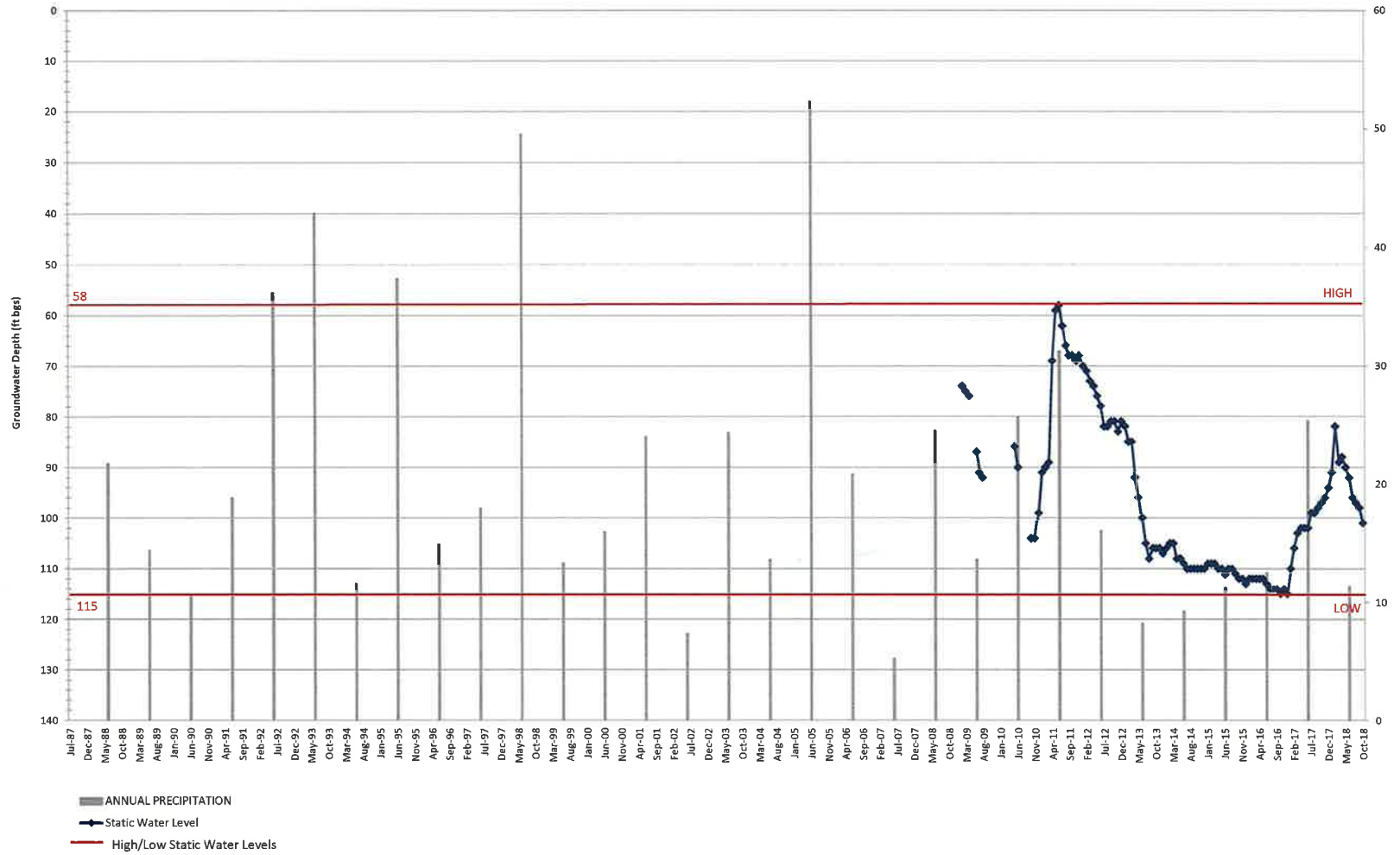
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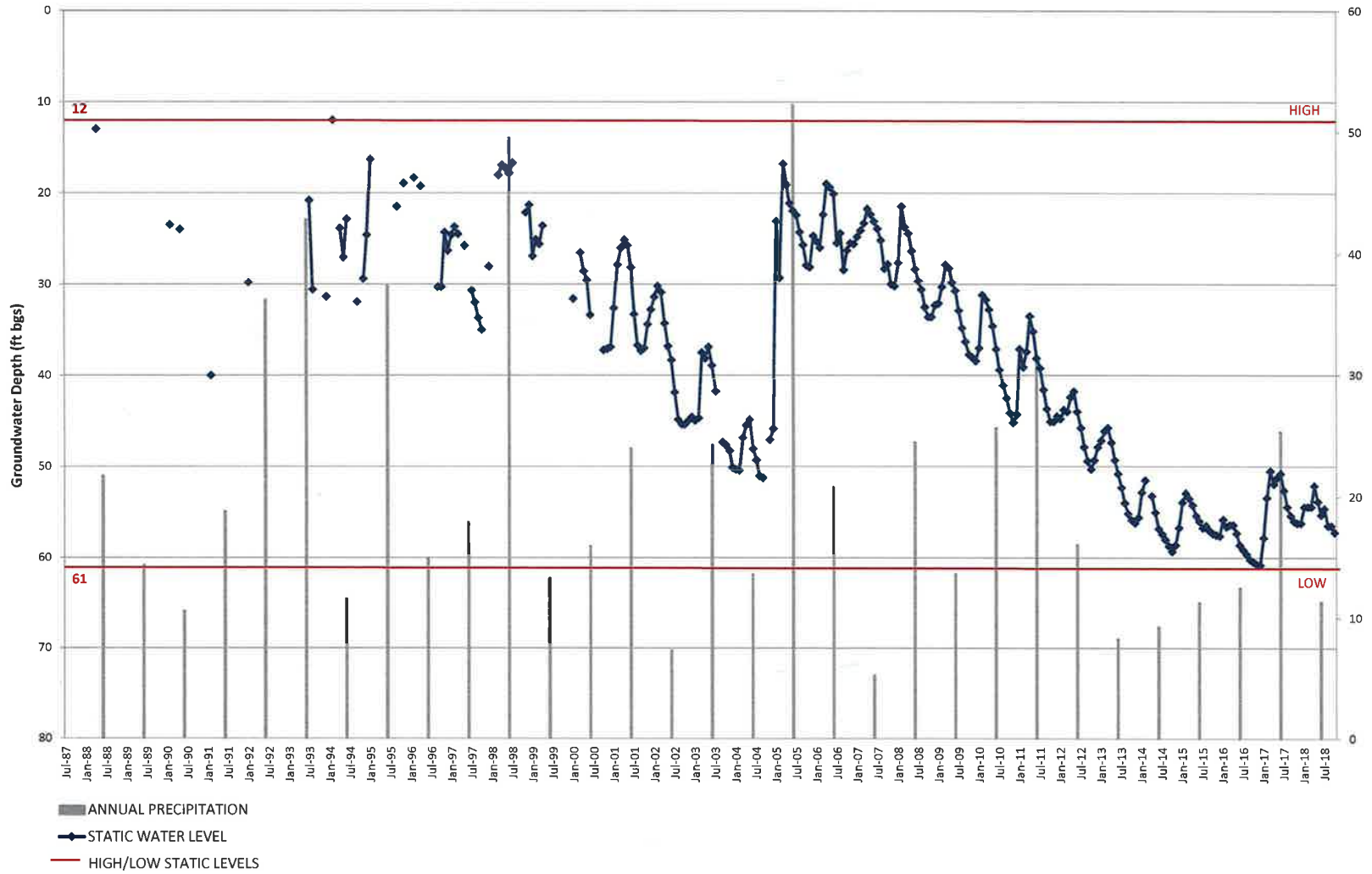
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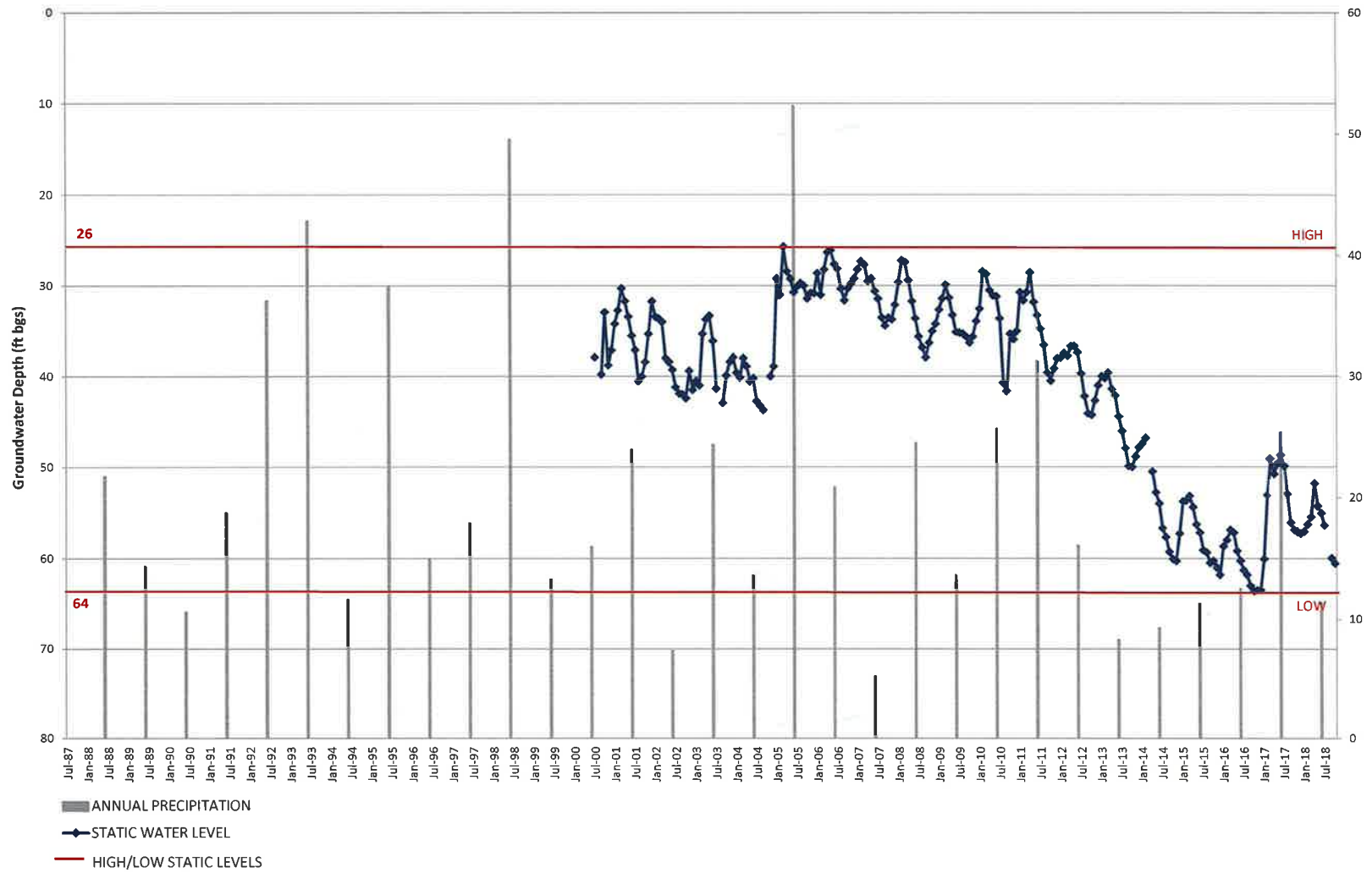
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 STATIC WATER LEVEL VS PRECIPITATION



