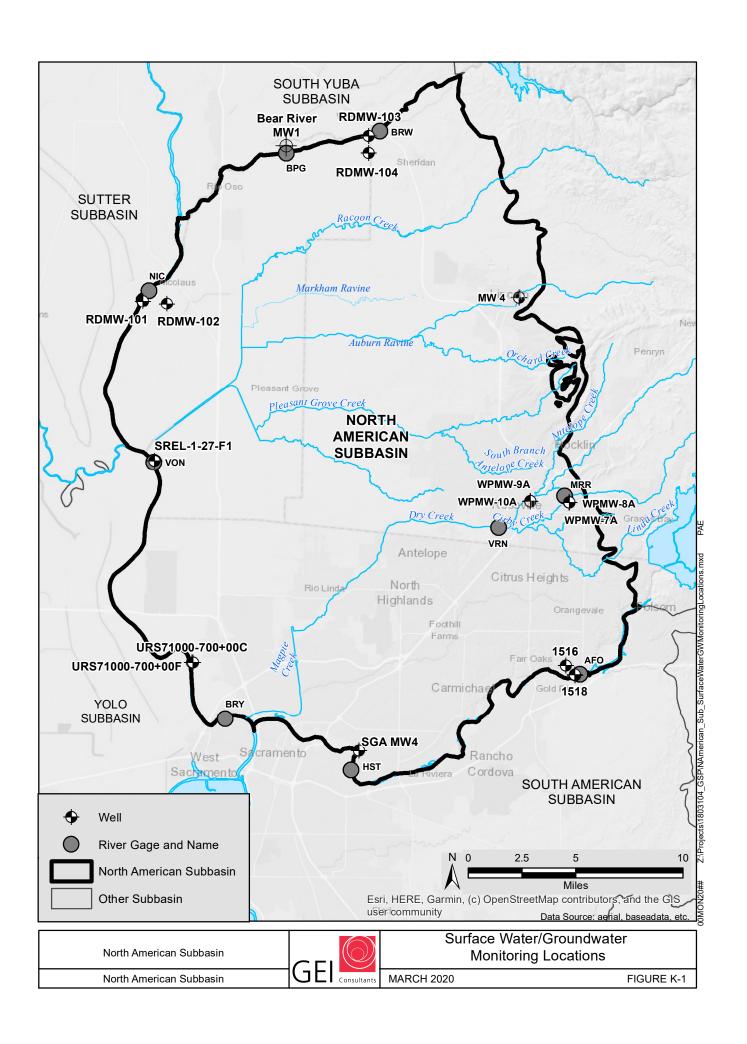
APPENDIX N SURFACE WATER/GROUNDWATER INTERACTION HYDROGRAPHS

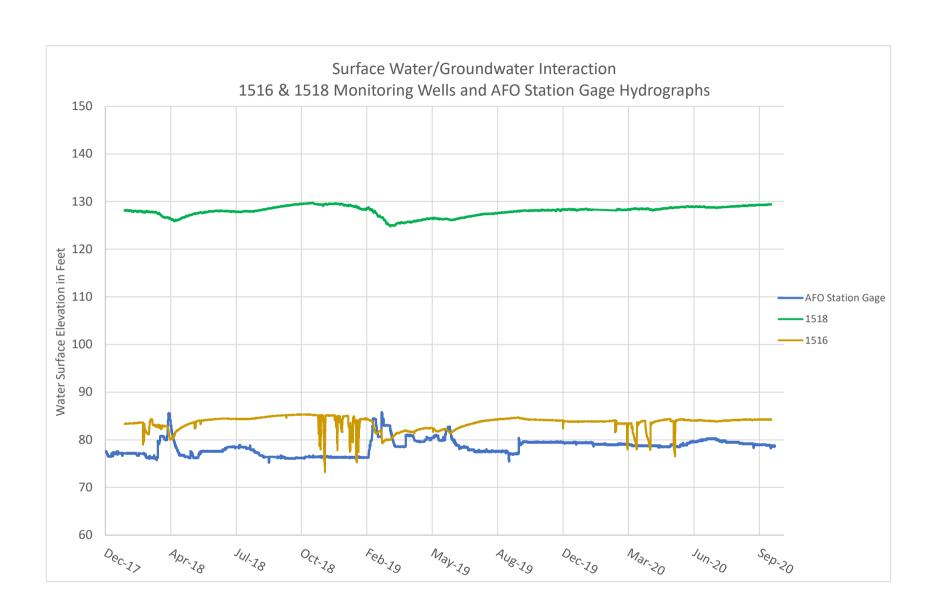


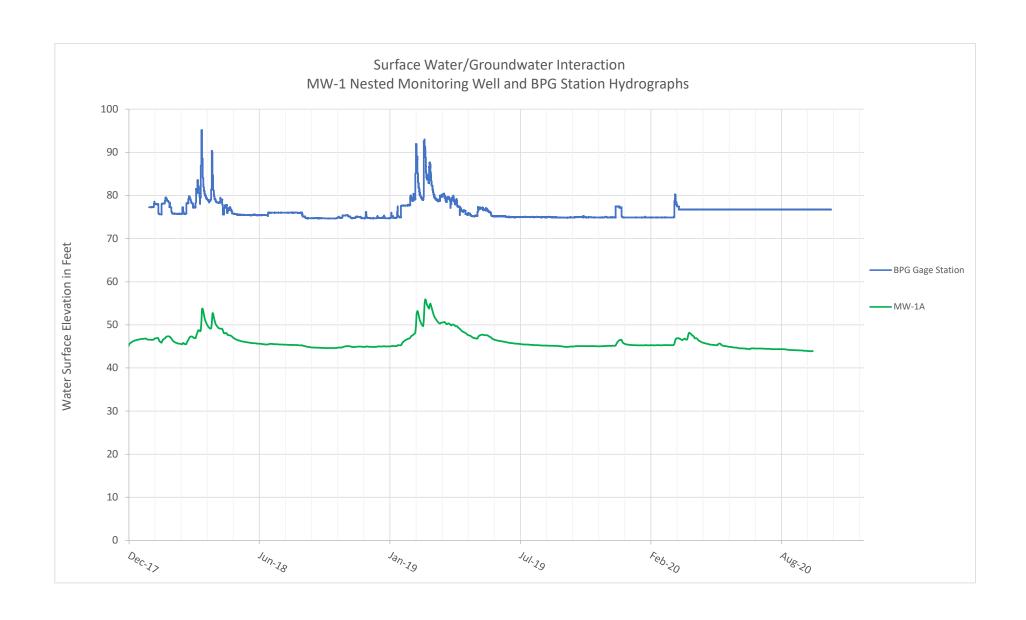
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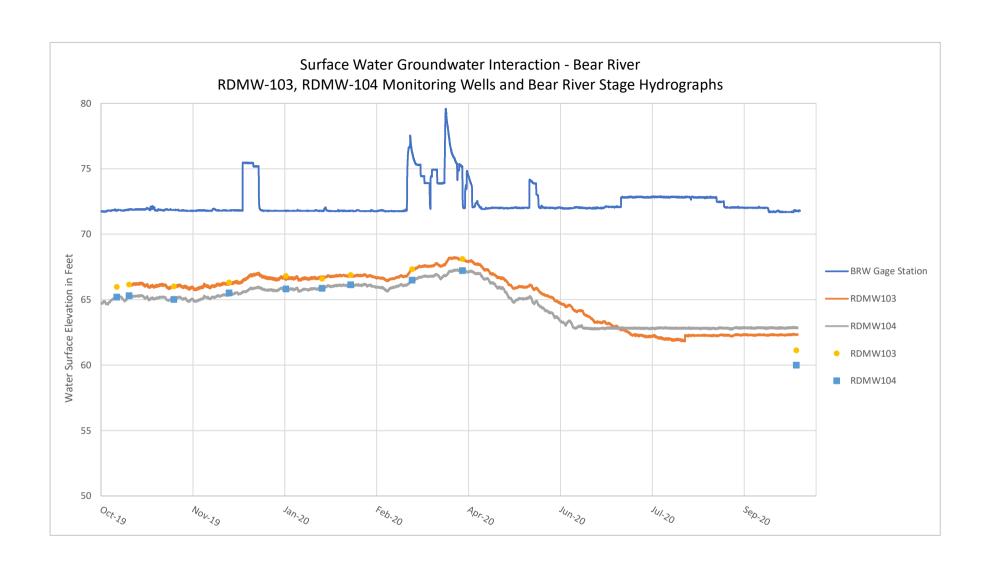


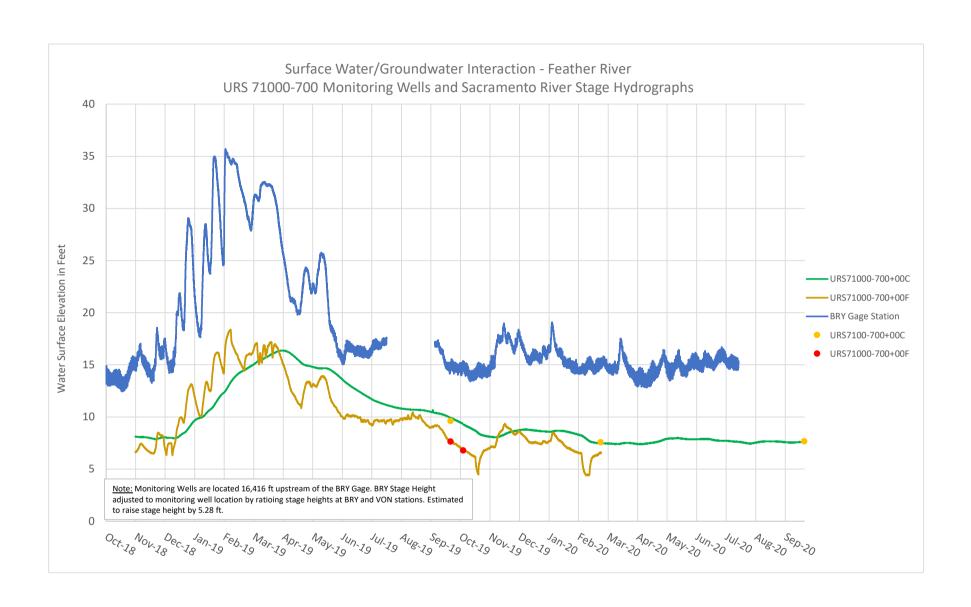
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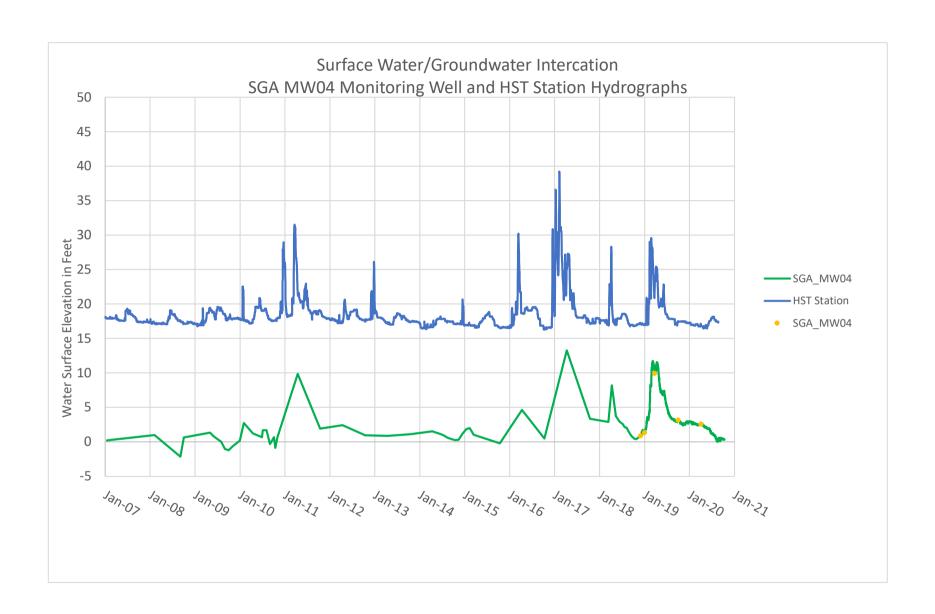


