

TECHNICAL MEMORANDUM

To:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Dana Grady
Date:	June 30, 2021
Subject:	Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum which summarizes Tetra Tech's progress during May 2021 toward successfully implementing the Las Vegas Wash Bioremediation Pilot Study.

Task Progress Update: May 2021

Task M19 - Las Vegas Wash Pilot Study

- Current Status
 - Injections The first injection event was completed in December 2020 and included injections into all three pilot study zones (Zone 1, 2, and 3) within the alluvium and/or Upper Muddy Creek formation (UMCf). A summary of the first injection event was provided in the January 2021 monthly progress report. The second injection event was performed from April 12, 2021 to April 21, 2021 and included injections into only the Zone 2 alluvium. Due to slower groundwater flow rates in the UMCf, the next round of injections into Zones 1, 2, and 3 UMCf will likely not occur until fourth quarter 2021. During the second injection event into the Zone 2 alluvium, all injection wells accepted the targeted design quantity of carbon substrate solution and follow-up distribution water. A layout map and construction details of all injection, monitoring, and extraction wells are provided on Figures 1 through 4 and Table 1. A photographic log and details of the second injection event, including a summary of injection rates, pressures, quantities, and specific gravity information were included in the April 2021 monthly progress report.
 - Effectiveness Monitoring Baseline groundwater sampling was completed in the fall of 2020 prior to the first injection event. The monitoring program described in the NDEP-approved Las Vegas Wash Bioremediation Pilot Study Work Plan Addendum (referred to as Work Plan Addendum) was subsequently implemented to evaluate the effectiveness of in-situ bioremediation. As part of this monitoring program, groundwater sampling was conducted on a biweekly basis for the Zone 2 alluvium for the first two months post-injection and was followed by a monthly sampling program thereafter, which is ongoing. Groundwater sampling for the UMCf and UMCf-coarse

grained (UMCf-cg) in Zones 1, 2, and 3 has been conducted monthly over the first four months following the first injection event. In accordance with the Work Plan Addendum, groundwater sampling frequencies in the UMCf and UMCf-cg were reduced to a bi-monthly basis approximately four months after the first injection event (beginning in May 2021) due to the slower groundwater flow rates present in the UMCf. Bi-monthly sampling will continue until the next injection event into the UMCf/UMCf-cg in Zones 1, 2, and 3, at which time monthly sampling will resume. Available groundwater analytical results from the baseline sampling event and subsequent effectiveness monitoring events performed from December 2020 to April 2021 (two biweekly sampling events and the first four monthly sampling events following injections) are provided on Table 2. Results from the sampling event conducted four months post-injection (April 2021) are summarized below. Groundwater analytical results from the fifth monthly groundwater sampling event recently conducted from May 4, 2021 through May 8, 2021 will be provided in future monthly progress reports as data become available.

Zone 2 Alluvium:

- Groundwater samples collected from cross-gradient monitoring wells LVWPS-A2-MW04A/B and LVWPS-A2-MW05A/B, which are located approximately 17 feet from each end of the Zone 2 injection well transect, continue to exhibit perchlorate concentration decreases ranging from 37 to greater than 99 percent reduction when compared to baseline concentrations. Perchlorate concentrations in groundwater samples collected from LVWPS-A2-MW05B continue to exhibit perchlorate concentrations below detection limits.
- Groundwater samples collected from the 14 monitoring wells located approximately 50 to 100 feet downgradient of the injection well transect exhibited an overall average percentage decrease in groundwater perchlorate concentrations (compared to baseline concentrations) of 49 percent during the fourth monthly post-injection sampling event (April 2021). Groundwater samples collected from four of these 14 monitoring wells continue to exhibit perchlorate concentration reductions of greater than 90 percent when compared to baseline. Additionally, groundwater samples collected from LVWPS-A2-MW09A/B exhibited the lowest perchlorate concentrations measured to date four months after injections.
- Groundwater samples collected four months after injection activities from monitoring wells LVWPS-MW208B and LVWPS-MW223B, which are located approximately 200-250 feet downgradient from the injection well transect, exhibited perchlorate concentration decreases of 84 percent and 55 percent, respectively, when compared to baseline concentrations.
- Although significant decreases in perchlorate concentrations relative to baseline conditions were still observed in April 2021, groundwater samples collected from several monitoring wells located 50 to 250 feet downgradient of the injection well transect exhibited slight increases in perchlorate concentrations during the fourth monthly sampling event. These perchlorate concentration trends helped refine the timing of the second injection event into the Zone 2 alluvium, which was performed in April 2021.
- Chlorate results followed a similar pattern to perchlorate results for samples collected four months post-injection. Groundwater samples collected from two of the four cross-gradient monitoring wells continued to show decreases in chlorate concentrations of greater than 75 percent compared to baseline. Groundwater samples collected from four of the 18 monitoring wells located between 50 and

- 250 feet downgradient from the injection well transect exhibited reductions in chlorate concentration of greater than 95 percent. As previously described for perchlorate concentration trends in April 2021, groundwater samples collected from nine monitoring wells located 50 to 250 feet downgradient exhibited slight increasing chlorate concentrations during the fourth monthly sampling event. These chlorate concentrations helped refine the timing of the second injection event for the Zone 2 alluvium, which was performed in April 2021.
- Nitrate concentrations in groundwater were also evaluated because it is often a competing and preferred electron acceptor and carbon substrate consumer. Nitrate concentrations in groundwater samples collected from Zone 2 alluvium monitoring wells averaged 17 milligrams per liter (mg/L) during the baseline sampling event. Groundwater samples collected from cross-gradient and downgradient monitoring wells during the fourth monthly sampling event indicate nitrate concentrations were reduced by an average of 44 percent compared to baseline conditions. During the fourth monthly sampling event, groundwater samples collected from 11 cross-gradient or downgradient monitoring wells exhibited nitrate concentrations of less than 10 mg/L. Groundwater samples collected from five of these 14 monitoring wells exhibited nitrate concentrations less than 1 mg/L. Similar to perchlorate and chlorate, slightly increasing nitrate concentrations were observed at several cross-gradient and downgradient monitoring wells during the April 2021 sampling event. These increasing nitrate concentrations combined with slightly increasing perchlorate and chlorate concentrations at select locations supported the timing of the second injection event for the Zone 2 alluvium, which was performed in April 2021.
- Zone 1, 2, and 3 UMCf/UMCf-cg:
 - Zone 1 UMCf Approximately four months following injections into Zone 1 UMCf, groundwater samples collected from monitoring wells LVWPS-U1-MW08A/B, which are located approximately 25 feet downgradient from the injection well transect, indicated decreases in perchlorate concentrations of 93 and 75 percent when compared to baseline concentrations, respectively. Other notable observations include groundwater samples collected from one monitoring well located 100 feet downgradient from the injection well transect (LVWPS-U1-MW09B), where perchlorate concentrations indicated a reduction of 52 percent compared to baseline conditions four months after the injection event. This is the lowest concentration detected to date at LVWPS-U1-MW09B. Nitrate and chlorate concentrations followed a similar pattern to perchlorate.
 - Zone 2 UMCf Approximately four months following injections into Zone 2 UMCf, groundwater samples collected from cross-gradient monitoring wells LVWPS-U2-MW04 and LVWPS-U2-MW05, which are screened in the UMCf and located approximately 12 feet from each end of the Zone 2 injection well transect, continue to indicate perchlorate concentrations less than the sample detection limit in both monitoring wells. Additionally, groundwater samples collected from four of the five monitoring wells located 25 to 50 feet downgradient from the injection well transect exhibited perchlorate concentration decreases of up to 43 percent when compared to baseline concentrations. Lastly, groundwater samples collected from monitoring well LVWPS-MW223C, which is located approximately 200 feet downgradient from the Zone 2 injection well transect, indicate a perchlorate concentration reduction of approximately 51 percent when compared

- to baseline, likely indicative of a preferential flow path in this vicinity. Nitrate and chlorate concentrations followed a similar pattern to perchlorate.
- Zone 3 UMCf-cq Approximately four months following injections into Zone 3 UMCf-cq, groundwater samples collected from three of the six monitoring wells located approximately 25 feet downgradient exhibited a greater than 92 percent reduction in perchlorate concentrations compared to baseline. In addition, groundwater samples collected from monitoring wells LVWPS-U3-MW10A/B, which are located approximately 100 feet downgradient from the Zone 3 injection well transect, both exhibited a greater than 99% reduction in perchlorate, chlorate, and nitrate concentrations compared to baseline. Lastly, groundwater samples collected from LVWPS-U2-MW12B, which is located approximately 150 feet downgradient, continued to indicate decreasing perchlorate, chlorate, and nitrate concentrations four months after injections, with concentration decreases of greater than 99 percent for perchlorate and greater than 76 percent for chlorate and nitrate when compared to baseline conditions. These observations farther downgradient relative to observations in the UMCf in Zones 1 and 2 are likely related to the coarser-grained aquifer matrix in Zone 3 UMCf-cg and faulting in the area.
- Surface water sampling was performed prior to injection activities on October 16, 2020 and October 29, 2020. Six surface water sampling events have since been performed on a monthly basis since December 2020 (during injections) and continuing through May 2021 (after injections). Although limited surface water sampling will be periodically conducted downgradient from the study area, reducing perchlorate concentrations in surface water is not an objective of this pilot study. Noteworthy surface water results related to the pilot study will be summarized in future monthly progress reports as warranted.
- Ove Study As part of injection activities, rhodamine WT and fluorescein tracer dyes were injected into the alluvium and UMCf/UMCf-cg, respectively. A summary of the sampling program and results from the December 2020 and January 2021 sampling events was presented to NDEP on March 4, 2021. Available analytical results for dye samples collected during baseline activities, injection activities, and the December 2020 through April 2021 effectiveness monitoring events are provided on Table 3. There were several cases where charcoal samplers showed low detections of dye, but the water samples did not show dye, indicating that either the dye peak already passed before the water sample was collected, or the levels of dye in the water were too low to be detectable. Results from future sampling events will be evaluated to provide additional clarification of the likely scenario. Noteworthy results during this monitoring period (April 2021 sampling event) are described below:
 - Zone 2 Alluvium:
 - During injection activities, rhodamine tracer dye was detected in all four of the Zone 2 alluvium dose response wells. Four months following injection activities, rhodamine tracer dye was still being detected in either charcoal or water samples from all four dose response wells.
 - Cross-gradient monitoring wells LVWPS-A2-MW04A/B and LVWPS-A2-MW05A/B (located approximately 17 feet from the two end of the Zone 2 injection well transect) had detections of rhodamine dye with the field probe in all four of these wells during injections. Four months following injections, rhodamine dye was detected in groundwater samples collected from two monitoring wells LVWPS-A2-MW05A/B. However, total organic carbon (TOC) concentrations (a

- surrogate for the carbon substrate injected) remain elevated above baseline concentrations in all four cross-gradient wells. This is expected based on the ability of the emulsified vegetable oil to adsorb to the subsurface in the vicinity of the injection well transect, whereas the tracer dye continues to move downgradient.
- As expected, the high groundwater flow velocity in the alluvium resulted in many downgradient wells observing the presence of dye during active injections or within a few days after injections were completed. Approximately four months after injection activities were completed, rhodamine dye was detected in Zone 2 alluvium groundwater samples collected from five monitoring wells located 50 to 250 feet downgradient from the injection well transect. Additionally, rhodamine dye was detected in charcoal samplers collected from 11 monitoring wells located 50 to 250 feet downgradient from the injection well transect. Lastly, four months after injections, rhodamine dye continued to be detected in charcoal collected from wells LVWPS-MW209 and LVWPS-MW210A/B, which are located approximately 625 and 850 feet downgradient, respectively.
- Rhodamine concentrations are decreasing in most wells at this point, indicating that the peak has already passed, which is expected given the typically high flow velocities in the Zone 2 alluvium.
- Zone 1, 2, and 3 UMCf/UMCf-cg:
 - Zone 1 UMCf Four months after injections were completed in Zone 1 UMCf, fluorescein tracer dye was no longer detected in groundwater samples collected 50 feet upgradient from the injection well transect at wells LVWPS-U1-MW06B and LVWPS-U1-MW07 indicating downgradient migration over time. Dye continued to be detected in charcoal or groundwater samples collected from all four dose response wells and monitoring wells LVWPS-U1-MW08A/B (located 25 feet downgradient). In addition, fluorescein dye continued to be detected in charcoal collected from monitoring well LVWPS-U1-MW02B (located approximately 33 feet downgradient) after being detected for the first time three months after the first injection event.
 - Zone 2 UMCf Approximately four months after injections, fluorescein was detected in the groundwater sample collected from dose response well LVWPS-U2-DR02 and one cross-gradient monitoring well LVWPS-U2-MW05, which is located approximately 12 feet from the injection well transect. Rhodamine and low levels of fluorescein continued to be detected in charcoal at well LVWPS-U2-MW17, which is located 100 feet downgradient. The rhodamine detection is from the injections into the Zone 2 alluvium, which likely migrated into the downgradient UMCf well due to localized downward gradients present within Zone 2. Fluorescein was also detected in charcoal samples from six alluvial wells located 50 and 100 feet downgradient from the Zone 2 UMCf injection well transect, indicating upflux from the UMCf into the alluvium in the Zone 2 vicinity due to localized upward gradients in Zone 2. These wells (LVWPS-A2-MW08C, LVWPS-A2-MW17C, LVWPS-A2-MW14A, LVWPS-A2-MW12A/B, and LVWPS-A2-MW13B) have had fluorescein detections in charcoal beginning in December 2020 to January 2021, which continued across multiple subsequent months. Two wells (LVWPS-A2-MW08C, LVWPS-A2-MW17C) have also had detections of fluorescein in water samples.

Zone 3 UMCf-cg – Approximately four months after injections were completed in the Zone 3 UMCf-cg, fluorescein continued to be detected in either charcoal or groundwater samples collected from all dose response wells and four of the six monitoring wells located approximately 25 feet downgradient from the Zone 3 injection well transect. In addition, fluorescein tracer dye was detected in charcoal and/or groundwater samples collected from monitoring wells LVWPS-U3-MW10A/B and LVWPS-MW12A/B, which are located approximately 100 and 150 feet downgradient, respectively.

Access and Permitting

o All access agreements and permits are now in place for all projected pilot study activities.

• Schedule and Progress Updates

- The sixth monthly effectiveness monitoring event is scheduled for the week of June 7, 2021. In accordance with the Work Plan Addendum, the effectiveness monitoring program associated with Zones 1, 2, and 3 UMCf and UMCf-cg will be performed on a bimonthly basis beginning in May 2021 and continuing on a bimonthly basis until additional injections are performed in the UMCf/UMCf-cg.
- The third injection event into all remediation zones is tentatively planned for the fourth quarter of 2021. The exact timing of the injection event will be determined based on results from the ongoing effectiveness monitoring program.
- Aquifer testing and microbial sampling is planned for the third quarter of 2021 prior to the third injection event.

Health and Safety

There were no safety incidents related to Task M19 during May 2021.

CERTIFICATION

Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Not Individually, but Solely as President of the Trustee
but solely in his representative capacity as President of the Nevada Environmental Response rust Trustee
Name: Jay A. Stemberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee
Title: Solely as President and not individually
Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Date: 6 3 6 2 1

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Las Vegas Wash Bioremediation Pilot Study Monthly Progress Report, Nevada Environmental Response Trust Site, Henderson, Nevada.

David S. Wilson, CEM

Principal Engineer Tetra Tech, Inc.

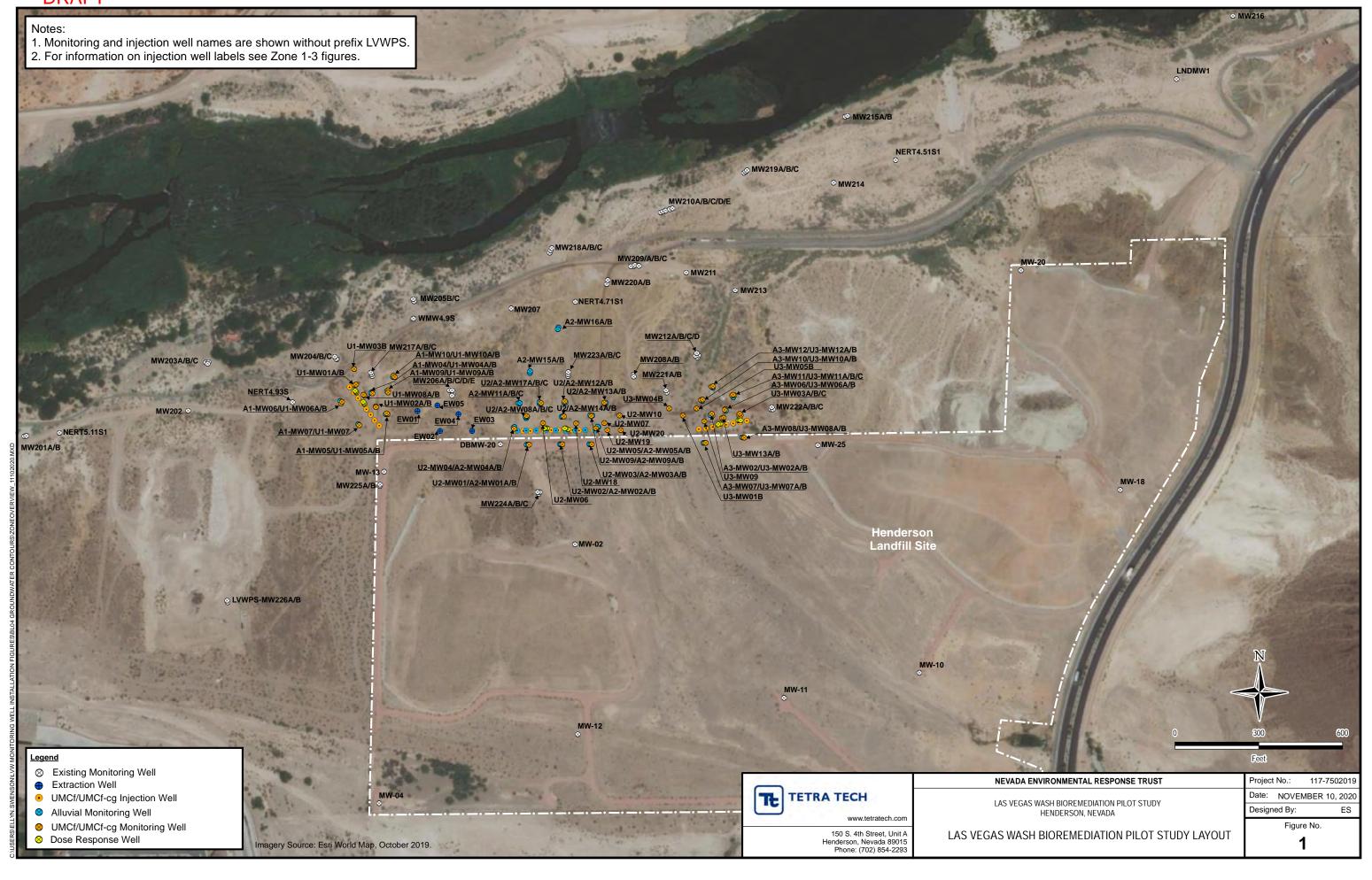
June 30, 2021

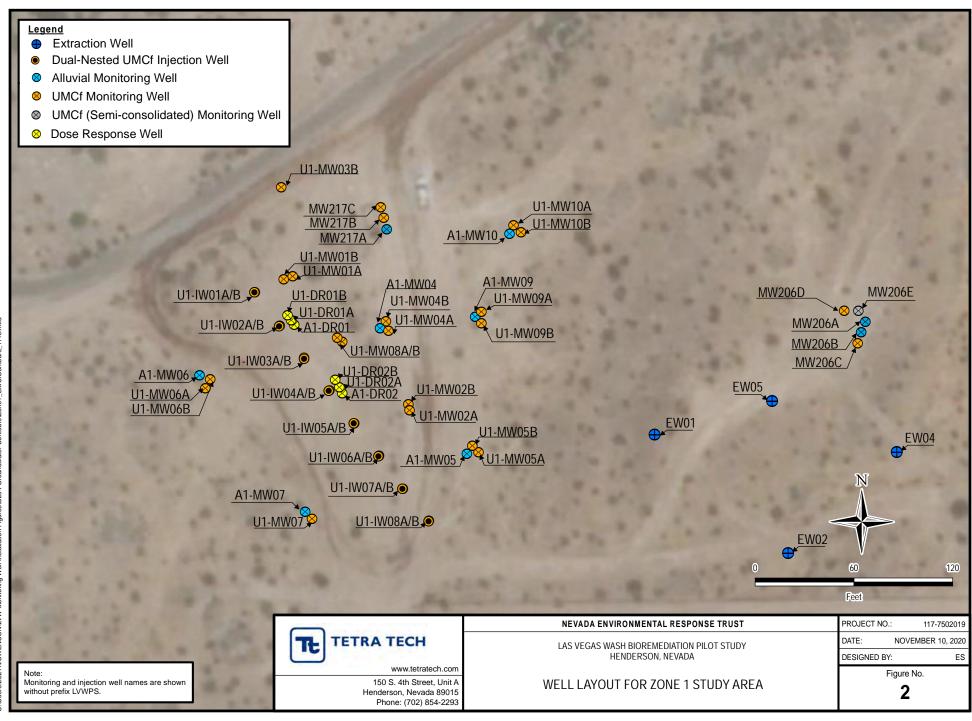
Date

Nevada CEM Certificate Number: 2385

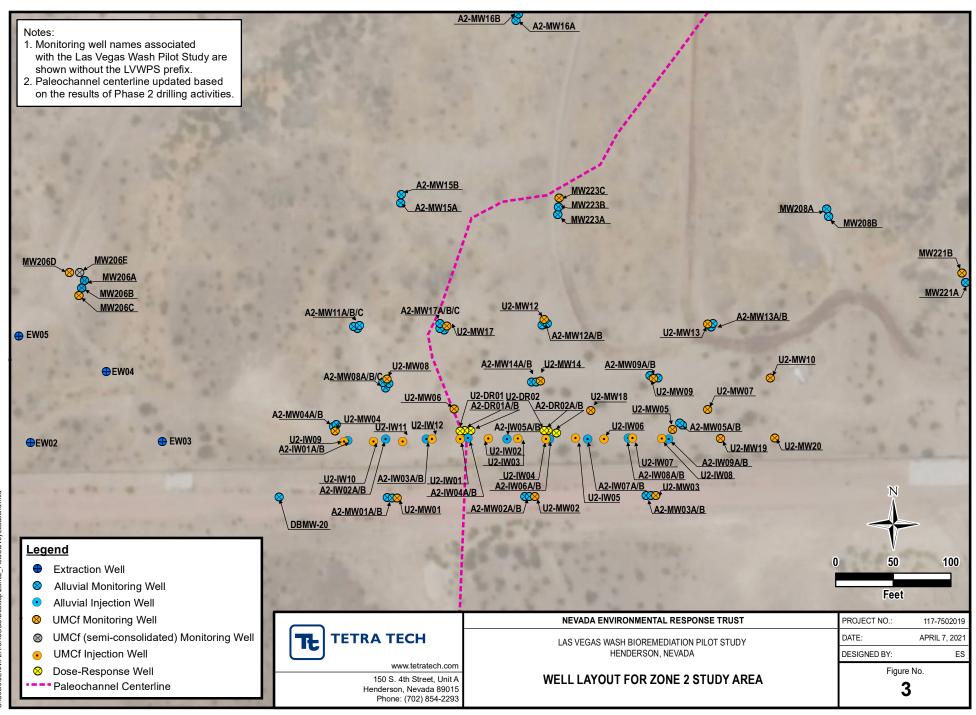
Nevada CEM Expiration Date: September 19, 2022

Figures

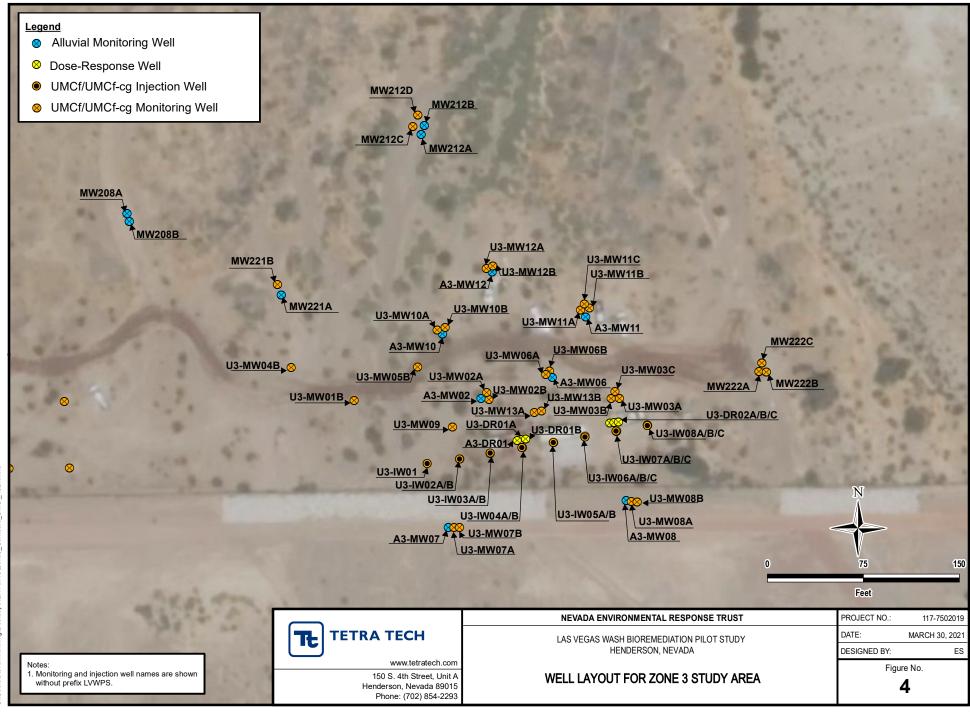




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Tables



Table 1 Phase 2 Well Construction Details Las Vegas Wash Bioremediation Pilot Study

				Ground	Top of	Depth to					Borehole	Borehole	Well	Nominal	Well	Bottom	Тор
Well ID	Screened Lithology	Northing	Easting	Surface Elevation	Casing Elevation	Water ¹	Construction Type	Construction Material	Slot Size	Filter Pack Gradation	Diameter	Total Depth	Diameter	Screen Lenath	Total Depth	of Screen	of Screen
	Littlology			feet amsl	feet amsl	feet bTOC	Type	Material	inches	Gradation	inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
							Zone 1 S	tudy Area									
LVWPS-A1-DR01	Alluvium	26735024.80	838207.19	1524.18	1523.98	29.38	Single	Schedule 40 PVC	0.020	#3	6	83.5	2	20	83	82.5	62.8
LVWPS-A1-DR02	Alluvium	26734983.35	838236.38	1524.57	1524.20	29.54	Single	Schedule 40 PVC	0.020	#3	6	79.0	2	20	78.5	78	58.3
LVWPS-A1-MW04	Alluvium	26735022.91	838259.32	1529.32	1529.30	34.87	Single	Schedule 40 PVC	0.020	#3	6	92.5	2	20	89.5	89	69.3
LVWPS-A1-MW05	Alluvium	26734946.32	838312.17	1530.88	1530.55	36.10	Single	Schedule 40 PVC	0.020	#3	6	95.0	2	20	89.5	89	69.3
LVWPS-A1-MW06 LVWPS-A1-MW07	Alluvium	26734994.26 26734911.17	838149.70 838213.86	1523.90 1525.06	1523.76 1524.99	28.80 30.15	Single Single	Schedule 40 PVC Schedule 40 PVC	0.020	#3	6	85.0 80.0	2	20 20	79.5 78.5	79 78	59.3 58.3
LVWPS-A1-MW09	Alluvium Alluvium	26735029.71	838317.19	1525.06	1524.99	35.62	Single	Schedule 40 PVC	0.020	#3	6	107.0	2	20	106	105.5	85.8
LVWPS-A1-MW10	Alluvium	26735080.18	838337.96	1527.26	1527.07	33.55	Single	Schedule 40 PVC	0.020	#3	6	91.5	2	20	91	90.5	70.8
LVWPS-U1-DR01A	UMCf	26735027.64	838205.37	1524.09	1524.00	29.15	Single	Schedule 40 PVC	0.010	#2/16	6	116.5	2	25	115.5	115	90.3
LVWPS-U1-DR01B	UMCf	26735030.53	838203.16	1524.07	1523.94	28.89	Single	Schedule 80 PVC	0.010	#2/16	6	152.5	2	30	151.5	151	121.3
LVWPS-U1-DR02A	UMCf	26734986.83	838234.68	1524.02	1523.92	29.15	Single	Schedule 40 PVC	0.010	#2/16	6	117.5	2	30	117	116.5	86.8
LVWPS-U1-DR02B	UMCf	26734991.38	838232.08	1523.92	1523.71	28.63	Single	Schedule 80 PVC	0.010	#2/16	6	153.5	2	30	153	152.5	122.8
LVWPS-U1-IW01A	UMCf	26735044.59	838183.29	1523.67	1523.72	28.91	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	155.0	2	25	114	113.5	88.8
LVWPS-U1-IW01B	UMCf	26735044.44	838182.98	1523.67	1523.65	28.76		Schedule 40 PVC	0.010	#2/16			2	25	145.5	145	120.3
LVWPS-U1-IW02A LVWPS-U1-IW02B	UMCf UMCf	26735024.11 26735023.96	838198.37 838198.03	1524.46 1524.46	1524.39 1524.43	29.41 29.42	Dual-Nested	Schedule 40 PVC	0.010 0.010	#2/16 #2/16	10	155.0	2	25 30	115.5 151.5	115 151	90.3 121.3
LVWPS-U1-IW02B	UMCf	26735023.96	838198.03	1523.88	1524.43	28.59		Schedule 40 PVC Schedule 40 PVC	0.010	#2/16			2	25	1119	118.5	93.8
LVWPS-U1-IW03B	UMCf	26735004.00	838213.12	1523.88	1523.53	28.40	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	155.0	2	25	150.5	150	125.3
LVWPS-U1-IW04A	UMCf	26734984.96	838228.48	1523.90	1523.65	28.89		Schedule 40 PVC	0.010	#2/16			2	30	117	116.5	86.8
LVWPS-U1-IW04B	UMCf	26734984.86	838228.18	1523.90	1523.59	28.49	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	155.0	2	30	153	152.5	122.8
LVWPS-U1-IW05A	UMCf	26734965.08	838243.71	1524.36	1524.25	29.45	Dual Nastad	Schedule 40 PVC	0.010	#2/16	10	455.0	2	25	114	113.5	88.8
LVWPS-U1-IW05B	UMCf	26734965.09	838243.38	1524.36	1524.23	29.21	Dual-Nested	Schedule 40 PVC	0.010	#2/16	1 10	155.0	2	25	145.5	145	120.3
LVWPS-U1-IW06A	UMCf	26734945.21	838258.76	1524.91	1525.12	30.40	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	157.5	2	25	113	112.5	87.8
LVWPS-U1-IW06B	UMCf	26734945.02	838258.36	1524.91	1525.07	30.06	Buai Noolou	Schedule 40 PVC	0.010	#2/16	10	107.0	2	30	149.5	149	119.3
LVWPS-U1-IW07A	UMCf	26734925.20	838273.28	1529.08	1528.30	33.50	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	160.0	2	25	121	120.5	95.8
LVWPS-U1-IW07B	UMCf	26734925.28	838272.95	1529.08	1528.66	33.46		Schedule 40 PVC	0.010	#2/16			2	25	152.5	152	127.3
LVWPS-U1-IW08A LVWPS-U1-IW08B	UMCf UMCf	26734905.81	838289.00	1529.69 1529.69	1530.71 1530.83	35.85 35.70	Dual-Nested	Schedule 40 PVC Schedule 40 PVC	0.010	#2/16 #2/16	10	170.0	2	30 25	125.5 157	125 156.5	95.3
LVWPS-U1-WW01A	UMCf	26734905.38 26735054.25	838288.84 838206.27	1529.69	1526.15	31.60	Single	Schedule 40 PVC	0.010	#2/16	6	116.0	2	25	115.5	115	131.8 90.3
LVWPS-U1-MW01B	UMCf	26735054.23	838200.84	1525.78	1525.85	30.95	Single	Schedule 80 PVC	0.010	#2/16	8	157.5	4	20	153.5	153	133.5
LVWPS-U1-MW02A	UMCf	26734972.90	838277.36	1529.90	1529.61	35.00	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	25	119.5	119	94.3
LVWPS-U1-MW02B	UMCf	26734976.53	838276.51	1529.75	1529.63	34.81	Single	Schedule 80 PVC	0.010	#2/16	8	165.0	4	25	162	161.5	136.9
LVWPS-U1-MW03B	UMCf	26735108.31	838199.29	1527.13	1527.06	32.32	Single	Schedule 80 PVC	0.010	#2/16	8	165.0	4	20	154.5	154	134.5
LVWPS-U1-MW04A	UMCf	26735021.39	838264.46	1529.55	1529.35	34.82	Single	Schedule 40 PVC	0.010	#2/16	6	126.5	2	25	124.5	124	99.3
LVWPS-U1-MW04B	UMCf	26735026.82	838262.94	1529.47	1529.33	34.59	Single	Schedule 80 PVC	0.010	#2/16	8	175.0	4	25	165	164.5	139.9
LVWPS-U1-MW05A	UMCf	26734947.22	838319.22	1530.32	1529.93	35.52	Single	Schedule 40 PVC	0.010	#2/16	6	122.0	2	25	121	120.5	95.8
LVWPS-U1-MW05B	UMCf	26734951.22	838315.42	1530.45	1530.30	35.40	Single	Schedule 80 PVC	0.010	#2/16	8	172.5	4	25	162	161.5	136.9
LVWPS-U1-MW06A LVWPS-U1-MW06B	UMCf UMCf	26734986.21 26734991.82	838153.16 838156.18	1523.81 1524.09	1523.70	28.56 28.51	Single	Schedule 40 PVC Schedule 40 PVC	0.010	#2/16 #2/16	6	106.5 143.0	2	20 25	105.5 134.5	105 134	85.3 109.3
LVWPS-U1-MW07	UMCf	26734991.62	838218.01	1524.09	1523.73 1524.96	30.16	Single Single	Schedule 40 PVC	0.010	#2/16	6	140.0	2	25	111.5	111	86.3
LVWPS-U1-MW08A	UMCf	26735014.52	838236.36	1525.17	1524.96	29.20	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	25	111.5	118.5	93.8
LVWPS-U1-MW08B	UMCf	26735017.13	838233.33	1523.84	1523.74	28.75	Single	Schedule 80 PVC	0.010	#2/16	6	151.0	2	25	150.5	150	125.3
LVWPS-U1-MW09A	UMCf	26735032.96	838320.87	1529.36	1529.11	35.12	Single	Schedule 40 PVC	0.010	#2/16	6	126.0	2	10	125.5	125	115.3
LVWPS-U1-MW09B	UMCf	26735025.78	838320.98	1529.37	1529.08	34.62	Single	Schedule 80 PVC	0.010	#2/16	6	156.0	2	25	155.5	155	130.3
LVWPS-U1-MW10A	UMCf	26735085.42	838340.44	1527.11	1527.02	33.20	Single	Schedule 40 PVC	0.010	#2/16	6	125.0	2	25	124.5	124	99.3
LVWPS-U1-MW10B	UMCf	26735081.08	838344.98	1527.40	1527.21	32.98	Single	Schedule 80 PVC	0.010	#2/16	6	160.0	2	25	155.5	155	130.3
		T						tudy Area									
LVWPS-A2-DR01A	Alluvium	26734896.39	838889.65	1524.78	1524.77	31.90	Single	Schedule 40 PVC	0.020	#3	6	72.0	2	35	71.5	71	36.3
LVWPS-A2-DR01B LVWPS-A2-DR02A	Alluvium Alluvium	26734896.42 26734894.17	838884.23 838964.08	1524.80 1524.91	1524.57 1524.65	31.75 32.00	Single	Schedule 40 PVC Schedule 40 PVC	0.020	#3	6	113.0 52.5	2	35 15	112.5 52	112 51.5	77.3 36.8
LVWPS-A2-DR02A LVWPS-A2-DR02B	Alluvium	26734894.17 26734896.56	838956.61	1524.91	1524.65	32.00	Single Single	Schedule 40 PVC	0.020	#3	6	78.5	2	20	78	51.5 77.5	57.8
LVWPS-A2-IW01A	Alluvium	26734887.97	838782.98	1530.17	1524.90	36.44	Ŭ	Schedule 40 PVC	0.020	#3			2	25	66.5	66	41.3
LVWPS-A2-IW01A	Alluvium	26734888.00	838782.65	1530.17	1529.78	36.64	Dual-Nested	Schedule 40 PVC	0.020	#3	10	105.0	2	25	98	97.5	72.8
LVWPS-A2-IW02A	Alluvium	26734888.97	838815.84	1529.49	1529.01	35.88	Dural N	Schedule 40 PVC	0.020	#3	40	440.0	2	30	69	68.5	38.8
LVWPS-A2-IW02B	Alluvium	26734889.05	838815.49	1529.49	1529.03	36.22	Dual-Nested	Schedule 40 PVC	0.020	#3	10	110.0	2	25	100.5	100	75.3
LVWPS-A2-IW03A	Alluvium	26734888.88	838851.00	1527.28	1526.93	33.94	Dual-Nested	Schedule 40 PVC	0.020	#3	10	115.0	2	30	67.5	67	37.3
LVWPS-A2-IW03B	Alluvium	26734889.18	838850.83	1527.28	1526.93	33.94	Dual-Nested	Schedule 40 PVC	0.020	#3	10	115.0	2	30	104	103.5	73.8
LVWPS-A2-IW04A	Alluvium	26734889.81	838887.08	1524.70	1524.57	31.70	Dual-Nested	Schedule 40 PVC	0.020	#3	10	115.0	2	35	71.5	71	36.3
LVWPS-A2-IW04B	Alluvium	26734890.02	838886.74	1524.70	1524.61	31.80	3 aa 10010d	Schedule 40 PVC	0.020	#3			2	35	112.5	112	77.3