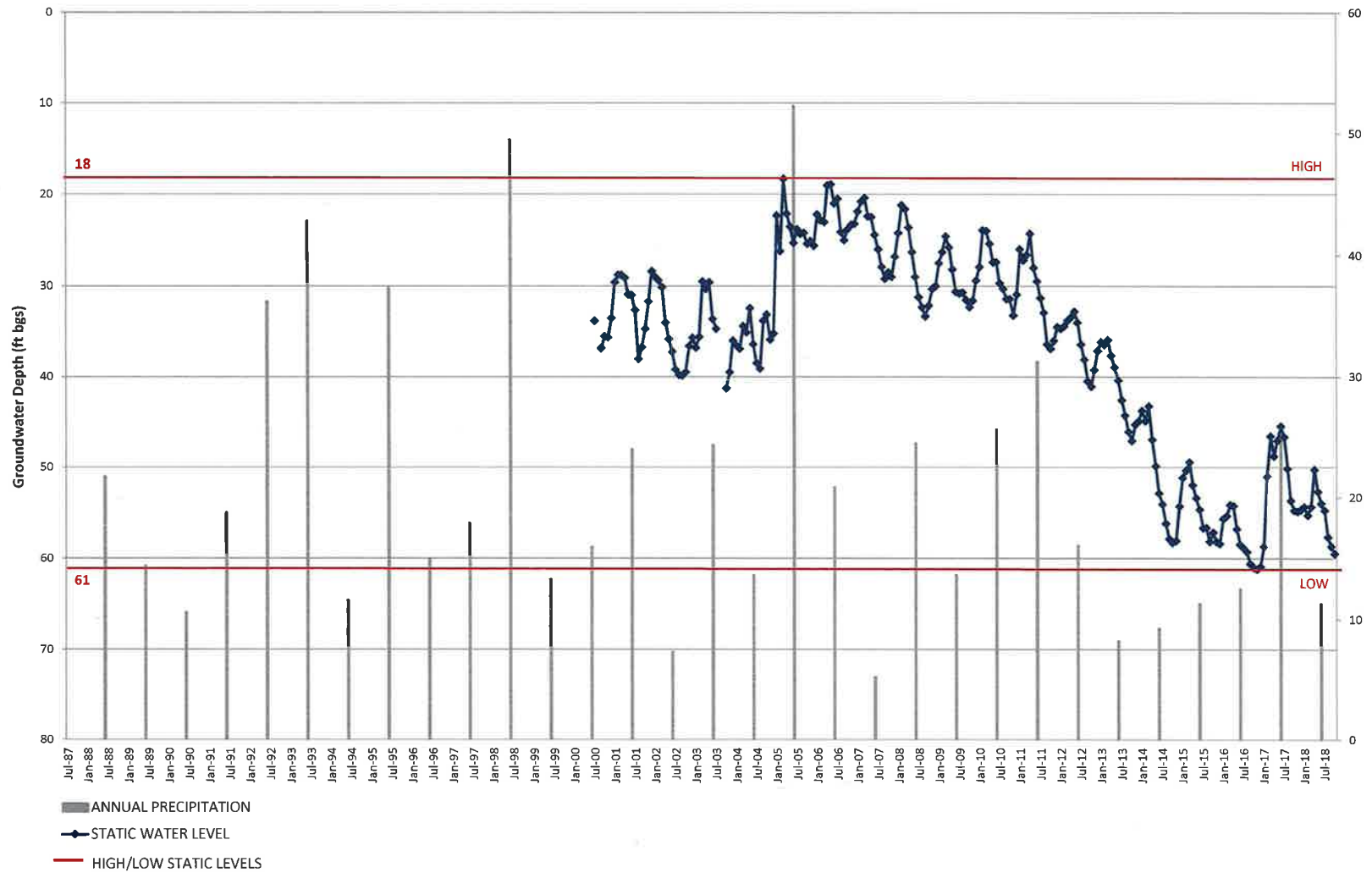
SCV WATER WELL Q2
STATIC WATER LEVEL VS PRECIPITATION



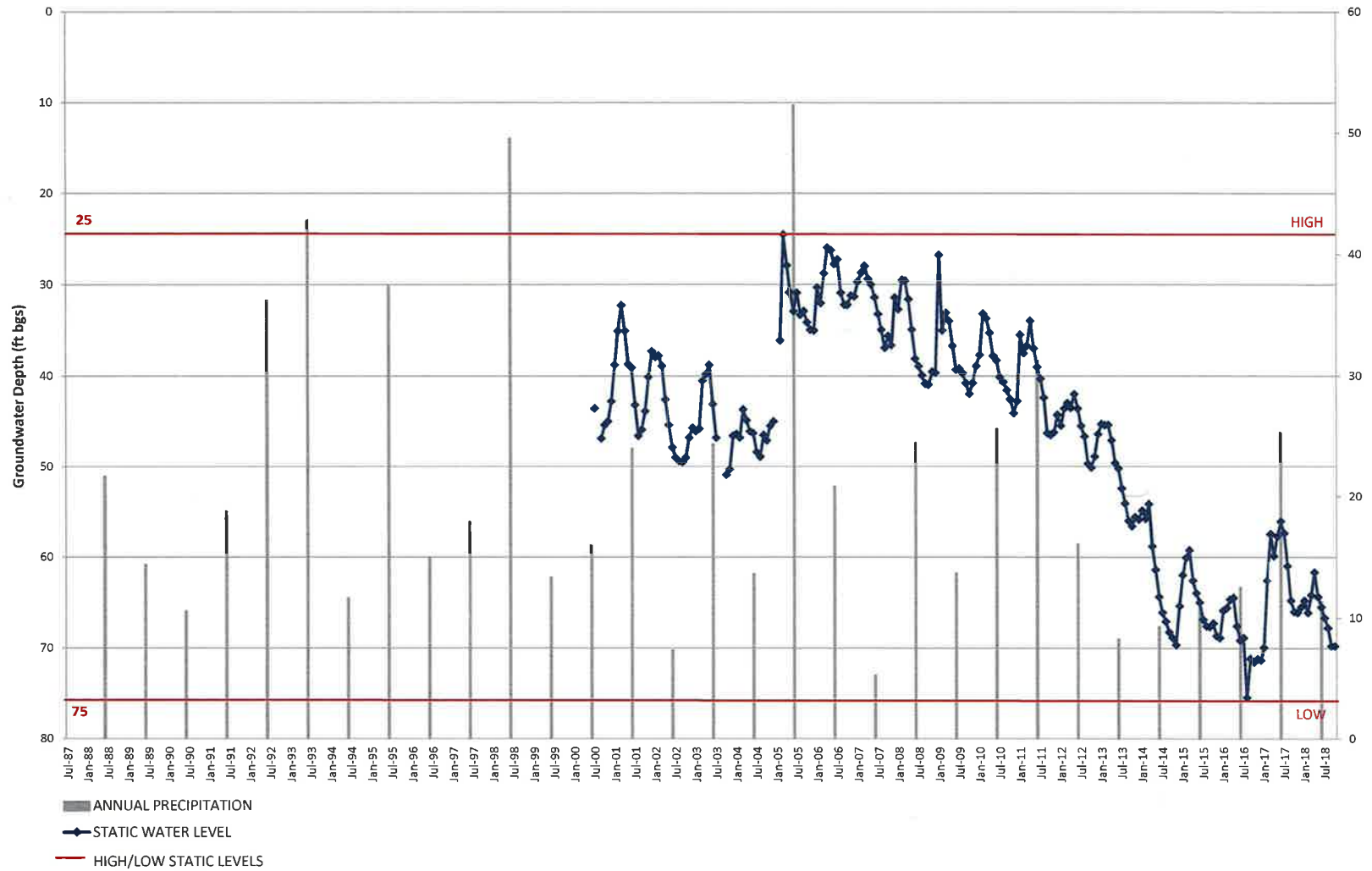
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STATIC WATER LEVEL VS PRECIPITATION