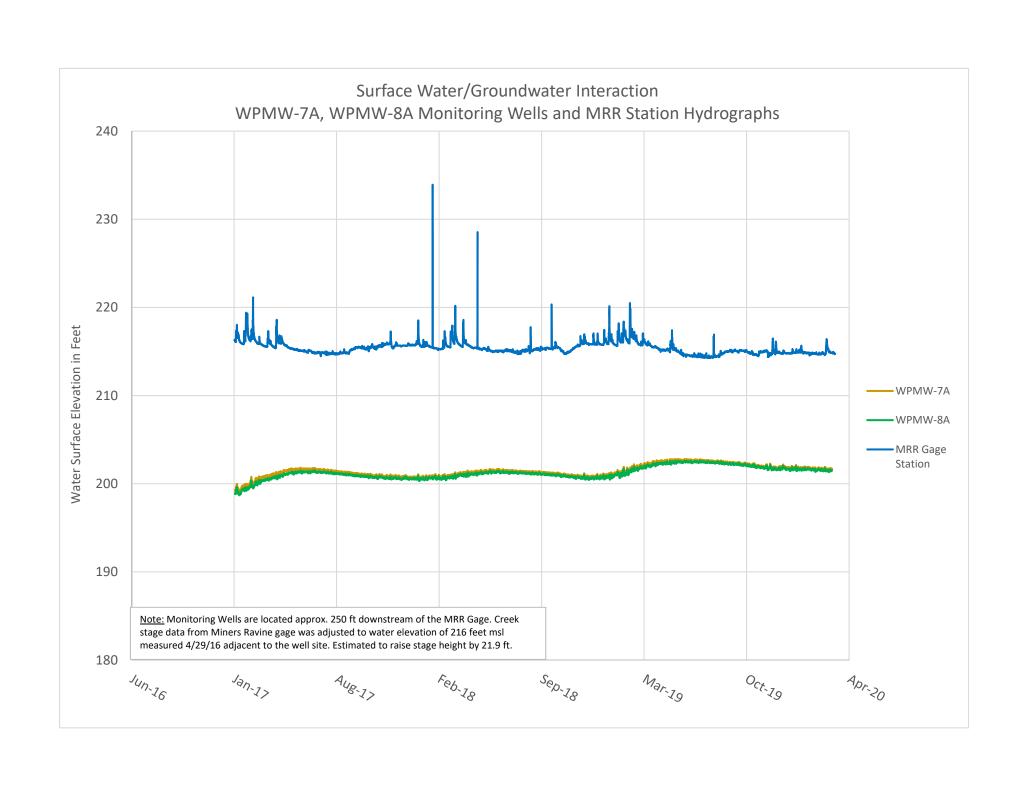


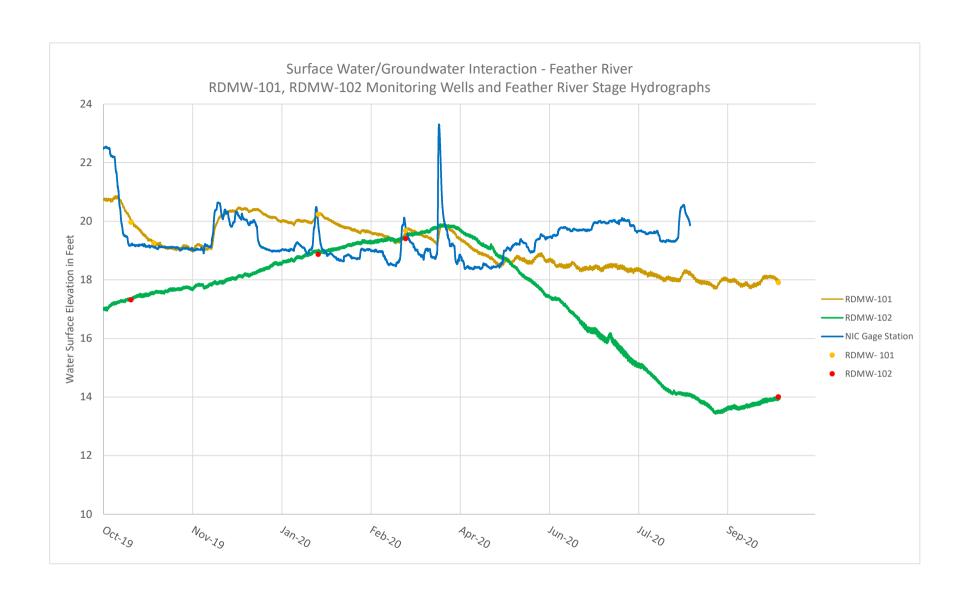


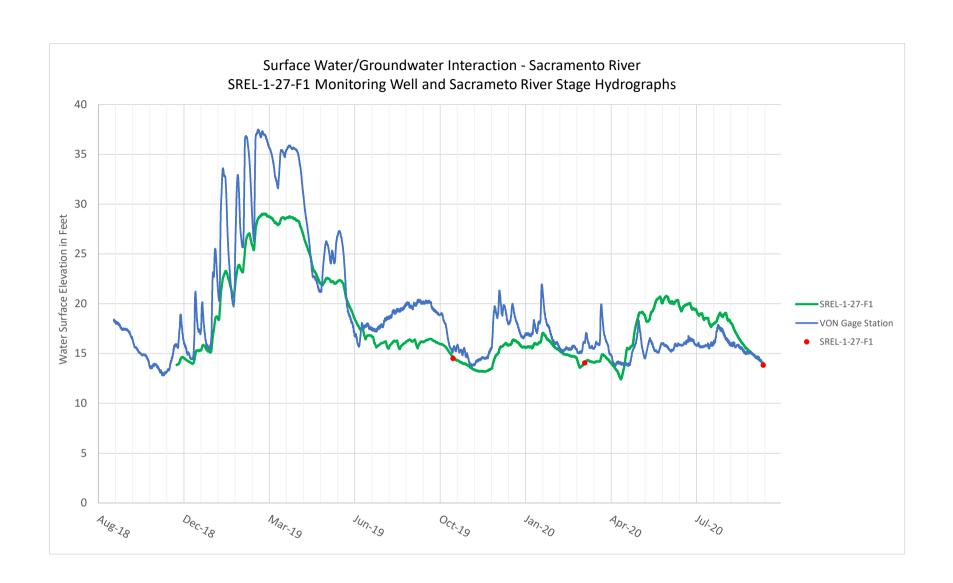


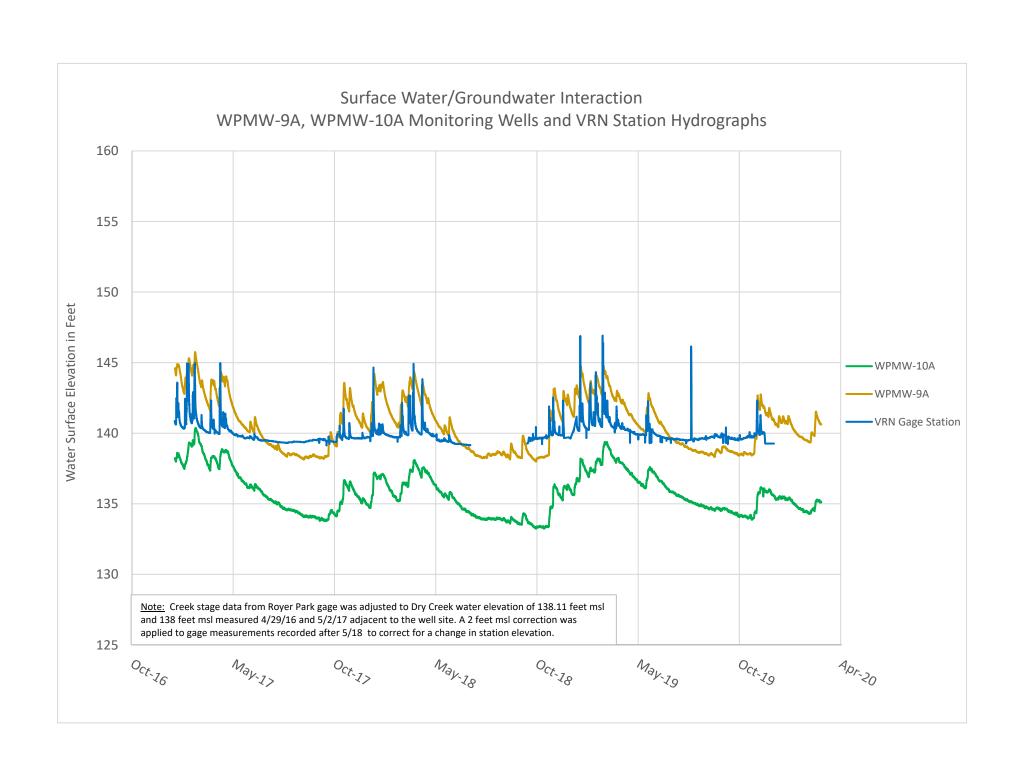




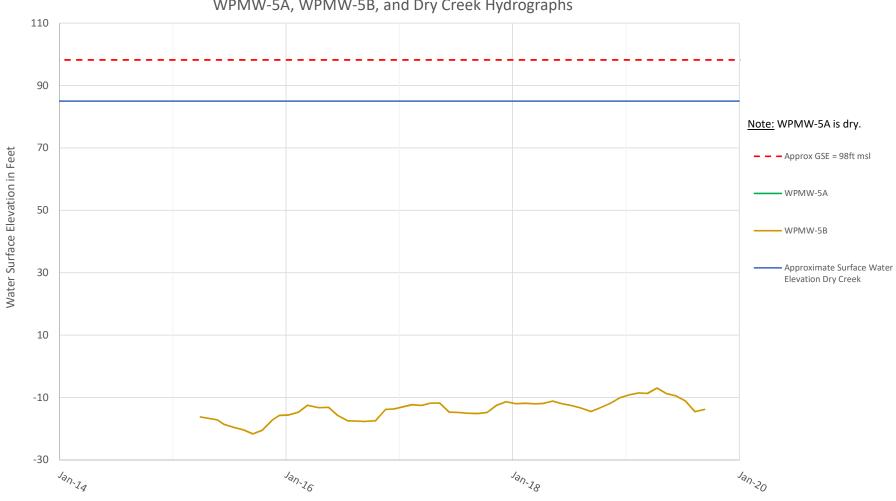


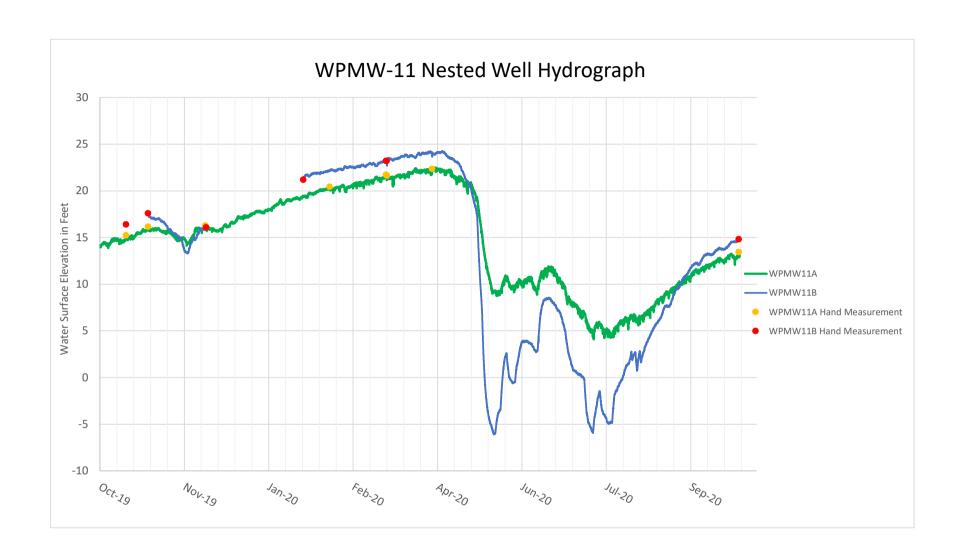


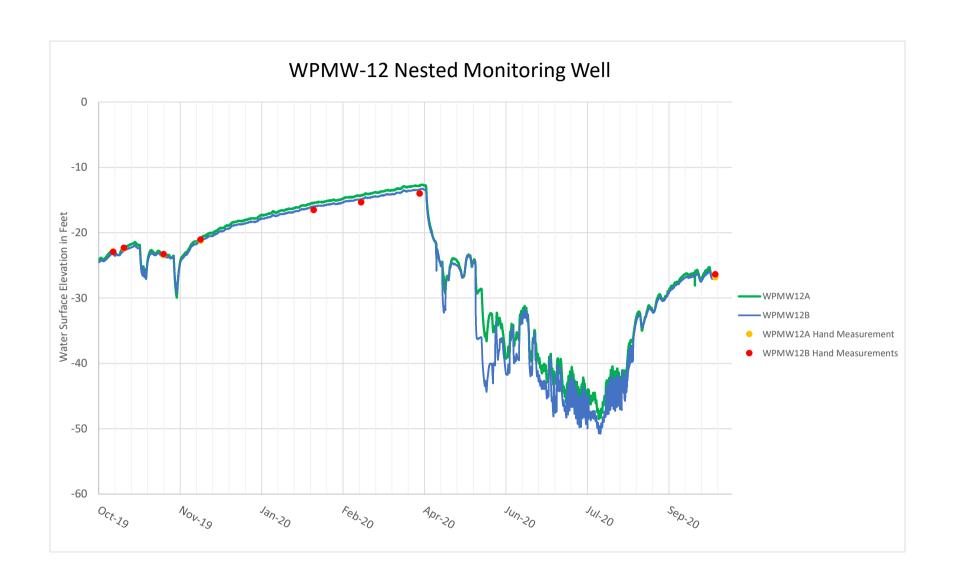




Surface Water/Groundwater Interaction WPMW-5A, WPMW-5B, and Dry Creek Hydrographs









July 8, 2019

File No.: 20161893.005A

Mr. John Bassett, PE SAFCA 1007 7th Street, 7th Floor Sacramento, California 95814

Subject: Piezometer Reading Summary, 2018-2019 Flood Season

Natomas Cross Canal

Sacramento and American Rivers

Sacramento and Sutter Counties, California

Dear Mr. Bassett:

Kleinfelder is pleased to present this Piezometer Reading Summary Report for the 2018-2019 flood season based upon piezometer readings taken along the Natomas Cross Canal South Levee (NCCSL), Sacramento River East Levee (SREL), and American River North Levee (ARNL) see Figure 1-1, located in Sacramento and Sutter Counties, California. This report provides groundwater level data at specific locations along the NCCSL, SREL, and ARNL and a compilation of piezometer readings from a series of measurements completed during the 2018-2019 flood season. The purpose of this report is to present the measurements taken in piezometers installed by Kleinfelder and previously installed by others.

Piezometer locations are shown on Figures 2-1 through 2-9. Plots of piezometer readings showing groundwater elevation, approximate piezometer station, location, and levee improvement are shown on Figures 3-1 through 3-39. The stage of the Sacramento and American rivers, as appropriate, are shown on the piezometer reading plots along with the referenced gauge station.

BACKGROUND

Piezometers have been installed by Kleinfelder and others between approximately 2001 and 2009. Elevation references in this report are in feet and are based on the North American Vertical Datum of 1988 (NAVD88). Elevations may be converted to the previously used National Geodetic Vertical Datum of 1929 (NGVD29) by using the conversion factor Elevation 0 NGVD29 = Elevation +2.28 NAVD88 (Psomas 2009).

Kleinfelder published a report summarizing groundwater levels and piezometer readings taken between December 2017 and April 2018 for the 2017-2018 flood season entitled "Piezometer Reading Summary, 2017-2018 Flood Season, Natomas Cross Canal, Sacramento and American Rivers, Sacramento and Sutter Counties, California," dated June 11, 2018.

Kleinfelder previously published a report summarizing groundwater levels and piezometer readings taken between November 2016 and June 2017 for the 2016-2017 flood season for the Natomas Cross Canals entitled "Piezometer Reading Summary, 2016-2017 Flood Season, Natomas Cross Canals, Sacramento and American Rivers, Sacramento and Sutter Counties, California," dated February 22, 2018.

Kleinfelder published a report summarizing groundwater levels and piezometer readings taken in March 2016 for the 2015-2016 flood season for the Natomas Cross Canals entitled "Piezometer Reading Summary, 2015-2016 Flood Season, Natomas Cross Canals, Sacramento and American Rivers, Sacramento and Sutter Counties, California," dated December 22, 2016.

Kleinfelder published a report summarizing groundwater levels and piezometer readings taken between October 2011 and April 2016 for the Natomas Cross Canal entitled "Groundwater Level Data Report, Natomas Cross Canal South Levee, Natomas Levee Improvement Program, Sutter County, California," dated August 8, 2016.

Kleinfelder published a report summarizing groundwater levels and piezometer readings taken between May 2009 and August 2011 for the subject project titled "Groundwater Level Data Report, Natomas Cross Canal South Levee, Natomas Levee Improvement Program, Sutter County, California," dated August 25, 2011.

Piezometers are read based on the following table.

Table 1: Current RD1000 Levee Patrol Criteria and Activation WSE for Piezometer Reading ³

Locations	Stage Forecast	RD1000 Patrol Frequency Interval	Comments
		24-48 hours	Activation WSE at I Street Gage
American River /	I Street 25.5 ¹	6 hours	for Piezometer Readings El. 15 (NAVD88)
NEMDC /	I Street 27.31	3 hours	Reading intervals twice a week as
Sacramento River (downstream of	I Street 29.31	2 hours	the river is rising or falling between El. 15 and 24.3
Sacramento Weir)	I Street 29.81	1 hour	(NAVD88). Every other day readings at WSE above El. 24.3
	I Street 30.81	30 minutes	(NAVD88)
		24-48 hours	Activation WSE at Verona Gage
	I Street 27.3 ¹ and/or Verona 32.0 ²	6 hours	for Piezometer Readings El. 27 (NAVD88)
Sacramento River (upstream of	I Street 29.3 ¹ and/or Verona 37.0 (36.3) ²	3 hours	El. 27.7 (USED) Reading intervals twice a week as
Sacramento Weir) / NCC / PGCC	I Street 31.3 ¹ and/or Verona 40.0 (39.3) ²	2 hours	the river is rising or falling between El. 27.7 and 31 (USED)
	I Street 33.3 ¹ and/or Verona 41.0 (40.3) ²	1 hour	[El. 27 and 30.3 NAVD88]. Every other day readings at WSE above
	I Street 34.3 ¹ and/or Verona 42.0 (41.3) ²	30 minutes	El. 31 (ÚSED) [El. 30.3 NAVD88)

¹ WSEs were converted to elevation at I Street Gaging Station, NAVD88, in feet.

² WSEs were converted to elevation at Verona Gaging Station, USED, in feet with a conversion to NAVD88 provided in parenthesis.

³ The water surface elevations and levee patrol frequencies included in this table are used as guidelines for levee patrol staffing and flood fight readiness. Actual patrol frequency will be based on site specific observed conditions. Any signs of levee distress including, but not limited to, seepage carrying soil material, boils, sloughing, or erosion should be addressed with more frequent patrols and/or flood fight activities as appropriate.

OBSERVATIONS

Recent piezometer readings were taken between January and April 2019 during periods of high water levels in the Natomas Cross Canal, Sacramento River, and American River. Piezometer readings from this period are graphically shown on Figures 3-1 through 3-39. These readings were made to record the response of groundwater levels along the Natomas Cross Canal, Sacramento River, and American River to the fluctuation in these bodies of water. Tables 2, 3, and 4 summarize the piezometer readings located along the NCCSL, SREL, and ARNL, respectively. All elevations provided are referenced to NAVD88. Table 5 summarizes the name, station, and figure showing each of the piezometers.