Table 1 Phase 2 Well Construction Details Las Vegas Wash Bioremediation Pilot Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation	Top of Casing Elevation	Depth to Water ¹	Construction Type	Construction Material	Slot Size	Filter Pack Gradation	Borehole Diameter	Borehole Total Depth	Well Diameter	Nominal Screen Length	Well Total Depth	Bottom of Screen	Top of Screen
1) #4/DO 40 #4/054	A.II.	0070400045	000004.04	feet amsl	feet amsl	feet bTOC		0 1 11 40 50 40	inches	440	inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
LVWPS-A2-IW05A	Alluvium	26734889.15	838921.04	1524.89	1524.86	32.05	Dual-Nested	Schedule 40 PVC	0.020	#3	10	105.0	2	25	63	62.5	37.8
LVWPS-A2-IW05B	Alluvium	26734889.30	838920.74	1524.89	1524.83	31.94		Schedule 40 PVC	0.020	#3			2	25	94	93.5	68.8
LVWPS-A2-IW06A	Alluvium	26734888.81	838957.92	1524.94 1524.94	1524.91	32.20 32.10	Dual-Nested	Schedule 40 PVC	0.020	#3	10	80.0	2	15 20	52 78	51.5	36.8 57.8
LVWPS-A2-IW06B	Alluvium	26734888.84	838957.55		1524.89			Schedule 40 PVC	0.020				_			77.5	
LVWPS-A2-IW07A LVWPS-A2-IW07B	Alluvium Alluvium	26734889.27 26734889.32	838991.11 838990.81	1524.39 1524.39	1524.31 1524.34	31.57 31.57	Dual-Nested	Schedule 40 PVC Schedule 40 PVC	0.020	#3	10	85.0	2	15 20	50.5	50	35.3
LVWPS-A2-IW07B LVWPS-A2-IW08A	Alluvium	26734889.80	83990.81	1524.39	1524.34	31.57		Schedule 40 PVC	0.020	#3			2	20	76.5 56	76 55.5	56.3 35.8
LVWPS-A2-IW08A	Alluvium	26734889.91	839026.04	1524.85	1524.74	32.10	Dual-Nested	Schedule 40 PVC	0.020	#3	10	90.0	2	20	82	81.5	61.8
LVWPS-A2-IW09A	Alluvium	26734889.16	839061.18	1525.33	1525.37	32.68		Schedule 40 PVC	0.020	#3			2	15	52	51.5	36.8
LVWPS-A2-IW09B	Alluvium	26734889.14	839060.89	1525.33	1525.37	32.69	Dual-Nested	Schedule 40 PVC	0.020	#3	10	85.0	2	15	74	73.5	58.8
LVWPS-A2-MW01A	Alluvium	26734838.04	838817.08	1526.61	1526.29	33.07	Single	Schedule 40 PVC	0.020	#3	6	61	2	20	60.5	60	40.3
LVWPS-A2-MW01B	Alluvium	26734837.91	838821.64	1526.61	1526.16	33.09	Single	Schedule 40 PVC	0.020	#3	6	91	2	20	90.5	90	70.3
LVWPS-A2-MW02A	Alluvium	26734839.33	838936.61	1527.83	1527.49	34.66	Single	Schedule 40 PVC	0.020	#3	6	61	2	20	60.5	60	40.3
LVWPS-A2-MW02B	Alluvium	26734839.33	838940.48	1527.88	1527.62	34.55	Single	Schedule 40 PVC	0.020	#3	6	91	2	20	90.5	90	70.3
LVWPS-A2-MW03A	Alluvium	26734839.87	839041.77	1528.00	1527.72	34.95	Single	Schedule 40 PVC	0.020	#3	6	60	2	20	58.5	58	38.3
LVWPS-A2-MW03B	Alluvium	26734839.96	839046.05	1528.02	1527.68	34.90	Single	Schedule 40 PVC	0.020	#3	6	85	2	20	84.5	84	64.3
LVWPS-A2-MW04A	Alluvium	26734900.17	838770.49	1527.54	1527.55	34.24	Single	Schedule 40 PVC	0.020	#3	6	64.5	2	20	64	63.5	43.8
LVWPS-A2-MW04B	Alluvium	26734901.60	838772.88	1528.17	1527.86	34.91	Single	Schedule 40 PVC	0.020	#3	6	96.0	2	20	95.5	95	75.3
LVWPS-A2-MW05A	Alluvium	26734901.04	839073.31	1524.49	1524.18	31.50	Single	Schedule 40 PVC	0.020	#3	6	53.0	2	15	52	51.5	36.8
LVWPS-A2-MW05B	Alluvium	26734903.12	839070.97	1524.49	1524.29	31.68	Single	Schedule 40 PVC	0.020	#3	6	75.0	2	15	74	73.5	58.8
LVWPS-A2-MW08A	Alluvium	26734933.48	838815.75	1529.44	1529.35	36.36	Single	Schedule 40 PVC	0.020	#3	6	56.0	2	15	55.5	55	40.3
LVWPS-A2-MW08B	Alluvium	26734937.17	838818.51	1529.20	1528.84	35.90	Single	Schedule 40 PVC	0.020	#3	6	81.3	2	20	80	79.5	59.8
LVWPS-A2-MW08C LVWPS-A2-MW09A	Alluvium	26734938.06 26734942.12	838813.32 839052.25	1529.24 1523.77	1528.93 1523.56	36.25 30.91	Single	Schedule 40 PVC Schedule 40 PVC	0.020	#3	6	110.0 56.0	2	20 20	106.5 55	106 54.5	86.3 34.8
LVWPS-A2-MW09A	Alluvium	26734942.12	839045.22	1523.77	1523.67	31.31	Single	Schedule 40 PVC	0.020	#3	6	85.0	2	20	79	78.5	58.8
LVWPS-A2-MW11A	Alluvium Alluvium	26734943.95	838791.31	1528.05	1523.07	35.10	Single Single	Schedule 40 PVC	0.020	#3	6	61.5	2	20	60.5	60	40.3
LVWPS-A2-MW11B	Alluvium	26734986.77	838787.83	1528.03	1527.79	35.10	Single	Schedule 40 PVC	0.020	#3	6	86.0	2	20	85.5	85	65.3
LVWPS-A2-MW11C	Alluvium	26734987.49	838793.00	1528.09	1527.79	35.36	Single	Schedule 40 PVC	0.020	#3	6	114.0	2	20	110.5	110	90.3
LVWPS-A2-MW12A	Alluvium	26734988.20	838951.66	1523.08	1522.85	30.24	Single	Schedule 40 PVC	0.020	#3	6	46.0	2	10	45	44.5	34.9
LVWPS-A2-MW12B	Alluvium	26734989.46	838955.96	1523.15	1522.94	30.48	Single	Schedule 40 PVC	0.020	#3	6	75.0	2	20	69.5	69	49.3
LVWPS-A2-MW13A	Alluvium	26734986.06	839098.37	1523.62	1523.23	31.00	Single	Schedule 40 PVC	0.020	#3	6	62.0	2	20	61.5	61	41.3
LVWPS-A2-MW13B	Alluvium	26734989.09	839099.95	1523.60	1523.40	31.44	Single	Schedule 40 PVC	0.020	#3	6	90.0	2	20	86.6	86.1	66.4
LVWPS-A2-MW14A	Alluvium	26734938.41	838942.48	1524.15	1523.84	31.16	Single	Schedule 40 PVC	0.020	#3	6	51.5	2	15	51	50.5	35.8
LVWPS-A2-MW14B	Alluvium	26734938.74	838946.20	1524.51	1524.32	31.70	Single	Schedule 40 PVC	0.020	#3	6	80.0	2	20	75	74.5	54.8
LVWPS-A2-MW15A	Alluvium	26735094.04	838828.85	1521.20	1520.95	28.70	Single	Schedule 40 PVC	0.020	#3	6	61.0	2	20	60	59.5	39.8
LVWPS-A2-MW15B	Alluvium	26735101.30	838829.49	1521.68	1521.37	29.34	Single	Schedule 40 PVC	0.020	#3	6	110.0	2	20	90.5	90	70.3
LVWPS-A2-MW16A	Alluvium	26735252.27	838928.69	1520.47	1520.73	29.34	Single	Schedule 40 PVC	0.020	#3	6	56.0	2	20	56	55.5	35.8
LVWPS-A2-MW16B	Alluvium	26735258.00	838931.03	1520.25	1520.51	29.21	Single	Schedule 40 PVC	0.020	#3	6	90.0	2	20	80.5	80	60.3
LVWPS-A2-MW17A	Alluvium	26734983.57	838866.47	1526.43	1526.35	33.65	Single	Schedule 40 PVC	0.020	#3	6	61.5	2	20	60.5	60	40.3
LVWPS-A2-MW17B	Alluvium	26734985.17	838863.03	1526.25	1526.26	33.65	Single	Schedule 40 PVC	0.020	#3	6	86.0	2	20	85.5	85	65.3
LVWPS-A2-MW17C	Alluvium	26734989.37	838862.92	1526.03	1525.81	33.86	Single	Schedule 40 PVC	0.020	#3	6	115.5	2	20	110.5	110	90.3
LVWPS-U2-DR01	UMCf	26734896.14	838880.43	1524.84	1524.74	32.06	Single	Schedule 40 PVC	0.010	#2/16	6	142.0	2	20	141.5	141	121.3
LVWPS-U2-DR02	UMCf	26734896.48	838953.23	1524.85	1524.76	32.25	Single	Schedule 40 PVC	0.010	#2/16	6	109.5	2	25	109	108.5	83.8
LVWPS-U2-IW01	UMCf	26734889.36	838880.42	1524.71	1524.63	32.09	Single	Schedule 40 PVC	0.010	#2/16	6	155.0	2	20	141.5	141	121.2
LVWPS-U2-IW02	UMCf	26734889.50	838905.01	1525.09	1525.07	32.55	Single	Schedule 40 PVC	0.010	#2/16	6	145.0	2	25	141.5	141	116.2
LVWPS-U2-IW03	UMCf	26734889.40	838930.38	1524.99	1524.91	32.25	Single	Schedule 40 PVC	0.010	#2/16	6	125.0	2	25	124.5	124	99.2
LVWPS-U2-IW04	UMCf	26734888.87	838954.79	1524.89	1524.84	32.10	Single	Schedule 40 PVC	0.010	#2/16	6	145.0	2	25	109	108.5	83.7
LVWPS-U2-IW05	UMCf	26734889.80	838980.34	1524.54	1524.54	32.80	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	30	118 104.5	117.5	87.7 89.2
LVWPS-U2-IW06	UMCf	26734889.08	839005.30	1524.82	1524.70	32.52	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	15	104.5	104	89.∠



Table 1 Phase 2 Well Construction Details Las Vegas Wash Bioremediation Pilot Study

	Screened			Ground	Top of	Depth to	Construction	Construction	Clat Cina	Filter Pack	Borehole	Borehole	Well	Nominal	Well	Bottom	Тор
Well ID	Lithology	Northing	Easting	Surface Elevation	Casing Elevation	Water ¹	Type	Material	Slot Size	Gradation	Diameter	Total Depth	Diameter	Screen Length	Total Depth	of Screen	of Screen
				feet amsl	feet amsl	feet bTOC	.,,,,,		inches	O. a.a.a.	inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
LVWPS-U2-IW07	UMCf	26734889.76	839029.85	1524.95	1524.98	32.40	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	15	106.5	106	91.2
LVWPS-U2-IW08	UMCf	26734889.41	839055.50	1525.34	1525.29	32.72	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	25	109	108.5	83.7
LVWPS-U2-IW09	UMCf	26734886.72	838779.73	1529.53	1529.26	36.22	Single	Schedule 40 PVC	0.010	#2/16	6	130.0	2	25	128.5	128	103.2
LVWPS-U2-IW10	UMCf	26734887.07	838805.16	1529.51	1529.59	36.72	Single	Schedule 40 PVC	0.010	#2/16	6	135.0	2	20	129.5	129	109.3
LVWPS-U2-IW11 LVWPS-U2-IW12	UMCf UMCf	26734886.91 26734889.28	838830.51 838856.13	1528.30 1526.66	1528.02 1526.14	35.26 33.53	Single Single	Schedule 40 PVC Schedule 40 PVC	0.010 0.010	#2/16 #2/16	6	135.0 139.0	2	25 25	134.2 138	133.7 137.5	108.9 112.8
LVWPS-U2-MW01	UMCf	26734837.77	838825.83	1526.69	1526.40	33.42	Single	Schedule 40 PVC	0.010	#2/16	6	125	2	20	117.5	117	97.3
LVWPS-U2-MW02	UMCf	26734839.36	838945.11	1527.94	1527.68	35.20	Single	Schedule 40 PVC	0.010	#2/16	6	126	2	25	125.5	125	100.3
LVWPS-U2-MW03	UMCf	26734839.69	839050.30	1527.99	1527.66	34.91	Single	Schedule 40 PVC	0.010	#2/16	6	115	2	20	110.5	110	90.3
LVWPS-U2-MW04	UMCf	26734895.79	838771.90	1528.66	1528.35	35.35	Single	Schedule 40 PVC	0.010	#2/16	6	130.0	2	25	128.5	128	103.2
LVWPS-U2-MW05	UMCf	26734897.24	839064.72	1524.94	1524.76	32.20	Single	Schedule 40 PVC	0.010	#2/16	6	110.0	2	25	108.5	108	83.2
LVWPS-U2-MW06	UMCf	26734914.99	838875.13	1525.48	1524.89	32.40	Single	Schedule 40 PVC	0.010	#2/16	6	142.5	2	20	142	141.5	121.8
LVWPS-U2-MW07	UMCf	26734914.74	839095.07	1524.53	1524.37	31.82	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	20	108.5	108	88.2
LVWPS-U2-MW08	UMCf	26734941.29	838816.82	1529.11	1528.75	36.21	Single	Schedule 40 PVC	0.010	#2/16	6	135.0	2	20	133.5	133	113.2
LVWPS-U2-MW09 LVWPS-U2-MW10	UMCf UMCf	26734941.56 26734942.01	839048.32 839149.60	1523.83 1525.67	1523.62 1525.57	31.61 34.12	Single Single	Schedule 40 PVC Schedule 40 PVC	0.010 0.010	#2/16 #2/16	6	115.0 120.0	2	20 20	105.2 110.5	104.7 110	84.9 90.2
LVWPS-U2-MW10	UMCf	26734942.01	838953.32	1523.09	1523.37	31.20	Single	Schedule 40 PVC	0.010	#2/16	6	110.0	2	25	108.5	108	83.2
LVWPS-U2-MW13	UMCf	26734988.97	839095.12	1523.52	1523.42	31.89	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	15	110	109.5	94.7
LVWPS-U2-MW14	UMCf	26734939.25	838950.26	1524.77	1524.30	32.70	Single	Schedule 40 PVC	0.010	#2/16	6	110.0	2	25	108.5	108	83.2
LVWPS-U2-MW17	UMCf	26734987.32	838868.87	1526.17	1525.88	34.19	Single	Schedule 40 PVC	0.010	#2/16	6	137.7	2	20	137	136.5	117
LVWPS-U2-MW18	UMCf	26734914.05	838993.79	1524.16	1524.09	32.53	Single	Schedule 40 PVC	0.010	#2/16	6	114.0	2	25	113.5	113	88.3
LVWPS-U2-MW19	UMCf	26734889.37	839106.34	1525.18	1525.07	32.71	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	20	111.5	111	91.2
LVWPS-U2-MW20	UMCf	26734889.93	839153.61	1525.44	1525.24	32.98	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	20	108.5	108	88.2
LVWPS-BH01		26734872.28	838780.13	1530.46			Soil Boring				6	105.0					
LVAVDC AS DDO4	A II. u di usa	00704044 50	020502.22	4500.07	4500.74	20.44		tudy Area	0.000	40		70.5		20	70	75.5	T 55 0
LVWPS-A3-DR01 LVWPS-A3-MW02	Alluvium Alluvium	26734911.52 26734944.12	839503.33 839475.20	1522.87 1522.61	1522.71 1522.39	30.41 30.30	Single Single	Schedule 40 PVC Schedule 40 PVC	0.020	#3	6	76.5 85.0	2	20 20	76 73	75.5 72.5	55.8 52.8
LVWPS-A3-MW06	Alluvium	26734960.45	839530.77	1522.01	1521.99	30.03	Single	Schedule 40 PVC	0.020	#3	6	76.0	2	20	75.5	75	55.3
LVWPS-A3-MW07	Alluvium	26734843.39	839449.63	1525.17	1525.06	32.48	Single	Schedule 40 PVC	0.020	#3	6	75	2	20	75	74.5	54.8
LVWPS-A3-MW08	Alluvium	26734864.46	839588.62	1525.58	1525.30	32.90	Single	Schedule 40 PVC	0.020	#3	6	110	2	20	105	104.5	84.8
LVWPS-A3-MW10	Alluvium	26734994.40	839445.10	1521.78	1521.72	30.06	Single	Schedule 40 PVC	0.020	#3	6	77.0	2	20	76.5	76	56.3
LVWPS-A3-MW11	Alluvium	26735007.80	839556.93	1521.33	1521.36	29.41	Single	Schedule 40 PVC	0.020	#3	6	80.0	2	20	74	73.5	53.8
LVWPS-A3-MW12	Alluvium	26735042.88	839483.87	1520.86	1520.75	29.13	Single	Schedule 40 PVC	0.020	#3	6	80.0	2	20	79.5	79	59.3
LVWPS-U3-DR01A	UMCf-cg	26734912.10	839506.61	1522.95	1522.72	30.55	Single	Schedule 40 PVC	0.010	#2/16	6	124.5	2	30	123.5	123	93.3
LVWPS-U3-DR01B	UMCf-cg	26734912.55	839510.18	1522.84	1522.69	30.71	Single	Schedule 80 PVC	0.010	#2/16	6	160.0	2	30	159.5	159	129.3
LVWPS-U3-DR02A	UMCf-cg	26734924.88	839575.78 839579.10	1523.27	1523.13	30.96 31.05	Single	Schedule 40 PVC	0.010	#2/16 #2/16	6	112.5 144.0	2	25	111.5 143	111 142.5	86.3 117.8
LVWPS-U3-DR02B LVWPS-U3-DR02C	UMCf-cg UMCf-ca	26734925.39 26734925.79	839579.10	1523.15 1523.10	1522.98 1522.90	31.05	Single Single	Schedule 40 PVC Schedule 80 PVC	0.010	#2/16	6	175.0	2	25 25	174.5	174	149.3
LVWPS-U3-IW01	UMCf-cg	26734893.19	839433.14	1522.95	1525.61	34.12	Single	Schedule 40 PVC	0.010	#2/16	10	118.0	2	35	115.5	115	80.2
LVWPS-U3-IW02A	UMCf-cq	26734896.96	839458.60	1522.81	1524.20	33.32	· ·	Schedule 40 PVC	0.010	#2/16			2	20	99.5	99	79.3
LVWPS-U3-IW02B	UMCf-cq	26734896.77	839458.31	1522.81	1524.22	32.78	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	128.0	2	20	125	124.5	104.8
LVWPS-U3-IW03A	UMCf-cg	26734901.01	839482.33	1522.92	1524.25	32.31	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	144.0	2	25	103	102.5	77.8
LVWPS-U3-IW03B	UMCf-cg	26734901.38	839482.28	1522.92	1524.33	32.61	Dual-Neste0	Schedule 40 PVC	0.010	#2/16	10	144.0	2	30	139.5	139	109.3
LVWPS-U3-IW04A	UMCf-cg	26734905.65	839507.50	1523.09	1522.80	30.46	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	160.0	2	30	123.5	123	93.3
LVWPS-U3-IW04B	UMCf-cg	26734905.89	839507.21	1523.09	1522.81	30.87	2 100100	Schedule 40 PVC	0.010	#2/16			2	30	159.5	159	129.3
LVWPS-U3-IW05A	UMCf-cg	26734909.80	839531.81	1522.62	1522.80	31.46	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	175.0	2	35	126.5	126	91.3
LVWPS-U3-IW05B	UMCf-cg	26734909.78	839531.47	1522.62	1522.80	30.58		Schedule 40 PVC	0.010	#2/16			2	35	168	167.5	132.8
LVWPS-U3-IW06A LVWPS-U3-IW06B	UMCf-cg UMCf-cq	26734914.65 26734914.56	839556.40 839556.00	1522.79 1522.79	1522.83 1522.89	30.52 30.68	Triple-Nested	Schedule 40 PVC Schedule 40 PVC	0.010 0.010	#2/16 #2/16	10	175.0	2	25 25	111.5 143	111 142.5	86.3 117.8
LVWPS-U3-IW06C	UMCf-cg	26734914.32	839556.27	1522.79	1522.85	31.02	/ inpic-inested	Schedule 40 PVC	0.010	#2/16	10	17.5.0	2	25	174.5	174	149.3
LVWPS-U3-IW07A	UMCf-cg	26734914.32	839580.97	1523.32	1523.03	30.80		Schedule 40 PVC	0.010	#2/16			2	25	111.5	111	86.3
LVWPS-U3-IW07B	UMCf-cq	26734918.38	839580.95	1523.32	1523.03	31.02	Triple-Nested	Schedule 40 PVC	0.010	#2/16	10	175.0	2	25	143	142.5	117.8
LVWPS-U3-IW07C	UMCf-cg	26734918.60	839580.61	1523.32	1523.03	31.02]	Schedule 40 PVC	0.010	#2/16			2	25	174.5	174	149.3
LVWPS-U3-IW08A	UMCf-cg	26734923.35	839605.13	1523.23	1523.11	30.87		Schedule 40 PVC	0.010	#2/16			2	25	111.5	111	86.3
LVWPS-U3-IW08B	UMCf-cg	26734923.06	839605.34	1523.23	1523.09	31.08	Triple-Nested	Schedule 40 PVC	0.010	#2/16	10	175.0	2	25	143	142.5	117.8
LVWPS-U3-IW08C	UMCf-cg	26734923.00	839604.97	1523.23	1523.10	31.05		Schedule 40 PVC	0.010	#2/16			2	25	174.5	174	149.3
LVWPS-U3-MW01B	UMCf-cg	26734942.69	839376.18	1522.54	1522.41	30.90	Single	Schedule 80 PVC	0.010	#2/16	8	107.5	4	20	103.8	103.3	83.8
LVWPS-U3-MW02A	UMCf-cg	26734948.75	839479.60	1522.40	1522.13	30.42	Single	Schedule 40 PVC	0.010	#2/16	6	98.5	2	15	97.5	97	82.3
LVWPS-U3-MW02B LVWPS-U3-MW03A	UMCf-cg UMCf-cq	26734943.22 26734944.17	839481.31 839583.42	1522.50 1522.80	1522.21 1522.68	30.76 30.60	Single Single	Schedule 80 PVC Schedule 40 PVC	0.010	#2/16 #2/16	8 6	130.0 112.5	2	20 25	123 111.5	122.5 111	103 86.3
LVVVI O-UO-IVIVVUSA	UIVICI-U	20104344.11	003003.42	1022.00	1322.00	50.00	Sirigie	JULIEUUIE 40 F VC	0.010	#4/10		112.0		20	111.5	1 111	1 00.3



Table 1 Phase 2 Well Construction Details

Las Vegas Wash Bioremediation Pilot Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation feet amsl	Top of Casing Elevation feet amsl	Depth to Water ¹	Construction Type	Construction Material	Slot Size	Filter Pack Gradation	Borehole Diameter inches	Borehole Total Depth feet bgs	Well Diameter inches	Nominal Screen Length feet	Well Total Depth feet bas	Bottom of Screen feet bas	Top of Screen feet bas
LVWPS-U3-MW03B	UMCf-ca	26734944.11	839576.72	1522.86	1522.49	30.68	Single	Schedule 80 PVC	0.010	#2/16	8	179.0	inches 4	25	176.2	175.7	151.1
LVWPS-U3-MW03C	UMCf-ca	26734949.67	839579.79	1522.47	1522.21	30.32	Single	Schedule 40 PVC	0.010	#2/16	6	143.5	2	25	143	142.5	117.8
LVWPS-U3-MW04B	UMCf-cg	26734968.11	839326.96	1522.25	1521.92	30.36	Single	Schedule 80 PVC	0.010	#2/16	8	102.5	4	20	98.2	97.7	78.2
LVWPS-U3-MW05B	UMCf-cg	26734968.70	839425.48	1522.17	1521.98	30.50	Single	Schedule 80 PVC	0.010	#2/16	8	112.5	4	20	105.2	104.7	85.2
LVWPS-U3-MW06A	UMCf-ca	26734962.99	839525.84	1522.04	1521.91	30.10	Single	Schedule 40 PVC	0.010	#2/16	6	116.5	2	25	115.5	115	90.3
LVWPS-U3-MW06B	UMCf-cq	26734965.59	839528.63	1522.18	1521.92	30.20	Single	Schedule 80 PVC	0.010	#2/16	8	152.5	4	25	150.4	149.9	125.3
LVWPS-U3-MW07A	UMCf-ca	26734843.54	839454.21	1525.21	1524.95	32.40	Single	Schedule 40 PVC	0.010	#2/16	6	100	2	15	98	97.5	82.8
LVWPS-U3-MW07B	UMCf-ca	26734843.26	839458.27	1525.26	1524.93	32.87	Single	Schedule 40 PVC	0.010	#2/16	6	126	2	20	125	124.5	104.8
LVWPS-U3-MW08A	UMCf-ca	26734863.82	839592.64	1525.64	1525.45	33.40	Single	Schedule 40 PVC	0.010	#2/16	6	145	2	25	143	142.5	117.8
LVWPS-U3-MW08B	UMCf-ca	26734863.16	839597.03	1525.70	1525.28	33.21	Single	Schedule 80 PVC	0.010	#2/16	6	175	2	25	174.5	174	149.3
LVWPS-U3-MW09	UMCf-ca	26734922.06	839452.86	1522.74	1525.38	34.00	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	25	108	107.5	82.8
LVWPS-U3-MW10A	UMCf-ca	26734997.78	839440.95	1521.78	1521.47	30.09	Single	Schedule 40 PVC	0.010	#2/16	6	97.0	2	10	95.5	95	85.3
LVWPS-U3-MW10B	UMCf-ca	26734999.52	839447.11	1521.68	1521.55	30.14	Single	Schedule 40 PVC	0.010	#2/16	6	130.0	2	20	121.5	121	101.3
LVWPS-U3-MW11A	UMCf-cq	26735013.48	839552.91	1521.42	1521.39	29.79	Single	Schedule 40 PVC	0.010	#2/16	6	107.5	2	20	106.5	106	86.3
LVWPS-U3-MW11B	UMCf-ca	26735014.90	839559.83	1521.28	1521.35	29.91	Sinale	Schedule 40 PVC	0.010	#2/16	6	138.0	2	25	137.5	137	112.3
LVWPS-U3-MW11C	UMCf-cq	26735017.93	839555.86	1521.33	1521.20	29.83	Single	Schedule 80 PVC	0.010	#2/16	6	170.0	2	20	163.4	163	143.3
LVWPS-U3-MW12A	UMCf-cq	26735045.73	839479.41	1521.01	1520.83	29.40	Single	Schedule 40 PVC	0.010	#2/16	6	109.5	2	20	108.5	108	88.3
LVWPS-U3-MW12B	UMCf-cq	26735047.74	839484.29	1520.91	1520.74	29.36	Single	Schedule 40 PVC	0.010	#2/16	6	140.0	2	25	138.5	138	113.3
LVWPS-U3-MW13A	UMCf-cg	26734933.25	839516.75	1522.40	1522.24	30.21	Single	Schedule 40 PVC	0.010	#2/16	6	122.5	2	25	121.5	121	96.3
LVWPS-U3-MW13B	UMCf-cg	26734934.09	839522.37	1522.01	1521.91	30.00	Single	Schedule 40 PVC	0.010	#2/16	6	155.0	2	15	148	147.5	132.8
	-						Extract	ion Wells									
LVWPS-EW01	Alluvium	26734957.94	838426.21	1530.03	1529.74	35.74	Single	Schedule 40 PVC with Stainless Steel Wire Wrap Screen	0.020	12-20	10	95.0	6	40	85	84.5	44.8
LVWPS-EW02	Alluvium	26734885.98	838507.29	1523.66	1523.25	29.20	Single	Schedule 40 PVC with Stainless Steel Wire Wrap Screen	0.020	12-20	10	61.0	6	30	58.5	58	28.3
LVWPS-EW03	Alluvium	26734886.94	838621.90	1523.14	1522.70	28.95	Single	Schedule 40 PVC with Stainless Steel Wire Wrap Screen	0.020	12-20	10	81.0	6	30	70.5	70	40.3
LVWPS-EW04	Alluvium	26734947.54	838573.33	1522.40	1521.92	28.20	Single	Schedule 40 PVC with Stainless Steel Wire Wrap Screen	0.020	12-20	10	47.0	6	20	46.5	46	26.3
LVWPS-EW05	Alluvium	26734978.54	838497.51	1529.76	1529.42	35.60	Single	Schedule 40 PVC with Stainless Steel Wire Wrap Screen	0.020	12-20	10	81.0	6	30	80.5	80	50.3

Notes

amsl - above mean sea level

bgs - below ground surface

bTOC - below top of casing

PVC - polyvinyl chloride

UMCf - Upper Muddy Creek formation

UMCf-cg - Upper Muddy Creek formation - coarse grained facies
UMCf/Horse Springs- Alternating layers of UMCf, semi-consolidated UMCf, and reworked Horse Springs formation.

UMCf (Semi-Cons) - Semi-consolidated Upper Muddy Creek formation

--- Not Applicable

1. Depth to water measurements collected in October 2020.

2. Well names including IW indicate an injection well. Well names including DR indicate a dose response well. Well names including MW indicate a monitoring well. Well names including EW indicate an extraction well.



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A1-MW04	9/30/2020	N	BL04	Zone 1	Qal	69.3 - 89.0	2,000	12,000	15	1,600	1.5	2.26
LVWPS-A1-MW04	1/13/2021	N	EM02	Zone 1	Qal	69.3 - 89.0	2,400	15,000	17	1,700	1.5	1.38
LVWPS-A1-MW04	1/13/2021	FD	EM02	Zone 1	Qal	69.3 - 89.0	2,800	15,000	17	1,700	1.4	
LVWPS-A1-MW04	2/9/2021	N	EM04	Zone 1	Qal	69.3 - 89.0	3,000	15,000	17	1,800	1.4 J-	1.35
LVWPS-A1-MW04	2/9/2021	FD	EM04	Zone 1	Qal	69.3 - 89.0	3,000	15,000	17	1,800	1.4 J-	
LVWPS-A1-MW04	3/9/2021	N	EM05	Zone 1	Qal	69.3 - 89.0	3,000	16,000	16	1,900	1.5	0.74
LVWPS-A1-MW04	3/9/2021	FD	EM05	Zone 1	Qal	69.3 - 89.0	2,900	15,000	16	2,000	1.5	
LVWPS-A1-MW04	4/7/2021	N	EM06	Zone 1	Qal	69.3 - 89.0	2,700	14,000	16	1,700	1.4 J+	0.75
LVWPS-A1-MW04	4/7/2021	FD	EM06	Zone 1	Qal	69.3 - 89.0	2,700	18,000	16	1,700	1.5 J+	
LVWPS-A1-MW05	9/30/2020	N	BL04	Zone 1	Qal	69.3 - 89.0	2,900	16,000	19	2,000	1.6	2.90
LVWPS-A1-MW05	1/15/2021	N	EM02	Zone 1	Qal	69.3 - 89.0	3,300	17,000	21	2,200	1.6	1.54
LVWPS-A1-MW05	2/10/2021	N	EM04	Zone 1	Qal	69.3 - 89.0	3,600	18,000	20	2,200	1.7	1.20
LVWPS-A1-MW05	3/10/2021	N	EM05	Zone 1	Qal	69.3 - 89.0	3,400	16,000	20	2,000	1.5	2.03
LVWPS-A1-MW05	4/8/2021	N	EM06	Zone 1	Qal	69.3 - 89.0	3,200	17,000	20	2,100	1.5	1.79
LVWPS-A1-MW06	9/29/2020	N	BL04	Zone 1	Qal	59.3 - 79.0	1,900	9,000	13	1,300	1.4	1.16
LVWPS-A1-MW06	1/14/2021	N	EM02	Zone 1	Qal	59.3 - 79.0	3,200 J	11,000	15	1,500	1.5	1.38
LVWPS-A1-MW06	1/14/2021	FD	EM02	Zone 1	Qal	59.3 - 79.0	2,300 J	11,000	15	1,600	1.4	
LVWPS-A1-MW06	2/9/2021	N	EM04	Zone 1	Qal	59.3 - 79.0	2,300	11,000	15	1,500	1.5 J-	1.07
LVWPS-A1-MW06	2/9/2021	FD	EM04	Zone 1	Qal	59.3 - 79.0	2,300	11,000	15	1,500	1.3 J-	
LVWPS-A1-MW06	3/9/2021	N	EM05	Zone 1	Qal	59.3 - 79.0	2,300	11,000	15	1,600	1.4	1.22
LVWPS-A1-MW06	3/9/2021	FD	EM05	Zone 1	Qal	59.3 - 79.0	2,400	11,000	15	1,600	1.5	
LVWPS-A1-MW06	4/9/2021	N	EM06	Zone 1	Qal	59.3 - 79.0	1,900	13,000	14	1,400	1.4	1.40
LVWPS-A1-MW06	4/9/2021	FD	EM06	Zone 1	Qal	59.3 - 79.0	1,900	11,000	14	1,400	1.5	
LVWPS-A1-MW07	9/30/2020	N	BL04	Zone 1	Qal	58.3 - 78.0	2,900	16,000	19	1,900	1.6	1.43
LVWPS-A1-MW07	1/14/2021	N	EM02	Zone 1	Qal	58.3 - 78.0	3,200	17,000	20	2,200	1.6	1.22
LVWPS-A1-MW07	2/10/2021	N	EM04	Zone 1	Qal	58.3 - 78.0	3,400	17,000	19	2,200	1.6	1.08
LVWPS-A1-MW07	3/9/2021	N	EM05	Zone 1	Qal	58.3 - 78.0	3,400	17,000	20	2,200	1.5	1.21
LVWPS-A1-MW07	4/7/2021	N	EM06	Zone 1	Qal	58.3 - 78.0	3,100	17,000	18	2,000	1.4 J+	1.25
LVWPS-A1-MW09	9/30/2020	N	BL04	Zone 1	Qal	85.8 - 105.5	2,700	15,000	16	1,600	1.6	1.17
LVWPS-A1-MW09	1/13/2021	N	EM02	Zone 1	Qal	85.8 - 105.5	2,500	14,000	13	1,800	4.2	1.06
LVWPS-A1-MW09	2/11/2021	N	EM04	Zone 1	Qal	85.8 - 105.5	3,100	14,000	15 J-	2,000	1.6	0.66
LVWPS-A1-MW09	3/11/2021	N	EM05	Zone 1	Qal	85.8 - 105.5	3,200	16,000	18	1,900	1.5	1.83
LVWPS-A1-MW09	4/8/2021	N	EM06	Zone 1	Qal	85.8 - 105.5	2,700	14,000	16	1,800	1.6	0.65
LVWPS-A1-MW10	10/1/2020	N	BL04	Zone 1	Qal	70.8 - 90.5	4,400 J-	14,000	16	1,600	1.4	1.13
LVWPS-A1-MW10	10/1/2020	FD	BL04	Zone 1	Qal	70.8 - 90.5	3,700	14,000	16	1,700	1.5	
LVWPS-A1-MW10	1/13/2021	N	EM02	Zone 1	Qal	70.8 - 90.5	3,100	16,000	17	1,800	1.5	1.11
LVWPS-A1-MW10	2/8/2021	N	EM04	Zone 1	Qal	70.8 - 90.5	3,600	16,000	17	1,800	1.5 J-	0.60
LVWPS-A1-MW10	3/9/2021	N	EM05	Zone 1	Qal	70.8 - 90.5	3,000	16,000	17	2,000	1.4	0.77
LVWPS-A1-MW10	4/7/2021	N	EM06	Zone 1	Qal	70.8 - 90.5	2,700	14,000	16	1,700	1.4 J+	0.62
LVWPS-A2-IW01A	10/1/2020	N	BL04	Zone 2	Qal	41.3 - 66.0	3,300	5,100	19			4.10
LVWPS-A2-IW01A	10/1/2020	FD	BL04	Zone 2	Qal	41.3 - 66.0	3,300	5,000	19			
LVWPS-A2-IW01B	10/1/2020	N	BL04	Zone 2	Qal	72.8 - 97.5	2,300	5,400	20			4.23
LVWPS-A2-IW02A	10/1/2020	N	BL04	Zone 2	Qal	38.8 - 68.5	2,900	5,200	18			4.29
LVWPS-A2-IW02B	10/2/2020	N	BL04	Zone 2	Qal	75.3 - 100.0	3,800	6,100	20			4.44
LVWPS-A2-IW03A	10/2/2020	N	BL04	Zone 2	Qal	37.3 - 67.0	3,300	5,400	20			4.44
LVWPS-A2-IW03B	10/2/2020	N	BL04	Zone 2	Qal	73.8 - 103.5	3,400	5,500	18			4.30
LVWPS-A2-IW03B	10/2/2020	FD	BL04	Zone 2	Qal	73.8 - 103.5	2,700	5,400	18			
LVWPS-A2-IW04A	10/2/2020	N	BL04	Zone 2	Qal	36.3 - 71.0	2,700	5,600	20			4.43
LVWPS-A2-IW04B	10/2/2020	N	BL04	Zone 2	Qal	77.3 - 112.0	3,200	5,000	18			5.05
LVWPS-A2-IW05A	10/2/2020	N	BL04	Zone 2	Qal	37.8 - 62.5	4,800	6,200	19			4.44
LVWPS-A2-IW05B	10/2/2020	N	BL04	Zone 2	Qal	68.8 - 93.5	4,400	5,300	19			4.47
LVWPS-A2-IW06A	10/5/2020	N	BL04	Zone 2	Qal	36.8 - 51.5	3,700	5,900	18			5.36
LVWPS-A2-IW06B	10/5/2020	N	BL04	Zone 2	Qal	57.8 - 77.5	4,600	4,900	18			4.75