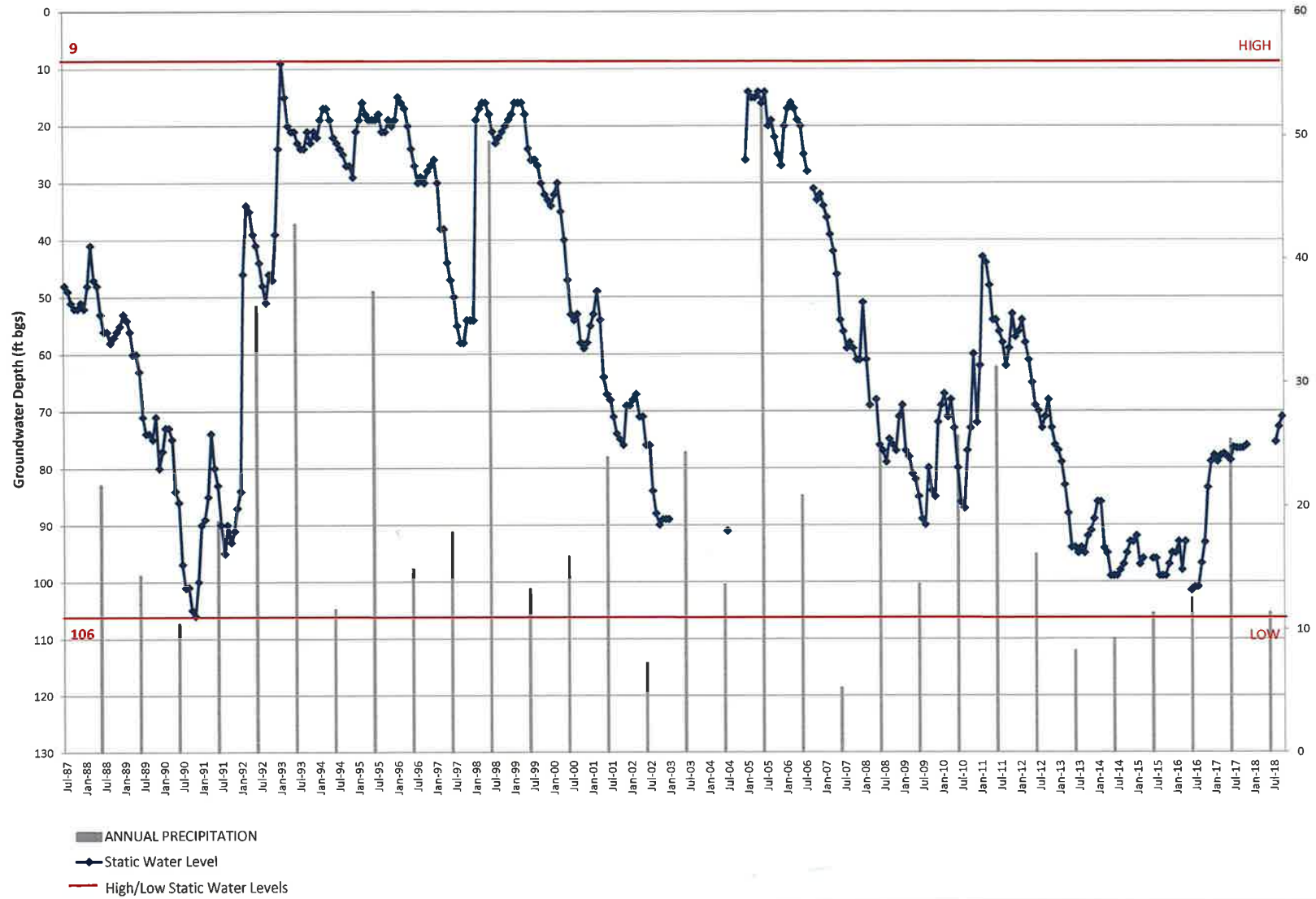
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STATIC WATER LEVEL VS PRECIPITATION



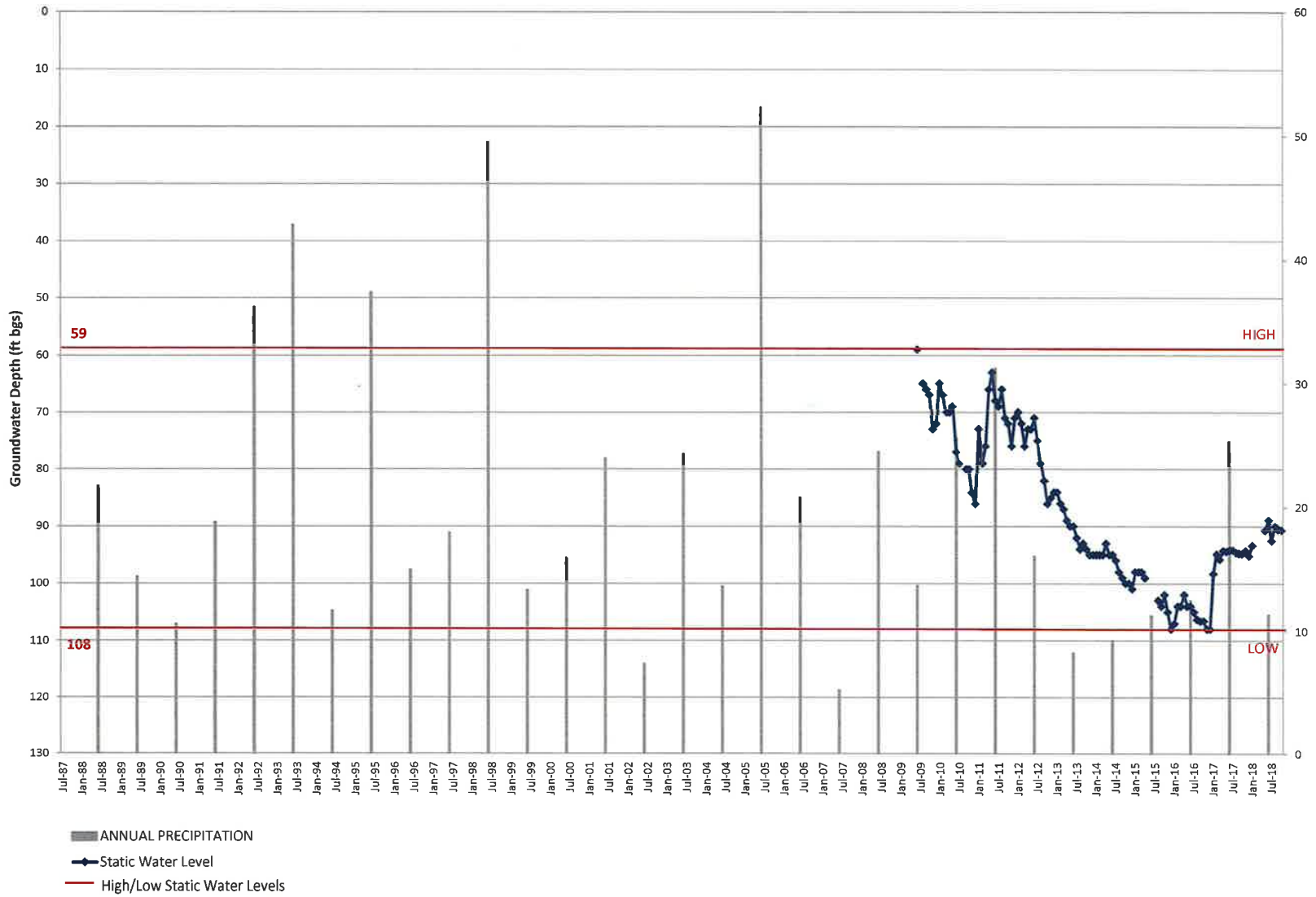
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 STATIC WATER LEVEL VS PRECIPITATION