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date	NCC-3-T1	NCC-21-C1	NCC-21-F1	NCC-21-R1
	El. +32.4	El. +49.1	El. +21.5	El. +45.2
1/22/19	15.1	19.4	18.9	25.2
1/25/19	20.4	19.2	18.7	23.7
2/5/19	21.0	19.4	19.1	23.9
2/8/19	21.8	19.7	19.2	25.8
2/15/19	24.0	20.4	19.8	29.6
2/18/19	24.9	20.5	19.8	30.8
2/20/19	25.2	20.4	19.7	29.6
2/22/19	24.9	20.1	19.4	27.0
2/27/19	25.2	20.7	20.5	29.6
3/1/19	2	20.9	20.1	31.7
3/4/19	26.0	21.0	20.1	31.8
3/6/19	26.2	21.2	20.6	31.6
3/8/19	26.2	21.6	20.2	31.9
3/11/19	26.2	20.9	20.0	31.5
3/13/19	26.0	20.7	19.8	31.0
3/15/19	26.1	20.6	19.8	30.5
3/19/19	26.0	20.5	19.7	29.6
3/22/19	25.7	20.4	19.6	28.2
3/26/19	25.8	20.5	19.9	27.2
3/29/19	26.0	20.9	20.2	30.1

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date	NCC-3-T1	NCC-21-C1	NCC-21-F1	NCC-21-R1		
	El. +32.4	El. +49.1	El. +21.5	El. +45.2		
4/1/19	26.1	20.8	20.0	30.0		
4/8/19	26.1	20.8	19.9	30.6		
4/10/19	26.1	20.7	19.8	30.4		
4/12/19	26.1	20.7	19.8	30.9		
4/16/19	25.6	20.4	19.6	30.2		
4/19/19	25.8	20.3	19.5	29.6		
4/22/19	25.4	20.1	19.2	28.1		
4/25/19	24.9	19.8	19.1	26.0		
Date	NCC-53-T1	NCC-56-T1	NCC-58-T1	NCC-61-T1	NCC-63-T1	
Date	El. +27.1	El. +28.3	El. +33.2	El. +28.1	El. +26.4	
1/22/19	18.9	17.7	19.4	19.2	18.5	
1/25/19	18.7	17.5	19.1	19.0	18.4	
2/5/19	18.8	17.5	18.8	19.0	18.5	
2/8/19	19.1	17.8	19.5	19.4	18.7	
2/15/19	20.0	18.6	20.3	20.4	19.6	
2/18/19	20.0	18.5	20.7	20.6	19.5	
2/20/19	19.9	18.4	20.7	20.4	19.4	
2/22/19	19.5	18.1	20.0	19.9	19.2	
2/27/19	18.7	19.6	19.9	20.9	20.1	
3/1/19	20.5	19.0	21.4	21.2	20.1	
3/4/19	20.6	18.9	21.5	21.2	20.0	
3/6/19	20.8	19.3	21.7	21.3	20.2	
3/8/19	20.6	19.0	21.8	21.4	20.2	
3/11/19	20.3	18.6	21.4	21.0	19.7	
3/13/19	20.1	18.5	21.2	20.7	19.5	
3/15/19	2	18.5	21.1	20.6	19.4	
3/19/19	19.8	18.3	2	20.3	19.2	
3/22/19	19.6	18.1	20.4	20.0	2	
3/26/19	19.8	18.3	2	20.0	19.2	
3/29/19	20.2	18.6	2	20.5	19.6	
4/1/19	2	18.5	20.9	20.5	19.5	
4/8/19	19.9	18.4	20.8	20.4	19.2	
4/10/19	19.8	18.3	20.8	20.3	19.1	
4/12/19	20.3	18.3	20.8	20.2	19.1	
4/16/19	19.5	18.2	20.6	20.0	18.9	
4/19/19	19.5	18.2	20.6	20.0	18.9	
4/22/19	19.2	17.9	20.2	19.6	18.6	

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date	NCC-53-T1	NCC-56-T1	NCC-58-T1	NCC-61-T1	NCC-63-T1
	El. +27.1	El. +28.3	El. +33.2	El. +28.1	El. +26.4
4/25/19	19.0	17.7	19.6	19.2	18.5
Date	NCC-116-T1	NCC-116-C1	NCC-116-C2	NCC-118-T1	NCC-121-T1
	El. +26.1	El. +49.0	El. +49.1	El. +26.3	El. +32.3
1/22/19	21.4	21.8	5	21.9	22.5
1/25/19	21.2	21.6	5	21.5	22.0
2/5/19	20.5	20.9	5	21.2	22.0
2/8/19	21.2	21.4	5	21.6	22.3
2/15/19	21.8	22.2	5	22.5	23.4
2/18/19	22.3	22.7	5	22.6	23.4
2/20/19	22.4	22.8	5	22.5	23.2
2/22/19	22.1	22.5	5	22.2	22.7
2/27/19	22.3	22.7	5	23.0	24.0
3/1/19	22.8	23.1	5	23.2	24.0
3/4/19	23.1	23.6	5	23.3	24.0
3/6/19	23.3	23.7	5	23.4	24.1
3/8/19	23.3	23.7	5	23.5	24.2
3/11/19	23.3	23.7	5	23.3	24.0
3/13/19	23.1	23.6	5	23.2	23.8
3/15/19	24.1	23.5	5	23.1	23.7
3/19/19	22.9	23.3	5	23.0	23.6
3/22/19	22.7	23.2	5	22.8	23.4
3/26/19	22.6	23.0	5	22.9	23.4
3/29/19	22.9	23.4	5	23.3	23.9
4/1/19	23.1	23.4	5	23.5	24.0
4/8/19	22.6	23.0	5	23.8	24.6
4/10/19	22.2	22.5	5	23.3	24.1
4/12/19	22.0	22.3	5	23.4	24.3
4/16/19	22.1	22.4	5	23.1	23.9
4/19/19	22.4	22.9	5	23.5	24.2
4/22/19	22.5	23.0	5	23.2	23.8
4/25/19	22.4	22.8	5	22.9	23.5

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

	NCC-123-T1	NCC-125-T1	NCC-135-C1	NCC-135-C2		
Date	El. +29.4	El. +29.7	El. +49.1	El. +48.8		
1/22/19	22.2	22.6	23.8	23.8		
1/25/19	21.9	22.4	23.6	23.6		
2/5/19	22.0	22.6	23.7	23.7		
2/8/19	22.0	22.4	23.5	23.5		
2/15/19	22.9	23.2	24.1	24.2		
2/13/13	22.6	22.9	23.8	23.9		
2/18/19	22.5	22.7	23.6	23.8		
2/22/19	22.3	22.5	23.5	22.5		
2/27/19	23.4	23.8	24.6	24.4		
3/1/19	23.2	23.4	24.3	24.4		
3/4/19	23.2	23.4	24.3	24.4		
3/6/19	23.4	23.8	24.5	24.4		
3/8/19	23.3	23.5	24.4	24.5		
3/11/19	23.1	23.2	24.4	24.2		
3/11/19	23.0	23.2	24.2	24.2		
3/15/19	23.0	23.1	24.1	24.1		
3/19/19	22.9	23.0	23.8	23.9		
3/22/19	22.8 23.0	23.0 23.2	23.8	23.8 24.0		
3/26/19						
3/29/19	23.3	23.4	24.2	24.2		
4/1/19	23.3	23.4	23.9	24.0		
4/8/19	24.0	24.1	24.4	24.6		
4/10/19	23.6	23.9	24.6	24.6		
4/12/19	23.8	24.0	24.5	24.7		
4/16/19	23.4	23.7	24.5	24.5		
4/19/19	23.7	24.0	24.7	24.7		
4/22/19	23.4	23.6	24.4	24.4		
4/25/19	23.2	23.5	24.2	24.2	NICC 224 T1	
Date	NCC-183-C1	NCC-183-T1	NCC-221-C1	NCC-221-C2	NCC-221-T1	
4/22/42	El. +49.0	El. +29.2	El. +49.2	El. +49.1	El. +30.6	
1/22/19	23.1		25.3	28.5	24.9	
1/25/19	22.9	23.3	25.0	25.7	24.8	
2/5/19	23.0	23.4	24.8	25.7	23.8	
2/8/19	23.1	23.5	25.7	27.6	24.6	
2/15/19	24.0	24.4	26.7	31.3	26.3	
2/18/19	23.9	24.4	27.4	31.9	27.0	
2/20/19	23.7	22.2	27.3	30.6	27.0	

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date NCC-183-C1 El. +49.0 NCC-183-T1 El. +29.2 NCC-221-C1 El. +49.1 NCC-221-C2 El. +49.1 NCC-221-C2 El. +49.1 NCC-221-T2 El. +30.6 2/2/7/19 23.5 23.8 26.4 27.9 26.3 2/2/7/19 24.1 24.7 26.8 30.2 25.7 3/4/19 24.2 24.7 28.1 32.7 27.8 3/6/19 24.3 24.8 28.3 32.3 27.8 3/8/19 24.3 24.4 28.0 32.3 27.7 3/11/19 24.0 24.4 28.0 32.3 27.7 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 ² 27.3 30.5 27.2 3/22/19 23.6 23.7 26.8 29.0 26.9 3/26/19 23.3 23.8 26.7 27.9 26.7 3/29/19 23.5 24.1
El. +49.0 El. +29.2 El. +49.2 El. +49.1 El. +30.6 2/22/19 23.5 23.8 26.4 27.9 26.3 2/27/19 24.1 24.7 26.8 30.2 25.7 3/4/19 24.3 24.8 28.0 32.8 27.4 3/4/19 24.2 24.7 28.1 32.7 27.8 3/6/19 24.3 24.8 28.3 32.3 27.8 3/8/19 24.3 24.7 28.2 32.7 27.9 3/11/19 24.0 24.4 28.0 32.3 27.7 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 2 27.3 30.5 27.2 3/22/19 23.6 23.7 26.8 29.0 26.9 3/29/19 23.7 24.1 27.4 30.8 26.8 4/1/19 23
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3/1/19 24.3 24.8 28.0 32.8 27.4 3/4/19 24.2 24.7 28.1 32.7 27.8 3/6/19 24.3 24.8 28.3 32.3 27.9 3/8/19 24.3 24.7 28.2 32.7 27.9 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 2 27.3 30.5 27.2 3/26/19 23.6 23.7 26.8 29.0 26.9 3/26/19 23.3 23.8 26.7 27.9 26.7 3/29/19 23.6 23.7 26.8 29.0 26.9 3/29/19 23.7 24.1 27.4 30.8 26.8 4/1/19 23.6 24.1 27.6 30.9 26.8 4/10/19 23.3 23.8 27.2 31.3 26.9 4/10/19 23
3/4/19 24.2 24.7 28.1 32.7 27.8 3/6/19 24.3 24.8 28.3 32.3 27.8 3/8/19 24.3 24.7 28.2 32.7 27.9 3/11/19 24.0 24.4 28.0 32.3 27.7 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 2 27.3 30.5 27.2 3/22/19 23.6 23.7 26.8 29.0 26.9 3/26/19 23.3 23.8 26.7 27.9 26.7 3/29/19 23.7 24.1 27.4 30.8 26.8 4/1/19 23.6 24.1 27.6 30.9 26.8 4/8/19 23.4 23.9 27.3 31.4 26.9 4/10/19 23.3 23.8 27.2 31.3 26.9 4/12/19 23
3/6/19 24.3 24.8 28.3 32.3 27.8 3/8/19 24.3 24.7 28.2 32.7 27.9 3/11/19 24.0 24.4 28.0 32.3 27.7 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 2 27.3 30.5 27.2 3/22/19 23.6 23.7 26.8 29.0 26.9 3/26/19 23.3 23.8 26.7 27.9 26.7 3/29/19 23.7 24.1 27.4 30.8 26.8 4/1/19 23.6 24.1 27.6 30.9 26.8 4/1/19 23.6 24.1 27.6 30.9 26.8 4/10/19 23.3 23.8 27.2 31.3 26.9 4/10/19 23.1 23.6 26.8 31.0 26.7 4/19/19 2
3/8/19 24.3 24.7 28.2 32.7 27.9 3/11/19 24.0 24.4 28.0 32.3 27.7 3/13/19 23.8 24.2 27.7 31.8 27.6 3/15/19 23.7 24.2 27.5 31.3 27.4 3/19/19 23.4 2 27.3 30.5 27.2 3/22/19 23.6 23.7 26.8 29.0 26.9 3/26/19 23.3 23.8 26.7 27.9 26.7 3/29/19 23.7 24.1 27.4 30.8 26.8 4/11/19 23.6 24.1 27.6 30.9 26.8 4/8/19 23.4 23.9 27.3 31.4 26.9 4/10/19 23.3 23.8 27.2 31.3 26.9 4/12/19 23.2 23.7 27.3 31.2 26.8 4/12/19 23.1 23.6 26.8 31.0 26.7 4/25/19 <td< td=""></td<>
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3/29/19 23.7 24.1 27.4 30.8 26.8 4/1/19 23.6 24.1 27.6 30.9 26.8 4/8/19 23.4 23.9 27.3 31.4 26.9 4/10/19 23.3 23.8 27.2 31.3 26.9 4/12/19 23.2 23.7 27.3 31.2 26.8 4/16/19 23.1 23.6 26.8 31.0 26.7 4/19/19 23.1 23.6 26.6 30.5 26.5 4/22/19 23.1 23.5 26.1 29.0 26.2 4/25/19 22.8 23.2 25.4 26.8 25.3 Date NCC-223-C1 EI. +42.5 NCC-223-T1 EI. +28.1 NCC-228-F1 EI. +30.5 NCC-228-C1 EI. +46.4 1/22/19 28.5 22.4 25.8 26.5 27.4 1/25/19 25.4 21.8 25.0 25.2 25.4 2/5/19 25.6 20.8 24.4 24.7 25.2 <t< td=""></t<>
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4/12/19 23.2 23.7 27.3 31.2 26.8 4/16/19 23.1 23.6 26.8 31.0 26.7 4/19/19 23.1 23.6 26.6 30.5 26.5 4/22/19 23.1 23.5 26.1 29.0 26.2 4/25/19 22.8 23.2 25.4 26.8 25.3 Date NCC-223-C1 EI. + 28.1 NCC-228-F1 NCC-228-F1 NCC-228-F1 EI. + 30.5 NCC-228-C1 EI. + 46.4 NCC-228-C1 EI. + 46.4 1/22/19 28.5 22.4 25.8 26.5 27.4 1/25/19 25.4 21.8 25.0 25.2 25.4 2/5/19 25.6 20.8 24.4 24.7 25.2 2/8/19 27.3 21.5 26.0 26.4 26.9 2/15/19 31.6 23.7 27.5 28.5 29.9 2/18/19 31.9 24.0 28.5 29.4 30.6 2/20/19 30.5 23.5 26.9 27.6 <td< td=""></td<>
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2/5/19 25.6 20.8 24.4 24.7 25.2 2/8/19 27.3 21.5 26.0 26.4 26.9 2/15/19 31.6 23.7 27.5 28.5 29.9 2/18/19 31.9 24.0 28.5 29.4 30.6 2/20/19 30.5 23.9 28.2 28.9 29.6 2/22/19 27.6 23.5 26.9 27.6 27.5 2/27/19 30.4 23.0 27.5 28.4 29.4 3/1/19 33.0 23.6 29.3 30.1 31.5 3/4/19 32.8 24.0 29.4 30.1 31.5 3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
2/8/19 27.3 21.5 26.0 26.4 26.9 2/15/19 31.6 23.7 27.5 28.5 29.9 2/18/19 31.9 24.0 28.5 29.4 30.6 2/20/19 30.5 23.9 28.2 28.9 29.6 2/22/19 27.6 23.5 26.9 27.6 27.5 2/27/19 30.4 23.0 27.5 28.4 29.4 3/1/19 33.0 23.6 29.3 30.1 31.5 3/4/19 32.8 24.0 29.4 30.1 31.5 3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
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2/22/19 27.6 23.5 26.9 27.6 27.5 2/27/19 30.4 23.0 27.5 28.4 29.4 3/1/19 33.0 23.6 29.3 30.1 31.5 3/4/19 32.8 24.0 29.4 30.1 31.5 3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
2/27/19 30.4 23.0 27.5 28.4 29.4 3/1/19 33.0 23.6 29.3 30.1 31.5 3/4/19 32.8 24.0 29.4 30.1 31.5 3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
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3/4/19 32.8 24.0 29.4 30.1 31.5 3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
3/6/19 32.4 24.4 29.5 30.1 31.2 3/8/19 32.8 24.5 29.5 30.1 31.6
3/8/19 32.8 24.5 29.5 30.1 31.6
3/11/19 32.4 24.5 29.3 30.1 31.2