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A2-IW07A	10/5/2020	N	BL04	Zone 2	Qal	35.3 - 50.0	3,100	5,500	21			4.76
LVWPS-A2-IW07A	10/5/2020	FD	BL04	Zone 2	Qal	35.3 - 50.0	2,800	5,600	20			
LVWPS-A2-IW07B	10/5/2020	N	BL04	Zone 2	Qal	56.3 - 76.0	2,700	4,500	16			5.14
LVWPS-A2-IW08A	10/5/2020	N	BL04	Zone 2	Qal	35.8 - 55.5	3,500	4,800	20			4.79
LVWPS-A2-IW08B	10/5/2020	N	BL04	Zone 2	Qal	61.8 - 81.5	2,100	3,600	13			5.54
LVWPS-A2-IW09A	10/5/2020	N	BL04	Zone 2	Qal	36.8 - 51.5	2,000	3,000	13			5.36
LVWPS-A2-IW09B	10/6/2020	N	BL04	Zone 2	Qal	58.8 - 73.5	1,500	2,300	9.1			6.22
LVWPS-A2-MW01A	10/8/2020	N	BL04	Zone 2	Qal	40.3 - 60.0	2,900	5,500	20	2,200	1.8	4.48
LVWPS-A2-MW01A	10/8/2020	FD	BL04	Zone 2	Qal	40.3 - 60.0	2,900	5,600	19	2,200	1.8	
LVWPS-A2-MW01A	12/23/2020	N	EM01	Zone 2	Qal	40.3 - 60.0	3,600	5,100	19	2,200	2.1	3.69
LVWPS-A2-MW01A	1/13/2021	N	EM02	Zone 2	Qal	40.3 - 60.0	2,700	6,300	19	2,100	1.9	3.75
LVWPS-A2-MW01A	1/25/2021	N	EM03	Zone 2	Qal	40.3 - 60.0	2,900	5,100	18	2,100	1.9 J+	3.46
LVWPS-A2-MW01A	2/10/2021	N	EM04	Zone 2	Qal	40.3 - 60.0	2,800	4,900	19	2,000	2.0	3.68
LVWPS-A2-MW01A	3/10/2021	N	EM05	Zone 2	Qal	40.3 - 60.0	3,100	5,200	20	2,100	1.9	3.70
LVWPS-A2-MW01A	4/7/2021	N	EM06	Zone 2	Qal	40.3 - 60.0	3,200	5,100	20	2,200	2.4 J+	4.01
LVWPS-A2-MW01B	10/8/2020	N	BL04	Zone 2	Qal	70.3 - 90.0	3,100	5,200	18	2,100	1.7	4.49
LVWPS-A2-MW01B	12/23/2020	N	EM01	Zone 2	Qal	70.3 - 90.0	3,000	5,000	18	2,200	1.7	4.16
LVWPS-A2-MW01B	1/13/2021	N	EM02	Zone 2	Qal	70.3 - 90.0	2,800	6,700	18	2,200	2.1	3.97
LVWPS-A2-MW01B	1/25/2021	N	EM03	Zone 2	Qal	70.3 - 90.0	3,200	5,200	18	2,100	2.4 J+	3.44
LVWPS-A2-MW01B	2/10/2021	N	EM04	Zone 2	Qal	70.3 - 90.0	2,800	4,800	19	2,300	1.8	4.13
LVWPS-A2-MW01B	3/10/2021	N	EM05	Zone 2	Qal	70.3 - 90.0	3,400	5,000	20	2,100	1.8	4.43
LVWPS-A2-MW01B	4/7/2021	N	EM06	Zone 2	Qal	70.3 - 90.0	4,200	5,100	19	2,300	1.7 J+	4.33
LVWPS-A2-MW02A	10/8/2020	N	BL04	Zone 2	Qal	40.3 - 60.0	3,700	6,500	18	2,600	1.3	4.19
LVWPS-A2-MW02A	10/8/2020	FD	BL04	Zone 2	Qal	40.3 - 60.0	3,800	6,600	18	2,600	1.3	
LVWPS-A2-MW02A	12/23/2020	N	EM01	Zone 2	Qal	40.3 - 60.0	3,800	8,100	18	2,700	1.2	5.28
LVWPS-A2-MW02A	1/12/2021	N	EM02	Zone 2	Qal	40.3 - 60.0	3,900	6,300	18	2,600	1.2	4.46
LVWPS-A2-MW02A	1/25/2021	N	EM03	Zone 2	Qal	40.3 - 60.0	4,200	7,100	20	2,500	1.3 J+	3.93
LVWPS-A2-MW02A	2/9/2021	N	EM04	Zone 2	Qal	40.3 - 60.0	3,900	6,200	17	1,900	1.2 J-	4.61
LVWPS-A2-MW02A	3/9/2021	N	EM05	Zone 2	Qal	40.3 - 60.0	3,700	6,100	17	2,800	1.4	3.99
LVWPS-A2-MW02A	4/7/2021	N	EM06	Zone 2	Qal	40.3 - 60.0	3,700	5,700	17	2,600	1.5 J+	4.05
LVWPS-A2-MW02B	10/8/2020	N	BL04	Zone 2	Qal	70.3 - 90.0	2,300	3,900	14	2,100	1.2	5.81
LVWPS-A2-MW02B	12/23/2020	N	EM01	Zone 2	Qal	70.3 - 90.0	2,200	4,900	15	2,300	1.3	5.57
LVWPS-A2-MW02B	1/13/2021	N	EM02	Zone 2	Qal	70.3 - 90.0	2,100	3,600	14	2,100	1.2	5.79
LVWPS-A2-MW02B	1/25/2021	N	EM03	Zone 2	Qal	70.3 - 90.0	3,700	4,000	13	2,000	1.3 J+	5.11
LVWPS-A2-MW02B	2/10/2021	N	EM04	Zone 2	Qal	70.3 - 90.0	2,300	3,900	15	2,200	1.3	5.77
LVWPS-A2-MW02B	3/10/2021	N	EM05	Zone 2	Qal	70.3 - 90.0	2,500	3,800	16	2,300	1.4	5.43
LVWPS-A2-MW02B	4/9/2021	N	EM06	Zone 2	Qal	70.3 - 90.0	2,200	4,100	16	2,600	1.4	5.78
LVWPS-A2-MW03A	10/9/2020	N	BL04	Zone 2	Qal	38.3 - 58.0	1,300	2,000	9.2	1,800	0.63	6.82
LVWPS-A2-MW03A	10/9/2020	FD	BL04	Zone 2	Qal	38.3 - 58.0	1,300	2,000	9.1	1,800	0.70	
LVWPS-A2-MW03A	12/23/2020	N	EM01	Zone 2	Qal	38.3 - 58.0	1,100	7,500	7.3	1,700	0.47 J	6.86
LVWPS-A2-MW03A	1/14/2021	N	EM02	Zone 2	Qal	38.3 - 58.0	1,100	1,600	7.8	1,900	0.54	7.34
LVWPS-A2-MW03A	1/25/2021	N	EM03	Zone 2	Qal	38.3 - 58.0	2,500	3,300	9.2	1,800	0.77 J+	5.88
LVWPS-A2-MW03A	2/10/2021	N	EM04	Zone 2	Qal	38.3 - 58.0	1,200	1,600	8.3	1,900	0.52	7.08
LVWPS-A2-MW03A	3/10/2021	N	EM05	Zone 2	Qal	38.3 - 58.0	1,300	1,500	8.1	1,900	0.49 J	6.92
LVWPS-A2-MW03A	4/5/2021	N	EM06	Zone 2	Qal	38.3 - 58.0	1,300	1,700	8.5	1,800	0.60	6.80
LVWPS-A2-MW03B	10/9/2020	N	BL04	Zone 2	Qal	64.3 - 84.0	2,000	3,700	12	2,000	0.92	6.21
LVWPS-A2-MW03B	12/23/2020	N	EM01	Zone 2	Qal	64.3 - 84.0	3,600	3,500	12	2,100	0.87 J-	5.56
LVWPS-A2-MW03B	1/14/2021	N	EM02	Zone 2	Qal	64.3 - 84.0	2,100	3,600	12	2,100	0.96	6.03
LVWPS-A2-MW03B	1/26/2021	N	EM03	Zone 2	Qal	64.3 - 84.0	2,300	3,400	9.8	1,900	1.0 J+	5.24
LVWPS-A2-MW03B	2/10/2021	N	EM04	Zone 2	Qal	64.3 - 84.0	2,200	3,500	13	2,200	1.0	5.86
LVWPS-A2-MW03B	3/10/2021	N	EM05	Zone 2	Qal	64.3 - 84.0	2,300	3,500	13	2,200	1.1	5.40
LVWPS-A2-MW03B	4/6/2021	N	EM06	Zone 2	Qal	64.3 - 84.0	2,200	3,600	16	2,100	1.0 J+	5.50
LVWPS-A2-MW04A	10/2/2020	N	BL04	Zone 2	Qal	43.8 - 63.5	4,100 J	5,300	19	2,100	1.7	5.60
LVVVF3-AZ-IVIVVU4A	10/2/2020	IN	DLU4	ZUITE Z	Qai	43.0 - 03.3	4, 100 J	5,300	18	۷,100	1.7	5.00



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A2-MW04A	10/2/2020	FD	BL04	Zone 2	Qal	43.8 - 63.5	2,900 J	5,200	19	2,100	1.7	
LVWPS-A2-MW04A	12/22/2020	N	EM01	Zone 2	Qal	43.8 - 63.5	2,600	5,100	19	2,100	2.2 J	3.79
LVWPS-A2-MW04A	12/22/2020	FD	EM01	Zone 2	Qal	43.8 - 63.5	2,600	5,100	19	2,100	1.8	
LVWPS-A2-MW04A	1/12/2021	N	EM02	Zone 2	Qal	43.8 - 63.5	2,700	4,900	20	2,200	1.9	3.84
LVWPS-A2-MW04A	1/12/2021	FD	EM02	Zone 2	Qal	43.8 - 63.5	2,700	4,900	19	2,200	2.1	
LVWPS-A2-MW04A	1/26/2021	N	EM03	Zone 2	Qal	43.8 - 63.5	2,800	4,900	19	1,900	2.0 J+	3.67
LVWPS-A2-MW04A	1/26/2021	FD	EM03	Zone 2	Qal	43.8 - 63.5	2,700	4,900	19	1,900	1.8 J+	
LVWPS-A2-MW04A	2/9/2021	N	EM04	Zone 2	Qal	43.8 - 63.5	2,100	7,200	21	1,900	3.4 J-	4.44
LVWPS-A2-MW04A	2/9/2021	FD	EM04	Zone 2	Qal	43.8 - 63.5	2,200	7,100	21	1,800	2.4 J-	
LVWPS-A2-MW04A	3/9/2021	N	EM05	Zone 2	Qal	43.8 - 63.5	2,900	5,400	19	2,300	1.9	4.00
LVWPS-A2-MW04A	3/9/2021	FD	EM05	Zone 2	Qal	43.8 - 63.5	2,800	5,200	19	2,200	2.0	
LVWPS-A2-MW04A	4/6/2021	N	EM06	Zone 2	Qal	43.8 - 63.5	2,600	5,000	22	2,100	2.0 J+	4.48
LVWPS-A2-MW04A	4/6/2021	FD	EM06	Zone 2	Qal	43.8 - 63.5	2,600	5,000	21	2,100	2.1 J+	
LVWPS-A2-MW04B	10/2/2020	N	BL04	Zone 2	Qal	75.3 - 95.0	3,400	7,300	22	2,200	1.7	3.65
LVWPS-A2-MW04B	12/22/2020	N	EM01	Zone 2	Qal	75.3 - 95.0	2,800	7,300	13	2,100	23	0.49
LVWPS-A2-MW04B	1/12/2021	N	EM02	Zone 2	Qal	75.3 - 95.0	700	1,300	3.0	2,300	52	0.66
LVWPS-A2-MW04B	1/26/2021	N	EM03	Zone 2	Qal	75.3 - 95.0	1,100	2,400	3.7	1,900	34	0.46
LVWPS-A2-MW04B	2/9/2021	N	EM04	Zone 2	Qal	75.3 - 95.0	650	1,800	3.5	2,000	51 J-	4.06
LVWPS-A2-MW04B	3/9/2021	N	EM05	Zone 2	Qal	75.3 - 95.0	1,200	1,700	4.0	2,100	34	0.29
LVWPS-A2-MW04B	4/6/2021	N	EM06	Zone 2	Qal	75.3 - 95.0	870	1,700	4.4	2,000	7.0 J+	0.40
LVWPS-A2-MW05A	10/5/2020	N	BL04	Zone 2	Qal	36.8 - 51.5	2,400	3,900	14	2,200	1.1	6.22
LVWPS-A2-MW05A	12/22/2020	N	EM01	Zone 2	Qal	36.8 - 51.5	310	73	0.91	2,200	170	0.91
LVWPS-A2-MW05A	1/13/2021	N	EM02	Zone 2	Qal	36.8 - 51.5	330	190	1.5	2,000	50	0.28
LVWPS-A2-MW05A	1/26/2021	N	EM03	Zone 2	Qal	36.8 - 51.5	720	460	1.8	1,600	120	0.44
LVWPS-A2-MW05A	2/9/2021	N	EM04	Zone 2	Qal	36.8 - 51.5	1,900	2,500	7.4	2,000	9.8 J-	3.20
LVWPS-A2-MW05A	3/10/2021	N	EM05	Zone 2	Qal	36.8 - 51.5	1,200	1,200	5.2 J+	1,700	22	1.70
LVWPS-A2-MW05A	4/7/2021	N	EM06	Zone 2	Qal	36.8 - 51.5	1,500	1,400	8.1	2,100	4.1 J+	1.04
LVWPS-A2-MW05B	10/5/2020	N	BL04	Zone 2	Qal	58.8 - 73.5	1,900	2,300	8.7	2,000	0.66	7.24
LVWPS-A2-MW05B	12/22/2020	N	EM01	Zone 2	Qal	58.8 - 73.5	2.9	<4.0	<0.014	1,800	170 J-	0.35
LVWPS-A2-MW05B	12/22/2020	FD	EM01	Zone 2	Qal	58.8 - 73.5	2.9	<4.0	0.026 J	2,000	170	
LVWPS-A2-MW05B	1/13/2021	N	EM02	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	1,400	150	0.29
LVWPS-A2-MW05B	1/13/2021	FD	EM02	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	1,400	150	
LVWPS-A2-MW05B	1/26/2021	N	EM03	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	860	220	0.45
LVWPS-A2-MW05B	2/9/2021	N	EM04	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	590	160 J-	0.26
LVWPS-A2-MW05B	2/9/2021	FD	EM04	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	610	140 J-	
LVWPS-A2-MW05B	3/10/2021	N	EM05	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	270	280 J	1.25
LVWPS-A2-MW05B	3/10/2021	FD	EM05	Zone 2	Qal	58.8 - 73.5	<0.31	<10	<0.014	270	170 J	
LVWPS-A2-MW05B	4/7/2021	N	EM06	Zone 2	Qal	58.8 - 73.5	1.3	<10	<0.014	470	170	0.41
LVWPS-A2-MW05B	4/7/2021	FD	EM06	Zone 2	Qal	58.8 - 73.5	1.3	<10	<0.014	450	170	
LVWPS-A2-MW08A	9/30/2020	N	BL04	Zone 2	Qal	40.3 - 55.0	2,700	2,100	20	2,100	1.9 J+	5.27
LVWPS-A2-MW08A	12/23/2020	N	EM01	Zone 2	Qal	40.3 - 55.0	1,400	2,000	4.7	2,100	7.4	0.91
LVWPS-A2-MW08A	1/15/2021	N	EM02	Zone 2	Qal	40.3 - 55.0	750	1,300	3.2	2,200	25	1.84
LVWPS-A2-MW08A	1/26/2021	N	EM03	Zone 2	Qal	40.3 - 55.0	1,100	1,800	6.1	1,800	6.5	0.86
LVWPS-A2-MW08A	2/10/2021	N	EM04	Zone 2	Qal	40.3 - 55.0	1,800	3,400	11	2,000	2.7	0.61
LVWPS-A2-MW08A	3/10/2021	N	EM05	Zone 2	Qal	40.3 - 55.0	2,000	3,200	13	2,100	2.3	0.83
LVWPS-A2-MW08A	4/6/2021	N	EM06	Zone 2	Qal	40.3 - 55.0	2,000	4,300	16	2,000	2.1 J+	1.97
LVWPS-A2-MW08B	10/1/2020	N	BL04	Zone 2	Qal	59.8 - 79.5	3,800	6,000	21	2,000	1.8	5.25
LVWPS-A2-MW08B	12/23/2020	N	EM01	Zone 2	Qal	59.8 - 79.5	2,400	4,900	18	2,000	2.4	1.45
LVWPS-A2-MW08B	1/15/2021	N	EM02	Zone 2	Qal	59.8 - 79.5	2,100	4,400	15	2,100	2.2	1.76
LVWPS-A2-MW08B	1/26/2021	N	EM03	Zone 2	Qal	59.8 - 79.5	2,500	4,600	16	1,900	2.4 J+	1.54
LVWPS-A2-MW08B	2/10/2021	N	EM04	Zone 2	Qal	59.8 - 79.5	2,600	4,700	20	2,200	2.3	1.96
LVWPS-A2-MW08B	3/10/2021	N	EM05	Zone 2	Qal	59.8 - 79.5	2,800	4,900	19	2,300	2.1	2.18
LVWPS-A2-MW08B	4/9/2021	N	EM06	Zone 2	Qal	59.8 - 79.5	2,600	5,600	22	2,200	1.9	3.78



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A2-MW08C	10/1/2020	N	BL04	Zone 2	Qal	86.3 - 106.0	4,100	7,200	21	2,200	1.7	4.92
LVWPS-A2-MW08C	12/23/2020	N	EM01	Zone 2	Qal	86.3 - 106.0	110	<10	<0.014	2,400	210	0.81
LVWPS-A2-MW08C	1/15/2021	N	EM02	Zone 2	Qal	86.3 - 106.0	<0.31	<10	<0.014	2,100	130	0.35
LVWPS-A2-MW08C	1/28/2021	N	EM03	Zone 2	Qal	86.3 - 106.0	<3.1	<10	<0.014	1,400	91	0.42
LVWPS-A2-MW08C	2/10/2021	N	EM04	Zone 2	Qal	86.3 - 106.0	140	39 J	<0.014	1,500	100	0.29
LVWPS-A2-MW08C	3/10/2021	N	EM05	Zone 2	Qal	86.3 - 106.0	130	<10	<0.014	1,300	53	0.23
LVWPS-A2-MW08C	4/9/2021	N	EM06	Zone 2	Qal	86.3 - 106.0	310	140	0.18	1,800	3.6	0.43
LVWPS-A2-MW09A	10/9/2020	N	BL04	Zone 2	Qal	34.8 - 54.5	3,400	5,500	17	2,500	1.4	5.63
LVWPS-A2-MW09A	12/22/2020	N	EM01	Zone 2	Qal	34.8 - 54.5	1,900	2,300	8.3 J-	2,000	1.7 J	4.92
LVWPS-A2-MW09A	1/11/2021	N	EM02	Zone 2	Qal	34.8 - 54.5	3,000	3,200	12	2,400	1.5	2.82
LVWPS-A2-MW09A	1/11/2021	FD	EM02	Zone 2	Qal	34.8 - 54.5	3,200	3,400	12	2,500	1.6	
LVWPS-A2-MW09A	1/26/2021	N	EM03	Zone 2	Qal	34.8 - 54.5	2,200	2,700	8.7	2,400	2.1 J+	1.94
LVWPS-A2-MW09A	2/8/2021	N	EM04	Zone 2	Qal	34.8 - 54.5	2,100	3,000	11	2,300	1.4	4.10
LVWPS-A2-MW09A	2/8/2021	FD	EM04	Zone 2	Qal	34.8 - 54.5	2,200	3,100	11	2,300	1.5	
LVWPS-A2-MW09A	3/8/2021	N	EM05	Zone 2	Qal	34.8 - 54.5	2,300	3,400	13	2,100	1.4	2.09
LVWPS-A2-MW09A	3/8/2021	FD	EM05	Zone 2	Qal	34.8 - 54.5	2,300	3,300	11	2,200	1.5	
LVWPS-A2-MW09A	4/5/2021	N	EM06	Zone 2	Qal	34.8 - 54.5	1,000	3,200	11	2,300	1.5	2.30
LVWPS-A2-MW09A	4/5/2021	FD	EM06	Zone 2	Qal	34.8 - 54.5	1,000	3,200	11	2,300	1.7	
LVWPS-A2-MW09B	10/9/2020	N	BL04	Zone 2	Qal	58.8 - 78.5	1,600	2,100	8.8	2,000	0.60	7.44
LVWPS-A2-MW09B	12/22/2020	N	EM01	Zone 2	Qal	58.8 - 78.5	1,500	1,600	5.5	1,800	0.69	3.74
LVWPS-A2-MW09B	1/14/2021	N	EM02	Zone 2	Qal	58.8 - 78.5	1,300	1,700	6.1	1,900	0.59	3.90
LVWPS-A2-MW09B	1/27/2021	N	EM03	Zone 2	Qal	58.8 - 78.5	1,500	1,600	6.5	1,700	0.64	3.54
LVWPS-A2-MW09B	2/8/2021	N	EM04	Zone 2	Qal	58.8 - 78.5	1,500	1,800	7.2	1,800	0.71	4.12
LVWPS-A2-MW09B	3/8/2021	N	EM05	Zone 2	Qal	58.8 - 78.5	1,400	1,800	7.2	1,700	0.63	6.42
LVWPS-A2-MW09B	4/5/2021	N	EM06	Zone 2	Qal	58.8 - 78.5	720	2,000	8.5	1,900	0.64	6.05
LVWPS-A2-MW11A	10/2/2020	N	BL04	Zone 2	Qal	40.3 - 60.0	3,100	5,300	19	2,100	1.7	4.72
LVWPS-A2-MW11A	10/2/2020	FD	BL04	Zone 2	Qal	40.3 - 60.0	3,100	5,100	19	2,100	1.7	4.72
LVWPS-A2-MW11A	12/23/2020	N	EM01	Zone 2	Qal	40.3 - 60.0	2,900	5,000	19	2,100	2.0	3.75
LVWPS-A2-MW11A	1/13/2021	N	EM02	Zone 2	Qal	40.3 - 60.0	2,500	5,600	19	2,100	1.9	3.37
LVWPS-A2-MW11A	1/27/2021	N	EM03	Zone 2	Qal	40.3 - 60.0	2,200	4,700	5.2	1,900	1.9	3.34
LVWPS-A2-MW11A	2/9/2021	N	EM04	Zone 2	Qal	40.3 - 60.0	2,700	4,700	21	2,000 J-	1.7 J-	5.05
LVWPS-A2-MW11A	3/9/2021	N	EM05	Zone 2	Qal	40.3 - 60.0	2,800	4,900	21	2,300	1.8	4.31
LVWPS-A2-MW11A	4/6/2021	N	EM06	Zone 2	Qal	40.3 - 60.0	2,800	5,200	22	2,200	1.8 J+	4.46
LVWPS-A2-MW11B	10/2/2020	N	BL04	Zone 2	Qal	65.3 - 85.0	2,900	7,200	21	2,100	1.6 3+	4.18
LVWPS-A2-MW11B	12/23/2020	N	EM01	Zone 2	Qal	65.3 - 85.0	2,600	6,100	22	2,100	2.3 J	7.73
LVWPS-A2-MW11B	1/13/2021	N	EM02	Zone 2	Qal	65.3 - 85.0	2,600	6,500	22	2,100	2.3 3	7.13
LVWPS-A2-MW11B	1/27/2021	N	EM03	Zone 2	Qal	65.3 - 85.0	3,300	6,900	23	1,900	1.9	3.35
LVWPS-A2-MW11B	2/8/2021	N	EM04	Zone 2	Qal	65.3 - 85.0	3,200	8,000	23	2,000	1.8	8.67
LVWPS-A2-MW11B	3/9/2021	N	EM05	Zone 2	Qal	65.3 - 85.0	3,000	6,600	23	2,100	1.8	6.28
LVWPS-A2-MW11B	4/6/2021	N	EM06	Zone 2	Qal	65.3 - 85.0	2,800	7,800	23	2,100	1.8 J+	4.14
LVWPS-A2-MW11C	10/2/2020	N	BL04	Zone 2	Qal	90.3 - 110.0	3,500	11,000	23	2,100	1.6	3.91
LVWPS-A2-MW11C	12/23/2020	N	EM01	Zone 2	Qal	90.3 - 110.0	3,000	9,800	23	2,100	<0.26	3.43
LVWPS-A2-MW11C	1/14/2021	N	EM02	Zone 2	Qal	90.3 - 110.0	2,900	9,800	23	2,300	1.7	3.43
LVWPS-A2-MW11C	1/14/2021	N N	EM03	Zone 2 Zone 2	Qal	90.3 - 110.0	3,500	11,000	23	2,300	2.2	2.67
		N N	EM04	Zone 2 Zone 2	Qal	90.3 - 110.0	3,500		24	1,900	2.2 1.6 J-	6.27
LVWPS-A2-MW11C LVWPS-A2-MW11C	2/9/2021 3/10/2021	N N	EM05	Zone 2 Zone 2	Qal	90.3 - 110.0	3,200	11,000 11,000	24	2,100	2.0	3.91
LVWPS-A2-MW11C												3.53
	4/6/2021	N	EM06	Zone 2	Qal	90.3 - 110.0	2,700	12,000	25	2,200	2.5 J	
LVWPS-A2-MW12A	10/6/2020	N	BL04	Zone 2	Qal	34.9 - 44.5 34.9 - 44.5	4,400	5,300	18	2,100	1.7	4.83
LVWPS-A2-MW12A	12/22/2020	N	EM01	Zone 2	Qal		32	50 J	<0.014	2,500	120	0.56
LVWPS-A2-MW12A	12/22/2020	FD	EM01	Zone 2	Qal	34.9 - 44.5	40	48 J	<0.014	2,400	120	0.74
LVWPS-A2-MW12A	1/11/2021	N	EM02	Zone 2	Qal	34.9 - 44.5	<0.31	<4.0	<0.014	2,100	92	0.74
LVWPS-A2-MW12A	1/27/2021	N	EM03	Zone 2	Qal	34.9 - 44.5	<0.31	<10	<0.014	200	8.0	0.45
LVWPS-A2-MW12A	2/8/2021	N	EM04	Zone 2	Qal	34.9 - 44.5	<0.31	<10	0.023 J	14	33	1.34



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A2-MW12A	3/8/2021	N	EM05	Zone 2	Qal	34.9 - 44.5	0.47 J	<10	<0.014	290	4.0	0.18
LVWPS-A2-MW12A	4/5/2021	N	EM06	Zone 2	Qal	34.9 - 44.5	<0.31	<10	<0.014	650	3.4	0.70
LVWPS-A2-MW12B	10/7/2020	N	BL04	Zone 2	Qal	49.3 - 69.0	4,000	5,600	19	2,300	1.6	4.82
LVWPS-A2-MW12B	12/22/2020	N	EM01	Zone 2	Qal	49.3 - 69.0	12	<10	<0.014	2,100	45	0.53
LVWPS-A2-MW12B	1/12/2021	N	EM02	Zone 2	Qal	49.3 - 69.0	170	130	0.036 J	2,300	11	0.68
LVWPS-A2-MW12B	1/27/2021	N	EM03	Zone 2	Qal	49.3 - 69.0	220	140	<0.014	1,900	2.8	0.57
LVWPS-A2-MW12B	1/27/2021	FD	EM03	Zone 2	Qal	49.3 - 69.0	220	150	<0.014	2,000	2.9	
LVWPS-A2-MW12B	2/8/2021	N	EM04	Zone 2	Qal	49.3 - 69.0	20	28 J	<0.014	2,100	2.8	1.31
LVWPS-A2-MW12B	3/8/2021	N	EM05	Zone 2	Qal	49.3 - 69.0	340	490	1.1	1,900	2.4	0.23
LVWPS-A2-MW12B	4/5/2021	N	EM06	Zone 2	Qal	49.3 - 69.0	1,200	1,700	4.6	2,100	2.7	0.75
LVWPS-A2-MW13A	10/1/2020	N	BL04	Zone 2	Qal	41.3 - 61.0	1,200	2,100	10	1,800	0.76	6.60
LVWPS-A2-MW13A	12/22/2020	N	EM01	Zone 2	Qal	41.3 - 61.0	1,100	1,300	7.3	1,900	1.4	6.32
LVWPS-A2-MW13A	1/11/2021	N	EM02	Zone 2	Qal	41.3 - 61.0	1,100	1,100	5.9	2,300	1.7	0.85
LVWPS-A2-MW13A	1/27/2021	N	EM03	Zone 2	Qal	41.3 - 61.0	1,700	1,900	8.9	2,000	1.6	1.12
LVWPS-A2-MW13A	2/10/2021	N	EM04	Zone 2	Qal	41.3 - 61.0	2,000	2,300	12	2,000	1.4	1.87
LVWPS-A2-MW13A	3/11/2021	N	EM05	Zone 2	Qal	41.3 - 61.0	1,400	1,900	8.5	1,900	1.1 J	4.82
LVWPS-A2-MW13A	4/7/2021	N	EM06	Zone 2	Qal	41.3 - 61.0	2,000	2,900	14	2,300	1.3 J+	1.89
LVWPS-A2-MW13B	10/1/2020	N	BL04	Zone 2	Qal	66.4 - 86.1	2,200	4,300	15	2,200	1.2	5.76
LVWPS-A2-MW13B	12/22/2020	N	EM01	Zone 2	Qal	66.4 - 86.1	610	830	3.5	2,200	32	2.43
LVWPS-A2-MW13B	1/12/2021	N	EM02	Zone 2	Qal	66.4 - 86.1	38	58 J	0.11 J	2,100	21	0.49
LVWPS-A2-MW13B	1/27/2021	N	EM03	Zone 2	Qal	66.4 - 86.1	52	26 J	0.71	1,700	9.6	0.44
LVWPS-A2-MW13B	2/10/2021	N	EM04	Zone 2	Qal	66.4 - 86.1	170	240	0.76	1,600	3.6	0.85
LVWPS-A2-MW13B	3/11/2021	N	EM05	Zone 2	Qal	66.4 - 86.1	520	380	3.3	1,800	1.8	1.19
LVWPS-A2-MW13B	4/7/2021	N	EM06	Zone 2	Qal	66.4 - 86.1	230	170 J+	0.58 J+	2,000	1.9 J+	0.90
LVWPS-A2-MW14A	10/6/2020	N	BL04	Zone 2	Qal	35.8 - 50.5	2,600	5,400	19	2,200	1.7	5.77
LVWPS-A2-MW14A	10/6/2020	FD	BL04	Zone 2	Qal	35.8 - 50.5	2,700	5,100	19	2,200	1.7	
LVWPS-A2-MW14A	12/22/2020	N	EM01	Zone 2	Qal	35.8 - 50.5	130	240	0.58 J-	2,300	28	0.33
LVWPS-A2-MW14A	12/22/2020	FD	EM01	Zone 2	Qal	35.8 - 50.5	140	210	0.58 J-	2,200	29	
LVWPS-A2-MW14A	1/13/2021	N	EM02	Zone 2	Qal	35.8 - 50.5	200	250	0.57	1,900	31	0.69
LVWPS-A2-MW14A	1/13/2021	FD	EM02	Zone 2	Qal	35.8 - 50.5	210	220	0.59	1,900	32	
LVWPS-A2-MW14A	1/28/2021	N	EM03	Zone 2	Qal	35.8 - 50.5	50	65 J	0.24	950	59	1.02
LVWPS-A2-MW14A	1/28/2021	FD	EM03	Zone 2	Qal	35.8 - 50.5	59	52 J	0.25	960	61	
LVWPS-A2-MW14A	2/9/2021	N	EM04	Zone 2	Qal	35.8 - 50.5	23	<10	0.053	890	41 J-	0.72
LVWPS-A2-MW14A	2/9/2021	FD	EM04	Zone 2	Qal	35.8 - 50.5	23	<10	0.038 J	890	41 J-	
LVWPS-A2-MW14A	3/9/2021	N	EM05	Zone 2	Qal	35.8 - 50.5	13	12 J	<0.014	920	49	0.27
LVWPS-A2-MW14A	3/9/2021	FD	EM05	Zone 2	Qal	35.8 - 50.5	13	32 J	<0.014	910	50	
LVWPS-A2-MW14A	4/6/2021	N	EM06	Zone 2	Qal	35.8 - 50.5	67	96 J	0.32 J+	1,100	4.2 J+	0.36
LVWPS-A2-MW14A	4/6/2021	FD	EM06	Zone 2	Qal	35.8 - 50.5	68	99 J	0.30 J+	1,100	4.0 J+	
LVWPS-A2-MW14B	10/6/2020	N	BL04	Zone 2	Qal	54.8 - 74.5	2,800	5,400	18	2,300	1.6	5.42
LVWPS-A2-MW14B	12/22/2020	N	EM01	Zone 2	Qal	54.8 - 74.5	1,700	2,800	7.9	2,400	7.4	0.28
LVWPS-A2-MW14B	1/13/2021	N	EM02	Zone 2	Qal	54.8 - 74.5	1,800	3,800	10	2,300	3.1	0.70
LVWPS-A2-MW14B	1/25/2021	N	EM03	Zone 2	Qal	54.8 - 74.5	2,400	3,000	8.6	2,100	2.2 J+	0.98
LVWPS-A2-MW14B	2/9/2021	N	EM04	Zone 2	Qal	54.8 - 74.5	1,400	2,600	9.5	2,000	6.2 J-	0.73
LVWPS-A2-MW14B	3/10/2021	N	EM05	Zone 2	Qal	54.8 - 74.5	2,200	3,700	13	2,100	2.1	1.41
LVWPS-A2-MW14B	4/6/2021	N	EM06	Zone 2	Qal	54.8 - 74.5	2,200	4,000	15	2,300	2.1 J+	0.91
LVWPS-A2-MW15A	10/7/2020	N	BL04	Zone 2	Qal	39.8 - 59.5	3,400	5,100	20	2,100	1.7	4.55
LVWPS-A2-MW15A	12/21/2020	N	EM01	Zone 2	Qal	39.8 - 59.5	3,000	5,100	19	2,000	1.9	4.42
LVWPS-A2-MW15A	1/11/2021	N	EM02	Zone 2	Qal	39.8 - 59.5	2,800	5,400	19	2,200	1.9	3.70
LVWPS-A2-MW15A	1/25/2021	N	EM03	Zone 2	Qal	39.8 - 59.5	2,900	5,000	18	2,000	2.0 J+	3.59
LVWPS-A2-MW15A	2/9/2021	N	EM04	Zone 2	Qal	39.8 - 59.5	2,200	4,800	20	1,900	2.0 J-	4.64
LVWPS-A2-MW15A	3/9/2021	N	EM05	Zone 2	Qal	39.8 - 59.5	2,800	4,900	21	2,000	1.9	4.17
LVWPS-A2-MW15A	4/6/2021	N	EM06	Zone 2	Qal	39.8 - 59.5	2,600	5,100	21	2,100	2.5 J+	3.99
LVWPS-A2-MW15B	10/8/2020	N	BL04	Zone 2	Qal	70.3 - 90.0	3,200	9,000	22	2,300	1.7	3.90