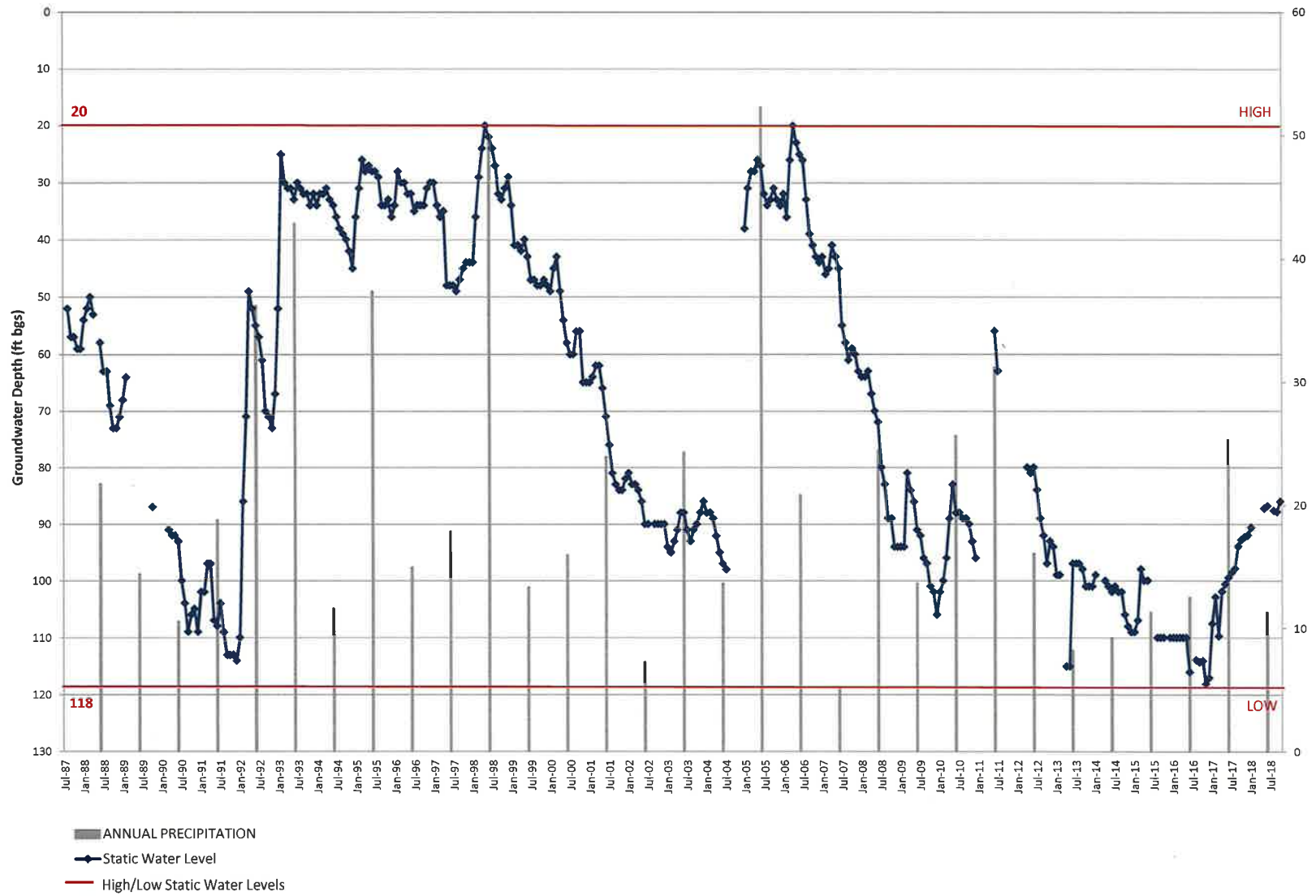
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 STATIC WATER LEVEL VS PRECIPITATION



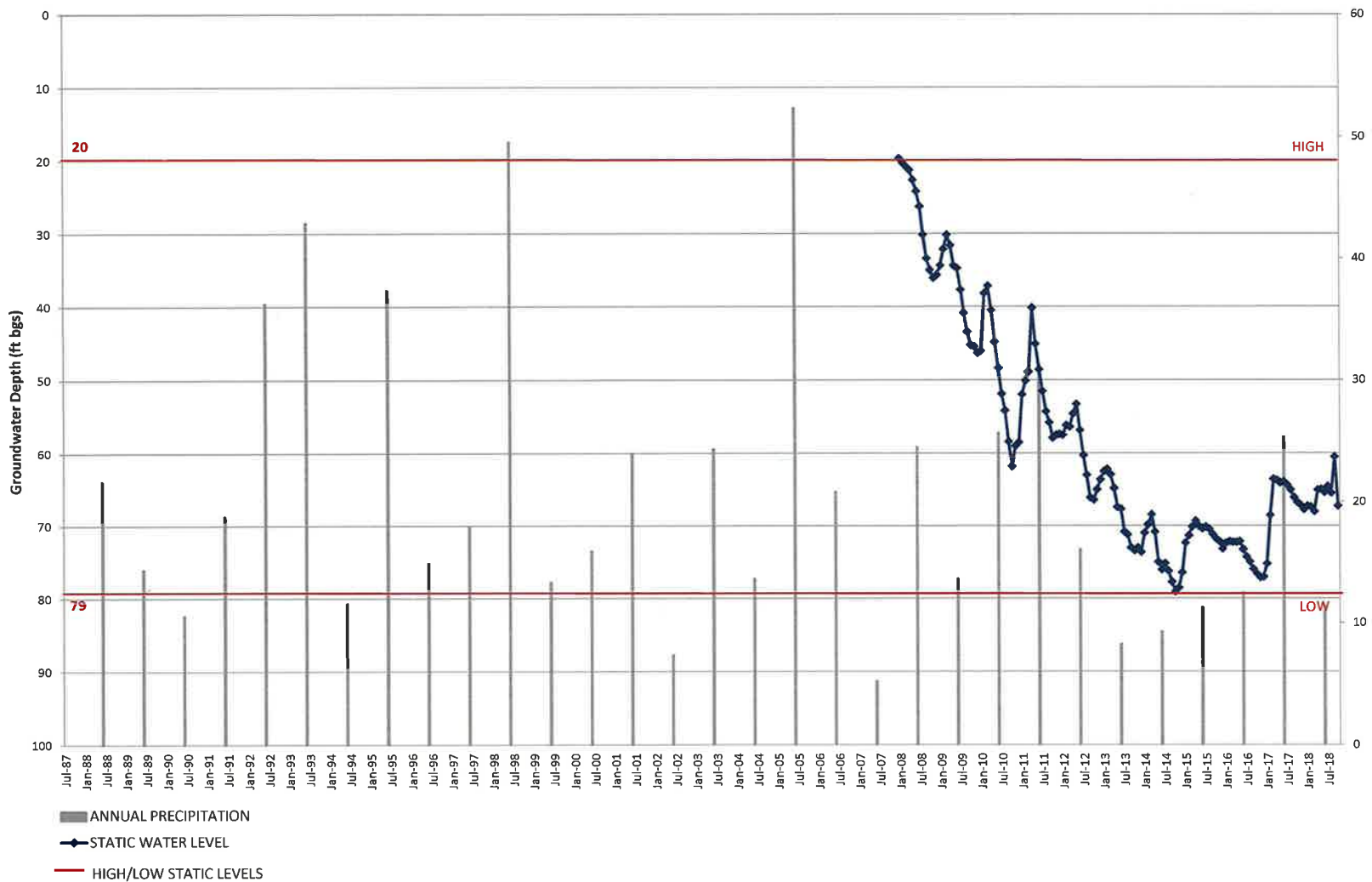
SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION