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date El. +49.5 El. +28.1 El. +31.5 El. +30.5 El. +46.0		NCC 222 C1	NCC 222 T1	NCC 220 F1	NCC 220 T1	NCC 220 C1	
3/13/19 31.9 24.4 28.9 29.8 30.7 3/15/19 31.4 24.3 28.7 29.4 30.4 3/19/19 30.4 24.1 28.3 29.0 29.7 3/22/19 28.9 23.9 27.5 27.9 28.5 3/26/19 27.7 23.6 27.2 27.4 27.7 3/29/19 31.0 23.7 28.4 ² 30.0 4/1/19 30.9 23.7 ² 29.2 30.1 4/8/19 31.5 24.1 28.6 29.3 30.4 4/10/19 31.4 24.1 28.4 29.2 30.2 4/12/19 31.4 24.1 28.5 29.2 30.2 4/16/19 31.2 24.1 28.1 29.0 30.0 4/19/19 30.6 23.8 27.9 28.6 29.5 4/22/19 28.9 23.4 27.0 27.6 28.2 4/25/19 26.8 22.6 26.0 26.1 26.4 Date	Date	NCC-223-C1	NCC-223-T1	NCC-228-F1	NCC-228-T1	NCC-228-C1	
3/15/19 31.4 24.3 28.7 29.4 30.4 3/19/19 30.4 24.1 28.3 29.0 29.7 3/22/19 28.9 23.9 27.5 27.9 28.5 3/26/19 27.7 23.6 27.2 27.4 27.7 3/29/19 31.0 23.7 28.4 ² 30.0 4/11/19 30.9 23.7 ² 29.2 30.1 4/8/19 31.5 24.1 28.6 29.3 30.4 4/10/19 31.4 24.1 28.5 29.2 30.2 4/12/19 31.2 24.1 28.1 29.0 30.0 4/19/19 30.6 23.8 27.9 28.6 29.5 4/22/19 28.9 23.4 27.0 27.6 28.2 4/22/19 28.9 23.4 27.0 27.6 28.2 4/25/19 26.8 22.6 26.0 26.1 26.4 Date	2/12/12						
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4/12/19 31.4 24.1 28.5 29.2 30.2 4/16/19 31.2 24.1 28.1 29.0 30.0 4/19/19 30.6 23.8 27.9 28.6 29.5 4/22/19 28.9 23.4 27.0 27.6 28.2 4/25/19 26.8 22.6 26.0 26.1 26.4 Date NCC-231-T1 El. +31.1 NCC-240-C1 El. +31.9 NCC-240-C2 El. +49.1 NCC-240-T1 El. +49.3 NCC-240-T1 El. +49.3 NCC-240-T1 El. +31.4 NCC-240-F1 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.							
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4/19/19 30.6 23.8 27.9 28.6 29.5 4/22/19 28.9 23.4 27.0 27.6 28.2 4/25/19 26.8 22.6 26.0 26.1 26.4 Date NCC-231-T1 El. +31.1 NCC-233-T1 El. +31.9 NCC-240-C1 El. +49.3 El. +31.4 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/27/19 27.7 27.4 27.2 31.6 <	4/12/19	31.4	24.1	28.5	29.2	30.2	
4/22/19 28.9 23.4 27.0 27.6 28.2 4/25/19 26.8 22.6 26.0 26.1 26.4 Date NCC-231-T1 NCC-233-T1 NCC-240-C1 NCC-240-C2 NCC-240-T1 NCC-240-F1 El. +31.1 El. +31.9 El. +49.1 El. +49.3 El. +31.4 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2<	4/16/19	31.2	24.1	28.1	29.0	30.0	
A/25/19 26.8 22.6 26.0 26.1 26.4 Date NCC-231-T1 El. +31.1 NCC-233-T1 El. +31.9 NCC-240-C1 El. +49.1 NCC-240-C2 El. +49.3 NCC-240-T1 El. +31.4 NCC-240-F1 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19	4/19/19	30.6	23.8	27.9	28.6	29.5	
Date NCC-231-T1 El. +31.1 NCC-233-T1 El. +31.9 NCC-240-C1 El. +49.1 NCC-240-C2 El. +49.3 NCC-240-T1 El. +31.4 NCC-240-F1 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.9 <	4/22/19	28.9	23.4	27.0	27.6	28.2	
Date El. +31.1 El. +31.9 El. +49.1 El. +49.3 El. +31.4 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/19/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4	4/25/19	26.8	22.6	26.0	26.1	26.4	
El. +31.1 El. +31.9 El. +49.1 El. +49.3 El. +31.4 El. +32.4 1/22/19 25.8 25.4 24.4 29.2 24.4 24.4 1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/4/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.8 29.5 29.2	Date	NCC-231-T1	NCC-233-T1	NCC-240-C1	NCC-240-C2	NCC-240-T1	NCC-240-F1
1/25/19 25.1 25.0 24.5 25.9 24.5 24.5 2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/19/19	Date	El. +31.1	El. +31.9	El. +49.1	El. +49.3	El. +31.4	El. +32.4
2/5/19 24.5 24.2 24.0 26.8 24.0 24.0 2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8	1/22/19	25.8	25.4	24.4	29.2	24.4	24.4
2/8/19 26.0 25.9 25.4 27.9 25.3 25.3 2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 3	1/25/19	25.1	25.0	24.5	25.9	24.5	24.5
2/15/19 27.6 27.0 26.2 32.7 26.2 26.1 2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4	2/5/19	24.5	24.2	24.0	26.8	24.0	24.0
2/18/19 28.7 28.2 27.4 32.7 27.4 27.4 2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4	2/8/19	26.0	25.9	25.4	27.9	25.3	25.3
2/20/19 28.4 28.2 27.7 31.2 27.6 27.6 2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 -	2/15/19	27.6	27.0	26.2	32.7	26.2	26.1
2/22/19 26.9 27.1 27.0 28.2 26.9 26.9 2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	2/18/19	28.7	28.2	27.4	32.7	27.4	27.4
2/27/19 27.7 27.4 27.2 31.6 27.1 27.1 3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31	2/20/19	28.4	28.2	27.7	31.2	27.6	27.6
3/1/19 29.6 29.2 28.5 33.8 28.4 28.4 3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	2/22/19	26.9	27.1	27.0	28.2	26.9	26.9
3/4/19 29.7 29.4 28.9 33.5 28.9 28.9 3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	2/27/19	27.7	27.4	27.2	31.6	27.1	27.1
3/6/19 29.8 29.5 29.2 33.1 29.2 29.0 3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/1/19	29.6	29.2	28.5	33.8	28.4	28.4
3/8/19 29.9 29.6 29.2 33.6 29.2 29.2 3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/4/19	29.7	29.4	28.9	33.5	28.9	28.9
3/11/19 29.6 29.3 29.1 33.1 29.1 29.1 3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/6/19	29.8	29.5	29.2	33.1	29.2	29.0
3/13/19 29.3 29.0 28.8 32.6 28.8 28.8 3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/8/19	29.9	29.6	29.2	33.6	29.2	29.2
3/15/19 29.0 28.8 28.6 32.0 28.6 28.6 3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/11/19	29.6	29.3	29.1	33.1	29.1	29.1
3/19/19 28.6 28.5 28.4 31.1 28.4 28.4 3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/13/19	29.3	29.0	28.8	32.6	28.8	28.8
3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/15/19	29.0	28.8	28.6	32.0	28.6	28.6
3/22/19 27.9 27.8 7 7 27.9 27.9 3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3	3/19/19	28.6	28.5	28.4	31.1	28.4	28.4
3/26/19 27.5 27.7 27.9 28.3 27.8 27.8 3/29/19 28.7 28.4 28.4 31.6 29.0 28.3			27.8	7	7	27.9	27.9
3/29/19 28.7 28.4 28.4 31.6 29.0 28.3				27.9	28.3		
4/1/19 29.0 28.8 28.8 31.5 28.8 28.8							

Table 2: Natomas Cross Canal South Levee Piezometer Groundwater Surface Elevations

Date	NCC-231-T1	NCC-233-T1	NCC-240-C1	NCC-240-C2	NCC-240-T1	NCC-240-F1
Date	El. +31.1	El. +31.9	El. +49.1	El. +49.3	El. +31.4	El. +32.4
4/8/19	28.9	28.6	28.4	32.1	28.4	28.4
4/10/19	28.8	28.5	28.3	32.0	28.3	28.3
4/12/19	28.8	28.6	28.4	31.9	28.4	28.4
4/16/19	28.4	28.1	27.9	31.7	27.9	27.9
4/19/19	28.2	28.0	27.8	31.1	27.7	27.8
4/22/19	27.3	27.2	27.2	29.4	27.2	27.2
4/25/19	26.3	26.3	26.6	27.0	26.6	26.6

- 1. "El." = ground surface elevation at piezometer location.
- 2. " -- " = Not measured.
- 3. Groundwater elevation in feet (NAVD88)
- 4. Piezometer water levels measured at top of casing
- 5. Well is dry.
- 6. Well is flooded.
- 7. Erroneous data point removed

Table 3: Sacramento River East Levee Piezometer Groundwater Surface Elevations

5.	SREL 1-27-F1	SREL-27-R1	SREL1-27-C1	SREL1-27-C2	SREL1-27-T1
Date	El. +27.4	El. +44.9	El. +48.2	El. +48.7	El. +32.2
1/22/19	15.5	24.1	23.6	5	23.3
1/25/19	19.7	23.7	23.6	5	23.3
2/5/19	19.5	22.8	22.7	5	22.8
2/8/19	20.5	24.9	24.5	5	24.2
2/15/19	6	26.5	25.7	5	25.6
2/18/19	6	28.5	27.7	5	27.2
2/20/19	23.7	28.4	27.9	5	27.4
2/22/19	23.0	27.2	27.0	5	26.6
2/27/19	6	27.2	25.9	5	27.0
3/1/19	6	32.8	29.1	5	28.6
3/4/19	6	30.7	30.1	5	29.3
3/6/19	6	30.9	30.3	5	29.6
3/8/19	6	31.2	30.6	5	29.7
3/11/19	6	31.2	30.5	5	29.7
3/13/19	6	30.8	30.4	5	29.5
3/15/19	6	30.5	30.1	5	29.4
3/19/19	6	30.0	29.5	5	29.1
3/22/19	6	29.5	29.0	5	28.5
3/26/19	6	28.4	28.3	5	28.2
3/29/19	6	29.7	29.2	5	28.9
4/1/19	6	30.1	29.6	5	29.1
4/8/19	6	30.4	30.0	5	29.4
4/10/19	6	30.4	30.0	5	29.3
4/12/19	6	30.4	30.0	5	29.3
4/16/19	6	29.0	29.7	5	29.0
4/19/19	6	29.8	2	5	28.9
4/22/19	6	28.8	28.7	5	28.0
4/25/19	6	27.4	27.6	5	27.0
Date	SREL 1B-72-R1 El. +44.6	SREL 1B-84-R1 El. +44.2	SREL 1B-168- R2 El. +44.3	SREL 1B-195- R1 El. +43.0	
1/22/19	28.2	25.9	14.0	24.5	
1/25/19	25.1	24.8	16.5	21.9	

Table 3: Sacramento River East Levee Piezometer Groundwater Surface Elevations

			SREL 1B-168-	SREL 1B-195-
Date	SREL 1B-72-R1	SREL 1B-84-R1	R2	R1
Dute	El. +44.6	El. +44.2	El. +44.3	El. +43.0
2/5/19	25.2	23.2	17.4	22.2
2/8/19	27.1	26.2	18.7	23.6
2/15/19	30.5	28.1	20.7	27.3
2/18/19	32.0	30.0	30.0	27.4
2/20/19	30.8	29.8	29.3	26.5
2/22/19	28.0	27.9	28.4	24.3
2/27/19	29.2	6	19.2	26.6
3/1/19	32.5	6	18.2	28.3
3/4/19	33.0	32.1	31.8	28.2
3/6/19	32.7	32.3	32.0	27.9
3/8/19	33.1	32.6	32.4	28.2
3/11/19	32.8	7	32.1	27.9
3/13/19	32.3	7	31.7	27.5
3/15/19	31.8	7	31.3	27.1
3/19/19	30.8	30.9	30.6	26.4
3/22/19	29.2	29.6	29.9	25.2
3/26/19	27.9	28.3	29.2	24.3
3/29/19	30.8	30.4	29.6	26.7
4/1/19	31.0	30.7	30.0	26.6
4/8/19	31.7	31.4	30.7	27.0
4/10/19	31.6	31.3	30.7	27.1
4/12/19	31.5	31.3	30.7	26.9
4/16/19	31.5	31.2	30.6	27.0
4/19/19	30.8	30.7	30.2	26.6
4/22/19	29.2	29.4	29.6	25.5
4/25/19	26.8	27.4	28.8	24.5
Date	I-5 Well	SREL 9-423-T1		
Date	El. +26.4	El. +44.2		
1/22/19	12.2	14.1		
1/25/19	12.9	14.2		
2/5/19	13.4	15.0		
2/8/19	14.4	15.6		
2/15/19	16.9	17.4		
2/18/19	18.9	17.8		
2/20/19	19.8	17.9		

Table 3: Sacramento River East Levee Piezometer Groundwater Surface Elevations

Data	I-5 Well	SREL 9-423-T1			
Date	El. +26.4	El. +44.2			
2/22/19	19.9	17.6			
2/27/19	20.3	18.9			
3/1/19	21.5	19.3			
3/4/19	22.5	19.6			
3/6/19	23.6	20.0			
3/8/19	23.2	20.0			
3/11/19	23.0	19.8			
3/13/19	22.8	19.6			
3/15/19	22.7	19.5			
3/19/19	22.3	19.2			
3/22/19	21.8	18.9			
3/26/19	21.8	19.1			
3/29/19	22.0	19.5			
4/1/19	22.2	19.4			
4/8/19	22.2	19.4			
4/10/19	22.2	19.3			
4/12/19	22.2	19.4			
4/16/19	22.0	19.2			
4/19/19	21.8	19.0			
4/22/19	21.3	18.6			
4/25/19	20.6				
_	DH-7-1	DH-7-1			
Date	(shallow)	(deep)	2F-01-05	2F-01-15	2F-01-15
	El. +41.4	El. +41.4	El. +24.1	El. +28.4	El. +23.0
1/22/19	5	5	14.4	8	16.3
1/25/19	 ⁵	12.3	13.9	8	14.5
2/5/19	5	13.8	13.7	8	14.6
2/8/19	5	14.4	14.4	8	16.2
2/15/19	5	16.6	15.8	8	20.4
2/18/19	⁵	17.8	15.8	8	20.6
2/20/19	5	18.9	15.6	8	19.4
2/22/19	5	19.0	15.0	8	18.5
2/27/19	5	18.9	16.4	8	20.9
3/1/19	5	19.9	16.4	8	21.6
3/4/19	5	21.3	16.5	8	21.2

Table 3: Sacramento River East Levee Piezometer Groundwater Surface Elevations

	DH-7-1	DH-7-1			
Date	(shallow)	(deep)	2F-01-05	2F-01-15	2F-01-15
24.0	El. +41.4	El. +41.4	El. +24.1	El. +28.4	El. +23.0
3/6/19	5	21.9	16.3	8	21.2
3/8/19	23.2	22.2	16.1	8	21.3
3/11/19	24.2	22.8	15.6	8	21.0
				8	
3/13/19	24.6	23.1	15.9	8	20.3
3/15/19	24.6	23.1	15.7		19.7
3/19/19	24.3	22.9	15.4	8	18.9
3/22/19	23.9	22.4	15.4	8	14.4
3/26/19	23.4	22.3	15.5	8	17.3
3/29/19	23.1	21.9	15.9	8	19.2
4/1/19	23.3	22.3	15.9	8	19.2
4/8/19	23.7	22.6	15.8	8	20.0
4/10/19	23.8	22.8	15.2	8	19.8
4/12/19	24.0	22.9	15.5	8	19.8
4/16/19	24.0	22.8	15.5	8	19.7
4/19/19	23.9	22.8	15.8	8	19.2
4/22/19	23.6	22.4	15.5	8	18.2
4/25/19	23.2	21.9	15.0	8	16.7
	URS071000_	URS071000_	URS071000_		
Date	700+00C	700+00F	700+00T		
	El. +41.7	El. +24.2	El. +26.5		
1/22/19	10.7	12.6	12.4		
1/25/19	11.1	12.4	12.2		
2/5/19	11.6	11.4	11.1		
2/8/19	11.5	13.0	12.8		
2/15/19	12.6	14.7	14.6		
2/18/19	13.0	15.7	15.6		
2/20/19	13.4	15.8	15.7		
2/22/19	13.6	15.1	14.9		
2/27/19	14.0	15.9	15.7		
3/1/19	14.3	17.2	17.2		
3/4/19	14.9	18.1	17.9		
3/6/19	15.2	16.9	16.7		
3/8/19	15.3	16.6	16.2		

Table 3: Sacramento River East Levee Piezometer Groundwater Surface Elevations

Date	URS071000_ 700+00C El. +41.7	URS071000_ 700+00F El. +24.2	URS071000_ 700+00T El. +26.5
3/11/19	15.6	15.5	15.6
3/13/19	15.7	15.1	15.2
3/15/19	15.8	14.7	14.7
3/19/19	16.0	2	14.2
3/22/19	16.2	15.5	15.4
3/26/19	16.4	15.6	15.4
3/29/19	16.6	16.2	16.1
4/1/19	16.8	16.6	16.5
4/8/19	17.2	16.2	16.1
4/10/19	17.2	15.4	15.3
4/12/19	17.4	15.4	16.3
4/16/19	17.7	16.7	16.3
4/19/19	17.7	16.6	16.4
4/22/19	17.8	16.2	16.1
4/25/19	17.9	15.4	15.2

- 1. "El." = ground surface elevation at piezometer location.
- 2. " -- " = Not measured.
- 3. Groundwater elevation in feet (NAVD88)
- 4. Piezometer water levels measured at top of casing
- 5. Well is dry.
- 6. Well is flooded.
- 7. Well is buried.
- 8. Well not located.

Table 4: American River North Levee Piezometer Groundwater Surface Elevations

Date	MW-1	MW-2
Date	El. +52.0	El. +38.6
1/22/19	12.4	5.8
1/25/19	12.3	6.0
2/5/19	11.5	5.9
2/8/19	12.4	6.1
2/15/19	16.0	7.1
2/18/19	18.1	8.0
2/20/19	18.0	8.4
2/22/19	17.2	8.6
2/27/19	18.2	6
3/1/19	19.5	6
3/4/19	19.9	10.0
3/6/19	20.1	6
3/8/19	20.3	10.4
3/11/19	20.5	10.8
3/13/19	19.9	11.0
3/15/19	19.4	11.0
3/19/19	18.4	10.9
3/22/19	17.6	10.7
3/26/19	16.7	10.5
3/29/19	16.9	10.4
4/1/19	17.2	10.6
4/8/19	18.3	10.9
4/10/19	18.5	11.0
4/12/19	18.7	11.1
4/16/19	18.7	11.2
4/19/19	18.3	11.3
4/22/19	17.8	11.2
4/25/19	17.2	11.0

- "El." = ground surface elevation at piezometer location.
 "-- " = Not measured.
- 3. Groundwater elevation in feet (NAVD88)
- 4. Piezometer water levels measured at top of casing
- 5. Well is dry.
- 6. Well is flooded.