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A2-MW15B	12/22/2020	N	EM01	Zone 2	Qal	70.3 - 90.0	3,300	7,600	24	2,200	2.0	4.30
LVWPS-A2-MW15B	1/12/2021	N	EM02	Zone 2	Qal	70.3 - 90.0	3,300	8,400	24	2,300	1.8	3.05
LVWPS-A2-MW15B	1/26/2021	N	EM03	Zone 2	Qal	70.3 - 90.0	3,400	9,000	25	2,000	1.8 J+	9.30 E
LVWPS-A2-MW15B	2/9/2021	N	EM04	Zone 2	Qal	70.3 - 90.0	2,600	9,500	24	1,800	1.7 J-	3.99
LVWPS-A2-MW15B	3/9/2021	N	EM05	Zone 2	Qal	70.3 - 90.0	3,100	9,400	25	2,100	1.7	3.95
LVWPS-A2-MW15B	4/6/2021	N	EM06	Zone 2	Qal	70.3 - 90.0	2,900	9,800	25	2,200	1.7 J+	3.83
LVWPS-A2-MW16A	10/9/2020	N	BL04	Zone 2	Qal	35.8 - 55.5	3,500	5,800	22	2,100	1.6	5.17
LVWPS-A2-MW16A	12/22/2020	N	EM01	Zone 2	Qal	35.8 - 55.5	3,600	5,600	21	2,000	1.8	3.55
LVWPS-A2-MW16A	1/12/2021	N	EM02	Zone 2	Qal	35.8 - 55.5	2,900	5,300	21	2,300	1.7	3.87
LVWPS-A2-MW16A	1/25/2021	N	EM03	Zone 2	Qal	35.8 - 55.5	3,900	5,300	20	2,000	1.8 J+	3.87
LVWPS-A2-MW16A	2/9/2021	N	EM04	Zone 2	Qal	35.8 - 55.5	2,600	5,600	22	1,900	1.7 J-	3.35
LVWPS-A2-MW16A	3/12/2021	N	EM05	Zone 2	Qal	35.8 - 55.5	2,600	5,700	23	2,000	2.0 J+	3.86
LVWPS-A2-MW16A	4/6/2021	N	EM06	Zone 2	Qal	35.8 - 55.5	2,500	5,800	24	2,100	1.8 J+	4.41
LVWPS-A2-MW16B	10/9/2020	N	BL04	Zone 2	Qal	60.3 - 80.0	3,600	9,000	22	2,200	1.5	4.45
LVWPS-A2-MW16B	10/9/2020	FD	BL04	Zone 2	Qal	60.3 - 80.0	3,400	9,100	22	2,200	1.6	
LVWPS-A2-MW16B	12/22/2020	N	EM01	Zone 2	Qal	60.3 - 80.0	4,100	7,800	22 J-	2,100	2.0	3.44
LVWPS-A2-MW16B	1/12/2021	N	EM02	Zone 2	Qal	60.3 - 80.0	3,000	9,200	22	2,300	1.7	3.57
LVWPS-A2-MW16B	1/25/2021	N	EM03	Zone 2	Qal	60.3 - 80.0	3,500	8,400	20	2,000	1.8 J+	3.63
LVWPS-A2-MW16B	2/9/2021	N	EM04	Zone 2	Qal	60.3 - 80.0	2,900	8,500	22	1,900	1.7 J-	2.68
LVWPS-A2-MW16B	3/12/2021	N	EM05	Zone 2	Qal	60.3 - 80.0	3,000	10,000	11	2,100	1.8 J+	8.61
LVWPS-A2-MW16B	4/6/2021	N	EM06	Zone 2	Qal	60.3 - 80.0	3,000	9,700	23	2,200	1.7 J+	4.10
LVWPS-A2-MW17A	10/1/2020	N	BL04	Zone 2	Qal	40.3 - 60.0	2,500	5,300	19	2,100	1.7	4.90
LVWPS-A2-MW17A	12/22/2020	N	EM01	Zone 2	Qal	40.3 - 60.0	2,100	2,100	6.4	2,200	2.8	0.37
LVWPS-A2-MW17A	1/11/2021	N	EM02	Zone 2	Qal	40.3 - 60.0	2,100	3,000	8.7	2,200	2.0	0.67
LVWPS-A2-MW17A	1/26/2021	N	EM03	Zone 2	Qal	40.3 - 60.0	2,700	3,700	14	1,900	2.4 J+	1.77 E
LVWPS-A2-MW17A	2/8/2021	N	EM04	Zone 2	Qal	40.3 - 60.0	2,400	3,600	13	2,000	1.9	1.18
LVWPS-A2-MW17A	3/8/2021	N	EM05	Zone 2	Qal	40.3 - 60.0	1,900	3,500	14	1,900	2.0	3.86
LVWPS-A2-MW17A	4/5/2021	N	EM06	Zone 2	Qal	40.3 - 60.0	2,400	4,400	18	2,100	2.0	1.84
LVWPS-A2-MW17B	10/1/2020	N	BL04	Zone 2	Qal	65.3 - 85.0	2,700	5,700	21	2,100	1.7	4.83
LVWPS-A2-MW17B	12/22/2020	N	EM01	Zone 2	Qal	65.3 - 85.0	560	350	1.2	2,200	7.6	0.37
LVWPS-A2-MW17B	1/11/2021	N	EM02	Zone 2	Qal	65.3 - 85.0	790	1,200	3.2	2,200	6.8	0.26
LVWPS-A2-MW17B	1/26/2021	N	EM03	Zone 2	Qal	65.3 - 85.0	870	1,300	3.3	1,700	4.5	7.06 E
LVWPS-A2-MW17B	2/8/2021	N	EM04	Zone 2	Qal	65.3 - 85.0	1,100	1,400	4.5	1,800	3.5	4.10
LVWPS-A2-MW17B	3/8/2021	N	EM05	Zone 2	Qal	65.3 - 85.0	530	560	3.1	1,700	3.2	3.35
LVWPS-A2-MW17B	4/5/2021	N	EM06	Zone 2	Qal	65.3 - 85.0	1,600	2,900	13	2,100	2.4	1.01
LVWPS-A2-MW17C	10/1/2020	N	BL04	Zone 2	Qal	90.3 - 110.0	2,200	3,700	14	2,100	1.1	5.67
LVWPS-A2-MW17C	12/22/2020	N	EM01	Zone 2	Qal	90.3 - 110.0	2,000	1,700	4.3	1,900	4.8	2.30
LVWPS-A2-MW17C	1/11/2021	N	EM02	Zone 2	Qal	90.3 - 110.0	660	920	2.6	2,100	3.6	0.91
LVWPS-A2-MW17C	1/26/2021	N	EM03	Zone 2	Qal	90.3 - 110.0	720	1,000	2.5	1,800	2.9	3.80 E
LVWPS-A2-MW17C	2/8/2021	N	EM04	Zone 2	Qal	90.3 - 110.0	570	760	2.1	1,200	62	3.93
LVWPS-A2-MW17C	3/8/2021	N	EM05	Zone 2	Qal	90.3 - 110.0	1,300	2,100	6.7	1,700	1.4	7.18
LVWPS-A2-MW17C	4/5/2021	N	EM06	Zone 2	Qal	90.3 - 110.0	920	970	4.8	1,800	3.0	0.34
LVWPS-A3-MW02	10/5/2020	N	BL04	Zone 3	Qal	52.8 - 72.5	100	150	7.0	900	0.29 J	6.42
LVWPS-A3-MW02	1/14/2021	N	EM02	Zone 3	Qal	52.8 - 72.5	100	140	7.2	1,000	0.35 J	6.18
LVWPS-A3-MW02	2/11/2021	N	EM04	Zone 3	Qal	52.8 - 72.5	130	130	7.4 J-	920	0.28 J	6.68
LVWPS-A3-MW02	3/11/2021	N	EM05	Zone 3	Qal	52.8 - 72.5	120	140	7.3	1,000	0.29 J	6.17
LVWPS-A3-MW02	4/9/2021	N	EM06	Zone 3	Qal	52.8 - 72.5	120	150	7.4	980	0.35 J	6.30
LVWPS-A3-MW06	10/5/2020	N	BL04	Zone 3	Qal	55.3 - 75.0	110	150	9.0	1,300	0.45 J	7.24
LVWPS-A3-MW06	1/15/2021	N	EM02	Zone 3	Qal	55.3 - 75.0	100	160	8.6	1,400	0.61 J-	6.47
LVWPS-A3-MW06	2/10/2021	N	EM04	Zone 3	Qal	55.3 - 75.0	120	140	8.9	1,300	0.48 J	6.27
LVWPS-A3-MW06	3/12/2021	N	EM05	Zone 3	Qal	55.3 - 75.0	140	150 J+	8.2	1,200	0.43 J	6.28
LVWPS-A3-MW06	4/9/2021	N	EM06	Zone 3	Qal	55.3 - 75.0	96	150	8.1	1,300	0.43 J	6.32



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-A3-MW07	1/15/2021	N	EM02	Zone 3	Qal	54.8 - 74.5	130	230	7.1	1,200	<1.0	6.70
LVWPS-A3-MW07	2/11/2021	N	EM04	Zone 3	Qal	54.8 - 74.5	130	200	7.5 J-	1,100	0.34 J	6.71
LVWPS-A3-MW07	3/11/2021	N	EM05	Zone 3	Qal	54.8 - 74.5	160	250	7.1	1,200	0.37 J	5.93
LVWPS-A3-MW07	4/8/2021	N	EM06	Zone 3	Qal	54.8 - 74.5	120	150	7.0	1,100	<1.0	6.42
LVWPS-A3-MW08	10/8/2020	N	BL04	Zone 3	Qal	84.8 - 104.5	120	180	8.5	1,600	0.81	4.73
LVWPS-A3-MW08	1/14/2021	N	EM02	Zone 3	Qal	84.8 - 104.5	71	160	8.4	1,700	1.1 J	6.42
LVWPS-A3-MW08	2/11/2021	N	EM04	Zone 3	Qal	84.8 - 104.5	83	170	8.1 J-	1,600	0.80	6.32
LVWPS-A3-MW08	3/10/2021	N	EM05	Zone 3	Qal	84.8 - 104.5	66	150	8.4	1,500	<1.0	5.94
LVWPS-A3-MW08	4/9/2021	N	EM06	Zone 3	Qal	84.8 - 104.5	61	150	7.8	1,600	<1.0	6.86
LVWPS-A3-MW10	10/5/2020	N	BL04	Zone 3	Qal	56.3 - 76.0	200	200	7.5	870	0.26 J	7.31
LVWPS-A3-MW10	1/14/2021	N	EM02	Zone 3	Qal	56.3 - 76.0	190	220	7.7	930	0.44 J	6.97
LVWPS-A3-MW10	2/11/2021	N	EM04	Zone 3	Qal	56.3 - 76.0	180	180	7.9 J-	950	<0.26	6.84
LVWPS-A3-MW10	3/11/2021	N	EM05	Zone 3	Qal	56.3 - 76.0	170	200	8.4	910	0.34 J	6.76
LVWPS-A3-MW10	4/9/2021	N	EM06	Zone 3	Qal	56.3 - 76.0	160	200	8.0	980	0.26 J	6.59
LVWPS-A3-MW11	10/7/2020	N	BL04	Zone 3	Qal	53.8 - 73.5	78	160	9.2	1,600	0.96	8.50
LVWPS-A3-MW11	1/15/2021	N	EM02	Zone 3	Qal	53.8 - 73.5	55 J	140	8.4	1,700	0.72	6.84
LVWPS-A3-MW11	2/11/2021	N	EM04	Zone 3	Qal	53.8 - 73.5	68	150	7.6	1,600	0.65	6.69
LVWPS-A3-MW11	3/11/2021	N	EM05	Zone 3	Qal	53.8 - 73.5	63	140	7.8	1,700	0.82	6.40
LVWPS-A3-MW11	4/8/2021	N	EM06	Zone 3	Qal	53.8 - 73.5	55	150	8.2	1,600	0.60	6.23
LVWPS-A3-MW12	10/5/2020	N	BL04	Zone 3	Qal	59.3 - 79.0	200	270	7.2	1,200	0.40 J	6.48
LVWPS-A3-MW12	1/13/2021	N	EM02	Zone 3	Qal	59.3 - 79.0	230	260	7.1	1,200	0.35 J	5.84
LVWPS-A3-MW12	2/12/2021	N	EM04	Zone 3	Qal	59.3 - 79.0	190	280	7.6	1,200	0.41 J	8.24
LVWPS-A3-MW12	3/12/2021	N	EM05	Zone 3	Qal	59.3 - 79.0	140	190	5.8	1,100	0.45 J	4.29
LVWPS-A3-MW12	4/14/2021	N	EM06	Zone 3	Qal	59.3 - 79.0	140	190	5.4	1,100	0.41 J	3.69
LVWPS-EW01	9/29/2020	N	BL04	Extraction	Qal	44.8 - 84.5	2,900	13,000	23	2,200	1.6	2.76
LVWPS-EW01	3/12/2021	N	EM05	Extraction	Qal	44.8 - 84.5	3,400	14,000	23	2,000	1.7 J+	2.34
LVWPS-EW02	9/29/2020	N	BL04	Extraction	Qal	28.3 - 58.0	2,900	5,500	20	2,100	1.9	4.29
LVWPS-EW02	3/12/2021	N	EM05	Extraction	Qal	28.3 - 58.0	2,900	7,000	23	2,000	1.9 J+	4.54
LVWPS-EW03	9/30/2020	N	BL04	Extraction	Qal	40.3 - 70.0	3,100	5,000	18	2,100	1.7	4.09
LVWPS-EW03	3/12/2021	N	EM05	Extraction	Qal	40.3 - 70.0	2,900	5,300	21	2,000	2.2 J+	3.92
LVWPS-EW03	3/12/2021	FD	EM05	Extraction	Qal	40.3 - 70.0	3,000	5,500	22	2,100	2.1 J+	5.92
LVWPS-EW04	9/30/2020	N	BL04	Extraction	Qal	26.3 - 46.0	2,800	5,200	20	2,100	2.0	4.35
LVWPS-EW04	3/12/2021	N	EM05	Extraction	Qal	26.3 - 46.0	2,900	5,600	23	2,100	2.1 J+	4.68
LVWPS-EW05	9/29/2020	N	BL04	Extraction	Qal	50.3 - 80.0	2,800	11,000	23	2,100	1.8	2.32
LVWPS-EW05	9/29/2020	FD	BL04	Extraction	Qal	50.3 - 80.0	2,800	11,000	23	2,100	1.7	2.52
LVWPS-EW05	3/15/2021	N	EM05	Extraction	Qal	50.3 - 80.0	3,100	12,000	24	2,100	1.8	2.22
LVWPS-MW201A	9/28/2020	N	BL04	General Vicinity	Qal	28.2 - 47.8	1,800	11,000	13			0.59
LVWPS-MW201B	9/28/2020	N	BL04	General Vicinity	UMCf	60.1 - 79.8	610	560	0.55			1.13
LVWPS-MW201B	9/29/2020	N	BL04	General Vicinity	Qal	41.8 - 61.5	1,100	6,000	12			0.80
LVWPS-MW203A	9/30/2020	N	BL04	General Vicinity	Qal	34.8 - 54.5	120	<40	9.3			0.80
LVWPS-MW203A	9/30/2020	FD	BL04	General Vicinity	Qal	34.8 - 54.5	120	<40	9.3			0.74
LVWPS-MW203A	9/30/2020	N N	BL04	General Vicinity	UMCf	75.1 - 94.7	2.6 J-	<40	<0.014			0.88
LVWPS-MW203C	9/30/2020	N	BL04	General Vicinity	UMCf (Semi-Cons)	100.3 - 120.0	<0.31	<20	<0.014			0.65
LVWPS-MW203C	9/28/2020	N	BL04	General Vicinity	Qal	50.3 - 70.0	1,600	10,000	14	1,300	1.4	1.84
LVWPS-MW204	9/28/2020	FD	BL04	,	Qal	50.3 - 70.0	1,600	10,000	14	1,300	1.3	1.04
LVWPS-MW204B	9/28/2020	N N	BL04	,	UMCf	101.5 - 121.2	12,000	22,000	15	1,800	0.75	2.92
LVWPS-MW204C	10/7/2020	N	BL04	General Vicinity	UMCf (Semi-Cons)	150.5 - 170.0	46	<100	<0.028			2.40
LVWPS-MW204C	9/28/2020	N	BL04	General Vicinity	Qal	64.9 - 84.6	1,300	6,300	12			0.50
LVWPS-MW205C	9/29/2020	N	BL04	General Vicinity	Qal	100.3 - 120.0	790	2,700	11			0.87
LVWPS-MW205C LVWPS-MW206A	9/30/2020	N N	BL04	Extraction	Qal Qal	39.8 - 59.5	3,400 J-	2,700 8,500	23			3.77
LVWPS-MW206A LVWPS-MW206B									10			1.84
	9/30/2020	N	BL04	Extraction	Qal	69.9 - 89.5	2,800	16,000				
LVWPS-MW206C	9/30/2020	N	BL04	Extraction	UMCf	100.3 - 120.0	4,900 J-	6,000	3.4			2.70
LVWPS-MW206D	10/6/2020	N	BL04	Extraction	UMCf	125.3 - 145.0	9.5	<10	<0.014			2.08



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-MW206E	10/5/2020	N	BL04	Extraction	UMCf (Semi-Cons)	195.5 - 205.0	39	<100	<0.014			2.11
LVWPS-MW207	9/28/2020	N	BL04	General Vicinity	Qal	68.1 - 87.8	2,200	14,000	18	1,800	1.5	1.55
LVWPS-MW207	12/22/2020	N	EM01	General Vicinity	Qal	68.1 - 87.8	4,900	13,000	17	1,900	1.6	1.27
LVWPS-MW207	1/29/2021	N	EM03	General Vicinity	Qal	68.1 - 87.8	2,500	14,000	14	1,800	1.7	1.09
LVWPS-MW207	3/12/2021	N	EM05	General Vicinity	Qal	68.1 - 87.8	3,000	14,000	19	1,800	1.6 J+	2.38
LVWPS-MW208A	10/9/2020	N	BL04	Zone 2	Qal	39.9 - 59.5	1,900	2,900	12	2,100	0.93	5.77
LVWPS-MW208A	12/23/2020	N	EM01	Zone 2	Qal	39.9 - 59.5	2,200	2,300	9.4	1,900	0.81	4.14
LVWPS-MW208A	1/13/2021	N	EM02	Zone 2	Qal	39.9 - 59.5	13,000 J	2,600	11	2,000	0.88	5
LVWPS-MW208A	1/27/2021	N	EM03	Zone 2	Qal	39.9 - 59.5	2,200	2,600	11	2,000	0.92	5.82 E
LVWPS-MW208A	2/10/2021	N	EM04	Zone 2	Qal	39.9 - 59.5	2,400	2,500	11	2,100	0.96	5.07
LVWPS-MW208A	3/10/2021	N	EM05	Zone 2	Qal	39.9 - 59.5	1,800 J+	2,800	10 J-	1,900	0.91	4.85
LVWPS-MW208A	4/6/2021	N	EM06	Zone 2	Qal	39.9 - 59.5	1,600	2,500	12	2,000	0.90 J+	4.64
LVWPS-MW208B	10/9/2020	N	BL04	Zone 2	Qal	65.3 - 85.0	2,100	3,200	12	2,000	1.0	5.90
LVWPS-MW208B	12/23/2020	N	EM01	Zone 2	Qal	65.3 - 85.0	870	42 J	0.23	1,900	11	0.31
LVWPS-MW208B	12/23/2020	FD	EM01	Zone 2	Qal	65.3 - 85.0	810	39 J	0.23	1,900	11	
LVWPS-MW208B	1/13/2021	N	EM02	Zone 2	Qal	65.3 - 85.0	63	46	0.33	1,800	8.4	0.83
LVWPS-MW208B	1/27/2021	N	EM03	Zone 2	Qal	65.3 - 85.0	74	56 J	0.25	1,600	9.9	3.35 E
LVWPS-MW208B	1/27/2021	FD	EM03	Zone 2	Qal	65.3 - 85.0	63	55 J	0.28	1,600	10	
LVWPS-MW208B	2/11/2021	N	EM04	Zone 2	Qal	65.3 - 85.0	150	180	0.83 J-	1,400 J-	1.4	1.54
LVWPS-MW208B	3/10/2021	N	EM05	Zone 2	Qal	65.3 - 85.0	330	380	2.3	1,900	1.2	0.44
LVWPS-MW208B	4/6/2021	N	EM06	Zone 2	Qal	65.3 - 85.0	340	430	2.4	1,900	1.1 J+	0.61
LVWPS-MW209	10/6/2020	N	BL04	General Vicinity	Qal	71.3 - 91.0	2,700	8,500	22	2,200	1.6	4.40
LVWPS-MW209	10/6/2020	FD	BL04	General Vicinity	Qal	71.3 - 91.0	2,800	9,000	22	2,200	1.6	
LVWPS-MW209	12/21/2020	N	EM01	General Vicinity	Qal	71.3 - 91.0	3,000	7,600	18	2,200	1.8	2.38
LVWPS-MW209	1/27/2021	N	EM03	General Vicinity	Qal	71.3 - 91.0	2,600	7,800	19	2,000	1.8	2.94 E
LVWPS-MW209	3/11/2021	N	EM05	General Vicinity	Qal	71.3 - 91.0	2,700	8,500	18	2,100	1.7	2.66
LVWPS-MW209A	10/6/2020	N	BL04	General Vicinity	Qal	35.3 - 55.0	2,800	6,800	21	2,200	1.7	4.72
LVWPS-MW209A	12/21/2020	N	EM01	General Vicinity	Qal	35.3 - 55.0	3,000	5,300	20	2,300	1.6	3.96
LVWPS-MW209A	1/27/2021	N	EM03	General Vicinity	Qal	35.3 - 55.0	2,300	3,700	14	2,100	2.4	2.59 E
LVWPS-MW209A	3/11/2021	N	EM05	General Vicinity	Qal	35.3 - 55.0	1,800	3,500	11	2,000	1.8	2.25
LVWPS-MW209B	10/6/2020	N	BL04	General Vicinity	UMCf-cg	110.3 - 130.0	2,700	8,300	21			4.30
LVWPS-MW209C	10/7/2020	N	BL04	General Vicinity	UMCf-cg	151.0 - 170.5	8,500	12,000	14			2.44
LVWPS-MW210A	10/6/2020	N	BL04	General Vicinity	Qal	35.3 - 55.0	2,600	12,000	20	1,800	1.5	2.44
LVWPS-MW210A	12/21/2020	N	EM01	General Vicinity	Qal	35.3 - 55.0	3,100	13,000	21	2,000	1.6	2.04
LVWPS-MW210A	1/29/2021	N	EM03	General Vicinity	Qal	35.3 - 55.0	2,900	11,000	17	1,800	1.6	2.66
LVWPS-MW210A	3/12/2021	N	EM05	General Vicinity	Qal	35.3 - 55.0	2,900	11,000	9.7	1,900	1.7 J+	2.78
LVWPS-MW210B	10/6/2020	N	BL04	General Vicinity	Qal	70.1 - 89.8	2,800	9,700	22	2,100	1.6	3.60
LVWPS-MW210B	12/21/2020	N	EM01	General Vicinity	Qal	70.1 - 89.8	2,800	8,300	15	2,100	1.9	1.48
LVWPS-MW210B	1/29/2021	N	EM03	General Vicinity	Qal	70.1 - 89.8	2,400	7,800	14	2,000	1.8	1.62
LVWPS-MW210B	3/12/2021	N	EM05	General Vicinity	Qal	70.1 - 89.8	2,500	9,600	8.5	2,000	1.9 J+	1.48
LVWPS-MW210C	10/1/2020	N	BL04	General Vicinity	UMCf-cg	100.3 - 120.0	10,000 J-	17,000	15			2.59
LVWPS-MW210D	10/7/2020	N	BL04	General Vicinity	UMCf-cg	130.4 - 140.0	8,500	10,000	3.8			3.24
LVWPS-MW210E	10/7/2020	N	BL04	General Vicinity	UMCf-cg	145.5 - 165.0	4,400	7,100	2.2			2.19
LVWPS-MW211	9/30/2020	N	BL04	General Vicinity	Qal	50.0 - 69.7	2,000	3,200	14	2,100	1.1	6.33
LVWPS-MW211	12/21/2020	N	EM01	General Vicinity	Qal	50.0 - 69.7	2,100	3,000	13	1.900	0.99	5.52
LVWPS-MW211	1/29/2021	N	EM03	General Vicinity	Qal	50.0 - 69.7	850	1,300	4.4	1,800	1.3 J	1.20
LVWPS-MW211	3/12/2021	N	EM05	General Vicinity	Qal	50.0 - 69.7	950	1,300	6.0	1,800	1.4 J	1.24
LVWPS-MW212A	10/5/2020	N	BL04	Zone 3	Qal	34.3 - 54.0	390	460	8.5	1,200	0.47 J	6.73
LVWPS-MW212A	12/21/2020	N	EM01	Zone 3	Qal	34.3 - 54.0	400	510	8.9	1,200	0.43 J	6.56
LVWPS-MW212A	1/27/2021	N	EM03	Zone 3	Qal	34.3 - 54.0	400	470	8.7	1,200	0.45 J	8.10 E
LVWPS-MW212A	3/12/2021	N	EM05	Zone 3	Qal	34.3 - 54.0	380	460	8.6	1,200	0.41 J	6.60
LVWPS-MW212B	10/5/2020	N	BL04	Zone 3	Qal	59.8 - 79.5	170	200	7.7	980	0.413	6.48
LVWPS-MW212B	12/22/2020	N	EM01	Zone 3	Qal	59.8 - 79.5	150	190	7.8	1,100	0.29 J	6.57
LVVVF3-IVIVVZIZD	12/22/2020	ıN	⊏IVIU I	ZUIR 3	પુરા	J9.0 - 19.5	100	190	1.0	1,100	U.29 J	0.57



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-MW212B	1/27/2021	N	EM03	Zone 3	Qal	59.8 - 79.5	210	200	8.1	1,100	<1.0	9.04 E
LVWPS-MW212B	3/12/2021	N	EM05	Zone 3	Qal	59.8 - 79.5	180	180	8.2	1,100	<2.6	6.95
LVWPS-MW212C	10/5/2020	N	BL04	Zone 3	UMCf-cg	100.3 - 120.0	7,800	11,000	8.4			4.32
LVWPS-MW212C	4/14/2021	N	EM06	Zone 3	UMCf-cg	100.3 - 120.0	6,700	12,000	8.4	2,100	0.37 J	3.77
LVWPS-MW212D	10/8/2020	N	BL04	Zone 3	UMCf-cg	125.5 - 145.0	6,800	11,000	10			5.60
LVWPS-MW212D	4/14/2021	N	EM06	Zone 3	UMCf-cg	125.5 - 145.0	6,000	11,000	9.9	2,500	0.41 J	4.36
LVWPS-MW213	10/1/2020	N	BL04	General Vicinity	Qal	40.1 - 59.8	170	260	3.2			4.96
LVWPS-MW213	10/1/2020	FD	BL04	General Vicinity	Qal	40.1 - 59.8	140	270	3.2			
LVWPS-MW214	10/7/2020	N	BL04	General Vicinity	Qal	34.4 - 44.0	2,500	3,700	14			5.16
LVWPS-MW215A	10/8/2020	N	BL04	General Vicinity	Qal	13.5 - 33.2	2,600 J-	9,700	17			1.26
LVWPS-MW215B	10/9/2020	N	BL04	General Vicinity	Horse Springs	40.7 - 45.3	2,600	6,700	11			1.46
LVWPS-MW216	10/7/2020	N	BL04	General Vicinity	Qal	10.4 - 20.0	1,100	930	4.0			0.66
LVWPS-MW216	10/7/2020	FD	BL04	General Vicinity	Qal	10.4 - 20.0	1,100	940	4.1			
LVWPS-MW217A	9/30/2020	N	BL04	Zone 1	Qal	51.3 - 71.0	2,200	11,000	15	1,500	1.4	2.60
LVWPS-MW217A	1/12/2021	N	EM02	Zone 1	Qal	51.3 - 71.0	2,600	14,000	17	1,800	1.5	1.75
LVWPS-MW217A	2/9/2021	N	EM04	Zone 1	Qal	51.3 - 71.0	2,700	14,000	17	1,300	1.5 J-	2.21
LVWPS-MW217A	3/12/2021	N	EM05	Zone 1	Qal	51.3 - 71.0	2,800	15,000	17	1,600	1.6 J+	1.31
LVWPS-MW217A	4/8/2021	N	EM06	Zone 1	Qal	51.3 - 71.0	2,500	13,000	17	1,600	1.4	1.55
LVWPS-MW217B	9/30/2020	N	BL04	Zone 1	UMCf	100.3 - 120.0	7,300	14,000	15	1,600	1.0	2.53
LVWPS-MW217B	1/13/2021	N	EM02	Zone 1	UMCf	100.3 - 120.0	9,500	14,000	15	1,700	1.3 J	1.03
LVWPS-MW217B	2/10/2021	N	EM04	Zone 1	UMCf	100.3 - 120.0	8,600	14,000	15	1,800	1.1	1.12
LVWPS-MW217B	3/10/2021	N	EM05	Zone 1	UMCf	100.3 - 120.0	9,400	13,000	14	1,800	1.2 J	1.19
LVWPS-MW217B	4/8/2021	N	EM06	Zone 1	UMCf	100.3 - 120.0	8,100	17,000	14	1,700	1.1 J	1.61
LVWPS-MW217C	10/5/2020	N	BL04	Zone 1	UMCf	155.5 - 175.0	6,200	10,000	12	1,600	1.5	2.53
LVWPS-MW217C	1/13/2021	N	EM02	Zone 1	UMCf	155.5 - 175.0	7,100	11,000	12	1,700	1.8 J	1.02
LVWPS-MW217C	1/13/2021	FD	EM02	Zone 1	UMCf	155.5 - 175.0	7,500	10,000	12	1,700	1.8 J	
LVWPS-MW217C	2/10/2021	N	EM04	Zone 1	UMCf	155.5 - 175.0	6,700	11,000	12	1,700	1.7	1.19
LVWPS-MW217C	2/10/2021	FD	EM04	Zone 1	UMCf	155.5 - 175.0	6,700	11,000	12	1,700	1.6	
LVWPS-MW217C	3/10/2021	N	EM05	Zone 1	UMCf	155.5 - 175.0	7,200	10,000	11	1,800	1.4	1.13
LVWPS-MW217C	3/10/2021	FD	EM05	Zone 1	UMCf	155.5 - 175.0	7,300	10,000	13	1,800	1.5	
LVWPS-MW217C	4/9/2021	N	EM06	Zone 1	UMCf	155.5 - 175.0	6,300	14,000	12	1,600	1.4	1.83
LVWPS-MW217C	4/9/2021	FD	EM06	Zone 1	UMCf	155.5 - 175.0	6,300	13,000	12	1,700	1.6	
LVWPS-MW218A	10/5/2020	N	BL04	General Vicinity	Qal	35.3 - 55.0	5,100	14,000	20	1,900	1.4	4.72
LVWPS-MW218A	12/21/2020	N	EM01	General Vicinity	Qal	35.3 - 55.0	3,200	14,000	21	2,000	1.5	3.89
LVWPS-MW218A	1/26/2021	N	EM03	General Vicinity	Qal	35.3 - 55.0	3,400	12,000	19	1,800	1.5 J+	4.61 E
LVWPS-MW218A	3/15/2021	N	EM05	General Vicinity	Qal	35.3 - 55.0	2,900	12,000	20	1,800	1.5	4.05
LVWPS-MW218B	10/2/2020	N	BL04	General Vicinity	UMCf/UMCf-cg	100.3 - 120.0	8,400	13,000	16			5.83
LVWPS-MW218C	10/2/2020	N	BL04	General Vicinity	UMCf/UMCf-cg	136.0 - 155.5	5,300	7,200	4.3			1.78
LVWPS-MW219A	10/9/2020	N	BL04	General Vicinity	Qal	35.1 - 49.8	3,500	8,500	19			5.78
LVWPS-MW219B	10/9/2020	N	BL04	General Vicinity	UMCf/Horse Springs	75.3 - 95.0	2.2	<100	<0.014			3.23
LVWPS-MW219C	10/9/2020	N	BL04	General Vicinity	UMCf/Horse Springs	115.5 - 135.0	53	<10	0.045 J			2.43
LVWPS-MW220A	10/5/2020	N	BL04	General Vicinity	Qal	60.3 - 80.0	3,100	9,400	21	2,100	1.6	3.77
LVWPS-MW220A	12/21/2020	N	EM01	General Vicinity	Qal	60.3 - 80.0	3,100	7,000	20	2,200	1.8	3.31
LVWPS-MW220A	1/28/2021	N	EM03	General Vicinity	Qal	60.3 - 80.0	3,500	9,000	22	2,200	1.6	3.77 E
LVWPS-MW220A	3/11/2021	N	EM05	,	Qal	60.3 - 80.0	2,800	9,800	20	2,000	1.7	2.54
LVWPS-MW220B	10/7/2020	N	BL04	General Vicinity	UMCf-cg	134.5 - 154.0	4,200	10,000	12			2.66
LVWPS-MW221A	10/6/2020	N	BL04	Zone 2	Qal	50.3 - 70.0	990 J-	710	8.4	1,500 J+	0.51 J-	7.60
LVWPS-MW221A	12/22/2020	N	EM01	Zone 2	Qal	50.3 - 70.0	610	710	8.2	1,500	1.7 J	6.85
LVWPS-MW221A	1/12/2021	N	EM02	Zone 2	Qal	50.3 - 70.0	710	740	8.3	1,600	0.46 J	6.62
LVWPS-MW221A	1/28/2021	N	EM03	Zone 2	Qal	50.3 - 70.0	720	750	8.2	1,500	0.48 J	7.82 E
LVWPS-MW221A	2/8/2021	N	EM04	Zone 2	Qal	50.3 - 70.0	700	780	8.4	1,600	0.61	6.41
LVWPS-MW221A	3/9/2021	N	EM05	Zone 2	Qal	50.3 - 70.0	720	800	8.2	1,700	0.49 J	6.92
LVWPS-MW221A	4/6/2021	N	EM06	Zone 2	Qal	50.3 - 70.0	720	1,000	8.7	1,700	0.56 J+	6.98
	., 5, 202 1		00	20/10 2	~ui	00.0 70.0	. 20	.,500	5.1	.,. 00	5.55 5	5.55



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-MW221B	10/6/2020	N	BL04	Zone 2	UMCf/UMCf-cg	83.7 - 103.2	6,600	11,000	5.8	1,500 J+	0.54	3.09
LVWPS-MW222A	10/2/2020	N	BL04	Zone 3	UMCf/UMCf-cg	80.3 - 100.0	2,900	3,800	4.1			2.97
LVWPS-MW222B	10/7/2020	N	BL04	Zone 3	UMCf-cg	150.3 - 170.0	1,500	1,200	1.6			3.10
LVWPS-MW222C	10/2/2020	N	BL04	Zone 3	UMCf-cg	214.0 - 233.5	1,500	1,300	2.4			2.25
LVWPS-MW223A	10/6/2020	N	BL04	Zone 2	Qal	45.3 - 65.0	3,300	5,900	17	2,400	1.4	4.57
LVWPS-MW223A	10/6/2020	FD	BL04	Zone 2	Qal	45.3 - 65.0	3,900	5,800	17	2,400	1.4	
LVWPS-MW223A	12/22/2020	N	EM01	Zone 2	Qal	45.3 - 65.0	4,100	370	0.54	2,700	11	0.33
LVWPS-MW223A	1/11/2021	N	EM02	Zone 2	Qal	45.3 - 65.0	730	820	1.4	2,600	<21	1.14
LVWPS-MW223A	1/26/2021	N	EM03	Zone 2	Qal	45.3 - 65.0	2,700	3,700	9.1	2,600	1.4 J+	1.03 E
LVWPS-MW223A	2/8/2021	N	EM04	Zone 2	Qal	45.3 - 65.0	2,700	3,500	9.6	2,500	1.5	0.24
LVWPS-MW223A	3/8/2021	N	EM05	Zone 2	Qal	45.3 - 65.0	2,900	4,400	12	2,400	1.5	0.78
LVWPS-MW223A	4/5/2021	N	EM06	Zone 2	Qal	45.3 - 65.0	3,100	5,000	14	2,500	1.4	0.73
LVWPS-MW223B	10/6/2020	N	BL04	Zone 2	Qal	70.3 - 90.0	3,300	6,100	20	2,100	1.8	4.26
LVWPS-MW223B	12/22/2020	N	EM01	Zone 2	Qal	70.3 - 90.0	2,100	2,800	6.7 J-	2,100	3.5	0.44
LVWPS-MW223B	1/11/2021	N	EM02	Zone 2	Qal	70.3 - 90.0	1,700	2,100	6.6	2,300	30 J	0.75
LVWPS-MW223B	1/28/2021	N	EM03	Zone 2	Qal	70.3 - 90.0	330	470 J-	1.8	1,700	10	7.53 E
LVWPS-MW223B	2/8/2021	N	EM04	Zone 2	Qal	70.3 - 90.0	270	240	0.51	1,600	2.4	0.38
LVWPS-MW223B	3/8/2021	N	EM05	Zone 2	Qal	70.3 - 90.0	390	1,300	3.0	1,200	2.2	0.62
LVWPS-MW223B	4/5/2021	N	EM06	Zone 2	Qal	70.3 - 90.0	1,500	3,700	11	1,600	2.1	1.02
LVWPS-MW223C	10/7/2020	N	BL04	Zone 2	UMCf	95.5 - 110.0	5,700	7,700	14	2,100	1.1	2.77
LVWPS-MW223C	1/11/2021	N	EM02	Zone 2	UMCf	95.5 - 110.0	46	64	0.10	270	<21	0.92
LVWPS-MW223C	2/8/2021	N	EM04	Zone 2	UMCf	95.5 - 110.0	2,600	4,300	9.2	2,000	1.1	1.08
LVWPS-MW223C	3/8/2021	N	EM05	Zone 2	UMCf	95.5 - 110.0	2,700	5,300	8.8	1,900	1.1	1.47
LVWPS-MW223C	4/6/2021	N	EM06	Zone 2	UMCf	95.5 - 110.0	2,800	4,700	8.3	2,000	1.1 J+	1.76
LVWPS-MW224A	10/7/2020	N	BL04	Zone 2	Qal	55.3 - 75.0	2,300	2,900	11	2,000	0.90	6.09
LVWPS-MW224A	12/23/2020	N	EM01	Zone 2	Qal	55.3 - 75.0	2,700	2,800	11	2,200	1.4 J	6.34
LVWPS-MW224A	1/29/2021	N	EM03	Zone 2	Qal	55.3 - 75.0	1,900	3,000	9.9	1,900	1.5 J	5.75
LVWPS-MW224A	3/11/2021	N	EM05	Zone 2	Qal	55.3 - 75.0	2,000	3,700	9.6	2,200	0.87	6.39
LVWPS-MW224B	10/7/2020	N	BL04	Zone 2	UMCf	106.8 - 126.5	200	220	0.63	-,		1.48
LVWPS-MW224C	10/8/2020	N	BL04	Zone 2	UMCf (Semi-Cons)	174.5 - 194.0	30	<100	0.068			2.10
LVWPS-MW225A	10/7/2020	N	BL04	General Vicinity	Qal	49.3 - 69.0	2,300	5,200	22			4.35
LVWPS-MW225A	10/7/2020	FD	BL04	General Vicinity	Qal	49.3 - 69.0	2,300	5,200	22			
LVWPS-MW225B	10/7/2020	N	BL04	General Vicinity	UMCf	90.5 - 110.0	4,000	5,100	3.3			1.92
LVWPS-MW226A	10/1/2020	N	BL04	General Vicinity	Qal	40.3 - 55.0	2,800	5,100	19			3.71
LVWPS-MW226A	10/1/2020	FD	BL04	General Vicinity	Qal	40.3 - 55.0	2,300	4,900	19			
LVWPS-MW226B	10/1/2020	N	BL04	General Vicinity	UMCf (Semi-Cons)	77.5 - 97.0	37	<100	<0.014			0.79
LVWPS-U1-IW01A	9/29/2020	N	BL04	Zone 1	UMCf	88.8 - 113.5	9,700	18,000	14			0.86
LVWPS-U1-IW01B	9/29/2020	N	BL04	Zone 1	UMCf	120.3 - 145.0	7,800	13,000	13			0.80
LVWPS-U1-IW02A	9/30/2020	N	BL04	Zone 1	UMCf	90.3 - 115.0	2,200	5,000	11			0.68
LVWPS-U1-IW02B	9/30/2020	N	BL04	Zone 1	UMCf	121.3 - 151.0	3,400	6,900	9.8			1.82
LVWPS-U1-IW03A	9/30/2020	N	BL04	Zone 1	UMCf	93.8 - 118.5	2,500	5,200	13			0.68
LVWPS-U1-IW03B	9/30/2020	N	BL04	Zone 1	UMCf	125.3 - 150.0	1,400	3,900	10			2.18
LVWPS-U1-IW04A	9/28/2020	N	BL04	Zone 1	UMCf	86.8 - 116.5	3,500	6,600	12			0.53
LVWPS-U1-IW04A	9/28/2020	FD	BL04	Zone 1	UMCf	86.8 - 116.5	3,500	6,600	12			
LVWPS-U1-IW04B	9/28/2020	N	BL04	Zone 1	UMCf	122.8 - 152.5	3,400	4,800	11			2.37
LVWPS-U1-IW05A	9/29/2020	N	BL04	Zone 1	UMCf	88.8 - 113.5	2,100	4,300	10			0.51
LVWPS-U1-IW05B	9/29/2020	N	BL04	Zone 1	UMCf	120.3 - 145.0	2,500	5,100	11			1.34
LVWPS-U1-IW06A	9/30/2020	N	BL04	Zone 1	UMCf	87.8 - 112.5	2,400	3,600	8.5			1.60
LVWPS-U1-IW06B	9/30/2020	N	BL04	Zone 1	UMCf	119.3 - 149.0	2,500	3,900	10			2.07
LVWPS-U1-IW07A	10/1/2020	N	BL04	Zone 1	UMCf	95.8 - 120.5	3,100	4,500	9.5			3.39
LVWPS-U1-IW07B	10/1/2020	N	BL04	Zone 1	UMCf	127.3 - 152.0	4,300	4,900	9.5			2.21
LVWPS-U1-IW08A	10/1/2020	N	BL04	Zone 1	UMCf	95.3 - 125.0	4,000	7,500	9.7			1.60
LVWPS-U1-IW08A	10/1/2020	N	BL04	Zone 1	UMCf	131.8 - 156.5	4,900	6,700	11			1.92
LVVVF3-U I-IVVUOD	10/1/2020	IN	DLU4	ZUITE I	UNICI	131.0 - 130.3	4,900	0,700	11			1.82



LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 <td< th=""><th>Well</th><th>Sample Date</th><th>QC Type</th><th>Event</th><th>Zone</th><th>Screened Lithology</th><th>Screened Interval</th><th>Perchlorate by USEPA Method 314.0</th><th>Chlorate by USEPA Method 300.1B</th><th>Nitrate (as N) by USEPA Method 300.0</th><th>Sulfate by USEPA Method 300.0</th><th>Total Organic Carbon by SM 5310B</th><th>Dissolved Oxygen Field Measurement</th></td<>	Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
INVESTIGNATION TATALOGY N ENDO Zone LIMOY 90.3-115.0 0.800 11.900 13 1.800 1.5 1.80 1.80 INVESTIGATION 2.000 1.80 2.000							ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
VVMPS-L14MW01A VMCG1 N BM0 Zone 1 UMCF 90.3-115.0 7.90 11.000 13 1.500 1.5 1	LVWPS-U1-MW01A	9/28/2020	N	BL04	Zone 1	UMCf	90.3 - 115.0	6,100	11,000	14	1,600	1.0	1.98
INVPR-91-IAMO16 0710001 N ENDS Zone 1 UMOF 90.3-1150 0.6500 19.000 13 1.500 14.1 1.51 1.63 INVPR-91-IAMO16 0.6000 17.000 13 1.600 15.1 1.63 INVPR-91-IAMO16 0.6000 17.000 13 1.600 15.1 1.63 INVPR-91-IAMO16 0.6000 0.1 1.000 13 1.600 1.2.3 1.73 INVPR-91-IAMO16 0.6000 0.1 1.000 13 1.600 1.2.3 INVPR-91-IAMO16 0.6000 0.1 1.000 1.0	LVWPS-U1-MW01A	1/14/2021	N	EM02	Zone 1	UMCf	90.3 - 115.0	6,900	11,000	12	1,600	1.2 J	2.08
EMMPS-LIAMWO16 A600222 N EMMS Zone 1 UNCT 03.3-115.0 15.00 12.00 13 1.600 15.2 17	LVWPS-U1-MW01A	2/10/2021	N	EM04	Zone 1	UMCf	90.3 - 115.0	7,800	11,000	13	1,600	1.5	1.93
WYPS-11-MWO18 0220200 N	LVWPS-U1-MW01A	3/11/2021	N	EM05	Zone 1	UMCf	90.3 - 115.0	6,500	10,000	13	1,500	1.4 J	5.27
INVPRED-LAMOYIE VIADOZI N. EMBA 2000 2.00 1.00 1.0 1.5 3.00 2.1 1.50 1.00 1.0 0.63 1.00 2.00 1.00 1.0 0.63 1.00 1.00 1.0 0.63 1.00 1.00 1.0 0.63 1.00 1.00 1.0 0.63 1.00 1.00 1.00 1.0 0.63 1.00	LVWPS-U1-MW01A	4/8/2021	N	EM06	Zone 1	UMCf	90.3 - 115.0	6,900	12,000	13	1,600	1.5 J	1.83
LWWPS-LIAMWOS 27100221 N EMB Zone 1 LMC 133.5 :153.0 8.200 13.000 12 1.900 1.0 0.85 LWWPS-LIAMWOS 3710021 N EMB Zone 1 LMC 133.5 :153.0 8.200 12.000 1.000 1.2	LVWPS-U1-MW01B	9/28/2020	N	BL04	Zone 1	UMCf	133.5 - 153.0	7,100	12,000	13	1,800	1.2 J-	1.72
NVMPS-11-MAV018 3717-227 N EM05 Zome 1 UMCI 133.6 153.0 8.800 12.000 10 1.800 1.2 0.68 UVMPS-11-MAV02A 89/2000 N EM04 Zome 1 UMCI 133.6 153.0 0.200 9.80 1.800 1.2 1.800 1.2 4.80 UVMPS-11-MAV02A 89/2000 N EM04 Zome 1 UMCI 943.119.0 6.400 8.400 12 1.700 1.3 1.0 0.72 UVMPS-11-MAV02A 2717-2021 N EM04 Zome 1 UMCI 943.119.0 6.600 8.800 12 1.700 1.3 1.0 0.72 UVMPS-11-MAV02A 2717-2021 N EM05 Zome 1 UMCI 943.119.0 6.600 8.800 12 1.700 1.1 0.72 UVMPS-11-MAV02A 2717-2021 N EM05 Zome 1 UMCI 943.119.0 6.600 8.800 12 1.700 1.1 0.72 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 943.119.0 6.600 8.800 12 1.700 1.1 0.72 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 943.119.0 6.600 8.800 12 1.700 1.1 0.72 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 943.119.0 6.500 8.800 12 1.700 1.1 0.25 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 2.00 3.800 12 1.700 1.6 0.80 UVMPS-11-MAV02A 2717-2021 N EM05 Zome 1 UMCI 186.116.5 2.00 3.800 13 1.700 1.6 0.80 UVMPS-11-MAV02A 2717-2021 N EM05 Zome 1 UMCI 186.116.5 2.100 3.800 8.5 1.700 1.6 0.77 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 2.200 3.800 8.0 1.700 1.5 0.77 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 2.200 3.800 8.0 1.700 1.5 0.77 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 2.200 3.800 8.0 1.700 1.5 0.77 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 2.200 3.800 13 1.400 1.20 1.5 0.77 1.700 1.5 0.77 UVMPS-11-MAV02A 4872-21 N EM05 Zome 1 UMCI 186.116.5 0.200 4.500 1.3 1.400 1.2 0.60 0.700 1.3 1.200 0.700 1.3 1.200 0.700 1.3 1.200 0.700 1.3 1.200 0.700 1.3 1.200 0.700 1.3	LVWPS-U1-MW01B	1/14/2021	N	EM02	Zone 1	UMCf	133.5 - 153.0	510	1,100	1.5	360	2.1	1.58
LVMPS-U1-MAV018	LVWPS-U1-MW01B	2/10/2021	N	EM04	Zone 1	UMCf	133.5 - 153.0	8,200	13,000	12	1,900	1.0	0.63
LVMPS-11-MW022A 9290200 N 80.04 Zone 1 UMCf 94.3-119.0 4.200 7.000 12 1.600 1.2 4.00	LVWPS-U1-MW01B	3/11/2021	N	EM05	Zone 1	UMCf	133.5 - 153.0	8,900	12,000	10	1,800	1.2	0.69
IVAMPS-II-IMANO2A	LVWPS-U1-MW01B	4/7/2021	N	EM06	Zone 1	UMCf	133.5 - 153.0	6,200	9,800	8.9	1,900	1.2 J+	1.25
LVMPS-U1-MW02A 2711/2021 N EM05 Zone 1 UMC1 943-1190 5.690 8.590 12 1.700 1.1 0.72	LVWPS-U1-MW02A	9/29/2020	N	BL04	Zone 1	UMCf	94.3 - 119.0	4,200	7,600	12	1,600	1.2	4.60
LVWPS-U1-MW022	LVWPS-U1-MW02A	1/14/2021	N	EM02	Zone 1	UMCf	94.3 - 119.0	5,400	8,400	12	1,700	1.3 J	0.9
IVVPPS-U1-MMY02A M8202P1 N BL00 Zone 1 UNICT 94.3 -119.0 5.100 6.600 12 1.700 1.1 1.29	LVWPS-U1-MW02A	2/11/2021	N	EM04	Zone 1	UMCf	94.3 - 119.0	5,600	8,500	12	1,700	1.1	0.72
IVWPS-U1-MAN028	LVWPS-U1-MW02A	3/11/2021	N	EM05	Zone 1	UMCf	94.3 - 119.0	5,400	8,300	12	1,700	1.4 J	1.54
IVMPS-U1-MW028	LVWPS-U1-MW02A	4/8/2021	N	EM06	Zone 1	UMCf	94.3 - 119.0	5,100	8,600	12	1,700	1.1	1.29
LVMPS-U1-MW028	LVWPS-U1-MW02B	10/7/2020	N	BL04	Zone 1	UMCf	136.9 - 161.5	2,400	4,100	11	8,300	1.1	2.35
LVMPS-U1-MW028 371/2021 N EM06 Zone 1 UMCf 138.9-161.5 2.200 4.500 8.0 1.700 1.3 0.75	LVWPS-U1-MW02B	1/14/2021	N	EM02	Zone 1	UMCf	136.9 - 161.5	2,300	3,500	6.5	1,700	1.6	0.88
LWWPS-U1-MW028	LVWPS-U1-MW02B	2/11/2021	N	EM04	Zone 1	UMCf	136.9 - 161.5	2,100	2,900	5.9 J-	1,700	1.5	0.77
LIVEPS-LI1-MW03B 929/2020 N BL04 Zone1 UMCI 1345-154.0 4.300 7.800 14 1.400 1.5 6.71	LVWPS-U1-MW02B	3/11/2021	N	EM05	Zone 1	UMCf	136.9 - 161.5	2,900	4,500	8.0	1,700	1.3	0.75
LIWPS-LI-MW03B	LVWPS-U1-MW02B	4/6/2021	N	EM06	Zone 1	UMCf	136.9 - 161.5	2,800	4,700	9.4	1,600	1.2 J+	1.04
LWWPS-UI-MW03B 21/12021 N EM04 Zone 1 UMCf 1345-154.0 5.500 8.500 14.J. 1.400 1.2 1.13 LWWPS-UI-MW03B 21/12021 N EM05 Zone 1 UMCf 1345-154.0 6.500 9.700 13 1.500 1.3 1.20 1.2 2.54 LWWPS-UI-MW03B 4/9/2021 N EM05 Zone 1 UMCf 1345-154.0 6.500 9.700 13 1.600 1.0 0.84 LWWPS-UI-MW04A 9/9/2021 N EM06 Zone 1 UMCf 99.3-124.0 6.400 1.000 13 1.600 1.0 0.84 LWWPS-UI-MW04A 1/13/2021 N EM02 Zone 1 UMCf 99.3-124.0 6.400 1.000 13 1.600 1.0 0.84 LWWPS-UI-MW04A 1/13/2021 N EM04 Zone 1 UMCf 99.3-124.0 6.600 1.1000 13 1.700 1.0 1.96 LWWPS-UI-MW04A 3/9/2021 N EM04 Zone 1 UMCf 99.3-124.0 6.500 1.1000 13 1.700 1.0 1.96 LWWPS-UI-MW04A 3/9/2021 N EM05 Zone 1 UMCf 99.3-124.0 6.500 1.1000 13 1.700 1.3 0.90 LWWPS-UI-MW04A 3/9/2021 N EM05 Zone 1 UMCf 99.3-124.0 6.200 1.2000 1.2000 1.3 1.700 1.3 0.90 LWWPS-UI-MW04B 10/12020 N EU04 Zone 1 UMCf 139.9-164.5 6.200 1.2000 1.3 1.700 1.3 0.90 LWWPS-UI-MW04B 10/12020 N EU04 Zone 1 UMCf 139.9-164.5 6.500 1.0000 1.3 1.700 1.8 0.46 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 139.9-164.5 6.500 1.0000 1.3 1.700 1.8 0.46 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 139.9-164.5 6.500 9.700 1.4 1.700 1.7 0.68 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 139.9-164.5 6.000 9.700 1.4 1.700 1.2 1.33 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 139.9-164.5 6.000 9.700 1.4 1.700 1.2 1.33 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 139.9-164.5 6.000 9.700 1.4 1.700 1.2 1.33 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 9.88-120.5 1.000 1.000 1.4 1.700 1.2 1.33 LWWPS-UI-MW04B 29/2021 N EM05 Zone 1 UMCf 9.88-120.5 1.000 1.000 1.4 2.100 1.1 0.89 1.2 1.33 LWWPS-U	LVWPS-U1-MW03B	9/29/2020	N	BL04	Zone 1	UMCf	134.5 - 154.0	4,300	7,800	14	1,400	1.5	6.71
LWWPS-U1-MW038 3/11/20/21 N EM05 Zone 1 UMCf 134.5-154.0 6,300 9,700 13 1,500 1.3 1.50 1.3 1.21 LWWPS-U1-MW038 4/8/20/21 N EM06 Zone 1 UMCf 93.3-124.0 6,500 9,700 13 1,600 1.0 0.84 LWWPS-U1-MW04A 9/30/20/20 N BL04 Zone 1 UMCf 99.3-124.0 6,600 10,000 13 1,600 1.0 0.84 LWWPS-U1-MW04A 1/3/20/21 N EM06 Zone 1 UMCf 99.3-124.0 6,600 10,000 13 1,600 1.0 1.0 1.96 LWWPS-U1-MW04A 2/10/20/21 N EM06 Zone 1 UMCf 99.3-124.0 6,600 10,000 13 1,600 1.0 1.0 1.96 LWWPS-U1-MW04A 2/10/20/21 N EM06 Zone 1 UMCf 99.3-124.0 6,600 10,000 13 1,600 1.3 1,700 1.0 1.96 LWWPS-U1-MW04A 3/9/20/21 N EM06 Zone 1 UMCf 99.3-124.0 6,600 8,900 11 1,700 1.3 1,300 8,94 LWWPS-U1-MW04A 3/9/20/21 N EM06 Zone 1 UMCf 99.3-124.0 6,000 8,900 11 1,700 1.3 1,300 8,94 LWWPS-U1-MW04B 10/12/20 N BL04 Zone 1 UMCf 99.3-124.0 6,000 9,200 13 1,700 2.1 1,75 LWWPS-U1-MW04B 10/12/20 N BL04 Zone 1 UMCf 139.9-164.5 5,500 1,000 13 1,700 2.1 1,75 LWWPS-U1-MW04B 2/9/20/21 N EM06 Zone 1 UMCf 139.9-164.5 5,500 1,000 13 1,700 1.8 0.46 LWWPS-U1-MW04B 3/9/20/21 N EM06 Zone 1 UMCf 139.9-164.5 6,000 9,000 14 1,700 1.7 0.68 LWWPS-U1-MW04B 3/9/20/21 N EM06 Zone 1 UMCf 139.9-164.5 6,000 9,500 14 1,800 1.8 1.3 0.83 LWWPS-U1-MW05A 3/9/20/21 N EM06 Zone 1 UMCf 139.9-164.5 6,000 9,500 14 1,800 1.8 1.3 0.83 LWWPS-U1-MW05A 3/9/20/21 N EM06 Zone 1 UMCf 38.8-120.5 8,900 15,000 14 1,900 1.0 2.2 1.3 1.3 0.80 LWWPS-U1-MW05A 3/9/20/21 N EM06 Zone 1 UMCf 98.8-120.5 8,900 15,000 14 1,900 1.0 2.2 1.11 1.0 1	LVWPS-U1-MW03B	1/14/2021	N	EM02	Zone 1	UMCf	134.5 - 154.0	5,500	8,900	13	1,400	1.2	0.69
LWWPS-U1-MW04A 930/2020 N EM06 Zone 1 UMCf 134.5-154.0 5,100 8,600 13 1,400 1.2 2.54 LWWPS-U1-MW04A 930/2020 N EM02 Zone 1 UMCf 99.3-124.0 4,500 9,100 13 1,600 1.0 0.84 LWWPS-U1-MW04A 21/30/2021 N EM02 Zone 1 UMCf 99.3-124.0 6,500 10,000 13 1,600 1.3 1,150 LWWPS-U1-MW04A 21/30/2021 N EM04 Zone 1 UMCf 99.3-124.0 6,500 11,000 13 1,700 1.0 1.96 LWWPS-U1-MW04A 37/90/2021 N EM05 Zone 1 UMCf 99.3-124.0 6,500 11,000 13 1,700 1.0 1.96 LWWPS-U1-MW04A 37/90/2021 N EM05 Zone 1 UMCf 99.3-124.0 6,500 12,000 12 1,700 1.3 J 0.84 LWWPS-U1-MW04B 17/30/2021 N EM06 Zone 1 UMCf 39.3-124.0 6,200 12,000 12 1,700 1.3 J 0.90 LWWPS-U1-MW04B 17/30/2021 N EM06 Zone 1 UMCf 39.3-124.0 6,200 12,000 12 1,700 1.3 J 0.90 LWWPS-U1-MW04B 17/30/2021 N EM06 Zone 1 UMCf 39.9-164.5 5,300 10,000 13 1,700 2.1 1.75 LWWPS-U1-MW04B 17/30/2021 N EM02 Zone 1 UMCf 139.9-164.5 5,300 10,000 13 1,700 1.8 0.46 LWWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9-164.5 5,300 10,000 13 1,700 1.8 0.48 LWWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9-164.5 5,600 9,600 14 1,800 1.8 J 0.83 LWWPS-U1-MW04B 3/9/2020 N EM05 Zone 1 UMCf 39.8-164.5 5,600 9,400 14 1,800 1.8 J 0.83 LWWPS-U1-MW04B 3/9/2020 N EM05 Zone 1 UMCf 39.8-120.5 8,000 3,600 14 1,900 1.0 2.23 LWWPS-U1-MW05A 3/9/2020 N EM05 Zone 1 UMCf 38.8-120.5 8,000 15,000 14 2,100 4.1 1,000 1.2 1.33 LWWPS-U1-MW05A 3/9/2020 N EM05 Zone 1 UMCf 38.8-120.5 8,000 15,000 14 2,100 4.1 1.0 1.1 0.89 LWWPS-U1-MW05A 3/9/2020 N EM05 Zone 1 UMCf 38.8-120.5 8,000 15,000 14 2,100 1.1 0.89 LWWPS-U1-MW05A 3/9/2020 N EM05 Zone 1 UMCf 38.8-120.5 8,000 15,000 14 2,100 1	LVWPS-U1-MW03B	2/11/2021	N	EM04	Zone 1	UMCf	134.5 - 154.0	5,500	8,500	14 J-	1,400	1.2	1.13
LWWPS-U1-MW04A 930/2020 N BL04 Zone 1 UMCf 99.3 - 124.0 6,400 10,000 13 1,600 1.0 0.84 LWWPS-U1-MW04A 1/13/2021 N EM02 Zone 1 UMCf 99.3 - 124.0 6,400 10,000 13 1,600 1.3 1,600 1.3 1,15 LWWPS-U1-MW04A 2/10/2021 N EM04 Zone 1 UMCf 99.3 - 124.0 6,600 11,000 13 1,700 1.0 1.96 LWWPS-U1-MW04A 3/9/2021 N EM05 Zone 1 UMCf 99.3 - 124.0 6,600 11,000 13 1,700 1.3 1	LVWPS-U1-MW03B	3/11/2021	N	EM05	Zone 1	UMCf	134.5 - 154.0	6,300	9,700	13	1,500	1.3	1.21
LWWPS-U1-MW04A	LVWPS-U1-MW03B	4/9/2021	N	EM06	Zone 1	UMCf	134.5 - 154.0	5,100	8,600	13	1,400	1.2	2.54
LWWPS-U1-MW04A 3/9/2021 N EM05 Zone 1 UMCf 99.3-124.0 6.500 11.000 13 1.700 1.0 1.96 LWWPS-U1-MW04A 3/9/2021 N EM05 Zone 1 UMCf 99.3-124.0 6.000 8.900 11 1.700 1.3 1.3 0.84 LWWPS-U1-MW04A 4/7/2021 N EM06 Zone 1 UMCf 99.3-124.0 6.200 12.000 12 1.700 1.3 0.90 LWWPS-U1-MW04A 4/7/2021 N EM06 Zone 1 UMCf 139.9-164.5 4.200 9.200 13 1.700 2.1 1.75 LWWPS-U1-MW04B 1/9/2021 N EM02 Zone 1 UMCf 139.9-164.5 4.200 9.200 13 1.700 2.1 1.75 LWWPS-U1-MW04B 2/9/2021 N EM04 Zone 1 UMCf 139.9-164.5 4.200 9.700 14 1.700 1.7 0.68 LWWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9-164.5 4.900 9.700 14 1.700 1.7 0.68 LWWPS-U1-MW04B 4/9/2021 N EM05 Zone 1 UMCf 139.9-164.5 5.600 9.700 14 1.700 1.2 1.33 LWWPS-U1-MW04B 4/9/2021 N EM06 Zone 1 UMCf 139.9-164.5 5.600 9.400 14 1.700 1.2 1.33 LWWPS-U1-MW05A 9/9/20200 N EM06 Zone 1 UMCf 95.8-120.5 10.000 15.000 14 1.900 1.0 2.23 LWWPS-U1-MW05A 2/9/2021 N EM06 Zone 1 UMCf 95.8-120.5 10.000 15.000 14 2.100 4.2 1.111 LWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8-120.5 10.000 15.000 14 2.100 4.2 1.111 LWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8-120.5 10.000 15.000 14 2.100 1.2 2.33 LWWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8-120.5 8.500 15.000 14 2.100 1.2 2.33 LWWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8-120.5 8.500 15.000 14 2.000 1.2 1.71 LWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8-120.5 8.500 15.000 14 2.000 1.2 1.71 1.30 1.20 1.71 1.30 1.20 1.	LVWPS-U1-MW04A	9/30/2020	N	BL04	Zone 1	UMCf	99.3 - 124.0	4,500	9,100	13	1,600	1.0	0.84
LVMPS-U1-MW04A 39/9021 N EM05 Zone 1 UMCf 99.3-124.0 6,000 8,900 11 1,700 1.3 J 0.84 LVMPS-U1-MW04B 47/7021 N EM06 Zone 1 UMCf 99.3-124.0 6,200 12,000 12 1,700 1.3 J 0.90 1.0 WPS-U1-MW04B 101/2020 N EM02 Zone 1 UMCf 139.9-164.5 4,200 9,200 13 1,700 2.1 1.75	LVWPS-U1-MW04A	1/13/2021	N	EM02	Zone 1	UMCf	99.3 - 124.0	6,400	10,000	13	1,600	1.3 J	1.15
LVWPS-U1-MWO4A 4/7/2021 N EM06 Zone 1 UMCf 99.3 - 124.0 6,200 12,000 12 1,700 1.3 J 0.90 LVWPS-U1-MWO4B 10/1/2020 N BL04 Zone 1 UMCf 139.9 - 164.5 4,200 9,200 13 1,700 2.1 1.75 LVWPS-U1-MWO4B 1/13/2021 N EM02 Zone 1 UMCf 139.9 - 164.5 5,300 10,000 13 1,700 1.8 0.46 LVWPS-U1-MWO4B 2/9/2021 N EM04 Zone 1 UMCf 139.9 - 164.5 5,300 10,000 13 1,700 1.7 J 0.68 LVWPS-U1-MWO4B 3/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,700 14 1,700 1.7 J 0.68 LVWPS-U1-MWO4B 4/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,500 14 1,700 1.7 J 0.68 LVWPS-U1-MWO4B 4/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,400 14 1,700 1.2 1.3 LVWPS-U1-MWO5A 9/9/2020 N BL04 Zone 1 UMCf 139.9 - 164.5 10,000 15,000 14 1,000 1.0 1.2 1.3 LVWPS-U1-MWO5A 1/18/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 1,900 1.0 2.23 LVWPS-U1-MWO5A 1/18/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <-2.1 1.11 LVWPS-U1-MWO5A 2/10/20/21 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <-2.1 1.11 LVWPS-U1-MWO5A 3/10/20/21 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.8 LVWPS-U1-MWO5A 3/10/20/21 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 13 1,800 1.1 0.0 LVWPS-U1-MWO5A 1/18/20/21 N EM05 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,100 1.1 0.8 LVWPS-U1-MWO5A 1/18/20/21 N EM05 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 12 J 2,03 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.6 J 3.61 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.0 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.0 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.0 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 14 2,000 1.1 0.0 LVWPS-U1-MWO5B 1/13/20/21 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,00	LVWPS-U1-MW04A	2/10/2021	N	EM04	Zone 1	UMCf	99.3 - 124.0	6,500	11,000	13	1,700	1.0	1.96
LVWPS-U1-MW04B 10/1/2020 N BL04 Zone 1 UMCf 139.9 - 164.5 4,200 9.200 13 1,700 2.1 1.75 LVWPS-U1-MW04B 1/13/2021 N EM02 Zone 1 UMCf 139.9 - 164.5 5,300 10,000 13 1,700 1.8 0.46 LVWPS-U1-MW04B 2/9/2021 N EM02 Zone 1 UMCf 139.9 - 164.5 6,300 10,000 14 1,700 1.7 J. 0.68 LVWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9.500 14 1,800 1.8 J 0.83 LVWPS-U1-MW04B 4/9/2021 N EM06 Zone 1 UMCf 139.9 - 164.5 6,000 9.500 14 1,800 1.8 J 0.83 LVWPS-U1-MW04B 4/9/2021 N EM06 Zone 1 UMCf 139.9 - 164.5 5,600 9.400 14 1,700 1.2 1.33 LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 1,900 10 2.23 LVWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <-2.1 1.11 LVWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <-2.1 1.11 LVWPS-U1-MW05A 2/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 4/8/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 1/13/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 1/13/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 1/13/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.1 1.0 0.5 LVWPS-U1-MW05B 1/13/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.1 1.9 0.92 LVWPS-U1-MW05B 1/13/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.1 1.9 0.92 LVWPS-U1-MW05B 1/13/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.1 1.9 0.92 LVWPS-U1-MW06B 1/14/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 1,000 1.0 1,000 1.1 1.9 0.0 1.5 0.98 LVWPS-U1-MW06A 3/10/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06B 1/14/2021 N EM06 Zone 1	LVWPS-U1-MW04A	3/9/2021	N	EM05	Zone 1	UMCf	99.3 - 124.0	6,000	8,900	11	1,700	1.3 J	0.84
LVWPS-U1-MW04B 1/13/2021 N EM02 Zone 1 UMCf 139.9 - 164.5 5,300 10,000 13 1,700 1.8 0.46 LVWPS-U1-MW04B 2/9/2021 N EM04 Zone 1 UMCf 139.9 - 164.5 4,900 9,700 14 1,700 1.7 J- 0.68 LVWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,500 14 1,800 1.8 J 0.83 LVWPS-U1-MW04B 4/9/2021 N EM06 Zone 1 UMCf 139.9 - 164.5 5,600 9,400 14 1,800 1.8 J 0.83 LVWPS-U1-MW05A 4/9/2021 N EM06 Zone 1 UMCf 139.9 - 164.5 5,600 9,400 14 1,700 1.2 133 LVWPS-U1-MW05A 1/18/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 1,900 1.0 2.2 1 1.31 LVWPS-U1-MW05A 1/18/2021 N EM04 Zone 1 UMCf 95.8 - 120.5 8,900 15,000 14 2,100 <- 1.1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1 1 1.1	LVWPS-U1-MW04A	4/7/2021	N	EM06	Zone 1	UMCf	99.3 - 124.0	6,200	12,000	12	1,700	1.3 J	0.90
LVWPS-U1-MW04B 2/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 4,900 9,700 114 1,700 1.7 J- 0.68 LVWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,500 14 1,800 1.8 J 0.83 LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 139.9 - 164.5 5,600 9,400 14 1,700 1.2 1.33 LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 1,900 1.0 2.23 LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <- 2.1 1.11 LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <- 2.1 1.11 LVWPS-U1-MW05A 3/10/2021 N EM04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 <- 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 4/8/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 4/8/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61 LVWPS-U1-MW05A 4/8/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 1/13/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.1 0.5 LVWPS-U1-MW05B 1/13/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 3/9/2020 N BL04 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,000 1.1 0.0 0.92 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,000 1.1 0.0 0.92 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 9,000 15 0.0 0.1 1.0 0.92 LVWPS-U1-MW06A 1/14/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 1.0 0.90 LVWPS-U1-MW06A 1/14/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 1.0 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 10 11 1.1 0.00 1.5 0.70 LVWPS-U1-MW06B 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 11 1.1 0.0 0.1 1.0 0.92 LVWPS-U1-MW06B 1/12/2021 N E	LVWPS-U1-MW04B	10/1/2020	N	BL04	Zone 1	UMCf	139.9 - 164.5	4,200	9,200	13	1,700	2.1	1.75
LVWPS-U1-MW04B 3/9/2021 N EM05 Zone 1 UMCf 139.9 - 164.5 6,000 9,500 14 1,800 1.8 J 0.83 LVWPS-U1-MW04B 4/9/2021 N EM06 Zone 1 UMCf 139.9 - 164.5 5,600 9,400 14 1,700 1.2 1.33 LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 2.23 LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 8,900 15,000 14 2,100 < 2.1 1.11 LVWPS-U1-MW05A 2/10/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,300 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,300 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,300 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 9,800 14,000 13 1,800 1.2 1.71 LVWPS-U1-MW05B 3/19/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 3/19/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 3/19/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,800 15,000 14 2,000 1.3 LVWPS-U1-MW05B 3/19/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,000 1.1 0.0 0.92 LVWPS-U1-MW06B 4/7/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 10 990 1.4 J 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J 0.52 LVWPS-U1-MW06A 4/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J 0.52 LVWPS-U1-MW06A 4/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J 0.52 LVWPS-U1-MW06B 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J 1.000 1.5 0.70 LVWPS-U1-MW06B 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J 1.000 1.	LVWPS-U1-MW04B	1/13/2021	N	EM02	Zone 1	UMCf	139.9 - 164.5	5,300	10,000	13	1,700	1.8	0.46
LVWPS-U1-MW05A 9/99/2020 N BL04 Zone 1 UMCf 139.9 - 164.5 5.600 9.400 14 1,700 1.2 1.33 LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 10,000 15.000 14 1,900 1.0 2.23 LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 8,900 15.000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 2/10/2021 N EM04 Zone 1 UMCf 95.8 - 120.5 10,000 15.000 14 2,100 1.1 0.89 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61 LVWPS-U1-MW05A 4/8/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 1/13/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71 LVWPS-U1-MW05B 1/13/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 2/10/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 12,000 19,000 15 2,200 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 19,600 15,000 14 2,000 1.0 0.92 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 11,000 15,000 14 2,000 1.0 0.92 LVWPS-U1-MW05B 3/9/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 15,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW05B 3/9/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 15,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06B 4/7/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 3/10/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 990 1.4 J- 0.52 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1.1 1.000 1.5 0.70 LVWPS-U1-MW06B 1/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1.1 1.000 1.5 0.70 LVWPS-U1-MW06B 1/12/2021 N EM06 Zone 1 UMCf 109.3 - 134.0 21 8.7	LVWPS-U1-MW04B	2/9/2021	N	EM04	Zone 1	UMCf	139.9 - 164.5	4,900	9,700	14	1,700	1.7 J-	0.68
LVWPS-U1-MW05A 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 1,900 1.0 2.23 LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 8,900 15,000 14 2,100 -2.1 1.11 LVWPS-U1-MW05A 2/10/2021 N EM04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 -2.1 1.11 LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61 LVWPS-U1-MW05A 3/10/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 12 J 3.61 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71 LVWPS-U1-MW05B 1/13/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71 LVWPS-U1-MW05B 1/13/2021 N EM04 Zone 1 UMCf 136.9 - 161.5 12,000 15,000 14 2,000 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM04 Zone 1 UMCf 136.9 - 161.5 12,000 15,000 14 2,000 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 12,000 15,000 14 2,000 1.2 0.90 LVWPS-U1-MW05B 4/7/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 12,000 15,000 14 2,000 1.2 0.90 LVWPS-U1-MW05B 4/7/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 1/14/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 1/14/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1.9 970 1.9 J 0.83 LVWPS-U1-MW06A 1/12/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1.9 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1.9 970 1.9 J 0.83 LVWPS-U1-MW06B 1/12/2021 N EM05 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1.100 1.7 1.00 1.7 1.03	LVWPS-U1-MW04B	3/9/2021	N	EM05	Zone 1	UMCf	139.9 - 164.5	6,000	9,500	14	1,800	1.8 J	0.83
LVWPS-U1-MW05A 1/18/2021 N EM02 Zone 1 UMCf 95.8 - 120.5 8.900 15,000 14 2,100 < 2.1 1.11	LVWPS-U1-MW04B	4/9/2021	N	EM06	Zone 1	UMCf	139.9 - 164.5	5,600	9,400	14	1,700	1.2	1.33
LVWPS-U1-MW05A 2/10/2021 N EM04 Zone 1 UMCf 95.8 - 120.5 10,000 15,000 14 2,100 1.1 0.89	LVWPS-U1-MW05A	9/29/2020	N	BL04	Zone 1	UMCf	95.8 - 120.5	10,000	15,000	14	1,900	1.0	2.23
LVWPS-U1-MW05A 3/10/2021 N EM05 Zone 1 UMCf 95.8 - 120.5 8,300 14,000 13 1,800 1.6 J 3.61	LVWPS-U1-MW05A	1/18/2021	N	EM02	Zone 1	UMCf	95.8 - 120.5	8,900	15,000	14	2,100	<2.1	1.11
LVWPS-U1-MW05A 4/8/2021 N EM06 Zone 1 UMCf 95.8 - 120.5 8,500 15,000 14 2,000 1.2 J 2.03 LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71 LVWPS-U1-MW05B 1/13/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 2/10/2021 N EM04 Zone 1 UMCf 136.9 - 161.5 12,000 19,000 15 2,200 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,100 1.0 0.92 LVWPS-U1-MW05B 4/7/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1,100 1.5 0.70 LVWPS-U1-MW06B 9/29/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 1,000 1.7 1.03 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.	LVWPS-U1-MW05A	2/10/2021	N	EM04	Zone 1	UMCf	95.8 - 120.5	10,000	15,000	14	2,100	1.1	0.89
LVWPS-U1-MW05B 9/29/2020 N BL04 Zone 1 UMCf 136.9 - 161.5 5,100 8,800 13 1,800 1.2 1.71	LVWPS-U1-MW05A	3/10/2021	N	EM05	Zone 1	UMCf	95.8 - 120.5	8,300	14,000	13	1,800	1.6 J	3.61
LVWPS-U1-MW05B 1/13/2021 N EM02 Zone 1 UMCf 136.9 - 161.5 9,800 14,000 13 1,800 1.1 0.5 LVWPS-U1-MW05B 2/10/2021 N EM04 Zone 1 UMCf 136.9 - 161.5 12,000 19,000 15 2,200 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,100 1.0 0.92 LVWPS-U1-MW05B 4/7/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,100 1.0 0.92 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 1,100 2.0 0.84 LVWPS-U1-MW06A 3/10/2021 <	LVWPS-U1-MW05A	4/8/2021	N	EM06	Zone 1	UMCf	95.8 - 120.5	8,500	15,000	14	2,000	1.2 J	2.03
LVWPS-U1-MW05B 2/10/2021 N EM04 Zone 1 UMCf 136.9 - 161.5 12,000 19,000 15 2,200 1.2 0.90 LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,100 1.0 0.92 LVWPS-U1-MW05B 4/7/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 2/9/2021	LVWPS-U1-MW05B	9/29/2020	N	BL04	Zone 1	UMCf	136.9 - 161.5	5,100	8,800	13	1,800	1.2	1.71
LVWPS-U1-MW05B 3/9/2021 N EM05 Zone 1 UMCf 136.9 - 161.5 9,600 15,000 14 2,100 1.0 0.92 LVWPS-U1-MW05B 4/7/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 2/9/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 <t< td=""><td>LVWPS-U1-MW05B</td><td>1/13/2021</td><td>N</td><td>EM02</td><td>Zone 1</td><td>UMCf</td><td>136.9 - 161.5</td><td>9,800</td><td>14,000</td><td>13</td><td>1,800</td><td>1.1</td><td>0.5</td></t<>	LVWPS-U1-MW05B	1/13/2021	N	EM02	Zone 1	UMCf	136.9 - 161.5	9,800	14,000	13	1,800	1.1	0.5
LVWPS-U1-MW05B 4/7/2021 N EM06 Zone 1 UMCf 136.9 - 161.5 11,000 18,000 14 2,000 1.1 J+ 1.31 LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020	LVWPS-U1-MW05B	2/10/2021	N	EM04	Zone 1	UMCf	136.9 - 161.5	12,000	19,000	15	2,200	1.2	0.90
LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 <td< td=""><td>LVWPS-U1-MW05B</td><td>3/9/2021</td><td>N</td><td>EM05</td><td>Zone 1</td><td>UMCf</td><td>136.9 - 161.5</td><td>9,600</td><td>15,000</td><td>14</td><td>2,100</td><td>1.0</td><td>0.92</td></td<>	LVWPS-U1-MW05B	3/9/2021	N	EM05	Zone 1	UMCf	136.9 - 161.5	9,600	15,000	14	2,100	1.0	0.92
LVWPS-U1-MW06A 9/29/2020 N BL04 Zone 1 UMCf 85.3 - 105.0 1,100 3,300 11 970 1.5 0.98 LVWPS-U1-MW06A 1/14/2021 N EM02 Zone 1 UMCf 85.3 - 105.0 1,300 3,300 9.0 1,100 2.0 0.84 LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 <td< td=""><td>LVWPS-U1-MW05B</td><td>4/7/2021</td><td>N</td><td>EM06</td><td>Zone 1</td><td>UMCf</td><td>136.9 - 161.5</td><td>11,000</td><td>18,000</td><td>14</td><td>2,000</td><td>1.1 J+</td><td>1.31</td></td<>	LVWPS-U1-MW05B	4/7/2021	N	EM06	Zone 1	UMCf	136.9 - 161.5	11,000	18,000	14	2,000	1.1 J+	1.31
LVWPS-U1-MW06A 2/9/2021 N EM04 Zone 1 UMCf 85.3 - 105.0 1,300 3,000 10 990 1.4 J- 0.52 LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06A		N	BL04	Zone 1	UMCf			3,300	11	970	1.5	
LVWPS-U1-MW06A 3/10/2021 N EM05 Zone 1 UMCf 85.3 - 105.0 1,400 3,100 10 1,100 1.5 0.70 LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06A	1/14/2021	N	EM02	Zone 1	UMCf	85.3 - 105.0	1,300	3,300	9.0	1,100	2.0	0.84
LVWPS-U1-MW06A 4/12/2021 N EM06 Zone 1 UMCf 85.3 - 105.0 1,300 3,100 11 J- 970 1.9 J 0.83 LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06A	2/9/2021	N	EM04	Zone 1	UMCf	85.3 - 105.0	1,300	3,000	10	990	1.4 J-	0.52
LVWPS-U1-MW06B 9/29/2020 N BL04 Zone 1 UMCf 109.3 - 134.0 1,700 3,800 11 1,000 1.7 1.03 LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06A	3/10/2021	N	EM05	Zone 1	UMCf	85.3 - 105.0	1,400	3,100	10	1,100	1.5	0.70
LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06A	4/12/2021	N	EM06	Zone 1	UMCf	85.3 - 105.0	1,300	3,100	11 J-	970	1.9 J	0.83
LVWPS-U1-MW06B 1/12/2021 N EM02 Zone 1 UMCf 109.3 - 134.0 21 8.7 J 0.17 J 1,100 12 0.27	LVWPS-U1-MW06B	9/29/2020	N	BL04	Zone 1	UMCf	109.3 - 134.0	· ·		11	1,000	1.7	1.03
	LVWPS-U1-MW06B	1/12/2021	N	EM02	Zone 1	UMCf	109.3 - 134.0	· ·		0.17 J			0.27
	LVWPS-U1-MW06B	2/10/2021	N	EM04	Zone 1	UMCf	109.3 - 134.0	1,000	1,400	2.0		1.9	0.74