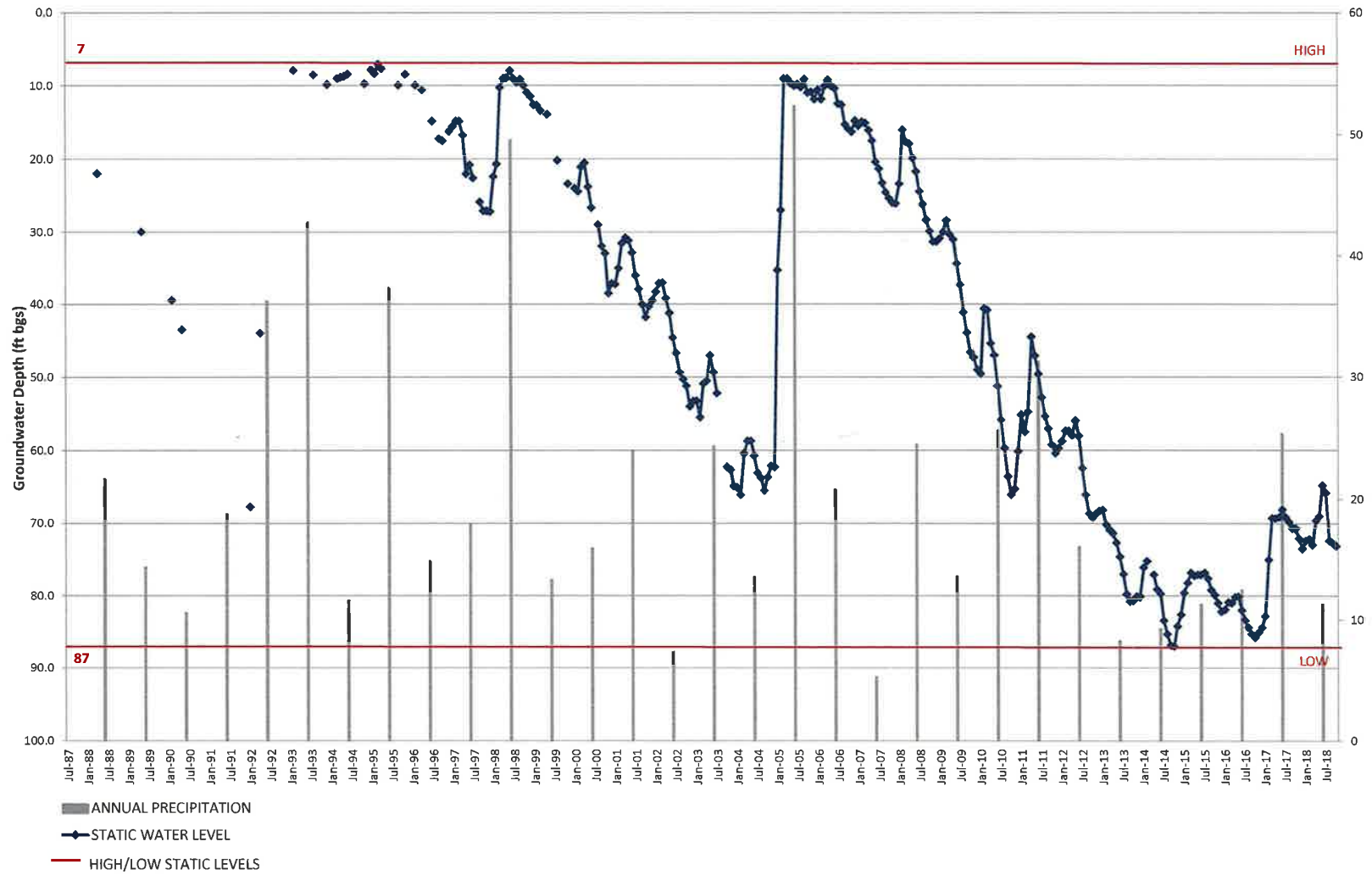
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STATIC WATER LEVEL VS PRECIPITATION



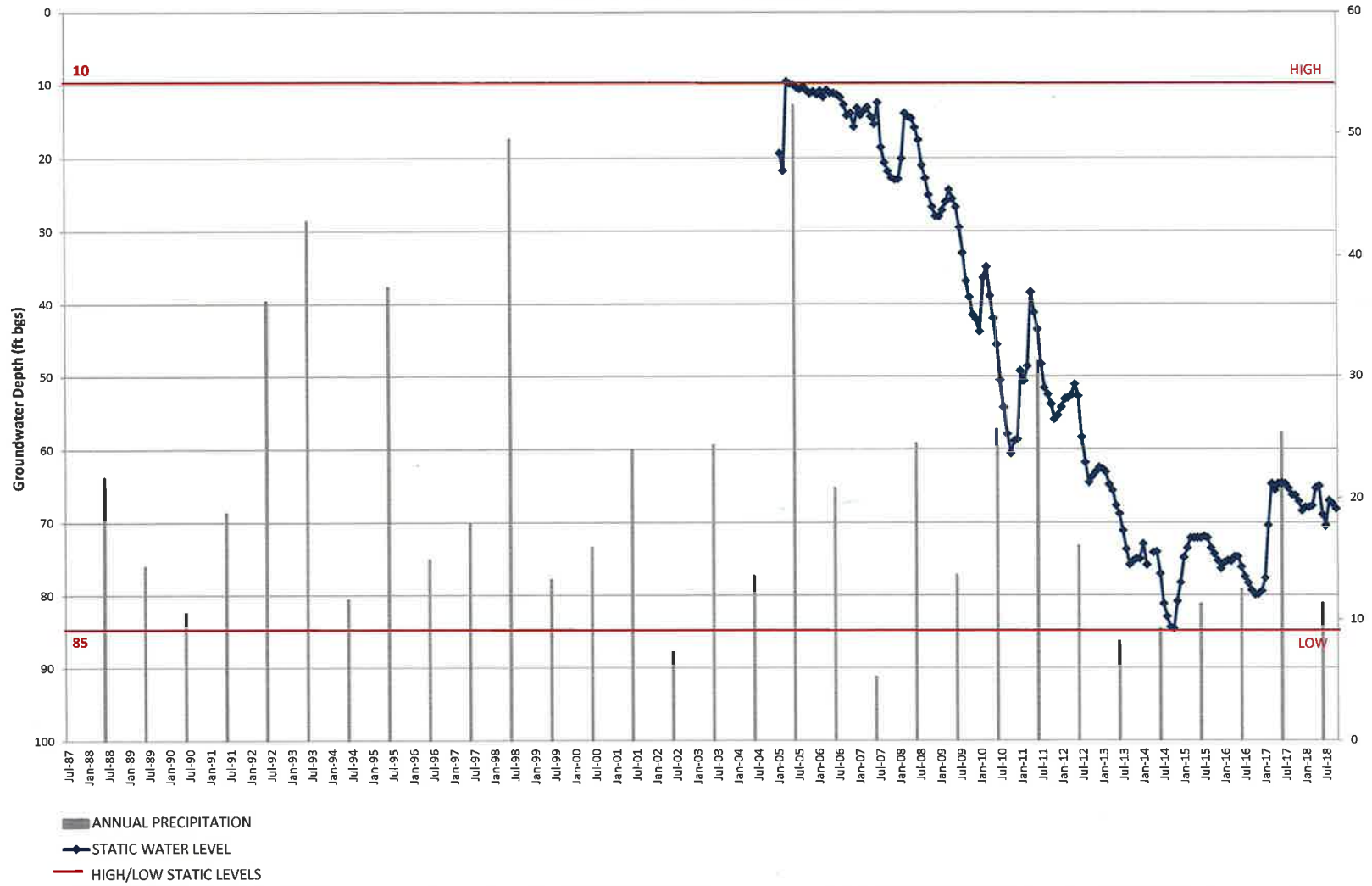
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 STATIC WATER LEVEL VS PRECIPITATION