Table 5: Summary of Piezometer Locations

Levee Segment	Approximate Station	Piezometer Name	Figure No.
NCC	3+00	NCC-3-T1	2-1
NCC	21+00	NCC-21-R1, NCC-21-C1, NCC-21-F1	2-1
NCC	53+00	NCC-53-T1	2-2
NCC	56+00	NCC-56-T1	2-2
NCC	58+00	NCC-58-T1	2-2
NCC	61+00	NCC-61-T1	2-2
NCC	63+00	NCC-63-T1	2-2
NCC	116+00	NCC-116-C1, NCC-116-C2, NCC-116-T1	2-3
NCC	118+00	NCC-118-T1	2-3
NCC	121+00	NCC-121-T1	2-3
NCC	123+00	NCC-123-T1	2-3
NCC	125+00	NCC-125-T1	2-3
NCC	135+00	NCC-135-C1, NCC-135-C2, NCC-135-F1	2-3
NCC	183+00	NCC-183-C1, NCC-183-T1	2-4
NCC	221+00	NCC-221-C1, NCC-221-C2, NCC-221-T1	2-4
NCC	223+00	NCC-223-C1, NCC-223-T1	2-4
NCC	228+00	NCC-228-C1, NCC-228-T1, NCC-228-F1	2-4
NCC	231+00	NCC-231-T1	2-4
NCC	233+00	NCC-233-T1	2-4
NCC	240+00	NCC-240-C1, NCC-240-C2, NCC-240-T1, NCC-240-F1	2-5
SREL	27+00	SREL 1-27-R1, SREL 1-27-C1, SREL 1- 27-C2, SREL 1-27-T1, SREL 1-27-F1	2-6
SREL	72+00	SREL 1B-72-R1	2-6
SREL	84+00	SREL 1B-84-R1	2-6
SREL	168+00	SREL 1B-168-R2	2-6
SREL	195+00	SREL 1B-195-R1	2-6
SREL	336+00	SREL 7-336-T1	2-7
SREL	423+00	SREL 9-423-T1	2-7
SREL	449+00	I-5 Well	2-7
SREL	678+00	2F-01-05	2-8
SREL	700+00	URS71000_700-00C, URS71000_700+00T, URS71000_700+00F	2-8
SREL	715+00	DH-7-1 (shallow), DH-7-1 (deep)	2-8
SREL	758+00	2F-01-15	2-8
SREL	810+00	2F-01-19	2-8
ARNL	3339+50	MW-1, MW-2	2-9

LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

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stacy

We appreciate the opportunity to work with you on this project. If you have any questions regarding this report, please contact us.

Respectfully submitted,

KLEINFELDER, INC.

acy Mann

Stacy Mann Staff Toxicologist

Reviewed By:

Timothy A. Williams, PE, GE

Project Manager

ATTACHMENTS

Figure 1-1: Site Location Map

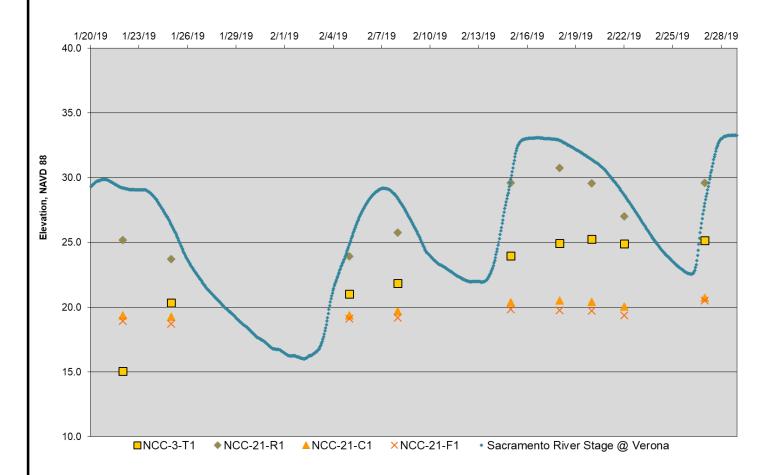
Figures 2-1 through 2-9: Piezometer Location Maps

Figures 3-1 through 3-39: Groundwater Data

Rebecca L. Money, PE, GE Senior Geotechnical Engineer Note: Piezometers match locations on FIGURE 2-1

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Natomas Cross Canal Groundwater Level Elevations - Stations 0+00 to 30+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	3+00	Landside Toe	32.4	NCC-3-T1	Cutoff Wall
	21+00	Riverside	43	NCC-21-R1	
		Crown	49.1	NCC-21-C1	
		Field	21.5	NCC-21-F1	



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CHECKED BY:	B. MONEY
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GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 0+00 TO 30+00
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

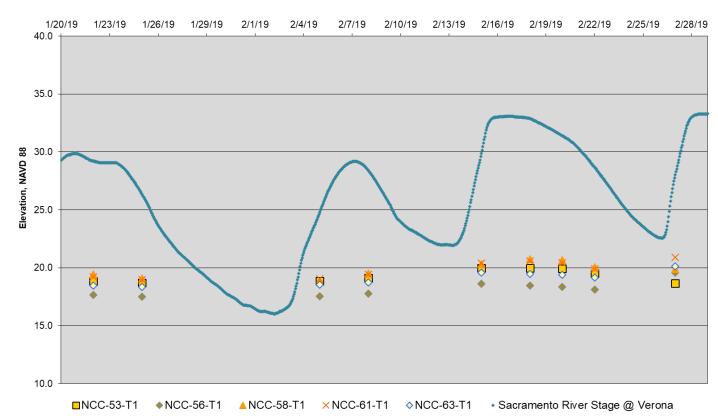
FIGURE

3-1

Note: Piezometers match locations on FIGURE 2-2

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Natomas Cross Canal Groundwater Level Elevations - Stations 30+00 to 80+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	53+00		27.1	NCC-53-T1	Cutoff Wall
	56+00	Landside Toe	28.3	NCC-56-T1	Pumping Plant + Window
	58+00		33.2	NCC-58-T1	Pumping Plant + Window
	61+00		28.1	NCC-61-T1	Cutoff Wall
	63+00		26.4	NCC-63-T1	Cutoff Wall



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GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 30+00 TO 80+00
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

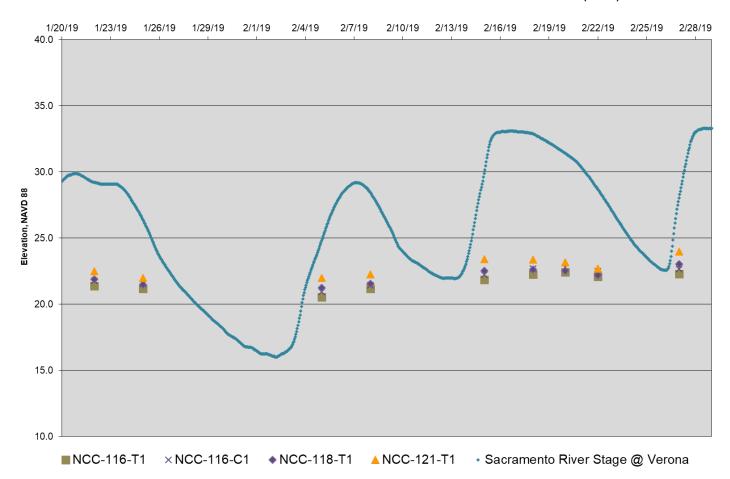
FIGURE

3-2

Note: Piezometers match locations on FIGURE 2-3

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Natomas Cross Canal Groundwater Level Elevations - Stations 105+00 to 160+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC -	116+00	Waterside of COW	49	NCC-116-C1	Cutoff Wall
		Landside of COW	49.1	NCC-116-C2	
		Landside Toe	26.1	NCC-116-T1	
	118+00	Landside Toe	26.3	NCC-118-T1	Cutoff Wall
Note: NCC-116-0	121+00	Landside Toe	32.3	NCC-121-T1	Pumping Plant + Window



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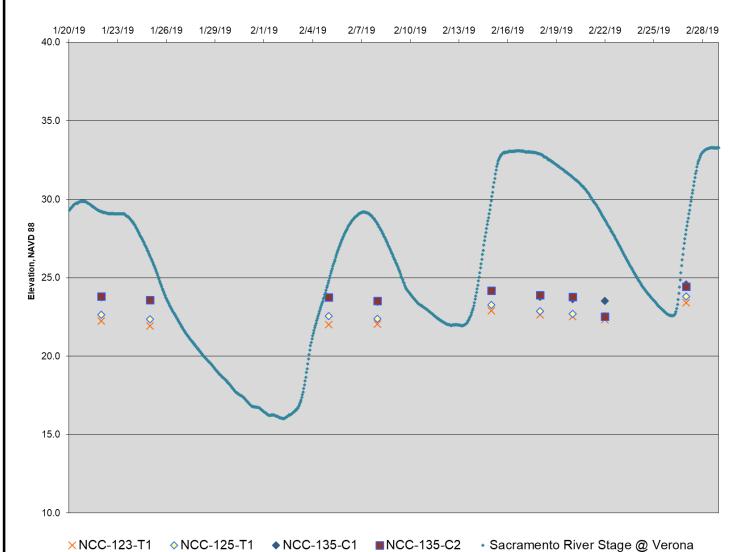
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 105+00 TO 160+00 (1 of 2)
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

3-3

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Natomas Cross Canal Groundwater Level Elevations - Stations 105+00 to 160+00 (2 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	123+00	Landside Toe	49	NCC-123-T1	
	125+00	Landside Toe	49.1	NCC-125-T1	
	The same of the sa	Landside of COW	26.1	NCC-135-C1	Cutoff Wall
	135+00	Waterside of COW	26.3	NCC-135-C2	
	44	Field	32.3	NCC-135-F1	60

Note: NCC-135-F1 destroyed and not measured.



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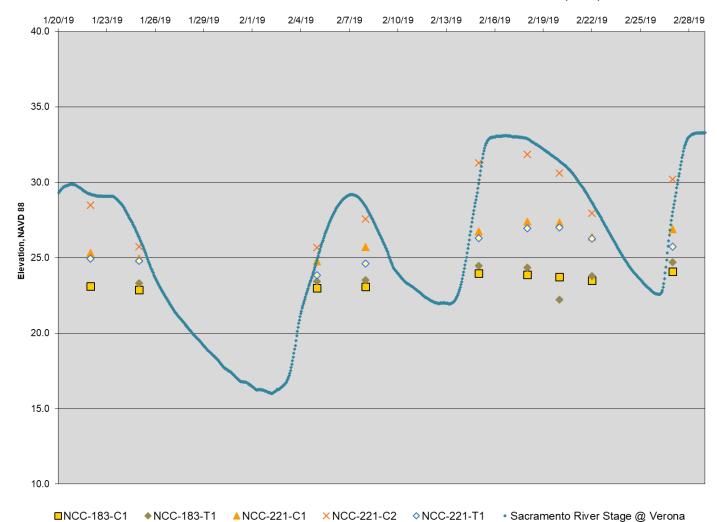
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GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 105+00 TO 160+00 (2 of 2)
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	183+00	Crown	49	NCC-183-C1	Cutoff Wall
		Landside Toe	29.2	NCC-183-T1	
	221+00	Landside of COW	49.2	NCC-221-C1	
		Waterside of COW	49.1	NCC-221-C2	
		Landside Toe	30.6	NCC-221-T1	



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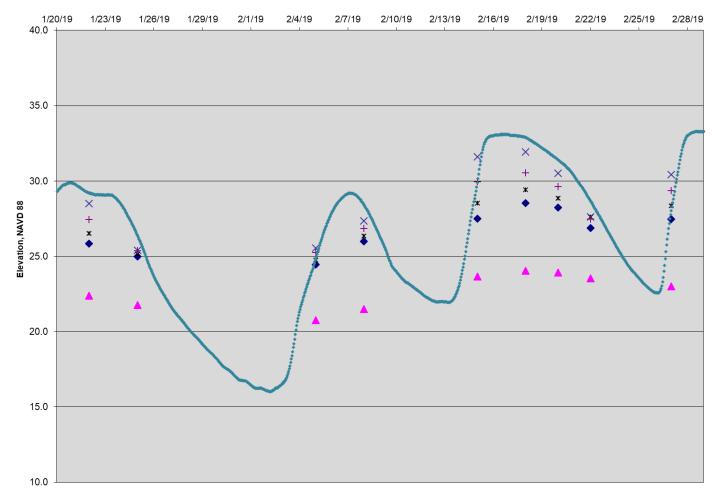
GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 180+00 TO 230+00 (1 of 2) JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (2 of 2)



×NCC-223-C1	▲ NCC-223-T1	◆ NCC-228-F1	* NCC-228-T1	+ NCC-228-C1	 Sacramento River Stage @ Verona
-------------	--------------	--------------	--------------	--------------	---

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	223+00	Crown	49.5	NCC-223-C1	
		Landside Toe	28.1	NCC-223-T1	Highway 99/70
	228+00	Field	31.5	NCC-228-F1	Window
		Landside Toe	30.5	NCC-228-T1	
			46.4	NCC-228-CA	100



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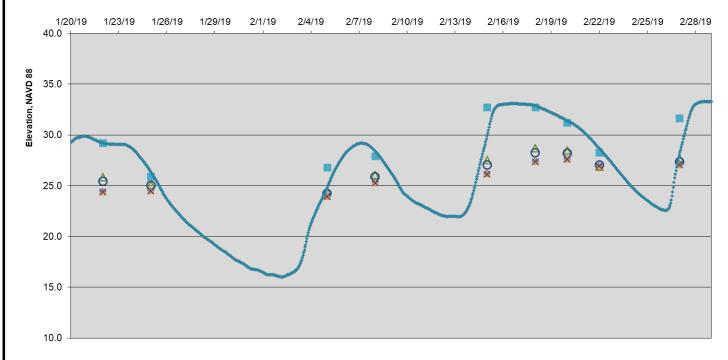
GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE

STATIONS 180+00 TO 230+00 (2 of 2) JANUARY AND FEBRUARY 2019 FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 230+00 to 240+00



△NCC-231-T1 ONCC-233-T1 NCC-240-C1 NCC-240-C2 NCC-240-T1 × NCC-240-F1 Sacramento River Stage @ Verona

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	231+00	Landside Toe	31.1	NCC-231-T1	Highway 99/70
	233+00	Landside Toe	31.9	NCC-233-T1	Cutoff Wall
NCC		Landside of COW	49.1	NCC-240-C1	
NCC		Waterside of COW	49.3	NCC-240-C2	Cutoff Wall
-		Landside Toe	31.4	NCC-240-T1	Cutoli wali
		Field	32.4	NCC-240-F1	
			1,174,5,74,170,1		

Note: 224+00 to 231+00 Hwy 99/70 Window 231+00 to 253+00 Full Cutoff Wall



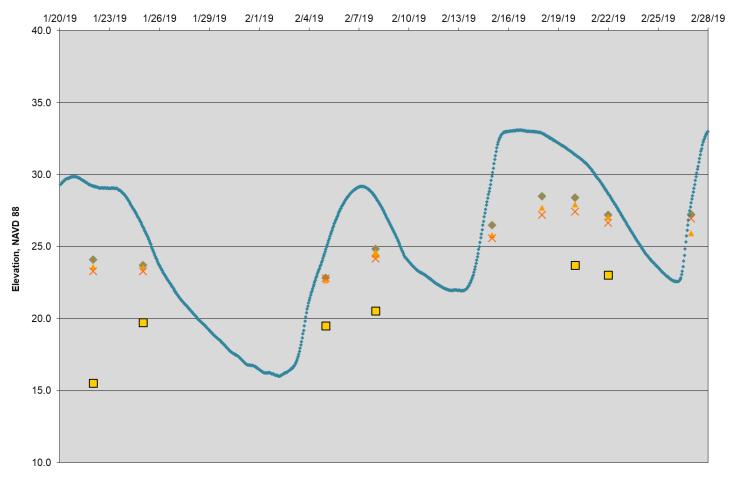
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GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 230+00 TO 240+00
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA FIGURE

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (1 of 2)



□SREL1-27-F1	◆SREL-27-R1	▲ SREL1-27-C1	×SREL1-27-T1	 Sacramento River Stage @ Verona
--------------	-------------	---------------	--------------	---

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	27+00	Field	27.4	SREL-1-27-F1	
		Riverside	44.9	SREL-1-27-R1	- Cutoff Wall
		Waterside of	48.2	SREL-1-27-C1	
		Landside of COW	48.7	SREL-1-27-C2	
			Landside Toe	32.2	SREL-1-27-T1



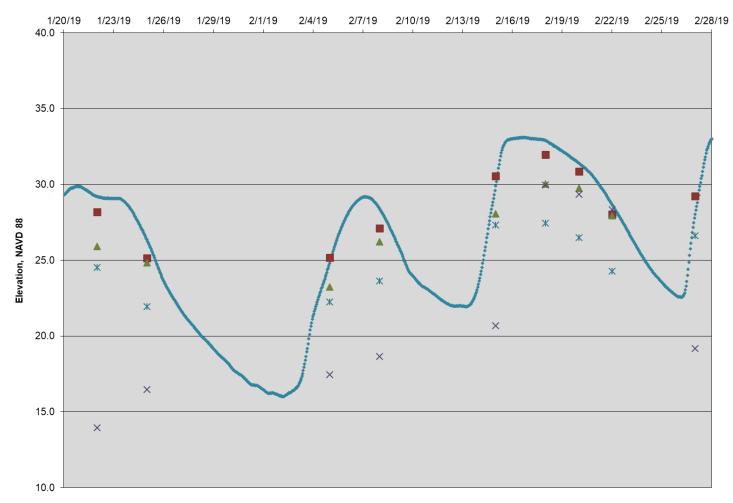
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FILE NAME: GW_Plots.pub GROUNDWATER DATA
SACRAMENTO RIVER EAST LEVEE
STATIONS 0+00 TO 200+00 (1 of 2)
JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (2 of 2)



Sacramento River Stage @ Verona
 ■SREL1B-72-R1
 ▲SREL1B-84-R1
 ×SREL1B-168-R2
 *SREL1B-195-R1

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	72+00	Riverside	44.6	SREL1B-72-R1	
SREL	84+00		44.2	SREL1B-84-R1	Cutoff Wall
SREL	168+00	Riverside	44.3	SREL1B-168-R2	Cuton wan
SREL	195+00		43	SREL1B-195-R1	



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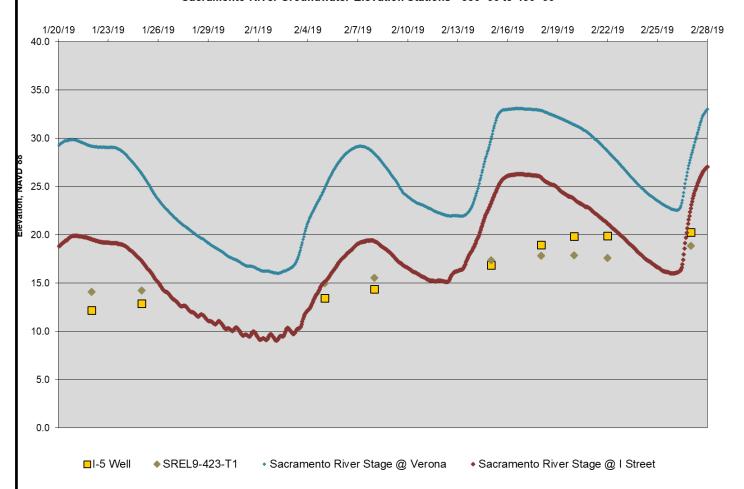
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GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 0+00 TO 200+00 (2 of 2) JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Sacramento River Groundwater Elevation Stations - 330+00 to 450+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	336+00	Landside Toe	34.4	SREL7-336-T1	Cutoff Wall
SREL	423+00	Landside Toe	30.1	SREL9-423-T1	Cuton wan
SREL	449+00	Landside Toe	26.45	I-5 Well	Window

Note:

SREL 7-336-T1 damaged.