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-U1-MW06B	3/10/2021	N	EM05	Zone 1	UMCf	109.3 - 134.0	1,300	2,300	4.4	1,200	1.8 J	0.38
LVWPS-U1-MW06B	4/8/2021	N	EM06	Zone 1	UMCf	109.3 - 134.0	1,200	2,600	6.4	1,000	2.0	1.05
LVWPS-U1-MW07	9/30/2020	N	BL04	Zone 1	UMCf	86.3 - 111.0	4,100	7,700	5.6	2,000	0.84	3.78
LVWPS-U1-MW07	1/14/2021	N	EM02	Zone 1	UMCf	86.3 - 111.0	430	110	<0.014	1,700	210	0.73
LVWPS-U1-MW07	2/10/2021	N	EM04	Zone 1	UMCf	86.3 - 111.0	370	180	0.081	1,600	180	0.38
LVWPS-U1-MW07	3/12/2021	N	EM05	Zone 1	UMCf	86.3 - 111.0	1,300	2,000	0.42	1,800	19 J+	0.32
LVWPS-U1-MW07	4/7/2021	N	EM06	Zone 1	UMCf	86.3 - 111.0	2,500	2,600	0.41	2,000	16 J+	0.40
LVWPS-U1-MW08A	9/30/2020	N	BL04	Zone 1	UMCf	93.8 - 118.5	4,700	7,300	13	1,500	1.7	2.21
LVWPS-U1-MW08A	1/12/2021	N	EM02	Zone 1	UMCf	93.8 - 118.5	<0.31	<10	<0.14	990	300	0.33
LVWPS-U1-MW08A	2/9/2021	N	EM04	Zone 1	UMCf	93.8 - 118.5	<0.31	<10	<0.014	700	420 J-	1.21
LVWPS-U1-MW08A	3/11/2021	N	EM05	Zone 1	UMCf	93.8 - 118.5	<0.31	<10	<0.014	410	180	0.30
LVWPS-U1-MW08A	4/8/2021	N	EM06	Zone 1	UMCf	93.8 - 118.5	310	24 J	0.038 J	460	40	0.45
LVWPS-U1-MW08B	9/30/2020	N	BL04	Zone 1	UMCf	125.3 - 150.0	2,800	5,500	10	1.400	1.3	3.10
LVWPS-U1-MW08B	1/11/2021	N	EM02	Zone 1	UMCf	125.3 - 150.0	3.9	<10	<0.014	1,100	230	0.23
LVWPS-U1-MW08B	1/11/2021	FD	EM02	Zone 1	UMCf	125.3 - 150.0	3.8	<10	0.014 R	1,400	220	
LVWPS-U1-MW08B	2/9/2021	N	EM04	Zone 1	UMCf	125.3 - 150.0	<0.31	<10	<0.01410	1,100	270 J-	0.41
LVWPS-U1-MW08B	2/9/2021	FD	EM04	Zone 1	UMCf	125.3 - 150.0	<0.31	<10	<0.014	1,100	300 J-	
LVWPS-U1-MW08B	3/10/2021	N	EM05	Zone 1	UMCf	125.3 - 150.0	54	35 J	0.047 J	1,000	100	0.39
LVWPS-U1-MW08B	3/10/2021	FD	EM05	Zone 1	UMCf	125.3 - 150.0	43	35 J	0.047 3	1,000	98	0.39
LVWPS-U1-MW08B	4/9/2021		EM06	Zone 1 Zone 1	UMCf	125.3 - 150.0	700	400	0.76	, , , , , ,		0.44
		N								1,100	55	
LVWPS-U1-MW08B	4/9/2021	FD	EM06	Zone 1	UMCf	125.3 - 150.0	640	400	0.92	1,100	46	
LVWPS-U1-MW09A	9/30/2020	N	BL04	Zone 1	UMCf	115.3 - 125.0	7,500	12,000	13	1,900	1.8	1.62
LVWPS-U1-MW09A	1/13/2021	N	EM02	Zone 1	UMCf	115.3 - 125.0	8,600	13,000	12	1,900	0.88	0.75
LVWPS-U1-MW09A	2/10/2021	N	EM04	Zone 1	UMCf	115.3 - 125.0	7,800	12,000	12	2,000	1.1	1.08
LVWPS-U1-MW09A	3/11/2021	N	EM05	Zone 1	UMCf	115.3 - 125.0	9,100	12,000	12	2,100	0.95	0.99
LVWPS-U1-MW09A	4/8/2021	N	EM06	Zone 1	UMCf	115.3 - 125.0	7,400	16,000	13	1,900	0.91	1.74
LVWPS-U1-MW09B	9/30/2020	N	BL04	Zone 1	UMCf	130.3 - 155.0	6,400	11,000	9.6	1,900	0.89	1.80
LVWPS-U1-MW09B	1/13/2021	N	EM02	Zone 1	UMCf	130.3 - 155.0	3,800	5,900	12	1,700	<2.1	0.74
LVWPS-U1-MW09B	2/10/2021	N	EM04	Zone 1	UMCf	130.3 - 155.0	3,500	5,700	11	1,700	1.2	0.60
LVWPS-U1-MW09B	3/11/2021	N	EM05	Zone 1	UMCf	130.3 - 155.0	4,200	5,300	10	2,300	1.4 J	0.89
LVWPS-U1-MW09B	4/8/2021	N	EM06	Zone 1	UMCf	130.3 - 155.0	3,100	6,300	11	1,700	1.2 J	1.19
LVWPS-U1-MW10A	10/2/2020	N	BL04	Zone 1	UMCf	99.3 - 124.0	9,200	16,000	9.9	2,000	0.55	3.77
LVWPS-U1-MW10A	1/13/2021	N	EM02	Zone 1	UMCf	99.3 - 124.0	13,000 J	17,000	10	2,000	1.2 J	3.28
LVWPS-U1-MW10A	2/9/2021	N	EM04	Zone 1	UMCf	99.3 - 124.0	10,000	16,000	9.8	2,000	0.46 J	5.98
LVWPS-U1-MW10A	3/9/2021	N	EM05	Zone 1	UMCf	99.3 - 124.0	12,000	17,000	10	2,100	0.49 J	3.70
LVWPS-U1-MW10A	4/7/2021	N	EM06	Zone 1	UMCf	99.3 - 124.0	10,000	17,000	9.9	2,000	<1.0	3.92
LVWPS-U1-MW10B	10/2/2020	N	BL04	Zone 1	UMCf	130.3 - 155.0	4,600	5,100	3.8	1,800	0.53	1.68
LVWPS-U1-MW10B	1/12/2021	N	EM02	Zone 1	UMCf	130.3 - 155.0	4,600	5,500	4.6	1,900	<1.3	1.37
LVWPS-U1-MW10B	2/9/2021	N	EM04	Zone 1	UMCf	130.3 - 155.0	2,900	6,800	4.0	1,900	<1.0 UJ	2.00
LVWPS-U1-MW10B	3/9/2021	N	EM05	Zone 1	UMCf	130.3 - 155.0	3,900	5,700	4.1	2,000	<1.0	2.27
LVWPS-U1-MW10B	4/7/2021	N	EM06	Zone 1	UMCf	130.3 - 155.0	3,700	5,700	4.2	1,900	<1.0	2.00
LVWPS-U2-IW01	10/8/2020	N	BL04	Zone 2	UMCf	121.2 - 141.0	8,100	12,000	9.0			3.48
LVWPS-U2-IW01	10/8/2020	FD	BL04	Zone 2	UMCf	121.2 - 141.0	6,900	11,000	8.6			
LVWPS-U2-IW02	10/8/2020	N	BL04	Zone 2	UMCf	116.2 - 141.0	8,100	12,000	8.7			3.80
LVWPS-U2-IW03	10/8/2020	N	BL04	Zone 2	UMCf	99.2 - 124.0	7,100	11,000	12			2.66
LVWPS-U2-IW04	10/8/2020	N	BL04	Zone 2	UMCf	83.7 - 108.5	3,900	6,500	19			4.10
LVWPS-U2-IW05	10/8/2020	N	BL04	Zone 2	UMCf	87.7 - 117.5	8,500	14,000	12			4.95
LVWPS-U2-IW06	10/8/2020	N	BL04	Zone 2	UMCf	89.2 - 104.0	10,000	17,000	14			3.46
LVWPS-U2-IW07	10/6/2020	N	BL04	Zone 2	UMCf	91.2 - 106.0	6,000	8,700	5.7			1.85
LVWPS-U2-IW08	10/6/2020	N	BL04	Zone 2	UMCf	83.7 - 108.5	12,000	20,000	17			5.08
LVWPS-U2-IW09	10/6/2020	N	BL04	Zone 2	UMCf	103.2 - 128.0	35	63 J	0.11			2.85
LVWPS-U2-IW09	10/6/2020	N	BL04	Zone 2 Zone 2	UMCf	103.2 - 128.0	400	150	<0.014			3.48
LVWPS-U2-IW10	10/6/2020	N N	BL04	Zone 2 Zone 2	UMCf	109.3 - 129.0	1.400	2.400	2.6			3.46
LV VVP3-U2-IVV I I	10/0/2020	IN	DLU4	Zone Z	UNICT	100.9 - 133.7	1,400	∠,400	∠.७			3.31



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-U2-IW12	10/8/2020	N	BL04	Zone 2	UMCf	112.8 - 137.5	5,900	8,300	11			4.65
LVWPS-U2-MW01	10/8/2020	N	BL04	Zone 2	UMCf	97.3 - 117.0	360	450	0.89	2,500	0.36 J	1.63
LVWPS-U2-MW01	1/14/2021	N	EM02	Zone 2	UMCf	97.3 - 117.0	85	93 J	0.11	2,600	<1.0	2.76
LVWPS-U2-MW01	2/10/2021	N	EM04	Zone 2	UMCf	97.3 - 117.0	200	260	0.98	2,500	0.46 J	1.94
LVWPS-U2-MW01	3/10/2021	N	EM05	Zone 2	UMCf	97.3 - 117.0	26	<10	<0.014	2,100	2.2	0.43
LVWPS-U2-MW01	4/7/2021	N	EM06	Zone 2	UMCf	97.3 - 117.0	250	330 J+	0.51 J+	2,400	0.26 J	1.55
LVWPS-U2-MW02	10/8/2020	N	BL04	Zone 2	UMCf	100.3 - 125.0	5,200	8,300	6.2	1,800	0.64	8.10
LVWPS-U2-MW02	1/12/2021	N	EM02	Zone 2	UMCf	100.3 - 125.0	7,100	9,600	9.1	1,900	<1.3	2.13
LVWPS-U2-MW02	2/9/2021	N	EM04	Zone 2	UMCf	100.3 - 125.0	5,600	13,000	7.7	1,800	<1.0 UJ	2.93
LVWPS-U2-MW02	3/9/2021	N	EM05	Zone 2	UMCf	100.3 - 125.0	6,600	10,000	7.0	1,900	<1.0	3.38
LVWPS-U2-MW02	4/5/2021	N	EM06	Zone 2	UMCf	100.3 - 125.0	6,500	11,000	7.2	1,800	0.42 J	3.23
LVWPS-U2-MW03	10/9/2020	N	BL04	Zone 2	UMCf	90.3 - 110.0	2,100	3,400	11	2,000	0.98	3.53
LVWPS-U2-MW03	1/14/2021	N	EM02	Zone 2	UMCf	90.3 - 110.0	1,800	3,300	12	2,100	1.4 J	3.53
LVWPS-U2-MW03	2/10/2021	N	EM04	Zone 2	UMCf	90.3 - 110.0	2,200	3,500	13	2,100	1.2	5.49
LVWPS-U2-MW03	3/10/2021	N	EM05	Zone 2	UMCf	90.3 - 110.0	2,200	3,400	13	2,200	1.3 J	5.02
LVWPS-U2-MW03	4/6/2021	N	EM06	Zone 2	UMCf	90.3 - 110.0	2,200	3,800	16	2,100	1.7 J	5.14
LVWPS-U2-MW04	10/6/2020	N	BL04	Zone 2	UMCf	103.2 - 128.0	160	260	0.27	3,000	0.27 J	0.93
LVWPS-U2-MW04	1/11/2021	N	EM02	Zone 2	UMCf	103.2 - 128.0	2.0	<10	<0.014	2,900	9.5	0.49
LVWPS-U2-MW04	2/8/2021	N	EM04	Zone 2	UMCf	103.2 - 128.0	<1.6	<10	<0.014	2,800	38	1.56
LVWPS-U2-MW04	3/8/2021	N	EM05	Zone 2	UMCf	103.2 - 128.0	<0.31	<10	<0.014	3,700	56	0.81
LVWPS-U2-MW04	4/5/2021	N	EM06	Zone 2	UMCf	103.2 - 128.0	<0.31	<10	<0.014	2,900	1.7	0.80
LVWPS-U2-MW05	10/5/2020	N	BL04	Zone 2	UMCf	83.2 - 108.0	9,300	15,000	8.4	1,300	0.41 J	4.35
LVWPS-U2-MW05	1/13/2021	N	EM02	Zone 2	UMCf	83.2 - 108.0	2.7	<10	<0.014	1,100	1,100	0.24
LVWPS-U2-MW05	2/10/2021	N	EM04	Zone 2	UMCf	83.2 - 108.0	<0.31 UJ	<10	<0.014	810	910	0.51
LVWPS-U2-MW05	3/10/2021	N	EM05	Zone 2	UMCf	83.2 - 108.0	<0.31	<10	0.016 J	420	1,000	1.22
LVWPS-U2-MW05	4/7/2021	N	EM06	Zone 2	UMCf	83.2 - 108.0	<0.31	<10	<0.014	300	960	0.20
LVWPS-U2-MW06	10/1/2020	N	BL04	Zone 2	UMCf	121.8 - 141.5	4,100	7,300	9.5	1,900	0.94	2.79
LVWPS-U2-MW06	1/11/2021	N	EM02	Zone 2	UMCf	121.8 - 141.5	4,200	5,700	7.0	2,000	<1.3	1.01
LVWPS-U2-MW06	2/8/2021	N	EM04	Zone 2	UMCf	121.8 - 141.5	3,900	5,500	8.0	2,000	1.3 J	1.45
LVWPS-U2-MW06	3/9/2021	N	EM05	Zone 2	UMCf	121.8 - 141.5	3,700	5,200	7.7	2,200	1.2 J	2.12
LVWPS-U2-MW06	4/6/2021	N	EM06	Zone 2	UMCf	121.8 - 141.5	3,700	5,500	10	2,000	1.4 J	1.53
LVWPS-U2-MW07	10/2/2020	N	BL04	Zone 2	UMCf	88.2 - 108.0	1,600	2,600	10	1,900	0.74	5.79
LVWPS-U2-MW08	10/1/2020	N	BL04	Zone 2	UMCf	113.2 - 133.0	4,600	8,100	17	2,100	1.5	2.63
LVWPS-U2-MW08	1/11/2021	N	EM02	Zone 2	UMCf	113.2 - 133.0	3,100	9,400	9.1	1,900	<0.26	0.54
LVWPS-U2-MW08	2/8/2021	N	EM04	Zone 2	UMCf	113.2 - 133.0	3,400	9,200	9.8	1,800	1.1 J	1.84
LVWPS-U2-MW08	3/8/2021	N	EM05	Zone 2	UMCf	113.2 - 133.0	4,600	14,000	10	1,500	0.50 J-	1.99
LVWPS-U2-MW08	4/5/2021	N	EM06	Zone 2	UMCf	113.2 - 133.0	5,000	10,000	11	1,800	0.51	1.95
LVWPS-U2-MW09	10/9/2020	N	BL04	Zone 2	UMCf	84.9 - 104.7	12,000	18,000	17	2,200	1.1	2.06
LVWPS-U2-MW09	1/18/2021	N	EM02	Zone 2	UMCf	84.9 - 104.7	9,800	15,000	17	2,300	1.4 J	2.21
LVWPS-U2-MW09	2/8/2021	N	EM04	Zone 2	UMCf	84.9 - 104.7	10,000	15,000	16	1,900	2.6 J	3.42
LVWPS-U2-MW09	3/8/2021	N	EM05	Zone 2	UMCf	84.9 - 104.7	8,900	16,000	17	2,000	1.1	3.36
LVWPS-U2-MW09	4/5/2021	N	EM06	Zone 2	UMCf	84.9 - 104.7	2,000	11,000	17	1,900	1.5	2.69
LVWPS-U2-MW10	10/2/2020	N	BL04	Zone 2	UMCf	90.2 - 110.0	6,000	8,900	15	2,200	1.1	4.16
LVWPS-U2-MW12	10/7/2020	N	BL04	Zone 2	UMCf	83.2 - 108.0	8,800	12,000	18	2,000	1.1	4.13
LVWPS-U2-MW12	1/12/2021	N	EM02	Zone 2	UMCf	83.2 - 108.0	7,000	11,000	16	1,900	1.4 J	3.9
LVWPS-U2-MW12	2/8/2021	N	EM04	Zone 2	UMCf	83.2 - 108.0	7,500	11,000	15	2,000	1.0 J-	3.80
LVWPS-U2-MW12	3/8/2021	N	EM05	Zone 2	UMCf	83.2 - 108.0	6,100	14,000	13	1,900	1.1	2.73
LVWPS-U2-MW12	4/7/2021	N	EM06	Zone 2	UMCf	83.2 - 108.0	6,200	11,000	15	2,000	1.4 J+	3.05
LVWPS-U2-MW13	10/2/2020	N	BL04	Zone 2	UMCf	94.7 - 109.5	5,400	11,000	17	2,100	1.2	3.58
LVWPS-U2-MW13	10/2/2020	FD	BL04	Zone 2	UMCf	94.7 - 109.5	5,800	11,000	17	2,300	1.4	
LVWPS-U2-MW14	10/6/2020	N	BL04	Zone 2	UMCf	83.2 - 108.0	11,000	360	17	2,000	0.78	5.18
LVWPS-U2-MW14	1/13/2021	N	EM02	Zone 2	UMCf	83.2 - 108.0	9,600	20,000	8.9	1,900	1.4 J	0.82
LVWPS-U2-MW14	2/9/2021	N	EM04	Zone 2	UMCf	83.2 - 108.0	7,300	12,000	13	1,900	2.1 J-	1.49



LVWPS-U3-MW02A 2/11/2021 FD EM04 Zone 3 UMCf-cg 82.3 - 97.0 2,900 4,200 5.3 J- 1,300 0.46 J LVWPS-U3-MW02A 3/11/2021 N EM05 Zone 3 UMCf-cg 82.3 - 97.0 2,400 3,600 5.6 1,500 0.48 J 2.93 LVWPS-U3-MW02A 3/11/2021 FD EM05 Zone 3 UMCf-cg 82.3 - 97.0 2,500 3,700 6.3 1,500 0.44 J LVWPS-U3-MW02A 4/9/2021 N EM06 Zone 3 UMCf-cg 82.3 - 97.0 2,300 3,400 6.0 1,400 0.45 J 3.12 LVWPS-U3-MW02A 4/9/2021 FD EM06 Zone 3 UMCf-cg 82.3 - 97.0 2,300 3,400 6.0 1,400 0.41 J LVWPS-U3-MW02B 10/5/2020 N BL04 Zone 3 UMCf-cg 82.3 - 97.0 2,300 3,400 6.0 1,400 0.41 J LVWPS-U3-MW02B	Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
INVPRILEMENT Moderal							ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
INVPR-12-MM71	LVWPS-U2-MW14	3/10/2021	N	EM05	Zone 2	UMCf	83.2 - 108.0		11,000	11	1,800		_
DAMPS-LEARNY 1 1712/2021 N EMD2 Zone 2 UMCF 11710-1885 3.100 801 80.00 40.14 2.200 6.1 0.64 0.04	LVWPS-U2-MW14	4/6/2021	N	EM06	Zone 2	UMCf	83.2 - 108.0	9,300	13,000	15	1,900	1.2 J+	0.95
UMPPS-LIAMNT 1732222 FD	LVWPS-U2-MW17	10/1/2020	N	BL04	Zone 2	UMCf	117.0 - 136.5	4,500	10,000	11	1,700	0.66	2.28
DVMPS-L2AMW17 2872021 N EMM Zono 2 UNCT 1170-398 2.000 3.900 3.9 2.000 2.0 2.19 1.10	LVWPS-U2-MW17	1/12/2021	N	EM02	Zone 2	UMCf	117.0 - 136.5	1,800	800	<0.14	2,200	6.1	0.64
INVPRELIAMITY 2800021 FD FD EMMS Zoon 2 UNC 1170 - 1386 2.200 3.00 6.50 6.2 2.100 2.0	LVWPS-U2-MW17	1/12/2021	FD	EM02	Zone 2	UMCf	117.0 - 136.5	2,100	810	0.036 J	2,200	6.6	
IMMPS-LIZAMOTT 380001 N EMOS Zeme 2 IMAC 1170-1985 3.400 6.500 6.2 2.100 2.0 2.52 2.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 2.000 1.91 1.51 1.51 1.000 1.900	LVWPS-U2-MW17	2/8/2021	N	EM04	Zone 2	UMCf	117.0 - 136.5	2,000	3,900	3.9	2,000	2.0	2.19
LVMPS-L2AMW17	LVWPS-U2-MW17	2/8/2021	FD	EM04	Zone 2	UMCf	117.0 - 136.5	2,200	3,800	3.9	2,000	1.9 J	
LVMPS-L2AMV17	LVWPS-U2-MW17	3/9/2021	N	EM05	Zone 2	UMCf	117.0 - 136.5	3,400	6,500	6.2	2,100	2.0	2.52
LVMPS-L2AMV17	LVWPS-U2-MW17	3/9/2021	FD	EM05	Zone 2	UMCf	117.0 - 136.5	3,400	6,600	6.6	2,100	2.0	
LVMPS-L22-MV16	LVWPS-U2-MW17	4/6/2021	N	EM06	Zone 2	UMCf	117.0 - 136.5	3,700	7,600	9.6	2,000	1.9 J	1.51
LVMPS-L2AMV16	LVWPS-U2-MW17	4/6/2021	FD	EM06	Zone 2	UMCf	117.0 - 136.5	3,700	7,600	9.7	2,100	2.2 J+	
LVMPS-U2-AMV16	LVWPS-U2-MW18	10/5/2020	N	BL04	Zone 2	UMCf	88.3 - 113.0	8,400	10,000	18	2,200	1.3	4.49
IVMPR-912-WINF	LVWPS-U2-MW18	1/11/2021	N	EM02	Zone 2	UMCf	88.3 - 113.0	5,800	8,800	18	2,400	1.8 J	2.83
LWMPS-LIZ-AMV18	LVWPS-U2-MW18	2/8/2021	N	EM04	Zone 2	UMCf	88.3 - 113.0	6,000	8,800	18	2,000	<2.6 UJ	4.08
LWMPS-LIAWN19	LVWPS-U2-MW18	3/9/2021	N	EM05	Zone 2	UMCf	88.3 - 113.0	5,100	9,500	17	2,400	1.8	3.15
LWMPS-UR-MW20 109/20020	LVWPS-U2-MW18	4/5/2021	N	EM06	Zone 2	UMCf	88.3 - 113.0	4,800	8,100	17	2,200	2.4	2.12
LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 80.2-115.0 3.100 4.900 8.3 5.57 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 793.3-90 10,000 15,000 14 4.02 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 104.8-124.5 5.200 9.700 9.4 3.61 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 104.8-124.5 5.200 9.700 9.4 3.61 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 109.3-125.0 1.800 3.200 7.9 4.91 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 129.3-150.0 680 1,000 5.8 3.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 129.3-150.0 680 1,000 5.8 3.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 129.3-150.0 680 1,000 5.8 5.74 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 132.8-16/5 5.50 870 7.4 5.83 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 132.8-16/5 5.50 870 7.4 5.83 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 132.8-16/5 5.50 870 7.6 5.69 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 149.3-174.0 3.400 4.100 8.1 5.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 149.3-174.0 3.400 4.100 8.1 5.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 149.3-174.0 3.400 4.100 8.1 5.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 149.3-174.0 3.400 4.100 8.1 5.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 83.8-111.0 1.400 2.000 7.1 5.71 LWWPS-LUS-WORD 109/2020 N BL04 Zone 3 UMCF-cg 83.8-111.0 1.400 2.000 5.8	LVWPS-U2-MW19	10/2/2020	N	BL04	Zone 2	UMCf	91.2 - 111.0	12,000	14,000	14	2,100	1.0	3.29
LIMPS-BLISH002A 108/2020 N BL04 Zone 3 LIMCK-cg 79.3 -90.0 10,000 15,000 14 4.02 LIMPS-BLISH003B 108/2020 N BL04 Zone 3 LIMCK-cg 77.8 -102.5 1,800 3,500 8.3 3.56 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 77.8 -102.5 1,800 3,500 8.3 3.56 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 77.8 -102.5 1,800 3,500 8.3 4.91 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 93.3 -130.0 1,900 3,500 8.3 4.91 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 93.3 -130.0 1,900 3,500 7.9 4.91 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 93.3 -130.0 680 1,100 5.8 5.74 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 913.3 -150.0 680 1,100 5.8 5.74 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 132.8 -167.5 530 870 7.4 5.53 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 86.3 -111.0 340 540 7.6 5.58 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 149.3 -174.0 3,800 4,100 7.6 4.72 LIMPS-BLISH003A 108/2020 N BL04 Zone 3 LIMCK-cg 169.3 -114.0 3,800 4,100 8.1 5.71 LIMPS-BLISH007A 108/2020 N BL04 Zone 3 LIMCK-cg 169.3 -114.0 3,800 4,100 8.1 5.71 LIMPS-BLISH007A 108/2020 N BL04 Zone 3 LIMCK-cg 169.3 -114.0 3,800 4,100 8.1 5.71 LIMPS-BLISH007A 108/2020 N BL04 Zone 3 LIMCK-cg 86.3 -111.0 1,400 2,000 7.1 5.71 LIMPS-BLISH007C 108/2020 N BL04 Zone 3 LIMCK-cg 86.3 -111.0 1,400 2,000 5.5 .	LVWPS-U2-MW20	10/2/2020	N	BL04	Zone 2	UMCf	88.2 - 108.0	6,000	13,000	12	2,200	1.5	1.38
LWWPS-US-INV02A 108/2020 N BL04 Zone 3 UMCK-cq 78.3 -98.0 10,000 15,000 14 4.02 LWWPS-US-INV03B 108/2020 N BL04 Zone 3 UMCK-cq 77.8 -102.5 1,800 3,500 8.3 3.51 LWWPS-US-INV03B 108/2020 N BL04 Zone 3 UMCK-cq 77.8 -102.5 1,800 3,500 7.9 4.91 LWWPS-US-INV03B 108/2020 N BL04 Zone 3 UMCK-cq 83.3 -123.0 210 380 7.7 5.74 LWWPS-US-INV03B 107/2020 N BL04 Zone 3 UMCK-cq 83.3 -123.0 210 380 7.7 5.74 LWWPS-US-INV04B 107/2020 N BL04 Zone 3 UMCK-cq 93.3 -158.0 680 1,100 5.8 5.74 LWWPS-US-INV05B 107/2020 N BL04 Zone 3 UMCK-cq 93.3 -158.0 680 1,100 5.8 5.74 LWWPS-US-INV05B 107/2020 N BL04 Zone 3 UMCK-cq 913.1 -120 230 380 7.8 5.74 LWWPS-US-INV05B 107/2020 N BL04 Zone 3 UMCK-cq 128.1 -167.5 550 870 7.4 5.83 LWWPS-US-INV05B 107/2020 N BL04 Zone 3 UMCK-cq 132.8 -167.5 550 870 7.4 5.89 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 149.3 -140 3.800 4.100 8.1 5.71 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 149.3 -140 3.800 4.100 8.1 5.71 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 149.3 -140 3.800 7.6 5.71 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 149.3 -140 3.800 4.100 8.1 5.71 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 149.3 -140 3.800 4.100 8.1 5.71 LWWPS-US-INV05B 108/2020 N BL04 Zone 3 UMCK-cq 83.3 -1110 1.400 2.000 7.1	LVWPS-U3-IW01	10/9/2020	N	BL04	Zone 3	UMCf-cq	80.2 - 115.0	3,100		8.3			5.57
LWPS-U3-W028	LVWPS-U3-IW02A	10/6/2020	N	BL04	Zone 3		79.3 - 99.0			14			4.02
LWPS-U3-W03A 10/6/2020 N BL04 Zone 3 UMCF-cg 77.8 - 10.25 1.800 3.500 8.3 3.56 LWPS-U3-W03B 10/6/2020 N BL04 Zone 3 UMCF-cg 19.3 - 13.00 1.800 3.200 7.9 4.91 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 9.3 - 17.30 2.10 3.80 7.7 5.74 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 9.3 - 17.30 2.30 3.80 7.8 5.74 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 9.3 - 17.50 2.30 3.80 7.8 5.74 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 9.3 - 17.50 2.30 3.80 7.8 5.83 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 8.3 - 111.0 3.40 5.40 5.40 7.6 5.89 LWPS-U3-W03B 10/7/2020 N BL04 Zone 3 UMCF-cg 8.3 - 111.0 3.40 5.40 5.40 5.40 5.80 5.89 LWPS-U3-W03B 10/8/2020 N BL04 Zone 3 UMCF-cg 17.8 - 142.5 5.700 1.800 7.6 5.71 LWPS-U3-W07B 10/8/2020 N BL04 Zone 3 UMCF-cg 14.93 - 17.40 3.800 4.100 8.1 5.71 LWPS-U3-W07B 10/8/2020 N BL04 Zone 3 UMCF-cg 14.93 - 17.40 3.800 4.100 8.1 5.71 LWPS-U3-W07B 10/8/2020 N BL04 Zone 3 UMCF-cg 14.93 - 17.40 3.800 4.100 8.1 5.71 LWPS-U3-W07B 10/8/2020 N BL04 Zone 3 UMCF-cg 14.93 - 17.40 7.300 14.000 8.0 5.77 LWPS-U3-W07B 10/8/2020 N BL04 Zone 3 UMCF-cg 17.78 - 14.25 5.700 14.000 8.0	LVWPS-U3-IW02B	10/6/2020	N	BL04	Zone 3		104.8 - 124.5	5,200		9.4			3.61
LWMPS-U3-MV03B 10m/2020 N BL04 Zone 3 UMCf-og 93.3-139.0 1.600 3.200 7.9 4.91 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 129.3-159.0 680 1.100 5.8 3.71 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 129.3-159.0 680 1.100 5.8 5.74 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 172.3-159.0 680 1.100 5.8 5.74 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 172.3-165.0 230 380 7.8 5.83 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 172.3-165.0 870 7.4 5.83 LWMPS-U3-MV04B 10m/2020 N BL04 Zone 3 UMCf-og 172.3-172.5 5.700 1.800 7.6 5.83 LWMPS-U3-MV06B 10m/2020 N BL04 Zone 3 UMCf-og 117.3-172.5 5.700 1.800 7.6 4.72 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 117.3-172.5 5.700 1.800 7.6 5.71 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 117.3-172.5 5.700 1.800 7.6 5.71 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 183.3-174.0 3.800 4.100 8.1 5.71 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 183.3-174.0 3.800 4.100 8.1 5.71 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 88.3-111.0 1.400 2.000 7.1 3.57 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 88.3-111.0 1.900 2.600 5.8 0.73 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 88.3-111.0 1.900 2.600 5.8 0.73 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 88.3-111.0 1.900 2.600 5.8 0.73 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 UMCf-og 88.3-110 1.900 2.600 5.8 0.79 LWMPS-U3-MV07A 10m/2020 N BL04 Zone 3 U													
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	LVWPS-U3-MW02B	1/14/2021	N	EM02	Zone 3	UMCf-cg	103.0 - 122.5	190	370	0.29	1,800	14	0.49