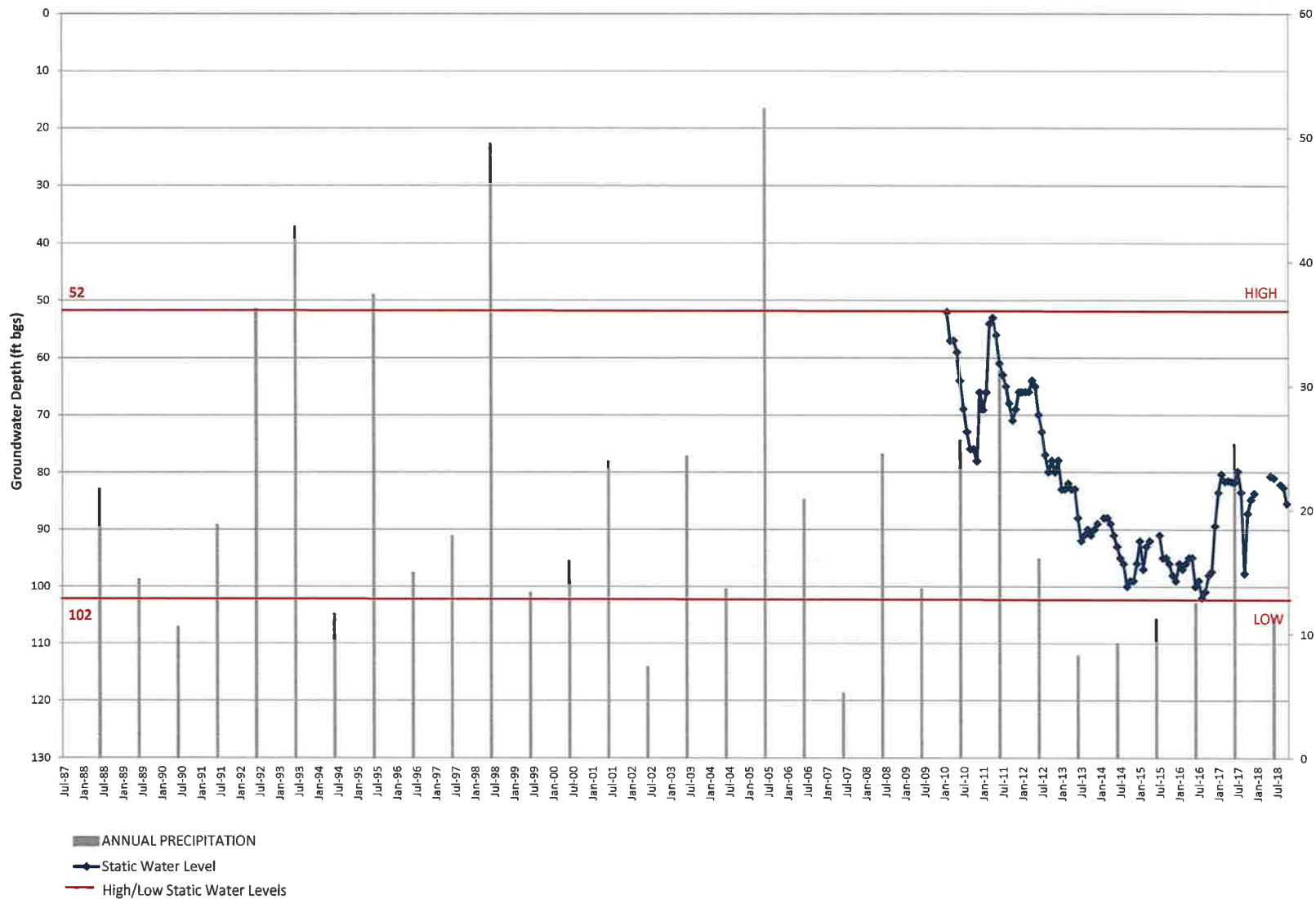
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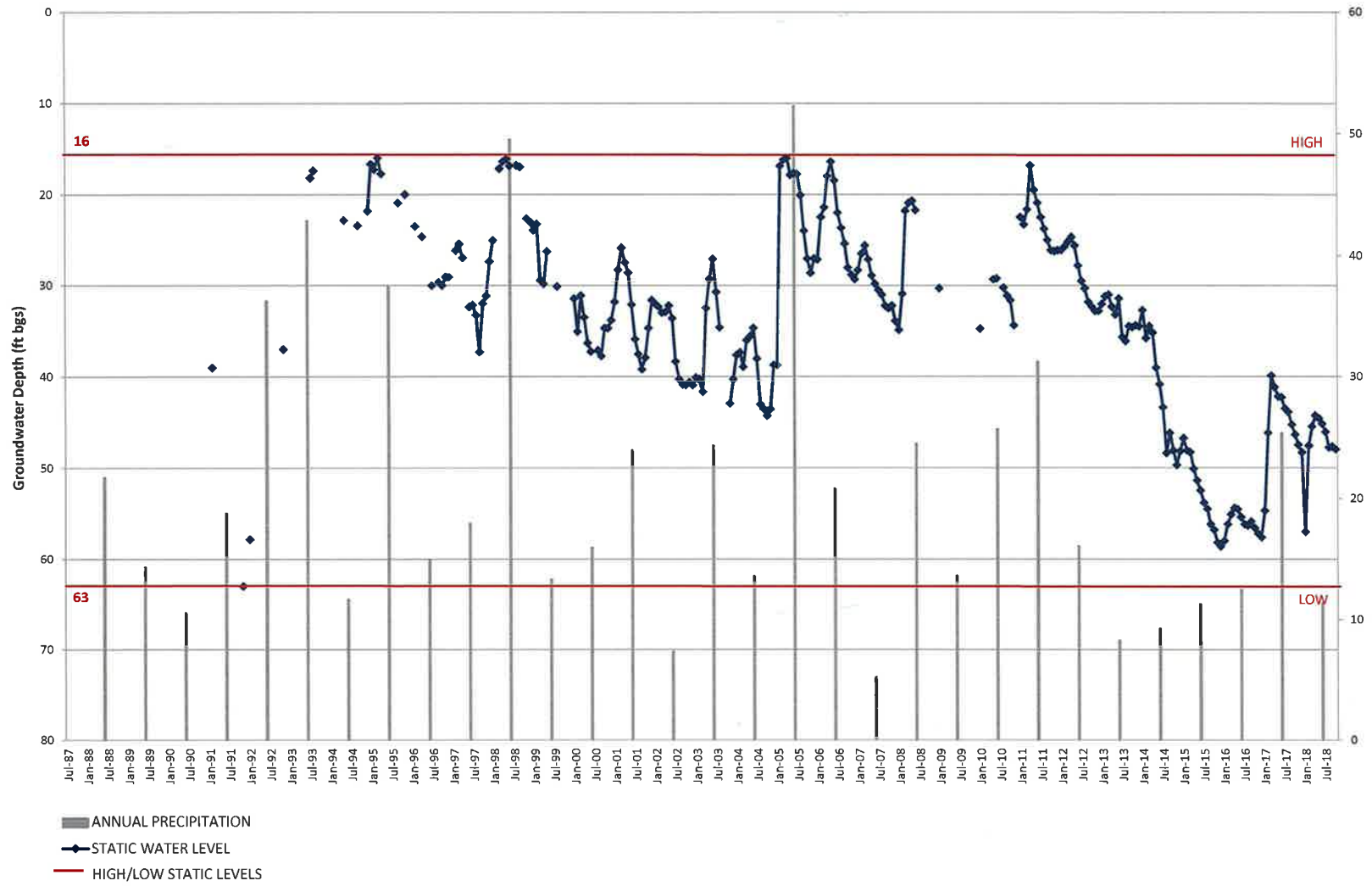
SCV WATER WELL U6
 STATIC WATER LEVEL VS PRECIPITATION



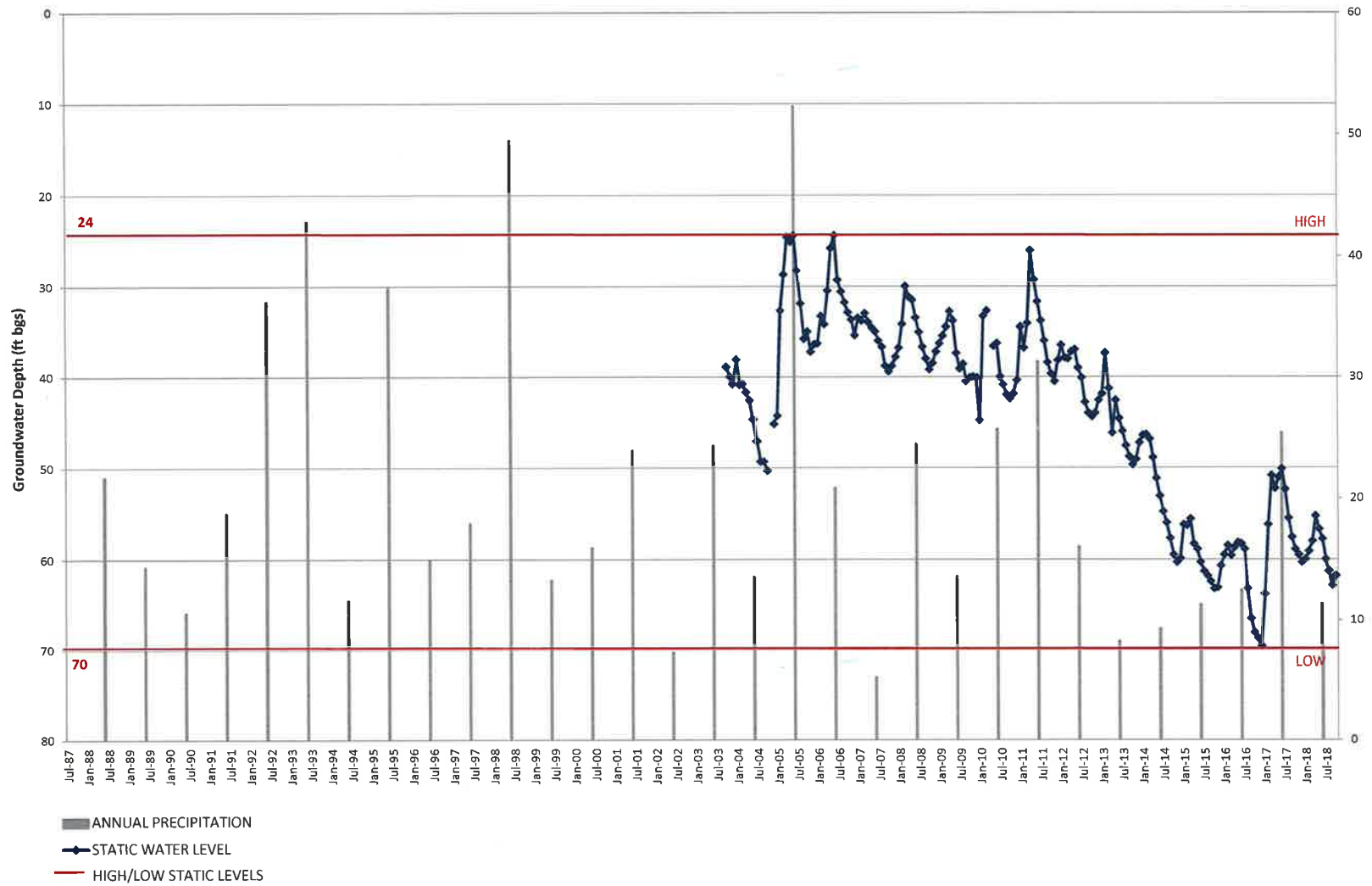
SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION