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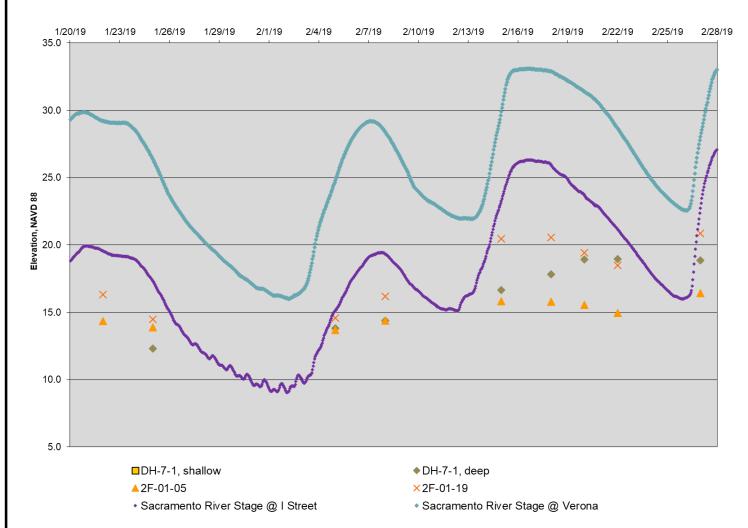
GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 330+00 TO 450+00 JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	678+00	Landside Toe	24.1	2F-01-05	- "
	715+00	Crown	41.4	DH-7-1 (shallow), DH-7-1 (deep)	No Improvement
	758+00	Landside Toe	27.5	2F-01-15	
	810+00	Field	23.0	2F-01-19	- Jan 197

Note:

DH-7-1 Shallow was encountered to be dry.

2F-01-15 could not be located.



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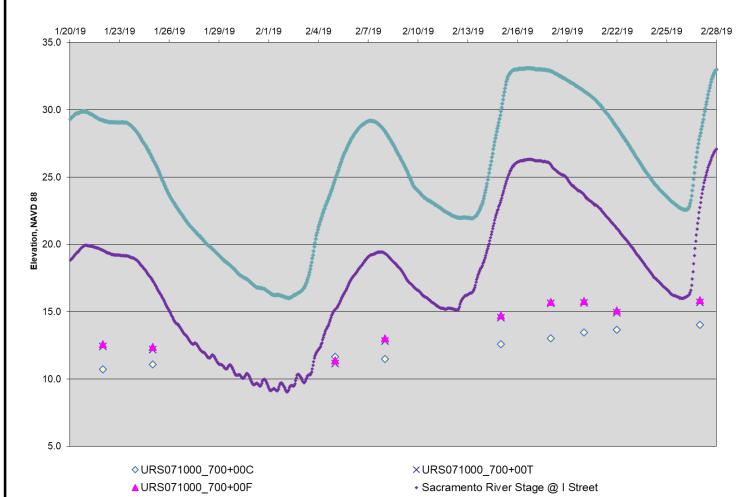
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GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (1 of 2) JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (2 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL		Crown	41.7	URS71000_700+00C	
	700+00	Landside Toe	26.5	URS71000_700+00T	No Improvement
		Field	24.2	URS71000_700+00F	
		65 16/10/0 Arrood 191	W/504 W6/1	TR BEARDON REMODERATE OF SHASE	

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Sacramento River Stage @ Verona

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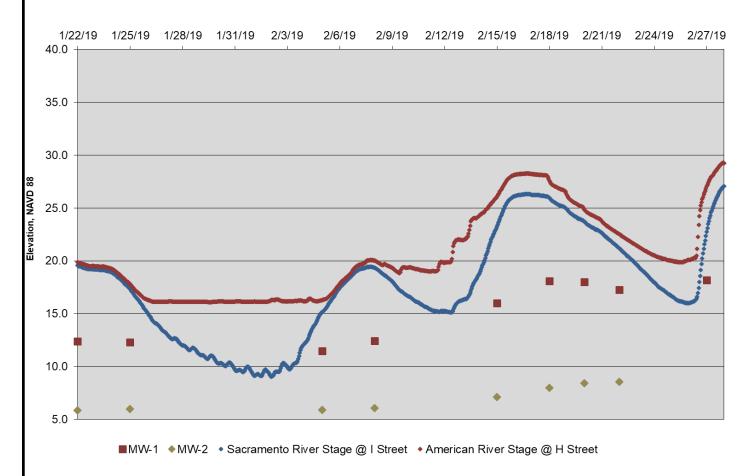
GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (2 of 2) JANUARY AND FEBRUARY 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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American River Groundwater Level Elevations



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
ARNL	3339+50	Landside of COW	52.0	MW-1	- Cutoff Wall
	3333+30	Landside Toe	38.6	MW-2	



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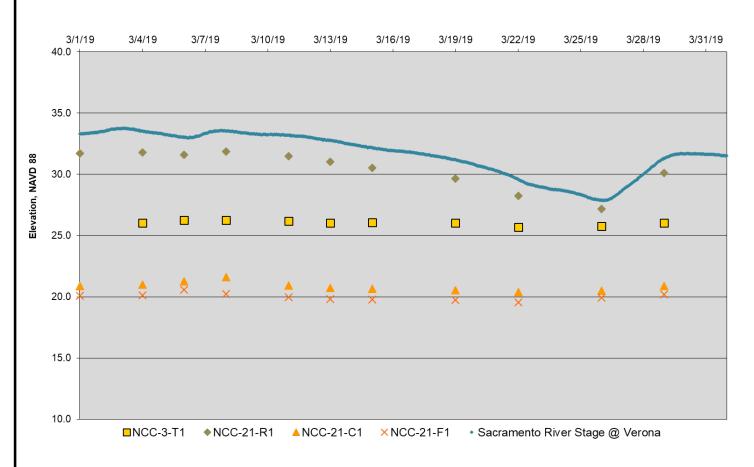
GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

GROUNDWATER DATA

AMERICAN RIVER NORTH LEVEE STATION 3330+00 to 3350+00 JANUARY AND FEBRUARY 2019 **FIGURE**

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Natomas Cross Canal Groundwater Level Elevations - Stations 0+00 to 30+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	3+00	Landside Toe	32.4	NCC-3-T1	Cutoff Wall
NCC		Riverside	43	NCC-21-R1	
NCC	21+00	Crown	49.1	NCC-21-C1	
5 1705 AA		Field	21.5	NCC-21-F1	0 501 15



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SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA GW_Plots.pub

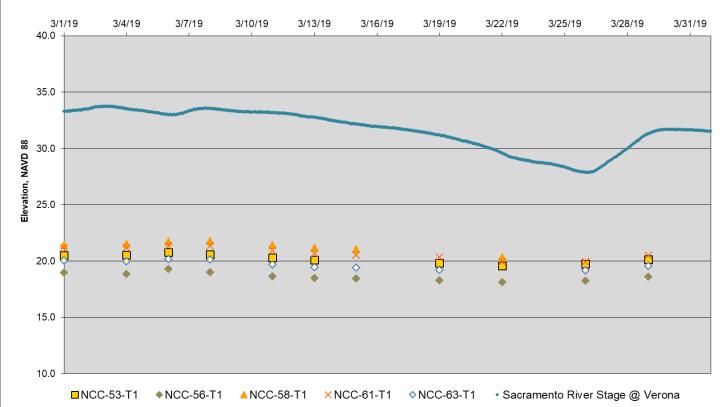
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 0+00 TO 30+00 **MARCH 2019**

FIGURE

GROUNDWATER LEVEL DATA REPORT

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Natomas Cross Canal Groundwater Level Elevations - Stations 30+00 to 80+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
NCC	53+00	12.000	27.1	NCC-53-T1	Cutoff Wall
	56+00	Landside Toe	28.3	NCC-56-T1	Pumping Plant + Window
	58+00		33.2	NCC-58-T1	Pumping Plant + Window
	61+00		28.1	NCC-61-T1	Cutoff Wall
	63+00		26.4	NCC-63-T1	Cutoff Wall



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GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
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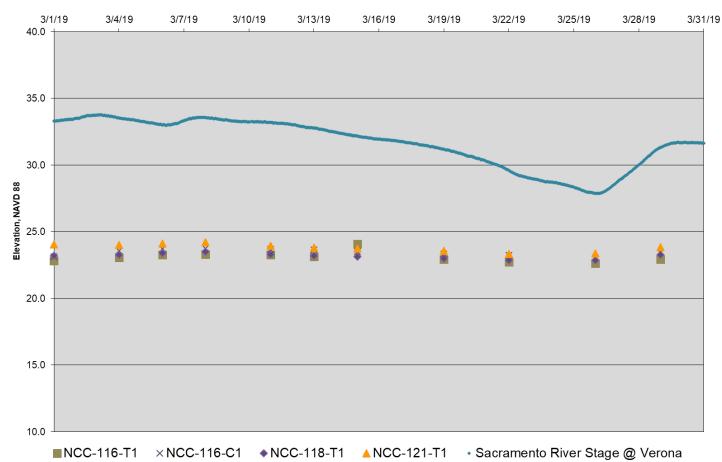
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 30+00 TO 80+00
MARCH 2019

FIGURE

|3-1է

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Natomas Cross Canal Groundwater Level Elevations - Stations 105+00 to 160+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
		Waterside of COW	49	NCC-116-C1	A STATE SAME SAME
	116+00	Landside of COW	49.1	NCC-116-C2	Cutoff Wall
NCC		Landside Toe	26.1	NCC-116-T1	300000000000000000000000000000000000000
NCC	118+00	Landside Toe	26.3	NCC-118-T1	Cutoff Wall
	121+00	Landside Toe	32.3	NCC-121-T1	Pumping Plant - Window

Note: NCC-116-C2 dry.



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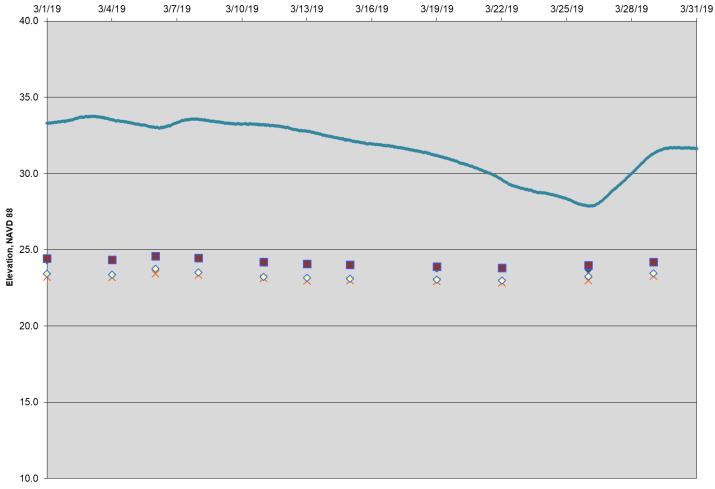
GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 105+00 TO 160+00 (1 of 2) MARCH 2019

3-16

FIGURE

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Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
123+00	Landside Toe	49	NCC-123-T1	Cutoff Wall
125+00	Landside Toe	49.1	NCC-125-T1	
	Landside of COW	26.1	NCC-135-C1	
135+00	Waterside of COW	26.3	NCC-135-C2	
	Field	32.3	NCC-135-F1	
	123+00 125+00	123+00 Landside Toe 125+00 Landside Toe Landside of COW Landside of COW	123+00 Landside Toe 49 125+00 Landside Toe 49.1 Landside of COW 26.1 Waterside of COW 26.3	123+00 Landside Toe 49 NCC-123-T1 125+00 Landside Toe 49.1 NCC-125-T1 Landside of COW 26.1 NCC-135-C1 135+00 Waterside of COW 26.3 NCC-135-C2

Note: NCC-135-F1 destroyed and not measured.



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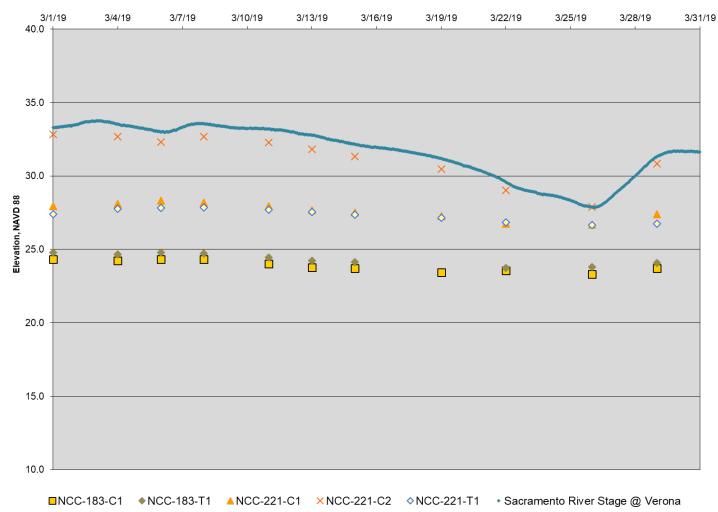
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 105+00 TO 160+00 (2 of 2)
MARCH 2019

3-17

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	183+00	Crown	49	NCC-183-C1	Cutoff Wall
1900		Landside Toe	29.2	NCC-183-T1	
NCC	NCC 221+00	Landside of COW	49.2	NCC-221-C1	
		Waterside of COW	49.1	NCC-221-C2	
-04	45.55	Landside Toe	30.6	NCC-221-T1	
					17



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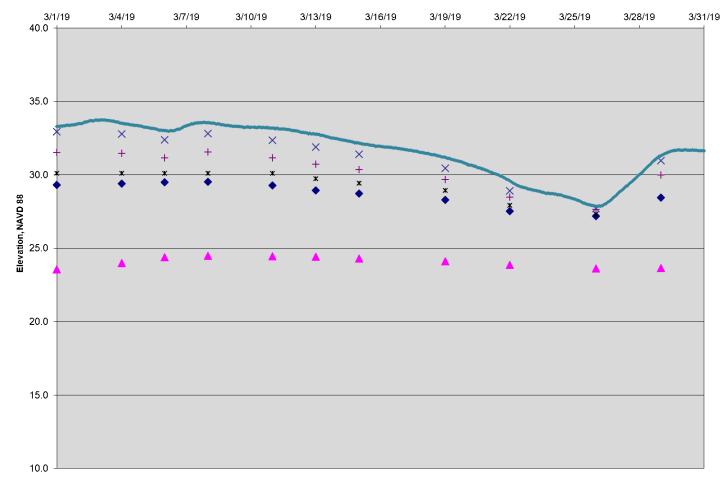
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 180+00 TO 230+00 (1 of 2)
MARCH 2019

3-18

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (2 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	223+00	Crown	49.5	NCC-223-C1	
	223+00	Landside Toe	28.1	NCC-223-T1	Highway 99/70
NCC		Field	31.5	NCC-228-F1	Window
	228+00	Landside Toe	30.5	NCC-228-T1	
		Crown	46.4	NCC-228-CA	

* NCC-228-T1

+ NCC-228-C1

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◆NCC-228-F1

GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 180+00 TO 230+00 (2 of 2) MARCH 2019