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-U3-MW02B	2/11/2021	N	EM04	Zone 3	UMCf-cg	103.0 - 122.5	6,100	9,800	9.2 J-	1,900	2.7	1.42
LVWPS-U3-MW02B	3/11/2021	N	EM05	Zone 3	UMCf-cg	103.0 - 122.5	7,200	12,000	7.4	2,100	3.4	0.73
LVWPS-U3-MW02B	4/12/2021	N	EM06	Zone 3	UMCf-cg	103.0 - 122.5	5,700	9,800	9.3 J-	2,000	2.1	1.20
LVWPS-U3-MW03A	10/2/2020	N	BL04	Zone 3	UMCf-cg	86.3 - 111.0	3,300	4,500	7.5	2,800	0.57 J-	6.40
LVWPS-U3-MW03A	10/2/2020	FD	BL04	Zone 3	UMCf-cg	86.3 - 111.0	3,500	4,500	7.5	2,800	0.62 J-	
LVWPS-U3-MW03A	1/14/2021	N	EM02	Zone 3	UMCf-cg	86.3 - 111.0	3,400	5,500	7.4	2,900	<2.1	4.38
LVWPS-U3-MW03A	2/11/2021	N	EM04	Zone 3	UMCf-cg	86.3 - 111.0	3,400	4,800	7.5	2,800	0.37 J	5.40
LVWPS-U3-MW03A	3/11/2021	N	EM05	Zone 3	UMCf-cg	86.3 - 111.0	3,100	4,900	7.2	3,000	<1.0	5.31
LVWPS-U3-MW03A	4/6/2021	N	EM06	Zone 3	UMCf-cg	86.3 - 111.0	2,800	4,600	7.7	2,800	<1.0	5.30
LVWPS-U3-MW03B	10/2/2020	N	BL04	Zone 3	UMCf-cg	151.1 - 175.7	3,800	13,000	9.1	1,900	0.41 J	3.23
LVWPS-U3-MW03B	1/14/2021	N	EM02	Zone 3	UMCf-cg	151.1 - 175.7	100	<10	<0.014	1,900 J-	61	0.23
LVWPS-U3-MW03B	2/11/2021	N	EM04	Zone 3	UMCf-cg	151.1 - 175.7	86	21 J	<0.014	1,900	38	0.57
LVWPS-U3-MW03B	3/12/2021	N	EM05	Zone 3	UMCf-cg	151.1 - 175.7	430	93 J	<0.028	1,600	48	0.49
LVWPS-U3-MW03B	4/12/2021	N	EM06	Zone 3	UMCf-cg	151.1 - 175.7	320	<10	<0.014	1,500	33	0.46
LVWPS-U3-MW03C	10/1/2020	N	BL04	Zone 3	UMCf-cg	117.8 - 142.5	4,900	12,000	7.7	1,900	0.32 J	2.96
LVWPS-U3-MW03C	1/14/2021	N	EM02	Zone 3	UMCf-cg	117.8 - 142.5	4,800	4,300	1.6	2,000	2.6	0.43
LVWPS-U3-MW03C	2/11/2021	N	EM04	Zone 3	UMCf-cg	117.8 - 142.5	5,700	6,800	3.4	2,000	3.9	0.46
LVWPS-U3-MW03C	3/11/2021	N	EM05	Zone 3	UMCf-cg	117.8 - 142.5	6,000	8,600	4.2	2,100	1.3	0.62
LVWPS-U3-MW03C	4/13/2021	N	EM06	Zone 3	UMCf-cg	117.8 - 142.5	6,100	12,000	5.6	2,000	0.39 J	1.06
LVWPS-U3-MW04B	10/2/2020	N	BL04	Zone 3	UMCf-cg	78.2 - 97.7	120	67 J	<0.014	1,600	6.8	2.03
LVWPS-U3-MW05B	10/2/2020	N	BL04	Zone 3	UMCf-cg	85.2 - 104.7	9.4	<10	<0.014	1,900	8.4	2.07
LVWPS-U3-MW05B	1/15/2021	N	EM02	Zone 3	UMCf-cg	85.2 - 104.7	96 J	39 J	<0.014	1,900	7.3	1.11
LVWPS-U3-MW05B	2/11/2021	N	EM04	Zone 3	UMCf-cg	85.2 - 104.7	460	130	<0.014	1,800	5.9	0.42
LVWPS-U3-MW05B	3/11/2021	N	EM05	Zone 3	UMCf-cg	85.2 - 104.7	510	250	0.11	1,900	4.9	1.18
LVWPS-U3-MW05B	4/8/2021	N	EM06	Zone 3	UMCf-cg	85.2 - 104.7	590	440	0.12 J+	2,000	4.3	0.88
LVWPS-U3-MW06A	10/5/2020	N	BL04	Zone 3	UMCf-cg	90.3 - 115.0	9,900	15,000	13	1,700	0.48 J	5.05
LVWPS-U3-MW06A	1/15/2021	N	EM02	Zone 3	UMCf-cg	90.3 - 115.0	<6,300	13,000	12	1,800 J-	<1.0	4.12
LVWPS-U3-MW06A	2/12/2021	N	EM04	Zone 3	UMCf-cg	90.3 - 115.0	9,400	15,000	12	1,700	0.50	3.39
LVWPS-U3-MW06A	3/15/2021	N	EM05	Zone 3	UMCf-cg	90.3 - 115.0	15,000	25,000	17	1,800	<1.0	2.72
LVWPS-U3-MW06A	4/9/2021	N	EM06	Zone 3	UMCf-cg	90.3 - 115.0	15,000	24,000	16	2,000	<1.0	3.16
LVWPS-U3-MW06B	10/7/2020	N	BL04	Zone 3	UMCf-cg	125.3 - 149.9	630	1,200	6.6	1,500	0.43 J	4.23
LVWPS-U3-MW06B	1/14/2021	N	EM02	Zone 3	UMCf-cg	125.3 - 149.9	820	1,500	6.1	1,600	0.58	2.37
LVWPS-U3-MW06B	2/11/2021	N	EM04	Zone 3	UMCf-cg	125.3 - 149.9	1,100	1,600	5.9	1,500	0.58	2.68
LVWPS-U3-MW06B	3/11/2021	N	EM05	Zone 3	UMCf-cg	125.3 - 149.9	1,400	2,000	6.1	1,600	0.56	2.96
LVWPS-U3-MW06B	4/13/2021	N	EM06	Zone 3	UMCf-cg	125.3 - 149.9	680	1,400	6.5	1,500	0.57	1.02
LVWPS-U3-MW07A	10/9/2020	N	BL04	Zone 3	UMCf-cg	82.8 - 97.5	250	540	5.9	1,200	0.39 J	5.45
LVWPS-U3-MW07A	1/15/2021	N	EM02	Zone 3	UMCf-cg	82.8 - 97.5	260	530	6.1	1,200	0.37 J	6.37
LVWPS-U3-MW07A	2/11/2021	N	EM04	Zone 3	UMCf-cg	82.8 - 97.5	300	440	6.6 J-	1,100	0.27 J	6.50
LVWPS-U3-MW07A	3/11/2021	N	EM05	Zone 3	UMCf-cg	82.8 - 97.5	260	430	5.9	1,200	<1.0	6.23
LVWPS-U3-MW07A	4/8/2021	N	EM06	Zone 3	UMCf-cg	82.8 - 97.5	250	470	5.8	1,200	0.32 J	6.50
LVWPS-U3-MW07B	10/9/2020	N	BL04	Zone 3	UMCf-cg	104.8 - 124.5	4,800	8,500	9.2	2,100	0.41 J	6.07
LVWPS-U3-MW07B	1/14/2021	N	EM02	Zone 3	UMCf-cg	104.8 - 124.5	4,600	7,900	9.5	2,100	<2.1	6.26
LVWPS-U3-MW07B	2/12/2021	N	EM04	Zone 3	UMCf-cg	104.8 - 124.5	4,900	7,400	9.4	1,800	0.41 J	6.51
LVWPS-U3-MW07B	3/12/2021	N	EM05	Zone 3	UMCf-cg	104.8 - 124.5	4,500	7,400	9.3	2,700	<1.0	7.04
LVWPS-U3-MW07B	4/13/2021	N	EM06	Zone 3	UMCf-cg	104.8 - 124.5	4,400	7,400	9.5	2,000	0.35 J	6.13
LVWPS-U3-MW08A	10/8/2020	N	BL04	Zone 3	UMCf-cg	117.8 - 142.5	15,000	22,000	14	2,300	0.47 J	5.05
LVWPS-U3-MW08A	1/15/2021	N	EM02	Zone 3	UMCf-cg	117.8 - 142.5	14,000	20,000	14	2,400	<1.0	4.22
LVWPS-U3-MW08A	2/12/2021	N	EM04	Zone 3	UMCf-cg	117.8 - 142.5	14,000	20,000	13	2,300	0.40 J	4.55
LVWPS-U3-MW08A	3/12/2021	N	EM05	Zone 3	UMCf-cg	117.8 - 142.5	12,000	19,000	12	2,200	0.40 J	4.31
LVWPS-U3-MW08A	4/9/2021	N	EM06	Zone 3	UMCf-cg	117.8 - 142.5	14,000	20,000	13	2,400	0.33 J	4.90
LVWPS-U3-MW08B	10/8/2020	N	BL04	Zone 3	UMCf-cg	149.3 - 174.0	6,100	8,100	4.9	2,200	2.6	2.46
LVWPS-U3-MW08B	1/15/2021	N	EM02	Zone 3	UMCf-cg	149.3 - 174.0	7,400	8,100	5.3	2,200	1.0 J	0.86
LVWPS-U3-MW08B	2/12/2021	N	EM04	Zone 3	UMCf-cg	149.3 - 174.0	5,700	8,100	5.5	2,000	0.68	1.04



Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-U3-MW08B	3/12/2021	N	EM05	Zone 3	UMCf-cg	149.3 - 174.0	5,200	8,500	5.6	2,000	<1.0	0.97
LVWPS-U3-MW08B	4/15/2021	N	EM06	Zone 3	UMCf-cg	149.3 - 174.0	5,000 J-	8,700 J-	4.9 J-	2,100 J-	0.81 J-	0.80
LVWPS-U3-MW09	10/7/2020	N	BL04	Zone 3	UMCf-cg	82.8 - 107.5	3,500	6,100	4.8	1,300	<0.26	4.35
LVWPS-U3-MW09	1/15/2021	N	EM02	Zone 3	UMCf-cg	82.8 - 107.5	14	<10	<0.014	1,100	300	0.52
LVWPS-U3-MW09	2/10/2021	N	EM04	Zone 3	UMCf-cg	82.8 - 107.5	90	<10	<0.014	1,100	97	0.72
LVWPS-U3-MW09	3/12/2021	N	EM05	Zone 3	UMCf-cg	82.8 - 107.5	130	<10	<0.014 UJ	610	76	0.33
LVWPS-U3-MW09	4/8/2021	N	EM06	Zone 3	UMCf-cg	82.8 - 107.5	75	<10	<0.014	740	50	0.41
LVWPS-U3-MW10A	10/5/2020	N	BL04	Zone 3	UMCf-cg	85.3 - 95.0	2,600	3,200	3.0	1,800	0.77	0.99
LVWPS-U3-MW10A	1/14/2021	N	EM02	Zone 3	UMCf-cg	85.3 - 95.0	0.96 J	<10	<0.014	1,200	310	0.76
LVWPS-U3-MW10A	2/11/2021	N	EM04	Zone 3	UMCf-cg	85.3 - 95.0	8.4 J	<10	<0.014 UJ	1,100	4.6	0.89
LVWPS-U3-MW10A	3/11/2021	N	EM05	Zone 3	UMCf-cg	85.3 - 95.0	11	<10	<0.014	1,100	5.7	0.28
LVWPS-U3-MW10A	4/8/2021	N	EM06	Zone 3	UMCf-cg	85.3 - 95.0	<0.31	<10	<0.014	1,300	1.8	0.33
LVWPS-U3-MW10B	10/5/2020	N	BL04	Zone 3	UMCf-cg	101.3 - 121.0	3,200	4,200	6.5	1,600	0.32 J	6.76
LVWPS-U3-MW10B	1/14/2021	N	EM02	Zone 3	UMCf-cg	101.3 - 121.0	0.69 J	<10	<0.014	1,500	280	0.54
LVWPS-U3-MW10B	2/11/2021	N	EM04	Zone 3	UMCf-cg	101.3 - 121.0	<0.31	<10	<0.014 UJ	98	42	0.76
LVWPS-U3-MW10B	3/11/2021	N	EM05	Zone 3	UMCf-cg	101.3 - 121.0	<0.31	<10	<0.014	190	42	0.34
LVWPS-U3-MW10B	4/9/2021	N	EM06	Zone 3	UMCf-cg	101.3 - 121.0	<0.31	<10	<0.014	49	45	0.34
LVWPS-U3-MW11A	10/7/2020	N	BL04	Zone 3	UMCf-cg	86.3 - 106.0	10,000	16,000	9.8	2,000	0.42 J	2.55
LVWPS-U3-MW11A	1/15/2021	N	EM02	Zone 3	UMCf-cg	86.3 - 106.0	11,000	18,000	11	2,000	<1.0	3.02
LVWPS-U3-MW11A	2/12/2021	N	EM04	Zone 3	UMCf-cg	86.3 - 106.0	11,000	18,000	12	2,000	0.30 J	3.14
LVWPS-U3-MW11A	3/11/2021	N	EM05	Zone 3	UMCf-cg	86.3 - 106.0	12,000	17,000	11	2,200	<1.0	2.34
LVWPS-U3-MW11A	4/9/2021	N	EM06	Zone 3	UMCf-cg	86.3 - 106.0	9,900	15,000	11	2,100	0.40 J	3.71
LVWPS-U3-MW11B	10/7/2020	N	BL04	Zone 3	UMCf-cg	112.3 - 137.0	4,100	9,600	5.2	1,900	0.33 J	1.23
LVWPS-U3-MW11B	1/18/2021	N	EM02	Zone 3	UMCf-cg	112.3 - 137.0	5,400	7,600	4.9	2,100	<1.0	2.13
LVWPS-U3-MW11B	2/12/2021	N	EM04	Zone 3	UMCf-cg	112.3 - 137.0	3,800	7,000	4.9	1,800	<0.26	1.44
LVWPS-U3-MW11B	3/12/2021	N	EM05	Zone 3	UMCf-cg	112.3 - 137.0	4,200	7,500	4.6	1,800	<1.0	0.51
LVWPS-U3-MW11B	4/14/2021	N	EM06	Zone 3	UMCf-cg	112.3 - 137.0	3,800	7,200	4.8	1,900	<1.0	2.78
LVWPS-U3-MW11C	10/8/2020	N	BL04	Zone 3	UMCf-cg	143.3 - 163.0	5,300	7,100	8.5	2,000	0.46 J	4.73
LVWPS-U3-MW11C	1/18/2021	N	EM02	Zone 3	UMCf-cq	143.3 - 163.0	6,500	6,800	8.1	2,000	<1.0	4.03
LVWPS-U3-MW11C	2/12/2021	N	EM04	Zone 3	UMCf-cg	143.3 - 163.0	3,800	6,200	8.3	1,700	0.34 J	2.92
LVWPS-U3-MW11C	3/12/2021	N	EM05	Zone 3	UMCf-cq	143.3 - 163.0	4,200	6,700	7.8	1,700	<1.0	3.34
LVWPS-U3-MW11C	4/14/2021	N	EM06	Zone 3	UMCf-cg	143.3 - 163.0	4,100	7,500	7.8	1,900	<1.0	2.80
LVWPS-U3-MW12A	10/6/2020	N	BL04	Zone 3	UMCf-cq	88.3 - 108.0	2,700	4,200	5.1	1,800	0.38 J	2.67
LVWPS-U3-MW12A	1/15/2021	N	EM02	Zone 3	UMCf-cg	88.3 - 108.0	2,300	3,200	3.3	1,800	0.60	1.07
LVWPS-U3-MW12A	2/12/2021	N	EM04	Zone 3	UMCf-cq	88.3 - 108.0	2,000	2,800	2.5	1,600	3.7	1.79
LVWPS-U3-MW12A	3/12/2021	N	EM05	Zone 3	UMCf-cg	88.3 - 108.0	1,700	2,500	2.0	1,600	<1.0	0.63
LVWPS-U3-MW12A	4/15/2021	N	EM06	Zone 3	UMCf-cq	88.3 - 108.0	2,100 J-	3,300 J-	1.6 J-	1,600 J-	<1.0 UJ	1.12
LVWPS-U3-MW12B	10/6/2020	N	BL04	Zone 3	UMCf-cg	113.3 - 138.0	6,000	4,900	6.6	1,700	0.27 J	5.94
LVWPS-U3-MW12B	1/15/2021	N	EM02	Zone 3	UMCf-cg	113.3 - 138.0	1,900	2,600	2.7	2,000	0.45 J	1.79
LVWPS-U3-MW12B	2/12/2021	N	EM04	Zone 3	UMCf-cg	113.3 - 138.0	830	980	0.99	1,500	27	0.94
LVWPS-U3-MW12B	3/12/2021	N	EM05	Zone 3	UMCf-cg	113.3 - 138.0	820	1,100	1.3	1,500	1.8 J+	1.28
LVWPS-U3-MW12B	4/15/2021	N	EM06	Zone 3	UMCf-cg	113.3 - 138.0	7.6 J-	1,100 1,200 J-	1.4 J-	1,500 J-	0.41 J	1.38
LVWPS-U3-MW13A	10/7/2020	N	BL04	Zone 3	UMCf-cg	96.3 - 121.0	3,900	7,200	1.4 3-	2,000	0.413 0.45 J	5.44
LVWPS-U3-MW13A	1/15/2021	N	EM02	Zone 3	UMCf-cg	96.3 - 121.0	3,900	7,400	10	2,100	<1.0	4.84
LVWPS-U3-MW13A	2/11/2021	N	EM04	Zone 3	UMCf-cg	96.3 - 121.0	4,200	6,300	10	2,100	0.45 J	5.32
LVWPS-U3-MW13A	3/12/2021	N	EM05	Zone 3	UMCf-cg	96.3 - 121.0	4,100	6,500	9.9 J-	1,900	<1.0	4.53
LVWPS-U3-MW13A	4/8/2021	N	EM06	Zone 3	UMCf-cg	96.3 - 121.0	3,800	6,400	9.0	2,000	0.37 J	5.70
LVWPS-U3-MW13B	10/7/2020	N	BL04	Zone 3	UMCf-cg	132.8 - 147.5	350	550	6.8	1,500	0.37 J	5.92
LVWPS-U3-MW13B	1/15/2021	N	EM02	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	910	65	0.2
LVWPS-U3-MW13B	1/15/2021	FD	EM02	Zone 3 Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	920	65	0.2
LVWPS-U3-MW13B							<0.31	<10	<0.014			0.47
LVWPS-U3-MW13B LVWPS-U3-MW13B	2/12/2021	N	EM04	Zone 3	UMCf-cg	132.8 - 147.5				830	130	_
	2/12/2021	FD	EM04	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	850	130	0.29
LVWPS-U3-MW13B	3/15/2021	N	EM05	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	880	22	0.38



Table 2 **Groundwater Analytical Results**

Las Vegas Wash Bioremediation Pilot Study

Well	Sample Date	QC Type	Event	Zone	Screened Lithology	Screened Interval	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B	Nitrate (as N) by USEPA Method 300.0	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B	Dissolved Oxygen Field Measurement
						ft bgs	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L
LVWPS-U3-MW13B	3/15/2021	FD	EM05	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	900	25	
LVWPS-U3-MW13B	4/14/2021	N	EM06	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	1,200	11	0.47
LVWPS-U3-MW13B	4/14/2021	FD	EM06	Zone 3	UMCf-cg	132.8 - 147.5	<0.31	<10	<0.014	1,200	12	

Notes:

- The result is an estimated quantity, but the result may be biased low.
 - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+
- The result is an estimated quantity, but the result may be biased high.

 The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.



Location	Sample Date	Depth (ft	Sample ID	Event	Zono	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT WT)		mine WT WT)	Sulforho (SF	damine B RB)	Sulforhoo (SF	
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groun	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A1-DR01	9/28/2020	72.5	LVWPS-A1-DR01-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-DR01	12/13/2020	72.5	LVWPS-A1-DR01-20201213-1	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR01	12/14/2020	72.5	LVWPS-A1-DR01-20201214	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR01	12/29/2020	72.5	LVWPS-A1-DR01-INJ	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR01	1/12/2021	72.5	LVWPS-A1-DR01-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	561.2 **	8.58	ND	ND	ND	ND	ND	ND
LVWPS-A1-DR01	2/11/2021	72.5	LVWPS-A1-DR01-EM04	EM04	Zone 1	ND	ND	ND	ND	515.9	1.46	ND	ND	562.2 **	25.4	ND	ND	ND	ND	ND	ND
LVWPS-A1-DR01	3/15/2021	72.5	LVWPS-A1-DR01-EM05	EM05	Zone 1	ND	ND	ND	ND	516.2	0.990	ND	ND	562.3 **	23.7	ND	ND	ND	ND	ND	ND
LVWPS-A1-DR01	4/13/2021	72.5	LVWPS-A1-DR01-EM06	EM06	Zone 1	ND	ND			ND	ND			561.9 **	8.43			ND	ND		
LVWPS-A1-DR02	9/28/2020	67.8	LVWPS-A1-DR02-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-DR02	12/13/2020	67.8	LVWPS-A1-DR02-20201213-1	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR02	12/14/2020	67.8	LVWPS-A1-DR02-20201214	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR02	12/29/2020	67.8	LVWPS-A1-DR02-INJ	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-DR02	1/12/2021	67.8	LVWPS-A1-DR02-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.8 **	16.7	ND	ND	ND	ND	ND	ND
LVWPS-A1-DR02	2/11/2021	67.8	LVWPS-A1-DR02-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.7 **	43.6	ND	ND	ND	ND	ND	ND
LVWPS-A1-DR02	3/15/2021	67.8	LVWPS-A1-DR02-EM05	EM05	Zone 1	ND	ND			ND	ND			562.4 **	34.7			ND	ND		
LVWPS-A1-DR02	4/13/2021	67.8	LVWPS-A1-DR02-EM06	EM06	Zone 1	ND	ND			ND	ND			563.1 **	19.7			ND	ND		
LVWPS-A1-MW04	9/30/2020	79.2	LVWPS-A1-MW04-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-MW04	12/29/2020	79.2	LVWPS-A1-MW04-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.2 **	25.6	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW04	1/13/2021	79.2	LVWPS-A1-MW04-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	561.0 **	2.34	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW04	2/9/2021	79.2	LVWPS-A1-MW04-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A1-MW04	3/9/2021	79.2	LVWPS-A1-MW04-EM05	EM05	Zone 1	ND	ND			ND	ND			563.0 **	1.95			ND	ND		
LVWPS-A1-MW04	4/7/2021	79.2	LVWPS-A1-MW04-EM06	EM06	Zone 1	ND	ND			ND	ND			562.6 **	1.14			ND	ND		
LVWPS-A1-MW05	9/30/2020	78.9	LVWPS-A1-MW05-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-MW05	12/29/2020	78.9	LVWPS-A1-MW05-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.3 **	39.7	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW05	1/15/2021	78.9	LVWPS-A1-MW05-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.3 **	14.0	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW05	2/10/2021	78.9	LVWPS-A1-MW05-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.1 **	36.3	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW05	3/10/2021	78.9	LVWPS-A1-MW05-EM05	EM05	Zone 1	ND	ND			ND	ND			562.3 **	29.9			ND	ND		
LVWPS-A1-MW05	4/8/2021	78.9	LVWPS-A1-MW05-EM06	EM06	Zone 1	ND	ND			ND	ND			562.2 **	25.5			ND	ND		
LVWPS-A1-MW06	9/29/2020	69.1	LVWPS-A1-MW06-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-MW06	12/28/2020	69.1	LVWPS-A1-MW06-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	563.2 **	44.5	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW06	1/14/2021	69.1	LVWPS-A1-MW06-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.6 **	34.2	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW06	2/9/2021	69.1	LVWPS-A1-MW06-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.2 **	37.5	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW06	3/9/2021	69.1	LVWPS-A1-MW06-EM05	EM05	Zone 1	ND	ND			ND	ND			562.3 **	39.9			ND	ND		
LVWPS-A1-MW06	4/9/2021	69.1	LVWPS-A1-MW06-EM06	EM06	Zone 1	ND	ND			ND	ND			562.6 **	24			ND	ND		
LVWPS-A1-MW07	9/30/2020	68.1	LVWPS-A1-MW07-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-MW07	12/29/2020	68.1	LVWPS-A1-MW07-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.1 **	32.3	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW07	1/14/2021	68.1	LVWPS-A1-MW07-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	561.9 **	21.0	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW07	2/10/2021	68.1	LVWPS-A1-MW07-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	561.7 **	22.4	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW07	3/9/2021	68.1	LVWPS-A1-MW07-EM05	EM05	Zone 1	ND	ND			ND	ND			562.3 **	34.8			ND	ND		
LVWPS-A1-MW07	4/7/2021	68.1	LVWPS-A1-MW07-EM06	EM06	Zone 1	ND	ND			ND	ND			562.0 **	29.3			ND	ND		
LVWPS-A1-MW09	9/30/2020	95.5	LVWPS-A1-MW09-BL04	BL04	Zone 1						40.5	ND	ND	 	4.00	ND	ND				
LVWPS-A1-MW09	1/13/2021	95.5	LVWPS-A1-MW09-EM02	EM02	Zone 1	ND	ND	ND	ND	515.4	10.5	ND	ND	561.7 **	4.93	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW09	2/11/2021	95.5	LVWPS-A1-MW09-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND 4.00			ND	ND		
LVWPS-A1-MW09	3/11/2021	95.5	LVWPS-A1-MW09-EM05	EM05	Zone 1	ND	ND			ND	ND			562.6 **	1.92			ND	ND		
LVWPS-A1-MW09	4/8/2021	95.5	LVWPS-A1-MW09-EM06	EM06	Zone 1	ND	ND			ND	ND			562.1 **	2.42			ND	ND		
LVWPS-A1-MW10	10/1/2020	80.5	LVWPS-A1-MW10-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-A1-MW10	10/1/2020	80.5	LVWPS-A1-MW10-BL04-FD	BL04	Zone 1						7.40	ND	ND	 500.4 **		ND	ND				
LVWPS-A1-MW10	1/13/2021	80.5	LVWPS-A1-MW10-EM02	EM02	Zone 1	ND	ND	ND	ND	515.3	7.16	ND	ND	562.1 **	34.4	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW10	2/8/2021	80.5	LVWPS-A1-MW10-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	560.8 **	4.60	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW10	3/9/2021	80.5	LVWPS-A1-MW10-EM05	EM05	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	564.6	1.30	ND	ND	ND	ND	ND	ND
LVWPS-A1-MW10	4/7/2021	80.5	LVWPS-A1-MW10-EM06	EM06	Zone 1	ND	ND			ND	ND			561.5 **	10.1			ND	ND		
LVWPS-A2-DR01A	9/28/2020	53.7	LVWPS-A2-DR01A-BL04	BL04	Zone 2							ND	ND			ND	ND				



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluore	escein	Fluore	escein		nine WT WT)	7 1.1.	nine WT WT)		damine B RB)	Sulforhoo (SR	
Location	Sample Date	bgs)	Sample 15	Lveiit	20116	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Ground	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-DR01A	12/7/2020	53.7	LVWPS-A2-DR01A-20201207	INJ	Zone 2			ND	ND			ND	ND			566.8	28.4			ND	ND
LVWPS-A2-DR01A	12/8/2020	53.7	LVWPS-A2-DR01A-20201208	INJ	Zone 2			ND	ND			ND	ND			565.8	286			ND	ND
LVWPS-A2-DR01A	12/9/2020	53.7	LVWPS-A2-DR01A-20201209	INJ	Zone 2			ND	ND			ND	ND			569.0	5,920			ND	ND
LVWPS-A2-DR01A	12/12/2020	53.7	LVWPS-A2-DR01A-INJ	INJ	Zone 2			ND	ND			ND	ND			566.5	104			ND	ND
LVWPS-A2-DR01A	12/20/2020	53.7	LVWPS-A2-DR01A-20201220	INJ	Zone 2			ND	ND			ND	ND			574.1	11.6			ND	ND
LVWPS-A2-DR01A	12/21/2020	53.7	LVWPS-A2-DR01A-20201221	INJ	Zone 2			ND	ND			ND	ND			574.1	9.77			ND	ND
LVWPS-A2-DR01A	1/12/2021	53.7	LVWPS-A2-DR01A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	574	567.0 **	44.1	ND	ND	ND	ND
LVWPS-A2-DR01A	2/12/2021	53.7	LVWPS-A2-DR01A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.1	84.7	567.0	23.6	ND	ND	ND	ND
LVWPS-A2-DR01A	3/15/2021	53.7	LVWPS-A2-DR01A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	41.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-DR01A	4/12/2021	53.7	LVWPS-A2-DR01A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.1	36.0	ND	ND	ND	ND	ND	ND
LVWPS-A2-DR01B	9/28/2020	94.5	LVWPS-A2-DR01B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-DR01B	12/7/2020	94.5	LVWPS-A2-DR01B-20201207	INJ	Zone 2			ND	ND			ND	ND			566.8	32.5			ND	ND
LVWPS-A2-DR01B	12/8/2020	94.5	LVWPS-A2-DR01B-20201208	INJ	Zone 2			ND	ND			ND	ND			566.2	22.2			ND	ND
LVWPS-A2-DR01B	12/9/2020	94.5	LVWPS-A2-DR01B-20201209	INJ	Zone 2			ND	ND			ND	ND			566.2	503			ND	ND
LVWPS-A2-DR01B	12/11/2020	94.5	LVWPS-A2-DR01B-INJ	INJ	Zone 2			ND	ND			ND	ND			566.2 **	379			ND	ND
LVWPS-A2-DR01B	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-1	INJ	Zone 2			ND	ND			ND	ND			568.0 **	115			ND	ND
LVWPS-A2-DR01B	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-2	INJ	Zone 2			ND	ND			ND	ND			567.1 **	168			ND	ND
LVWPS-A2-DR01B	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-3	INJ	Zone 2			ND	ND			ND	ND			567.0 **	223			ND	ND
LVWPS-A2-DR01B	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-4	INJ	Zone 2			ND	ND			ND	ND			567.0 **	272			ND	ND
LVWPS-A2-DR01B	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-1	INJ	Zone 2			ND	ND			ND	ND			567.2 **	146			ND	ND
LVWPS-A2-DR01B	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-2	INJ	Zone 2			ND	ND			ND	ND			567.0 **	381			ND	ND
LVWPS-A2-DR01B	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-3	INJ	Zone 2			ND	ND			ND	ND			567.2 **	107			ND	ND
LVWPS-A2-DR01B	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-4	INJ	Zone 2			ND	ND			ND	ND			567.6 **	126			ND	ND
LVWPS-A2-DR01B	1/12/2021	94.5	LVWPS-A2-DR01B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.7	2,170	567.7 **	95.5	ND	ND	ND	ND
LVWPS-A2-DR01B	2/12/2021	94.5	LVWPS-A2-DR01B-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.3	18.6	568.2 **	111	ND	ND	ND	ND
LVWPS-A2-DR01B	3/15/2021	94.5	LVWPS-A2-DR01B-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	569.1	1,240	568.0 **	59.7	ND	ND	ND	ND
LVWPS-A2-DR01B	4/12/2021	94.5	LVWPS-A2-DR01B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	569.1	609	575.0	44.5	ND	ND	ND	ND
LVWPS-A2-DR02A	9/28/2020	43.9	LVWPS-A2-DR02A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-DR02A	12/7/2020	43.9	LVWPS-A2-DR02A-20201207	INJ	Zone 2			ND	ND			ND	ND			566.1	326			ND	ND
LVWPS-A2-DR02A	12/8/2020	43.9	LVWPS-A2-DR02A-20201208	INJ	Zone 2			ND	ND			ND	ND			566.2	13.5			ND	ND
LVWPS-A2-DR02A	12/9/2020	43.9	LVWPS-A2-DR02A-20201209	INJ	Zone 2			ND	ND			ND	ND			567.0	189			ND	ND
LVWPS-A2-DR02A	12/9/2020	43.9	LVWPS-A2-DR02A-20201209	INJ	Zone 2			ND	ND			ND	ND			567.0	216			ND	ND
LVWPS-A2-DR02A	12/12/2020	43.9	LVWPS-A2-DR02A-INJ	INJ	Zone 2			ND	ND			ND	ND			567.1	72.7			ND	ND
LVWPS-A2-DR02A	12/20/2020	43.9	LVWPS-A2-DR02A-20201220	INJ	Zone 2			ND	ND			ND	ND			573.1	0.323			ND	ND
LVWPS-A2-DR02A	12/21/2020	43.9	LVWPS-A2-DR02A-20201221	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A2-DR02A	1/12/2021	43.9	LVWPS-A2-DR02A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.6	29.9	ND 574.0	ND 4.05	ND	ND	ND	ND
LVWPS-A2-DR02A	2/12/2021	43.9	LVWPS-A2-DR02A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.6	7.09	574.2	1.95	ND	ND	ND	ND
LVWPS-A2-DR02A	3/15/2021	43.9	LVWPS-A2-DR02A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.9	8.79	573.2	4.70	ND	ND	ND	ND
LVWPS-A2-DR02A	4/12/2021	43.9	LVWPS-A2-DR02A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.7	13.1	573.7	4.39	ND	ND	ND	ND
LVWPS-A2-DR02B	9/28/2020	67.7	LVWPS-A2-DR02B-BL04	BL04	Zone 2				ND			ND 506.0	ND			ND 572.4	ND 0.244				ND.
LVWPS-A2-DR02B	12/7/2020	67.7	LVWPS-A2-DR02B-20201207	INJ	Zone 2			ND ND	ND			506.0	0.022			573.4	0.244			ND	ND
LVWPS-A2-DR02B	12/8/2020	67.7	LVWPS-A2-DR02B-20201208	INJ	Zone 2			ND	ND			ND	ND			566.2	115 08.0			ND	ND
LVWPS-A2-DR02B	12/9/2020	67.7	LVWPS-A2-DR02B-20201209	INJ	Zone 2			ND	ND			ND	ND			566.9	98.0			ND	ND
LVWPS-A2-DR02B	12/12/2020	67.7	LVWPS-A2-DR02B-INJ	INJ	Zone 2			ND	ND			ND 515.1 **	ND 20 1			566.6	250			ND	ND
LVWPS-A2-DR02B LVWPS-A2-DR02B	12/20/2020		LVWPS-A2-DR02B-20201220-1	INJ	Zone 2			ND	ND			515.1 **	28.1			566.7 **	275			ND	ND ND
LVWPS-A2-DR02B	12/20/2020 12/20/2020		LVWPS-A2-DR02B-20201220-2 LVWPS-A2-DR02B-20201220-3		Zone 2			ND ND	ND ND			515.5 ** 515.6 **	15.1 35.6			567.0 ** 566.1 **	246			ND ND	ND ND
					Zone 2			 									71.9				
LVWPS-A2-DR02B	12/20/2020		LVWPS-A2-DR02B-20201220-4	INJ	Zone 2			ND	ND			515.3 **	28.8			566.9 **	258			ND	ND
LVWPS-A2-DR02B	12/21/2020		LVWPS-A2-DR02B-20201221-1	INJ	Zone 2			ND	ND			516.1 **	37.2			566.2 **	134			ND	ND
LVWPS-A2-DR02B	12/21/2020		LVWPS-A2-DR02B-20201221-2		Zone 2			ND	ND			515.9 **	58.9			566.5 **	204			ND	ND
LVWPS-A2-DR02B	12/21/2020		LVWPS-A2-DR02B-20201221-3		Zone 2			ND	ND			515.5 **	46.5			565.4 **	25.7			ND	ND
LVWPS-A2-DR02B	12/21/2020	67.7	LVWPS-A2-DR02B-20201221-4	INJ	Zone 2			ND	ND			515.5 **	45.7			566.5 **	48.0			ND	ND



Location	Sample Date	Depth (ft	Sample ID	Event	7000	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein		nine WT WT)	1 1.1	nine WT WT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Char	rcoal	Groun	ndwater	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-DR02B	1/12/2021	67.7	LVWPS-A2-DR02B-EM02	EM02	Zone 2	ND	ND	ND	ND	516.3	24.4	515.4 **	11.6	567.4	57.4	565.9 **	24.5	ND	ND	ND	ND
LVWPS-A2-DR02B	2/12/2021	67.7	LVWPS-A2-DR02B-EM04	EM04	Zone 2	ND	ND	ND	ND	516.8	33.5	514.6 **	15.6	566.2	168	566.9 **	59.0	ND	ND	ND	ND
LVWPS-A2-DR02B	3/15/2021	67.7	LVWPS-A2-DR02B-EM05	EM05	Zone 2	ND	ND	ND	ND	516.1	40.8	517.4 **	13.8	567.1	87.4	567.0 **	17.0	ND	ND	ND	ND
LVWPS-A2-DR02B	4/12/2021	67.7	LVWPS-A2-DR02B-EM06	EM06	Zone 2	ND	ND	ND	ND	515.8	14.2	507.3	1.83	567.2	51.2	573.8	6.61	ND	ND	ND	ND
LVWPS-A2-MW01A	10/8/2020	49.8	LVWPS-A2-MW01A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW01A	12/12/2020	49.8	LVWPS-A2-MW01A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01A	12/23/2020	49.8	LVWPS-A2-MW01A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01A	1/13/2021	49.8	LVWPS-A2-MW01A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01A	1/25/2021	49.8	LVWPS-A2-MW01A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01A	2/10/2021	49.8	LVWPS-A2-MW01A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01A	3/10/2021	49.8	LVWPS-A2-MW01A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND ND			ND	ND		
LVWPS-A2-MW01A	4/7/2021	49.8	LVWPS-A2-MW01A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	10/8/2020	79.7	LVWPS-A2-MW01B-BL04	BL04	Zone 2			-	_		†	ND	ND			ND	ND				
	12/15/2020	79.7	LVWPS-A2-MW01B-INJ					ND	ND			ND ND	ND			573.6	0.135			ND.	ND
				INJ	Zone 2	AID.					AID.		<u> </u>		AID.					ND	
LVWPS-A2-MW01B	12/23/2020	79.7	LVWPS-A2-MW01B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	1/13/2021	79.7	LVWPS-A2-MW01B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	1/25/2021	79.7	LVWPS-A2-MW01B-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	2/10/2021	79.7	LVWPS-A2-MW01B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	3/10/2021	79.7	LVWPS-A2-MW01B-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW01B	4/7/2021	79.7	LVWPS-A2-MW01B-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	10/8/2020	49.8	LVWPS-A2-MW02A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW02A	10/8/2020	49.8	LVWPS-A2-MW02A-BL04-FD	BL04	Zone 2		-					ND	ND			ND	ND				
LVWPS-A2-MW02A	12/12/2020	49.8	LVWPS-A2-MW02A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	12/23/2020	49.8	LVWPS-A2-MW02A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	1/12/2021	49.8	LVWPS-A2-MW02A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	1/25/2021	49.8	LVWPS-A2-MW02A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	2/9/2021	49.8	LVWPS-A2-MW02A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	3/9/2021	49.8	LVWPS-A2-MW02A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02A	4/7/2021	49.8	LVWPS-A2-MW02A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	10/8/2020	79.9	LVWPS-A2-MW02B-BL04	BL04	Zone 2							ND	ND			ND	ND				
	12/12/2020	79.9	LVWPS-A2-MW02B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	12/23/2020	79.9	LVWPS-A2-MW02B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	1/13/2021	79.9	LVWPS-A2-MW02B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	1/25/2021	79.9	LVWPS-A2-MW02B-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	2/10/2021	79.9	LVWPS-A2-MW02B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW02B	3/10/2021	79.9	LVWPS-A2-MW02B-EM05	EM05	Zone 2	ND	ND	-		ND	ND	ł	ł	ND	ND		-		ND	-	
LVWPS-A2-MW02B	4/9/2021	79.9	LVWPS-A2-MW02B-EM06	EM06			ND			ND ND	ND ND			ND				ND	ND		
LVWPS-A2-MW03A	10/9/2020	47.9			Zone 2	ND					-	ND	ND		ND	ND	ND	ND			
			LVWPS-A2-MW03A-BL04	BL04	Zone 2							ND									
LVWPS-A2-MW03A	10/9/2020	47.9	LVWPS-A2-MW03A-BL04-FD	BL04	Zone 2	AUD.					AUD.	ND	ND	 500.0 **		ND	ND				
	12/12/2020	47.9	LVWPS-A2-MW03A-INJ	INJ	Zone 2	ND	ND			ND	ND			562.0 **	2.46			ND	ND		
	12/23/2020	47.9	LVWPS-A2-MW03A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03A	1/14/2021	47.9	LVWPS-A2-MW03A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	562.6 **	1.59	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW03A	1/25/2021	47.9	LVWPS-A2-MW03A-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	561.1 **	1.10	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW03A	2/10/2021	47.9	LVWPS-A2-MW03A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	563.3 **	1.68	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW03A	3/10/2021	47.9	LVWPS-A2-MW03A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03A	4/5/2021	47.9	LVWPS-A2-MW03A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03B	10/9/2020	73.8	LVWPS-A2-MW03B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW03B	12/12/2020	73.8	LVWPS-A2-MW03B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03B	12/23/2020	73.8	LVWPS-A2-MW03B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03B	1/14/2021	73.8	LVWPS-A2-MW03B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03B	1/26/2021	73.8	LVWPS-A2-MW03B-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
•	2/10/2021	73.8	LVWPS-A2-MW03B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		