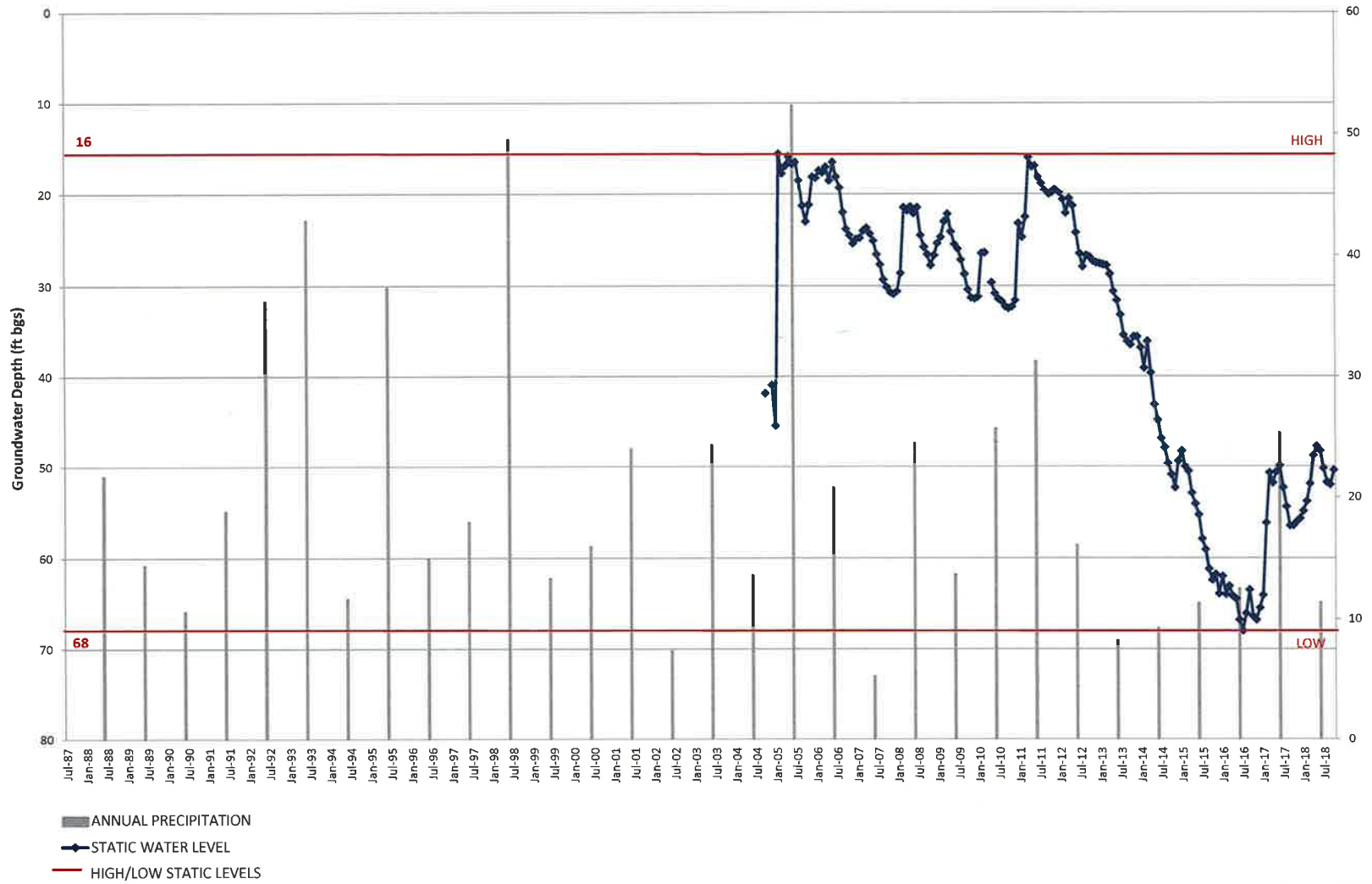
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 STATIC WATER LEVEL VS PRECIPITATION



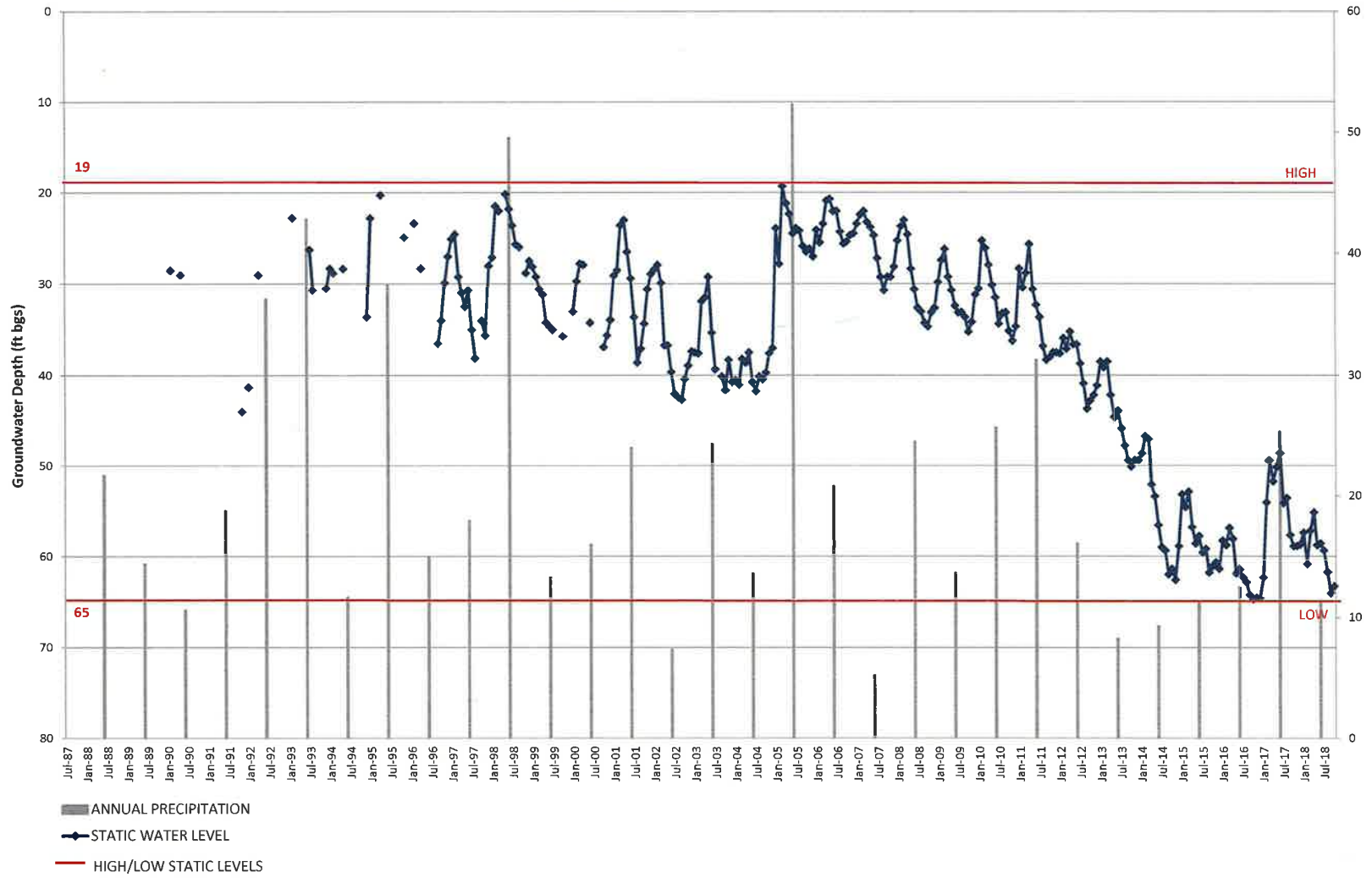
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STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL W11
 STATIC WATER LEVEL PRECIPITATION



SCV WATER WELL N
STATIC WATER LEVEL VS PRECIPITATION



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Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Status Report
As of November 30, 2018

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
Foothill Feeder Turnout	GSE Construction	\$2,691,300	\$175,550	6.5%	\$2,866,850	March 31, 2019	92%	The 36" wafer check valve is scheduled to be installed in January 2019. Connections to MWD and SCVWA lines are scheduled for February 2019.
ESFP Clearwell / CT Improvements	Clark Brothers	\$5,623,745	\$44,904.02	0.80%	\$5,668,649.02	December 31, 2018	99%	Miscellaneous site improvements being constructed.
Well E-17 and Water Improvements	Staats Construction, Padilla Electric, and General Pump	\$571,734	\$0	0%	\$571,734	June 30, 2019	15%	Contractor is acquiring materials.
Magic Mountain Pipeline Phase 4	FivePoint / Toro Enterprises	\$3,084,725	\$0	0%	\$3,084,725	TBD	1%	Construction submittals and pipe fabrication are in progress.