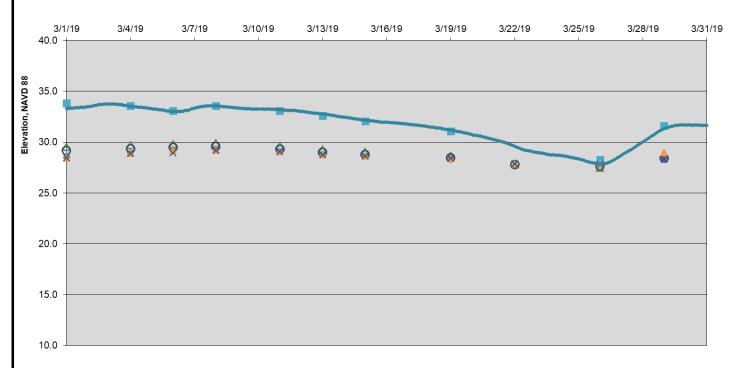
Sacramento River Stage @ Verona

⊣3-19

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 230+00 to 240+00



△NCC-231-T1 ONCC-233-T1 NCC-240-C1 NCC-240-C2 NCC-240-T1 × NCC-240-F1 Sacramento River Stage @ Verona

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	231+00	Landside Toe	31.1	NCC-231-T1	Highway 99/70
	233+00	Landside Toe	31.9	NCC-233-T1	Cutoff Wall
NCC	NCC 240+00	Landside of COW	49.1	NCC-240-C1	- Cutoff Wall
NCC		Waterside of COW	49.3	NCC-240-C2	
1/2		Landside Toe	31.4	NCC-240-T1	
	0.0	Field	32.4	NCC-240-F1	0.0

Note: 224+00 to 231+00 Hwy 99/70 Window 231+00 to 253+00 Full Cutoff Wall



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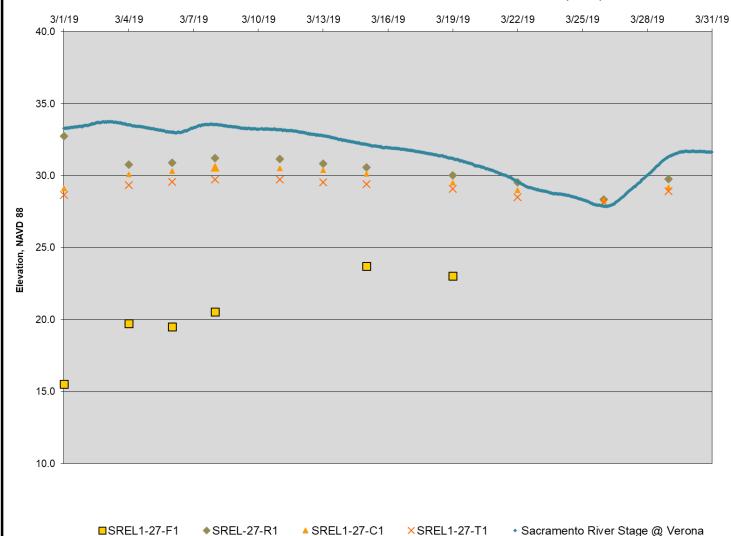
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 230+00 TO 240+00
MARCH 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL 27+00		Field	27.4	SREL-1-27-F1	
	07.00	Riverside	44.9	SREL-1-27-R1	
	27+00	Waterside of	48.2	SREL-1-27-C1	Cutoff Wall
		Landside of COW	48.7	SREL-1-27-C2	1
	Landside Toe	32.2	SREL-1-27-T1	8	



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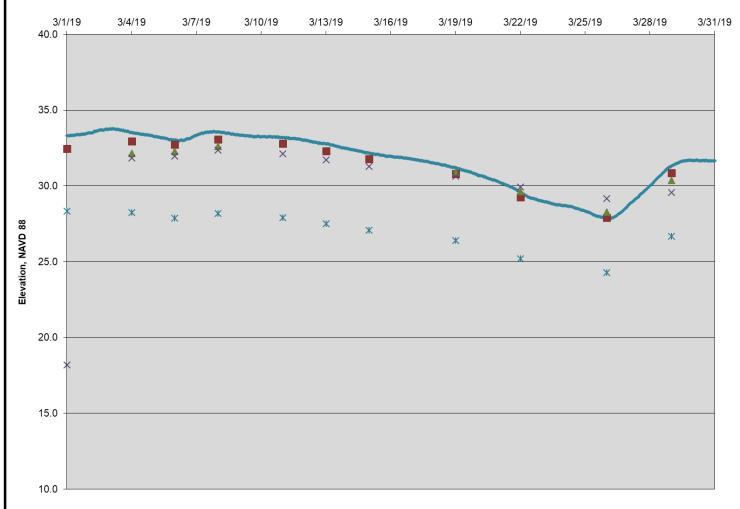
GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 0+00 TO 200+00 (1 of 2) MARCH 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA FIGURE

|3-21

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (2 of 2)



Sacramento River Stage @ Verona ■SREL1B-72-R1 ▲SREL1B-84-R1 ×SREL1B-168-R2 **SREL1B-195-R1

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	72+00	Riverside	44.6	SREL1B-72-R1	
SREL	84+00		44.2	SREL1B-84-R1	Cutoff Wall
SREL	168+00		44.3	SREL1B-168-R2	Cutoli Wali
SREL	195+00	8	43	SREL1B-195-R1	
		S. (1)			



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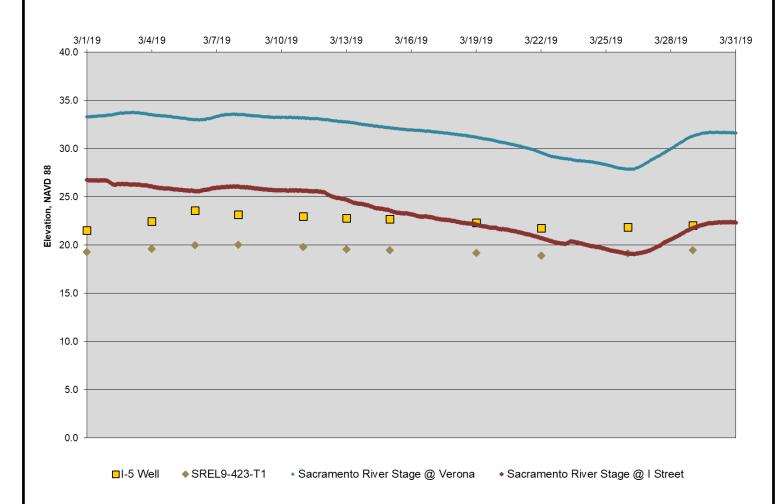
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GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 0+00 TO 200+00 (2 of 2) MARCH 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA FIGURE

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Sacramento River Groundwater Elevation Stations - 330+00 to 450+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	336+00	Landside Toe	34.4	SREL7-336-T1	Cutoff Wall
SREL	423+00	Landside Toe	30.1	SREL9-423-T1	Cutoli wali
SREL	449+00	Landside Toe	26.45	I-5 Well	Window

Note:

SREL 7-336-T1 damaged.



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GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 330+00 TO 450+00 MARCH 2019

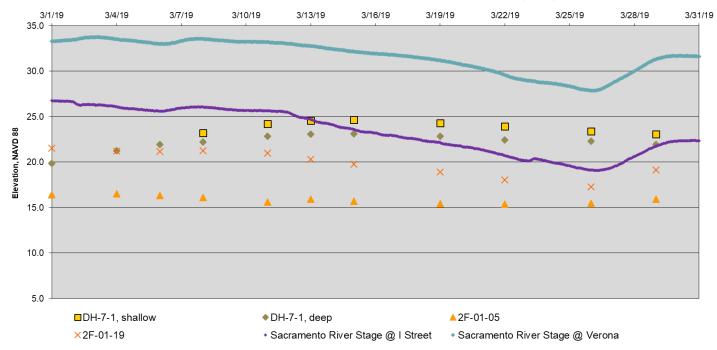
GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

|3-23

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	678+00	Landside Toe	24.1	2F-01-05	
SREL	715+00	Crown	41.4	DH-7-1 (shallow), DH-7-1 (deep)	No Improvement
1214 100 100 110	758+00	Landside Toe	27.5	2F-01-15	
	810+00	Field	23.0	2F-01-19	

Note:

DH-7-1 Shallow was encountered to be dry.

2F-01-15 could not be located.



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GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
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SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

GROUNDWATER DATA

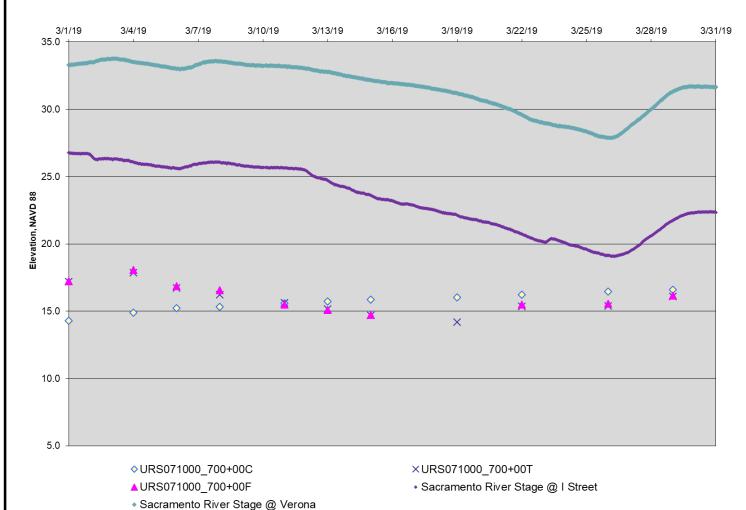
SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (1 of 2)

MARCH 2019

FIGURE

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (2 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	Section 1 Toward	Crown	41.7	URS71000_700+00C	
SREL	700+00	Landside Toe	26.5	URS71000_700+00T	No Improvement
		Field	24.2	URS71000_700+00F	8

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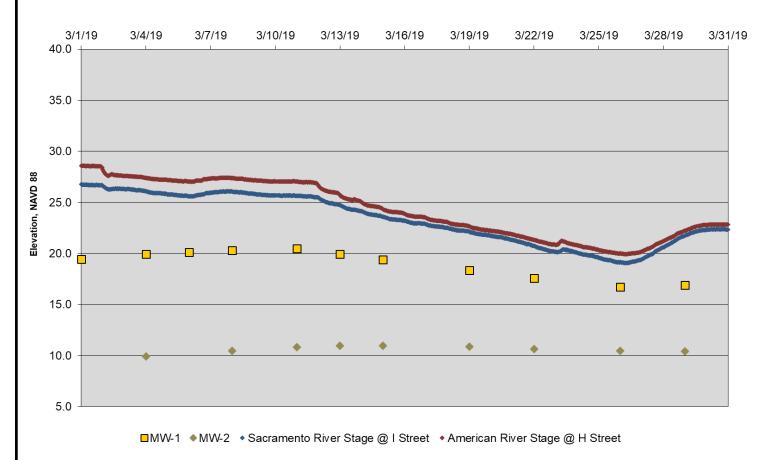
GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (2 of 2) MARCH 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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American River Groundwater Level Elevations



	Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	ARNL	3339+50	Landside of COW	52.0	MW-1	Cutoff Wall
	ARIVL	3339+30	Landside Toe	38.6	MW-2	Cuton wan
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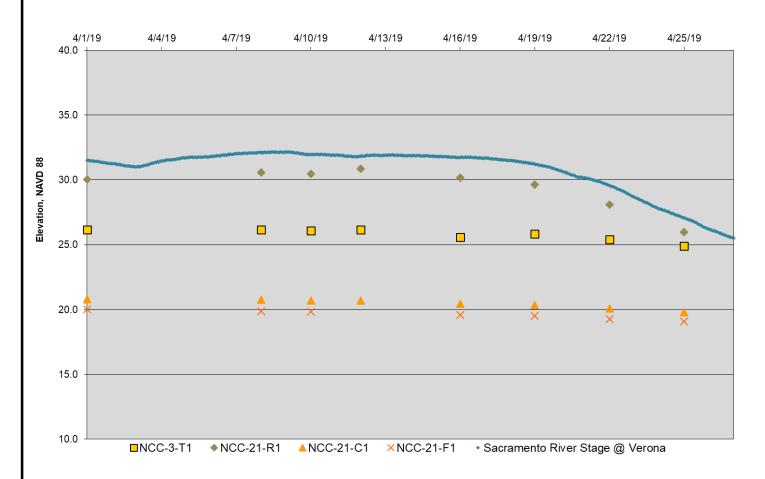
GROUNDWATER DATA AMERICAN RIVER NORTH LEVEE STATION 3330+00 to 3350+00 MARCH 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 0+00 to 30+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments	
NCC	3+00	Landside Toe	32.4	NCC-3-T1		
	NOC		Riverside	43	NCC-21-R1	Cutoff Wall
	21+00	Crown	49.1	NCC-21-C1	Cuton wan	
		Field	21.5	NCC-21-F1	20	

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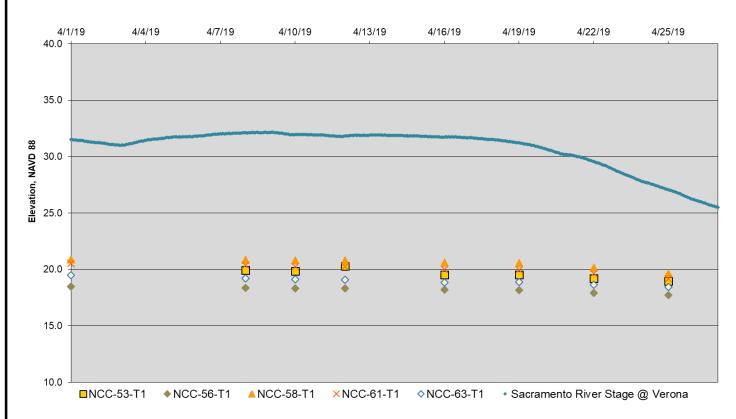
GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 0+00 TO 30+00 APRIL 2019

∣3-27

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 30+00 to 80+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments	
	53+00		27.1	NCC-53-T1	Cutoff Wall	
NCC		56+00		28.3	NCC-56-T1	Pumping Plant + Window
	58+00	Landside Toe	33.2	NCC-58-T1	Pumping Plant + Window	
	61+00		28.1	NCC-61-T1	Cutoff Wall	
	63+00		26.4	NCC-63-T1	Cutoff Wall	



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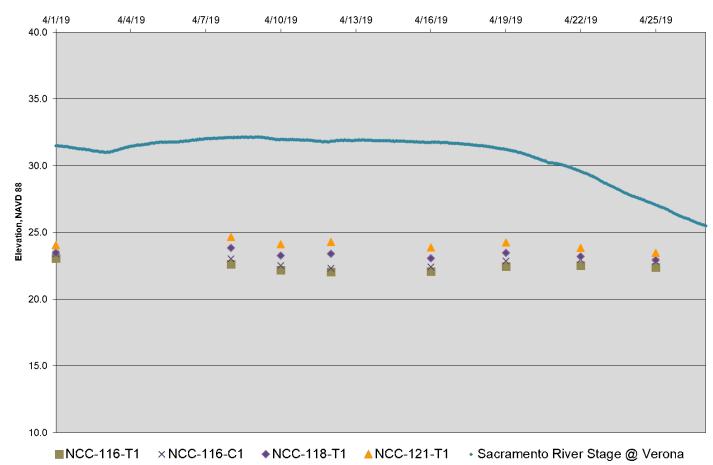
GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 30+00 TO 80+00 APRIL 2019

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
SACRAMENTO AND AMERICAN RIVERS
SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 105+00 to 160+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	116+00	Waterside of COW	49	NCC-116-C1	Cutoff Wall
NCC		Landside of COW	49.1	NCC-116-C2	
		Landside Toe	26.1	NCC-116-T1	
	118+00	Landside Toe	26.3	NCC-118-T1	Cutoff Wall
	121+00	Landside Toe	32.3	NCC-121-T1	Pumping Plant + Window

Note: NCC-116-C2 dry.



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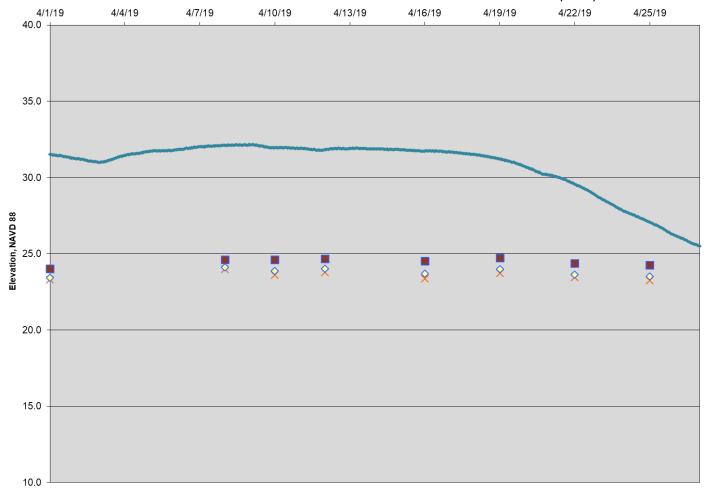
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 105+00 TO 160+00 (1 of 2)
APRIL 2019

7 -

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 105+00 to 160+00 (2 of 2)



×NCC-123-T1 ♦ NCC-125-T1 ♦ NCC-135-C1 ■NCC-135-C2 • Sacramento River Stage @ Verona

Laura Cammana	A	1 6 (-)	Floredian	Discount de Manue	C
Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	123+00	Landside Toe	49	NCC-123-T1	
1,752	125+00	Landside Toe	49.1	NCC-125-T1	100000000000000000000000000000000000000
NCC		Landside of COW	26.1	NCC-135-C1	Cutoff Wall
1000	135+00	Waterside of COW	26.3	NCC-135-C2	
78		Field	32.3	NCC-135-F1	100

Note: NCC-135-F1 destroyed and not measured.