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**Santa Clarita Valley Water Agency
Engineering Services Section
Third Party Funded Agreements Quarterly Report
As of November 30, 2018**

ITEM NO.

7

Project	Third Party Funding Source	Planning, Design, Construction	Contractor/Consultant	Construction Amount	SCV Water Amount	Status
Active Agreements:						
Skyline Ranch Tract 60922-01 Backbone Pipelines	Pardee Homes	Construction	Mesa Engineering, Inc.	\$1,417,928	\$142,000	Construction 95% complete.
Skyline Ranch Tract 60922-01 Planning Areas C & D Pipelines	Pardee Homes	Construction	Staats Construction	\$533,300	\$53,330	Construction 95% complete.
Skyline Ranch Tract 60922-01 Planning Areas A&B & PA-01	Pardee Homes	Construction	Mesa Engineering, Inc	\$675,824	\$67,600	Construction 95% complete.
Skyline Ranch Tract 60922-01 Planning Areas E1 & F	Pardee Homes	Construction	Mesa Engineering, Inc	\$707.700	\$70.700	Construction 95% complete.
Skyline Ranch Tract 60922-01 Paseo	Pardee Homes	Construction	Mesa Engineering	\$68,159	Included in PA-01 above	Construction 95% complete.
College of the Canyons Valencia Campus Parking Structure – Water Line Improvements	Santa Clarita Community College District	Design & Construction	R.C. Becker & Son	\$370,575	\$129,000	Construction 95% complete.
Vista Canyon Tract 69164 Phase 1A Potable and Recycled Pipelines	Vista Canyon LLC	Construction	Mesa Engineering, Inc	\$673,532	\$67,400	Construction 95% complete.
Mission Village – Temporary bypass pipeline (Magic Mountain Parkway)	FivePoint	Construction	FivePoint	TBD	\$41,000	Construction 60% complete.
Mission Village – Well 206/207 Pipeline Relocation	FivePoint	Design	FivePoint	N/A	TBD	SCVWA is preparing a deposit request for plan review.
Mission Village – Pipe Connection at Sky View Lane / The Old Road	FivePoint	Design	FivePoint	N/A	TBD	SCVWA is preparing a deposit request for plan review.
Demineralization Facility – Fire Hydrant	FivePoint	Design	FivePoint	N/A	\$15,000	SCVWA is reviewing design plans.
Westside Communities Potable Water Master Plan	FivePoint	Planning	FivePoint	N/A	\$44,000	SCVWA is reviewing Master Plan.
Mission Village DS542 Recycled Water Pipelines	FivePoint	Design	FivePoint	N/A	\$12,000	SCVWA is reviewing design plans.
Mission Village DS542 Potable Water Pipelines	FivePoint	Design	FivePoint	N/A	\$135,000	FivePoint will be sending the deposit funds.
Mission Village Recycled Water System Phase 1	FivePoint	Design	FivePoint	N/A	\$34,000	SCVWA is reviewing design plans.
Mission Village Potable Water System Phase 1	FivePoint	Design	FivePoint	N/A	\$36,000	SCVWA is reviewing design plans.
Construction of Parcel Map 62646 Water Pipeline Facilities	Saugus Holdings, LLC, and TMC Hollis	Planning & Design	SCWD	\$412,000	\$41,000	Third Party Agreement executed.

Project	Third Party Funding Source	Planning, Design, Construction	Contractor/Consultant	Construction Amount	SCV Water Amount	Status
Pending Agreements:						
Vista Canyon Tract 69164 Phase 2 Potable and Recycled Pipelines	Vista Canyon LLC	Design	Civiltec, Mesa Engineering, Inc	\$962,275 (estimated)	\$96,000	Design phase 90% complete.
27918 Franklin Parkway Water Meter Installation	Logix Federal Credit Union	Construction	Gall Brothers	\$9,000	\$2,500	Execution of Third Party Agreement pending.
Plum Canyon Tract 46018-11 Pump Station (Civil/Mechanical)	Toll Brothers	Construction	Staats Construction	\$648,597	\$61,000	Design completed. Toll Brothers is reviewing Agreement.
Skyline Ranch Tract 60922-01 Tanks	Pardee Homes	Construction	TBD	\$3,000,000 (estimated)	TBD	Design is 60% complete. SCWD reviewing.

Item	PowerPoint Presentation (Y/N/Length)	July 3 Board CANCELLED	July 5 Comm CANCELLED	Aug 2 Comm	Aug 7 Board	Sept 4 Board	Sept 6 Comm	Sept 18 Board	Oct 2 Board	Oct 3 Comm	Nov 1 Comm CANCELLED	Nov 6 Board	Dec 4 Board	Dec 10 Comm	Dec 18 Board	Jan 2 Board	Jan 3 Comm	Feb 5 Board	Feb 7 Comm	March 5 Board	March 7 Comm	April 2 Board	April 4 Comm	May 2 Comm	May 7 Board	June 4 Board	June 6 Comm	July 2 Board
				C			C						C			P			P		P		P		P	P		
1	Monthly Committee Planning Calendar	None					C			C				P			P		P		P		P	P			P	
2	CIP Construction Status Report	None					C			C				P			P		P		P		P	P			P	
3	Monthly Operations and Production Report	None					C			C				P			P		P		P		P	P			P	
4	Third Party Funded Agreements Quarterly Report	None					C							P					P				P					
5	Quarterly Safety Program Presentation	Yes 15 min					C		C					P					P				P					
6	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 4	Yes 10 min					C		C																			
7	Approve Community Workforce Agreement	None					C			C	C																	
8	Recommend Approval of a Change Order to Contract with GSE Construction to Increase Budget for Foothill Feeder Connection Construction	Yes 10 min								C	C																	
9	Recommend Approval of a Work Authorization for TBD for final design of the Magic Mountain Pipeline No. 6	Yes 10 min										C																
10	Recommend Approval of a Change Order with GSE Construction, Increase Vali Cooper's budget for Construction Management Services and increase MWDSC's Work Authorization for the Foothill Feeder Connection Project	Yes 10 min												P	P													
11	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 5	Yes 10 min												P	P													
12	Recommend approval of a Work Authorization for TBD for Engineering Services for VOC Response Action/NCP	TBD															P	P										
13	Recommend approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD															P	P										
14	Recommend Approval of Resolution Awarding Construction Contract to TBD to Recoat Roof Interior of Honby Tank #1	TBD															P	P										
15	Recommend Approval of Resolution Awarding Construction Contract to TBD to Recoat Exterior of Catala No. 4 Tank	TBD															P	P										
16	Recommend Approval of a Work Authorization for TBD for final design of the Replacement Wells Pipeline/Infrastructure	TBD																	P	P								

	Item	PowerPoint Presentation (Y/N/Length)	July 3 Board CANCELLED	July 5 Comm CANCELLED	Aug 2 Comm	Aug 7 Board	Sept 4 Board	Sept 6 Comm	Sept 18 Board	Oct 2 Board	Oct 3 Comm	Nov 1 Comm CANCELLED	Nov 6 Board	Dec 4 Board	Dec 10 Comm	Dec 18 Board	Jan 2 Board	Jan 3 Comm	Feb 5 Board	Feb 7 Comm	March 5 Board	March 7 Comm	April 2 Board	April 4 Comm	May 2 Comm	May 7 Board	June 4 Board	June 6 Comm	July 2 Board		
17	Recommend Approval of a Work Authorization for TBD for final design of the Replacement Wells (Wells only)	TBD		C A N C E L L E D								C A N C E L L E D								P	P										
18	Recommend Approval of Resolution Authorizing SCVWA to Execute Consolidation and Water Service Agreement, and Financing Agreement for Construction of Pipeline to the Los Angeles Residential Community	TBD																				P	P								
19	Recommend Approval of Resolution Awarding Construction Contract to TBD for Pipeline to the Los Angeles Residential Community	TBD																				P	P								
20	Recommend approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Pipelines	TBD																				P	P								
21	Recommend Approval of Resolution Awarding Construction Contract to TBD for New Intertie and Pressure Regulating Station with Newhall County Water District at Gary Street	TBD																							P	P					
22	Recommend Approval of Resolution Awarding Construction Contract to TBD for Pipeline in Rainbow Glen Drive	TBD																							P	P					
23	Recommend Approval of Resolution Awarding Construction Contract to TBD for West Ranch Recycled Water Main Extension (Phase 2D) Project	TBD																							P		P				
24	Recommend Approval of Resolution Awarding Construction Contract to TBD for Washwater Return and Sludge Systems Project	TBD																							P		P				
25	Recommend Approval of Construction of a New 2.5 MG Deane Tank and Cost Sharing Agreement with Developer	TBD			C A N C E L L E D																							P	P		
26	Recommend Approval of a Work Authorization for TBD for final design of the Groundwater Treatment Improvements (VOC Treatment)	TBD																									P		P		
27	Recommend Approval of Construction of a New Deane Zone Pump Station and Cost Sharing Agreement with Developer	TBD																										P	P		
28	Recommend Approval of a Work Authorization for TBD for final design of the Magic Mountain Reservoir	TBD																											P	P	
29	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 6	TBD																											P	P	