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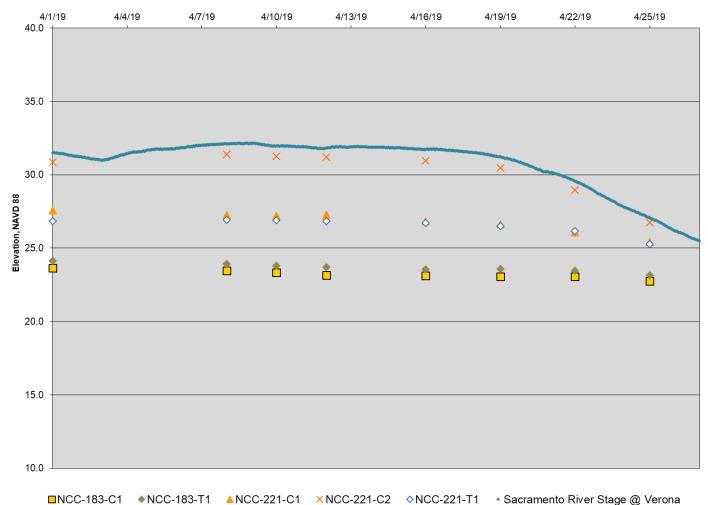
GROUNDWATER DATA
NATOMAS CROSS CANAL SOUTH LEVEE
STATIONS 105+00 TO 160+00 (2 of 2)
APRIL 2019

-|3-3

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (1 of 2)



Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
102:00	Crown	49	NCC-183-C1	
163+00	Landside Toe 29	29.2	NCC-183-T1	41 100000000000000000000000000000000000
	Landside of COW	49.2	NCC-221-C1	Cutoff Wall
	Waterside of COW	49.1	NCC-221-C2	
	Landside Toe	30.6	NCC-221-T1	100
	183+00	183+00 Crown Landside Toe Landside of COW 221+00 Waterside of COW	183+00 Crown 49 Landside Toe 29.2 Landside of COW 49.2 221+00 Waterside of COW 49.1	Crown 49 NCC-183-C1 Landside Toe 29.2 NCC-183-T1 Landside of COW 49.2 NCC-221-C1 221+00 Waterside of COW 49.1 NCC-221-C2



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GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

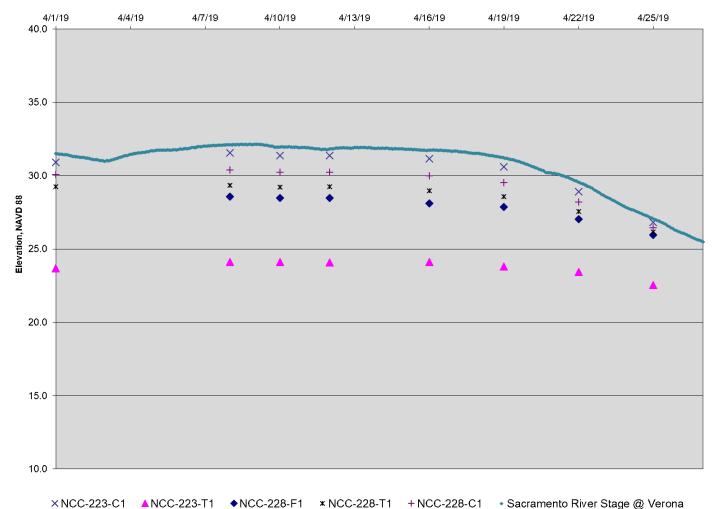
GROUNDWATER DATA

NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 180+00 TO 230+00 (1 of 2)

FIGURE

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Natomas Cross Canal Groundwater Level Elevations - Stations 180+00 to 230+00 (2 of 2)



Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
222.00	Crown	49.5	NCC-223-C1	
223+00	Landside Toe	28.1 NO	NCC-223-T1	Highway 99/70 Window
21-21-22-27	Field	31.5	NCC-228-F1	
228+00	Landside Toe	30.5	NCC-228-T1	
	Crown	46.4	NCC-228-CA	
	223+00	223+00	Crown 49.5 Landside Toe 28.1 Field 31.5 228+00 Landside Toe 30.5	Crown 49.5 NCC-223-C1 Landside Toe 28.1 NCC-223-T1 Field 31.5 NCC-228-F1 228+00 Landside Toe 30.5 NCC-228-T1



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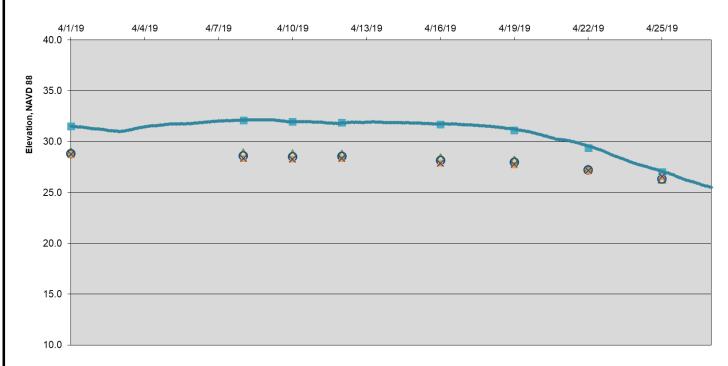
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GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 180+00 TO 230+00 (2 of 2) **APRIL 2019**

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Natomas Cross Canal Groundwater Level Elevations - Stations 230+00 to 240+00



△NCC-231-T1 ONCC-233-T1 ♦ NCC-240-C1 ■NCC-240-C2 ▲ NCC-240-T1 × NCC-240-F1 ◆ Sacramento River Stage @ Verona

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	231+00	Landside Toe	31.1	NCC-231-T1	Highway 99/70
	233+00	Landside Toe	31.9	NCC-233-T1	Cutoff Wall
NCC	240+00	Landside of COW	49.1	NCC-240-C1	Cutoff Wall
		Waterside of COW	49.3	NCC-240-C2	
		Landside Toe	31.4	NCC-240-T1	
		Field	32.4	NCC-240-F1	

Note: 224+00 to 231+00 Hwy 99/70 Window 231+00 to 253+00 Full Cutoff Wall



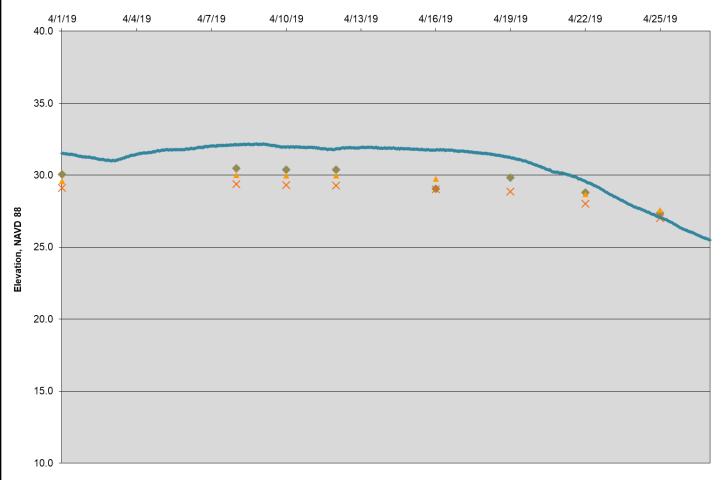
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DRAWN:	6/6/2019
DRAWN BY:	S. MANN
CHECKED BY:	B. MONEY
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GROUNDWATER DATA NATOMAS CROSS CANAL SOUTH LEVEE STATIONS 230+00 TO 240+00 APRIL 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA FIGURE

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (1 of 2)



□SREL1-27-F1 ◆SREL-27-R1 ▲SREL1-27-C1 ×SREL1-27-T1 • Sacramento River Stage @ Verona

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	2000	Field	27.4	SREL-1-27-F1	
	07.00	Riverside	44.9	SREL-1-27-R1	O. 4-#-W-II
	Land	Waterside of	48.2	SREL-1-27-C1	- Cutoff Wall
		Landside of COW	48.7	SREL-1-27-C2	
		Landside Toe	32.2	SREL-1-27-T1	-04



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SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA

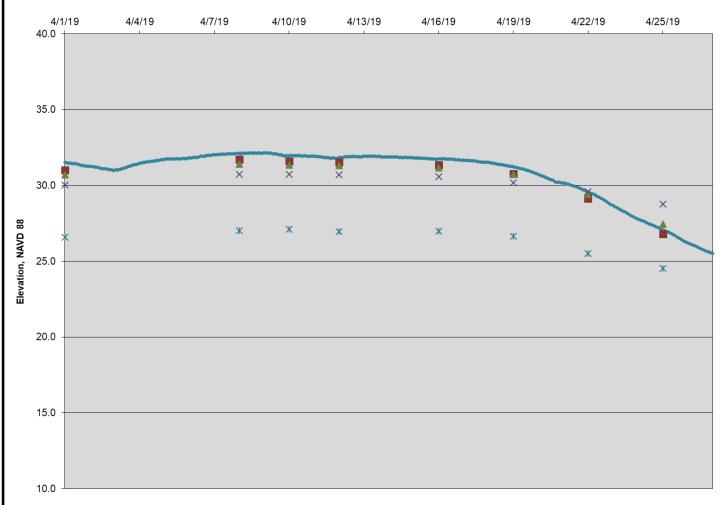
GROUNDWATER DATA

SACRAMENTO RIVER EAST LEVEE STATIONS 0+00 TO 200+00 (1 of 2)

FIGURE

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Sacramento River Groundwater Level Elevations - Stations 0+00 to 200+00 (2 of 2)



• Sacramento River Stage @ Verona ■SREL1B-72-R1 ▲SREL1B-84-R1 ×SREL1B-168-R2 **SREL1B-195-R1

Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	72+00	Riverside	44.6	SREL1B-72-R1	
SREL	84+00		44.2	SREL1B-84-R1	Cutoff Wall
SREL	168+00	Riverside	44.3	SREL1B-168-R2	Cuton Wan
SREL	195+00		43	SREL1B-195-R1	



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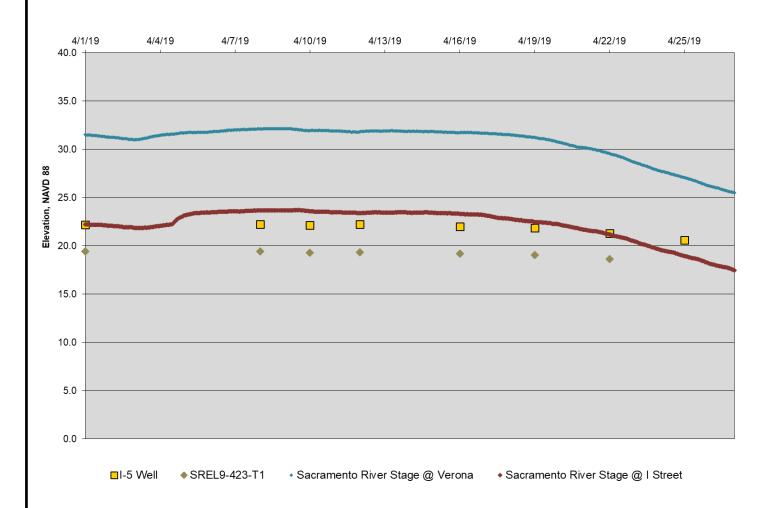
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GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 0+00 TO 200+00 (2 of 2) APRIL 2019

GROUNDWATER LEVEL DATA REPORT NATOMAS CROSS CANAL AND SACRAMENTO AND AMERICAN RIVERS SACRAMENTO AND SUTTER COUNTIES, CALIFORNIA **FIGURE**

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Sacramento River Groundwater Elevation Stations - 330+00 to 450+00



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
SREL	336+00	Landside Toe	34.4	SREL7-336-T1	Cutoff Wall
SREL	423+00	Landside Toe	30.1	SREL9-423-T1	Cuton wan
SREL	449+00	Landside Toe	26.45	I-5 Well	Window

Note:

SREL 7-336-T1 damaged.



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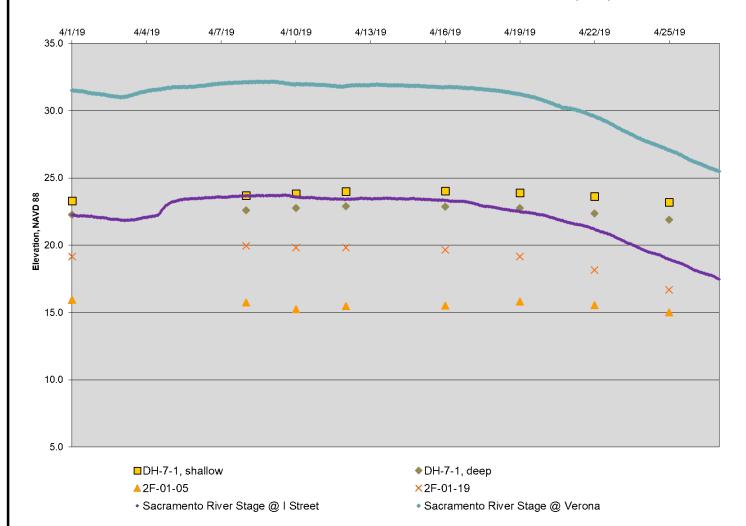
GROUNDWATER DATA SACRAMENTO RIVER EAST LEVEE STATIONS 330+00 TO 450+00 APRIL 2019

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FIGURE

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (1 of 2)



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	678+00	Landside Toe	24.1	2F-01-05	
SREL	715+00	Crown	41.4	DH-7-1 (shallow), DH-7-1 (deep)	No Improvement
	758+00	Landside Toe	27.5	2F-01-15	
	810+00	Field	23.0	2F-01-19	

Note:

DH-7-1 Shallow was encountered to be dry.

2F-01-15 could not be located.



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GROUNDWATER DATA

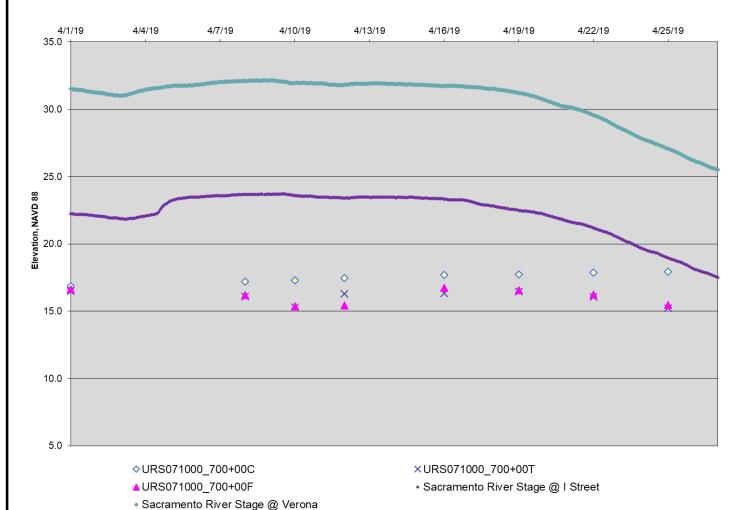
SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (1 of 2)

APRIL 2019

FIGURE

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Sacramento River Groundwater Elevations - Stations 670+00 to 830+00 (2 of 2)



Approximate Station	Location(s)	Elevation	Piezometer Name	Comments
	Crown	41.7	URS71000_700+00C	A THE CASE AND A SECOND CONTRACTOR
700+00	Landside Toe	26.5	URS71000_700+00T	No Improvement
	Field	24.2	URS71000_700+00F	
		700+00 Crown Landside Toe	700+00 Crown 41.7 Landside Toe 26.5	700+00 Crown 41.7 URS71000_700+00C Landside Toe 26.5 URS71000_700+00T



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NATOMAS CROSS CANAL AND
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GROUNDWATER DATA

SACRAMENTO RIVER EAST LEVEE STATIONS 670+00 TO 830+00 (2 of 2)

APRIL 2019

FIGURE

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American River Groundwater Level Elevations



Levee Segment	Approximate Station	Location(s)	Elevation	Piezometer Name	Comments

52.0

38.6

Landside of COW

Landside Toe

3339+50

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GROUNDWATER DATA AMERICAN RIVER NORTH LEVEE STATION 3330+00 to 3350+00 APRIL 2019

MW-1

MW-2

GROUNDWATER LEVEL DATA REPORT
NATOMAS CROSS CANAL AND
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FIGURE

Cutoff Wall