Location	Sample Date	Depth (ft	Sample ID	Event	Zono	Eos	sine	Eos	sine	Fluore	escein	Fluore	escein	Rhodan (R\	nine WT WT)	Rhodan (RV	nine WT VT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-MW03B	3/10/2021	73.8	LVWPS-A2-MW03B-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW03B	4/6/2021	73.8	LVWPS-A2-MW03B-EM06	EM06	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A2-MW04A	10/2/2020	53.7	LVWPS-A2-MW04A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW04A	12/14/2020	53.7	LVWPS-A2-MW04A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	12/14/2020	53.7	LVWPS-A2-MW04A-INJ-FD	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	12/22/2020	53.7	LVWPS-A2-MW04A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	12/22/2020	53.7	LVWPS-A2-MW04A-EM01-FD	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	1/12/2021	53.7	LVWPS-A2-MW04A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	1/12/2021	53.7	LVWPS-A2-MW04A-EM02-FD	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	1/26/2021	53.7	LVWPS-A2-MW04A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	1/26/2021	53.7	LVWPS-A2-MW04A-EM03-FD	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	2/9/2021	53.7	LVWPS-A2-MW04A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	2/9/2021	53.7	LVWPS-A2-MW04A-EM04-FD	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	3/9/2021	53.7	LVWPS-A2-MW04A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	4/6/2021	53.7	LVWPS-A2-MW04A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04B	10/2/2020	84.9	LVWPS-A2-MW04B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW04B	12/14/2020	84.9	LVWPS-A2-MW04B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04B	12/22/2020	84.9	LVWPS-A2-MW04B-EM01	EM01	Zone 2	539.6	4.39	ND	ND	515.6	1.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW04B	1/12/2021	84.9	LVWPS-A2-MW04B-EM02	EM02	Zone 2	ND	ND	ND	ND	515.2	100	507.1	0.442	567.4	1.94	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW04B	1/26/2021	84.9	LVWPS-A2-MW04B-EM03	EM03	Zone 2	ND	ND	ND	ND	514.7	5.70	ND	ND	566.0	1.10	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW04B	2/9/2021	84.9	LVWPS-A2-MW04B-EM04	EM04	Zone 2	ND	ND	ND	ND	515.2	16.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW04B	3/9/2021	84.9	LVWPS-A2-MW04B-EM05	EM05	Zone 2	ND	ND	ND	ND	515.2	23.5	506.2	0.152	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW04B	4/6/2021	84.9	LVWPS-A2-MW04B-EM06	EM06	Zone 2	ND	ND	ND	ND	515.4	5.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW05A	10/5/2020	43.9	LVWPS-A2-MW05A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW05A	12/12/2020	43.9	LVWPS-A2-MW05A-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.8	16,000	567.3	157	ND	ND	ND	ND
LVWPS-A2-MW05A	12/22/2020	43.9	LVWPS-A2-MW05A-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.4	5,110	574.9	43.2	ND	ND	ND	ND
LVWPS-A2-MW05A	1/13/2021	43.9	LVWPS-A2-MW05A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	569.7	1,510	566.3 **	19.2	ND	ND	ND	ND
LVWPS-A2-MW05A	1/26/2021	43.9	LVWPS-A2-MW05A-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	570.1	79.6	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW05A	2/9/2021	43.9	LVWPS-A2-MW05A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.8	5.54	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW05A	3/10/2021	43.9	LVWPS-A2-MW05A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.3	10.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW05A	4/7/2021	43.9	LVWPS-A2-MW05A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.8	2.63	571.2 **	1.24	ND	ND	ND	ND
LVWPS-A2-MW05B	10/5/2020	66	LVWPS-A2-MW05B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW05B	12/12/2020	66	LVWPS-A2-MW05B-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.6	3,900	566.7	271	ND	ND	ND	ND
LVWPS-A2-MW05B	12/12/2020	66	LVWPS-A2-MW05B-INJ-FD	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.4	3,430	566.7	271	ND	ND	ND	ND
LVWPS-A2-MW05B	12/22/2020	66	LVWPS-A2-MW05B-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.0	13,800	566.6 **	98.3	ND	ND	ND	ND
LVWPS-A2-MW05B	12/22/2020	66	LVWPS-A2-MW05B-EM01-FD	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.9	17,200	566.8 **	59.9	ND	ND	ND	ND
LVWPS-A2-MW05B	1/13/2021	66	LVWPS-A2-MW05B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.6	2,250	567.1 **	51.0	ND	ND	ND	ND
LVWPS-A2-MW05B	1/13/2021	66	LVWPS-A2-MW05B-EM02-FD	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.6	1,750	567.3 **	46.8	ND	ND	ND	ND
LVWPS-A2-MW05B	1/26/2021 1/26/2021	66 66	LVWPS-A2-MW05B-EM03	EM03 EM03	Zone 2	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	569.1 569.3	1,750	567.1 ** 566.7 **	26.5 19.2	ND ND	ND ND	ND ND	ND ND
LVWPS-A2-MW05B	2/9/2021	66 66	LVWPS-A2-MW05B-EM03-FD LVWPS-A2-MW05B-EM04	EM04	Zone 2	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	569.3	2,430	574.3	19.2 21.4	ND ND	ND ND	ND ND	ND ND
LVWPS-A2-MW05B		1			Zone 2										1,680						
LVWPS-A2-MW05B LVWPS-A2-MW05B	2/9/2021 3/10/2021	66 66	LVWPS-A2-MW05B-EM04-FD LVWPS-A2-MW05B-EM05	EM04 EM05	Zone 2 Zone 2	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	567.1 567.2	3,510 4,820	574.3 574.3	22.7 18.9	ND ND	ND ND	ND ND	ND ND
		1																			
LVWPS-A2-MW05B LVWPS-A2-MW08A	4/7/2021 9/30/2020	66 47.6	LVWPS-A2-MW05B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND ND	ND ND	568.3	1830	574.1 ND	11.9 ND	ND	ND	ND	ND
LVWPS-A2-MW08A	12/14/2020	47.6	LVWPS-A2-MW08A-BL04 LVWPS-A2-MW08A-INJ	BL04 INJ	Zone 2 Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW08A	12/14/2020	47.6	LVWPS-A2-MW08A-EM01	EM01		539.4	3.49	ND	ND	ND ND	ND ND	ND	ND	565.0	5.00	ND	ND	ND ND	ND ND	ND	ND
LVWPS-A2-MW08A LVWPS-A2-MW08A	1/15/2021	47.6			Zone 2					ND ND	ND ND	ND ND	ND ND	567.2		573.5		ND ND	ND ND	ND ND	ND ND
			LVWPS-A2-MW08A-EM02	EM02	Zone 2	539.4	3.17	ND	ND						126		4.44 ND				
LVWPS-A2-MW08A	1/26/2021	47.6	LVWPS-A2-MW08A-EM03	EM03	Zone 2	539.9	1.07	ND	ND	ND	ND	ND	ND	567.2	6.06	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08A	2/10/2021	47.6	LVWPS-A2-MW08A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.6	3.40	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08A	3/10/2021	47.6	LVWPS-A2-MW08A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	46.0	ND 570.0	ND 0.001	ND	ND	ND	ND
LVWPS-A2-MW08A	4/6/2021	47.6	LVWPS-A2-MW08A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.4	42	572.8	0.891	ND	ND	ND	ND



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluore	escein	Fluor	escein	Rhodan (RV	nine WT VT)		mine WT WT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample 15	Lveiit	Zone	Chai	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	ndwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-MW08B	10/1/2020	69.3	LVWPS-A2-MW08B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW08B	12/14/2020	69.3	LVWPS-A2-MW08B-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.9	31.6	574.2	0.305	ND	ND	ND	ND
LVWPS-A2-MW08B	12/23/2020	69.3	LVWPS-A2-MW08B-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.0	56.7	576.7	0.089	ND	ND	ND	ND
LVWPS-A2-MW08B	1/15/2021	69.3	LVWPS-A2-MW08B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.9	27.5	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08B	1/26/2021	69.3	LVWPS-A2-MW08B-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW08B	2/10/2021	69.3	LVWPS-A2-MW08B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW08B	3/10/2021	69.3	LVWPS-A2-MW08B-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	562.6 **	0.758	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08B	4/9/2021	69.3	LVWPS-A2-MW08B-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW08C	10/1/2020	95.9	LVWPS-A2-MW08C-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW08C	12/14/2020	95.9	LVWPS-A2-MW08C-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	648	574.4	0.640	ND	ND	ND	ND
LVWPS-A2-MW08C	12/23/2020	95.9	LVWPS-A2-MW08C-EM01	EM01	Zone 2	ND	ND	ND	ND	516.1	377	515.2 **	4.82	568.3	287	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08C	1/15/2021	95.9	LVWPS-A2-MW08C-EM02	EM02	Zone 2	ND	ND	ND	ND	515.4	108	507.7	1.56	567.5	50.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08C	1/28/2021	95.9	LVWPS-A2-MW08C-EM03	EM03	Zone 2	ND	ND	ND	ND	515.1	86.0	518.8 **	1.92	567.7	18.6	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08C	2/10/2021	95.9	LVWPS-A2-MW08C-EM04	EM04	Zone 2	ND	ND	ND	ND	515.3	98.9	507.6	0.577	567.5	52.8	574.8	1.54	ND	ND	ND	ND
LVWPS-A2-MW08C	3/10/2021	95.9	LVWPS-A2-MW08C-EM05	EM05	Zone 2	ND	ND	ND	ND	515.1	56.7	506.2	0.427	567.7	70.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW08C	4/9/2021	95.9	LVWPS-A2-MW08C-EM06	EM06	Zone 2	ND	ND	ND	ND	515.5	27.1	506.9	0.098	567.1	33.1	574	0.351	ND	ND	ND	ND
LVWPS-A2-MW09A	10/9/2020	44.5	LVWPS-A2-MW09A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW09A	12/12/2020	44.5	LVWPS-A2-MW09A-INJ	INJ	Zone 2	539.4	15.2	ND	ND	ND	ND	ND	ND	566.6	109	573.8	0.643	ND	ND	ND	ND
LVWPS-A2-MW09A	12/22/2020	44.5	LVWPS-A2-MW09A-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	695	573.8	13.2	ND	ND	ND	ND
LVWPS-A2-MW09A	1/11/2021	44.5	LVWPS-A2-MW09A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	262	572.7	8.11	ND	ND	ND	ND
LVWPS-A2-MW09A	1/26/2021	44.5	LVWPS-A2-MW09A-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.3	63.4	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09A	2/8/2021	44.5	LVWPS-A2-MW09A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	80.4	574.2	0.062	ND	ND	ND	ND
LVWPS-A2-MW09A	3/8/2021	44.5	LVWPS-A2-MW09A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	276	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09A	4/5/2021	44.5	LVWPS-A2-MW09A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	566.8	62	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	10/9/2020	68.5	LVWPS-A2-MW09B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW09B	12/12/2020	68.5	LVWPS-A2-MW09B-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	563.6 **	10.6	575.9	0.243	ND	ND	ND	ND
LVWPS-A2-MW09B	12/22/2020	68.5	LVWPS-A2-MW09B-EM01	EM01	Zone 2	538.9 **	6.99	ND	ND	ND	ND	ND	ND	564.8	6.62	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	1/14/2021	68.5	LVWPS-A2-MW09B-EM02	EM02	Zone 2	538.4 **	2.60	ND	ND	ND	ND	ND	ND	567.6	72.2	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	1/27/2021	68.5	LVWPS-A2-MW09B-EM03	EM03	Zone 2	538.0 **	1.14	ND	ND	ND	ND	ND	ND	568.1	99.3	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	2/8/2021	68.5	LVWPS-A2-MW09B-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	80.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	3/8/2021	68.5	LVWPS-A2-MW09B-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.0	185	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW09B	4/5/2021	68.5	LVWPS-A2-MW09B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.2	135	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW11A	10/2/2020	50.2	LVWPS-A2-MW11A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW11A	12/14/2020	50.2	LVWPS-A2-MW11A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	12/23/2020	50.2	LVWPS-A2-MW11A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	1/13/2021	50.2	LVWPS-A2-MW11A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	1/27/2021	50.2	LVWPS-A2-MW11A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	2/9/2021	50.2	LVWPS-A2-MW11A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	3/9/2021	50.2	LVWPS-A2-MW11A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11A	4/6/2021	50.2	LVWPS-A2-MW11A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	10/2/2020	75	LVWPS-A2-MW11B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW11B	12/14/2020	75	LVWPS-A2-MW11B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	12/23/2020	75	LVWPS-A2-MW11B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	1/13/2021	75	LVWPS-A2-MW11B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	1/27/2021	75	LVWPS-A2-MW11B-EM03	EM03	Zone 2	ND	ND ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	2/8/2021	75	LVWPS-A2-MW11B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	3/9/2021	75	LVWPS-A2-MW11B-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11B	4/6/2021	75	LVWPS-A2-MW11B-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	10/2/2020	99.9	LVWPS-A2-MW11C-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW11C	12/14/2020	99.9	LVWPS-A2-MW11C-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	12/14/2020	99.9	LVWPS-A2-MW11C-EM01	EM01	Zone 2	ND	ND			ND ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	1/14/2021	99.9	LVWPS-A2-MW11C-EM02	EM02		ND	ND	-	-	ND ND	ND ND			ND ND	ND	-		ND ND	ND		
LVVVF 3-AZ-IVIVV I IC	1/ 14/2021	33.3	LV VVF O-AZ-IVIVV I IC-EIVIUZ	LIVIUZ	Zone 2	טאו	ן ואט			טאו	ן ואט			טאו	טאו			חאר	חאר		



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein		nine WT WT)	7 1.1.	nine WT WT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Chai	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)								
LVWPS-A2-MW11C	1/27/2021	99.9	LVWPS-A2-MW11C-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	2/9/2021	99.9	LVWPS-A2-MW11C-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	3/10/2021	99.9	LVWPS-A2-MW11C-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11C	4/6/2021	99.9	LVWPS-A2-MW11C-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	561.2 **	5.88	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW12A	10/6/2020	39.5	LVWPS-A2-MW12A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW12A	12/12/2020	39.5	LVWPS-A2-MW12A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW12A	12/22/2020	39.5	LVWPS-A2-MW12A-EM01	EM01	Zone 2	539.4	2.84			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW12A	1/11/2021	39.5	LVWPS-A2-MW12A-EM02	EM02	Zone 2	538.5 **	7.36			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW12A	1/27/2021	39.5	LVWPS-A2-MW12A-EM03	EM03	Zone 2	ND	ND	ND	ND	515.0	1.31	ND	ND	567.3	13.0	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW12A	2/8/2021	39.5	LVWPS-A2-MW12A-EM04	EM04	Zone 2	ND	ND	ND	ND	514.9	1.73	ND	ND	567.7	145	572.8	15.1	ND	ND	ND	ND
LVWPS-A2-MW12A	3/8/2021	39.5	LVWPS-A2-MW12A-EM05	EM05	Zone 2	ND	ND	ND	ND	514.8	2.24	ND	ND	567.6	340	573.6	15.9	ND	ND	ND	ND
LVWPS-A2-MW12A	4/5/2021	39.5	LVWPS-A2-MW12A-EM06	EM06	Zone 2	ND	ND	ND	ND	515	1.3	ND	ND	567.4	302	573.7	16.1	ND	ND	ND	ND
LVWPS-A2-MW12B	10/7/2020	59	LVWPS-A2-MW12B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW12B	12/12/2020	59	LVWPS-A2-MW12B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW12B	12/22/2020	59	LVWPS-A2-MW12B-EM01	EM01	Zone 2	539.8	5.04	ND	ND	ND	ND	ND	ND	567.6	205	566.9 **	8.14	ND	ND	ND	ND
LVWPS-A2-MW12B	1/12/2021	59	LVWPS-A2-MW12B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	789	572.8	6.01	ND	ND	ND	ND
LVWPS-A2-MW12B	1/27/2021	59	LVWPS-A2-MW12B-EM03	EM03	Zone 2	ND	ND	ND	ND	514.5	1.04	ND	ND	567.5	23.1	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW12B	2/8/2021	59	LVWPS-A2-MW12B-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	78.4	573.3	1.39	ND	ND	ND	ND
LVWPS-A2-MW12B	3/8/2021	59	LVWPS-A2-MW12B-EM05	EM05	Zone 2	ND	ND	ND	ND	514.9	1.48	ND	ND	567.9	34.4	573.8	2.30	ND	ND	ND	ND
LVWPS-A2-MW12B	4/5/2021	59	LVWPS-A2-MW12B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567	16.4	573.9	1.02	ND	ND	ND	ND
LVWPS-A2-MW13A	10/1/2020	50.8	LVWPS-A2-MW13A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW13A	12/12/2020	50.8	LVWPS-A2-MW13A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW13A	12/22/2020	50.8	LVWPS-A2-MW13A-EM01	EM01	Zone 2	538.9 **	16.9			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW13A	1/11/2021	50.8	LVWPS-A2-MW13A-EM02	EM02	Zone 2	539.5	2.98	ND	ND	ND	ND	ND	ND	567.2	20.8	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW13A	1/27/2021	50.8	LVWPS-A2-MW13A-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.1	438	572.2	5.47	ND	ND	ND	ND
LVWPS-A2-MW13A	2/10/2021	50.8	LVWPS-A2-MW13A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.0	762	574.2	0.986	ND	ND	ND	ND
LVWPS-A2-MW13A	3/11/2021	50.8	LVWPS-A2-MW13A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.6	1,640	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW13A	4/7/2021	50.8	LVWPS-A2-MW13A-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568	843	574.2	0.697	ND	ND	ND	ND
LVWPS-A2-MW13B	10/1/2020	76.1	LVWPS-A2-MW13B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW13B	12/12/2020	76.1	LVWPS-A2-MW13B-INJ	INJ	Zone 2	538.9 **	12.1	ND	ND	ND	ND	ND	ND	565.7	31.9	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW13B	12/22/2020	76.1	LVWPS-A2-MW13B-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.0	906	572.8	14.9	ND	ND	ND	ND
LVWPS-A2-MW13B	1/12/2021	76.1	LVWPS-A2-MW13B-EM02	EM02	Zone 2	ND	ND	ND	ND	515.0	11.2	ND	ND	568.0	549	573.5	8.29	ND	ND	ND	ND
LVWPS-A2-MW13B	1/27/2021	76.1	LVWPS-A2-MW13B-EM03	EM03	Zone 2	ND	ND	ND	ND	515.1	8.78	ND	ND	567.6	456	562.2 **	24.9	ND	ND	ND	ND
LVWPS-A2-MW13B	2/10/2021	76.1	LVWPS-A2-MW13B-EM04	EM04	Zone 2	ND	ND	ND	ND	515.3	3.45	ND	ND	567.1	190	574.2	7.01	ND	ND	ND	ND
LVWPS-A2-MW13B	3/11/2021	76.1	LVWPS-A2-MW13B-EM05	EM05	Zone 2	ND	ND	ND	ND	515.1	8.94	ND	ND	567.9	488	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW13B	4/7/2021	76.1	LVWPS-A2-MW13B-EM06	EM06	Zone 2	ND	ND	ND	ND	515.2	4.93	ND	ND	567.6	172	573.2	2.11	ND	ND	ND	ND
LVWPS-A2-MW14A	10/6/2020	42.9	LVWPS-A2-MW14A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW14A	10/6/2020	42.9	LVWPS-A2-MW14A-BL04-FD	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW14A	12/12/2020	42.9	LVWPS-A2-MW14A-INJ	INJ	Zone 2	538.7 **	14.4	ND	ND	ND	ND	ND	ND	564.0 **	13.9	574.4	1.26	ND	ND	ND	ND
LVWPS-A2-MW14A	12/12/2020	42.9	LVWPS-A2-MW14A-INJ-FD	INJ	Zone 2	538.7 **	16.0	ND	ND	ND	ND	ND	ND	566.6	11.8	574.2	1.85	ND	ND	ND	ND
LVWPS-A2-MW14A	12/22/2020	42.9	LVWPS-A2-MW14A-EM01	EM01	Zone 2	539.4	15.2	ND	ND	ND	ND	ND	ND	566.6	38.6	573.6	1.44	ND	ND	ND	ND
LVWPS-A2-MW14A	12/22/2020	42.9	LVWPS-A2-MW14A-EM01-FD	EM01	Zone 2	539.4	16.6	ND	ND	ND	ND	ND	ND	566.4	50.8	572.6	3.35	ND	ND	ND	ND
LVWPS-A2-MW14A	1/13/2021	42.9	LVWPS-A2-MW14A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.2	450	573.6	5.00	ND	ND	ND	ND
LVWPS-A2-MW14A	1/13/2021	42.9	LVWPS-A2-MW14A-EM02-FD	EM02	Zone 2	ND ND	ND	ND	ND	ND	ND ND	ND	ND	567.2	396	573.6	6.19	ND	ND	ND	ND
LVWPS-A2-MW14A	1/28/2021	42.9	LVWPS-A2-MW14A-EM03	EM03	Zone 2	ND	ND	ND	ND	514.4	1.62	ND	ND	568.3	294	566.2 **	19.2	ND	ND	ND	ND
LVWPS-A2-MW14A	1/28/2021	42.9	LVWPS-A2-MW14A-EM03-FD	EM03	Zone 2	ND	ND	ND	ND	514.8	1.43	ND	ND	567.8	293	563.5 **	23.1	ND	ND	ND	ND
LVWPS-A2-MW14A	2/9/2021	42.9	LVWPS-A2-MW14A-EM04	EM04	Zone 2	ND	ND	ND	ND	515.2	1.45	ND	ND	566.6	3,460	573.5	7.27	ND	ND	ND	ND
LVWPS-A2-MW14A	2/9/2021	42.9	LVWPS-A2-MW14A-EM04-FD	EM04	Zone 2	ND	ND	ND ND	ND	515.2	1.19	ND	ND	566.3	2,890	573.8	6.24	ND	ND	ND	ND
LVWPS-A2-MW14A	3/9/2021	42.9	LVWPS-A2-MW14A-EM05	EM05	Zone 2	ND	ND	ND ND	ND	ND	ND	ND	ND	567.2	1,510	573.8	3.36	ND	ND	ND	ND
LVWPS-A2-MW14A	4/6/2021	42.9	LVWPS-A2-MW14A-EM06	EM06	Zone 2	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND	567.4	1810	573.6	2.19	ND	ND	ND	ND
LVWPS-A2-MW14B	10/6/2020	64.5	LVWPS-A2-MW14B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW14B	12/12/2020	64.5	LVWPS-A2-MW14B-INJ	INJ	Zone 2	ND		ND	ND	ND	ND	ND	ND	564.0 **	5.37	573.4	0.222	ND	ND	ND	ND
LVVVF3-AZ-IVIVV 14B	12/12/2020	04.5	LVVVFO-AZ-IVIVV 14D-IINJ	IIIJ	ZUITE Z	ואט	ND	ן ואט	טא	חאר	ן ואט	חאח	רואם	504.0	0.37	5/3.4	U.ZZZ	רואף	חאו	טא	חאר



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT WT)	11.1.	nine WT WT)		damine B RB)	Sulforhoo (SR	
Location	Sample Date	bgs)	Sample ID	Event	Zone	Chai	rcoal	Groun	ndwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Ground	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-MW14B	12/22/2020	64.5	LVWPS-A2-MW14B-EM01	EM01	Zone 2	540.1	1.61	ND	ND	ND	ND	ND	ND	567.8	29.6	574.6	1.34	ND	ND	ND	ND
LVWPS-A2-MW14B	1/13/2021	64.5	LVWPS-A2-MW14B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.6	104	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW14B	1/25/2021	64.5	LVWPS-A2-MW14B-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	38.0	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW14B	2/9/2021	64.5	LVWPS-A2-MW14B-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	48.2	574.9	0.908	ND	ND	ND	ND
LVWPS-A2-MW14B	3/10/2021	64.5	LVWPS-A2-MW14B-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.6	216	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW14B	4/6/2021	64.5	LVWPS-A2-MW14B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.5	100	572.8	0.181	ND	ND	ND	ND
LVWPS-A2-MW15A	10/7/2020	49.5	LVWPS-A2-MW15A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW15A	12/14/2020	49.5	LVWPS-A2-MW15A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	12/21/2020	49.5	LVWPS-A2-MW15A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	1/11/2021	49.5	LVWPS-A2-MW15A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	1/25/2021	49.5	LVWPS-A2-MW15A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	2/9/2021	49.5	LVWPS-A2-MW15A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	3/9/2021	49.5	LVWPS-A2-MW15A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15A	4/6/2021	49.5	LVWPS-A2-MW15A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	10/8/2020	79.9	LVWPS-A2-MW15B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW15B	12/14/2020	79.9	LVWPS-A2-MW15B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	12/22/2020	79.9	LVWPS-A2-MW15B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	1/12/2021	79.9	LVWPS-A2-MW15B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	1/26/2021	79.9	LVWPS-A2-MW15B-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	2/9/2021	79.9	LVWPS-A2-MW15B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	3/9/2021	79.9	LVWPS-A2-MW15B-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW15B	4/6/2021	79.9	LVWPS-A2-MW15B-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	10/9/2020	46	LVWPS-A2-MW16A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW16A	12/14/2020	46	LVWPS-A2-MW16A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	12/22/2020	46	LVWPS-A2-MW16A-EM01	EM01	Zone 2	ND	ND	ND	ND	514.2	1.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW16A	1/12/2021	46	LVWPS-A2-MW16A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	1/25/2021	46	LVWPS-A2-MW16A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	2/9/2021	46	LVWPS-A2-MW16A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	3/12/2021	46	LVWPS-A2-MW16A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16A	4/6/2021	46	LVWPS-A2-MW16A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	10/9/2020	70.5	LVWPS-A2-MW16B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW16B	12/14/2020	70.5	LVWPS-A2-MW16B-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	12/22/2020	70.5	LVWPS-A2-MW16B-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	1/12/2021	70.5	LVWPS-A2-MW16B-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	1/25/2021	70.5	LVWPS-A2-MW16B-EM03	EM03	Zone 2	540.0	0.973			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	2/9/2021	70.5	LVWPS-A2-MW16B-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW16B	3/12/2021	70.5	LVWPS-A2-MW16B-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND ND			ND	ND		
LVWPS-A2-MW16B	4/6/2021	70.5	LVWPS-A2-MW16B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	560.2 *	1.41	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17A	10/1/2020	50.1	LVWPS-A2-MW17A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW17A	12/14/2020	50.1	LVWPS-A2-MW17A-INJ	INJ	Zone 2	539.0 **	10.4			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW17A	12/22/2020	50.1	LVWPS-A2-MW17A-EM01	EM01	Zone 2	539.4	2.77	ND	ND	ND ND	ND	ND	ND	564.0 **	2.94	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17A	1/11/2021	50.1	LVWPS-A2-MW17A-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	119	572.2	2.96	ND	ND	ND	ND
LVWPS-A2-MW17A	1/26/2021	50.1	LVWPS-A2-MW17A-EM03	EM03	Zone 2	ND	ND	ND ND	ND	ND ND	ND	ND	ND	568.0	135	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17A	2/8/2021	50.1	LVWPS-A2-MW17A-EM04	EM04	Zone 2	ND	ND	ND ND	ND	ND ND	ND	ND	ND	567.2	289	574.2	2.15	ND	ND	ND	ND
LVWPS-A2-MW17A	3/8/2021	50.1	LVWPS-A2-MW17A-EM05	EM05	Zone 2	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND	567.2	604	ND	ND	ND	ND	ND ND	ND
LVWPS-A2-MW17A	4/5/2021	50.1	LVWPS-A2-MW17A-EM06	EM06	Zone 2	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	568	495	572.6	0.698	ND	ND	ND ND	ND
LVWPS-A2-MW17B	10/1/2020	75.2	LVWPS-A2-MW17B-BL04	BL04	Zone 2							ND ND	ND		495	ND	0.096 ND				
LVWPS-A2-WW17B	12/14/2020	75.2	LVWPS-A2-MW17B-INJ	INJ	Zone 2	ND	ND	-	 	ND	ND			ND	ND			ND	ND	ł	
LVWPS-A2-MW17B	12/14/2020			EM01				ND.	ND.			ND	ND.	567.2			ND.			ND.	ND.
		75.2	LVWPS-A2-MW17B-EM01		Zone 2	540.0	1.40	ND	ND	ND	ND	ND	ND		15.1	ND	ND	ND	ND ND	ND	ND
LVWPS-A2-MW17B	1/11/2021	75.2	LVWPS-A2-MW17B-EM02	EM02	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	568.0	110	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17B	1/26/2021	75.2	LVWPS-A2-MW17B-EM03	EM03	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	33.9	ND 570.0	ND 0.04	ND	ND	ND	ND
LVWPS-A2-MW17B	2/8/2021	75.2	LVWPS-A2-MW17B-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.0	51.1	572.2	2.91	ND	ND	ND	ND



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT WT)	11.1.	nine WT WT)		damine B RB)	Sulforhoo (SF	damine B RB)
Location	Sample Date	bgs)	Sample ID	Lvent	Zone	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A2-MW17B	3/8/2021	75.2	LVWPS-A2-MW17B-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.4	47.3	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17B	4/5/2021	75.2	LVWPS-A2-MW17B-EM06	EM06	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.7	37.2	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17C	10/1/2020	100	LVWPS-A2-MW17C-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-A2-MW17C	12/14/2020	100	LVWPS-A2-MW17C-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW17C	12/22/2020	100	LVWPS-A2-MW17C-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	567.9	300	573.6	23.2	ND	ND	ND	ND
LVWPS-A2-MW17C	1/11/2021	100	LVWPS-A2-MW17C-EM02	EM02	Zone 2	538.8 **	5.42			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW17C	1/26/2021	100	LVWPS-A2-MW17C-EM03	EM03	Zone 2	537.0 **	0.676	ND	ND	515.2	0.799	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17C	2/8/2021	100	LVWPS-A2-MW17C-EM04	EM04	Zone 2	ND	ND	ND	ND	515.4	0.482	508.2	0.588	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17C	3/8/2021	100	LVWPS-A2-MW17C-EM05	EM05	Zone 2	ND	ND	ND	ND	515.1	5.34	ND	ND	567.5	27.5	ND	ND	ND	ND	ND	ND
LVWPS-A2-MW17C	4/5/2021	100	LVWPS-A2-MW17C-EM06	EM06	Zone 2	ND	ND	ND	ND	515.5	39.8	506	0.05	567.5	224	573.4	1.13	ND	ND	ND	ND
LVWPS-A3-DR01	9/28/2020	65.5	LVWPS-A3-DR01-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-DR01	12/16/2020	65.5	LVWPS-A3-DR01-20201216	INJ	Zone 3			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A3-DR01	12/17/2020	65.5	LVWPS-A3-DR01-20201217	INJ	Zone 3			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A3-DR01	12/29/2020	65.5	LVWPS-A3-DR01-INJ	INJ	Zone 3			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A3-DR01	1/18/2021	65.5	LVWPS-A3-DR01-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-DR01	2/12/2021	65.5	LVWPS-A3-DR01-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-DR01	3/15/2021	65.5	LVWPS-A3-DR01-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-DR01	4/15/2021	65.5	LVWPS-A3-DR01-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW02	10/5/2020	62.5	LVWPS-A3-MW02-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW02	12/30/2020	62.5	LVWPS-A3-MW02-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW02	1/14/2021	62.5	LVWPS-A3-MW02-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW02	2/11/2021	62.5	LVWPS-A3-MW02-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW02	3/11/2021	62.5	LVWPS-A3-MW02-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW02	4/9/2021	62.5	LVWPS-A3-MW02-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW06	10/5/2020	64.9	LVWPS-A3-MW06-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW06	12/30/2020	64.9	LVWPS-A3-MW06-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW06	1/15/2021	64.9	LVWPS-A3-MW06-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW06	2/10/2021	64.9	LVWPS-A3-MW06-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW06	3/12/2021	64.9	LVWPS-A3-MW06-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW06	4/9/2021	64.9	LVWPS-A3-MW06-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	10/8/2020	64.5	LVWPS-A3-MW07-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW07	12/30/2020	64.5	LVWPS-A3-MW07-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	1/15/2021	64.5	LVWPS-A3-MW07-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	2/11/2021	64.5	LVWPS-A3-MW07-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	3/11/2021	64.5	LVWPS-A3-MW07-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	4/8/2021	64.5	LVWPS-A3-MW07-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	10/8/2020	94.4	LVWPS-A3-MW08-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW08	12/30/2020	94.4	LVWPS-A3-MW08-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	1/14/2021	94.4	LVWPS-A3-MW08-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	2/11/2021	94.4	LVWPS-A3-MW08-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	3/10/2021	94.4	LVWPS-A3-MW08-EM05	EM05	Zone 3	ND	ND			ND ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	4/9/2021	94.4	LVWPS-A3-MW08-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW10	10/5/2020	66.1	LVWPS-A3-MW10-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW10	1/14/2021	66.1	LVWPS-A3-MW10-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW10	2/11/2021	66.1	LVWPS-A3-MW10-EM04	EM04	Zone 3	ND	ND			ND ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW10	3/11/2021	66.1	LVWPS-A3-MW10-EM05	EM05	Zone 3	ND ND	ND			ND ND	ND ND			564.6	2.15			ND	ND		
LVWPS-A3-MW10	4/9/2021	66.1	LVWPS-A3-MW10-EM06	EM06	Zone 3	ND	ND			ND ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW11	10/7/2020	63.7	LVWPS-A3-MW11-BL04	BL04	Zone 3			-	-			ND	ND			ND	ND				
LVWPS-A3-MW11	1/15/2021	+	LVWPS-A3-MW11-EM02	EM02		ND	ND	ND.	ND	ND	ND.	ND ND		565.9	11.2			ND.	ND.	ND	ND
LVWPS-A3-MW11	2/11/2021	63.7 63.7	LVWPS-A3-MW11-EM04	EM04	Zone 3	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	564.8	11.2	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
LVWPS-A3-MW11		63.7	LVWPS-A3-MW11-EM04 LVWPS-A3-MW11-EM05	EM05	Zone 3				+	ND ND					2.15		-		ND ND		
	3/11/2021				Zone 3	ND	ND				ND			565.2	3.45			ND			
LVWPS-A3-MW11	4/8/2021	63.7	LVWPS-A3-MW11-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT VT)		nine WT WT)		damine B RB)	Sulforhoo (SF	damine B RB)
Location	Sample Date	bgs)	Sample ID	Lveiit	Zone	Cha	rcoal	Grour	dwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-A3-MW12	10/5/2020	69.1	LVWPS-A3-MW12-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-A3-MW12	1/13/2021	69.1	LVWPS-A3-MW12-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW12	2/12/2021	69.1	LVWPS-A3-MW12-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW12	3/12/2021	69.1	LVWPS-A3-MW12-EM05	EM05	Zone 3	ND	ND	ND	ND	518.8	7.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-A3-MW12	4/14/2021	69.1	LVWPS-A3-MW12-EM06	EM06	Zone 3	ND	ND	ND	ND	518.4	16.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-EW01	9/29/2020	64.4	LVWPS-EW01-BL04	BL04	Extraction							ND	ND			ND	ND				
LVWPS-EW02	9/29/2020	42.8	LVWPS-EW02-BL04	BL04	Extraction							ND	ND			ND	ND				
LVWPS-EW03	9/30/2020	54.8	LVWPS-EW03-BL04	BL04	Extraction							ND	ND			ND	ND				
LVWPS-EW04	9/30/2020	35.7	LVWPS-EW04-BL04	BL04	Extraction							ND	ND			ND	ND				
LVWPS-EW05	9/29/2020	64.9	LVWPS-EW05-BL04	BL04	Extraction							ND	ND			ND	ND				
LVWPS-EW05	9/29/2020	64.9	LVWPS-EW05-BL04-FD	BL04	Extraction							ND	ND			ND	ND				
LVWPS-MW204	9/28/2020	60	LVWPS-MW204-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW204	9/28/2020	60	LVWPS-MW204-BL04-FD		General Vicinity							ND	ND			ND	ND				
LVWPS-MW204B	9/28/2020	111.2	LVWPS-MW204B-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW207	9/28/2020	77.8	LVWPS-MW207-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW207	12/22/2020	77.8	LVWPS-MW207-EM01	EM01	General Vicinity	ND	ND	ND	ND	514.3	1.72	ND	ND	562.3 **	33.3	ND	ND	ND	ND	ND	ND
LVWPS-MW207	1/18/2021	77.8	LVWPS-MW207-EM02	EM02	General Vicinity	ND	ND	ND	ND	515.8	12.0	ND	ND	562.6 **	18.9	ND	ND	ND	ND	ND	ND
LVWPS-MW207	1/29/2021	77.8	LVWPS-MW207-EM03	EM03	General Vicinity	ND	ND	ND	ND	515.5	8.77	ND	ND	560.5 **	11.6	ND	ND	ND	ND	ND	ND
LVWPS-MW207	2/12/2021	77.8	LVWPS-MW207-EM04	EM04	General Vicinity	ND	ND	ND	ND	516.1	7.72	ND	ND	561.9 **	13.4	ND	ND	ND	ND	ND	ND
LVWPS-MW207	3/12/2021	77.8	LVWPS-MW207-EM05	EM05	General Vicinity	ND	ND	ND	ND	515.4	12.4	ND	ND	561.7 **	32.5	ND	ND	ND	ND	ND	ND
LVWPS-MW207	4/16/2021	77.8	LVWPS-MW207-EM06	EM06	General Vicinity	ND	ND	ND	ND	515.7	5.76	ND	ND	561.9 **	25.9	ND	ND	ND	ND	ND	ND
LVWPS-MW208A	10/9/2020	49.6	LVWPS-MW208A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW208A	12/12/2020	49.6	LVWPS-MW208A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW208A	12/23/2020	49.6	LVWPS-MW208A-EM01	EM01	Zone 2	539.5	0.792			ND	ND			ND	ND			ND	ND		
LVWPS-MW208A	1/13/2021	49.6	LVWPS-MW208A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW208A	1/27/2021	49.6	LVWPS-MW208A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW208A	2/10/2021	49.6	LVWPS-MW208A-EM04	EM04	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	564.7	2.16	ND	ND	ND	ND	ND	ND
LVWPS-MW208A	3/10/2021	49.6	LVWPS-MW208A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW208A	4/6/2021	49.6	LVWPS-MW208A-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW208B	10/9/2020	75	LVWPS-MW208B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW208B	12/12/2020	75	LVWPS-MW208B-INJ	INJ	Zone 2	538.5 **	0.641			ND	ND			ND	ND			ND	ND		
LVWPS-MW208B	12/23/2020	75	LVWPS-MW208B-EM01	EM01	Zone 2	539.7	10.7	ND	ND	ND	ND	ND	ND	567.6	139	ND	ND	ND	ND	ND	ND
LVWPS-MW208B	1/13/2021	75	LVWPS-MW208B-EM02	EM02	Zone 2	ND	ND	ND	ND	515.8	1.65	ND	ND	568.0	31.3	572.2	3.26	ND	ND	ND	ND
LVWPS-MW208B	1/27/2021	75	LVWPS-MW208B-EM03	EM03	Zone 2	ND	ND	ND	ND	514.4	1.26	ND	ND	568.6	16.8	ND	ND	ND	ND	ND	ND
LVWPS-MW208B	2/11/2021	75	LVWPS-MW208B-EM04	EM04	Zone 2	ND	ND	ND	ND	515.5	23.6	506.8	0.017	567.4	594	573.7	0.891	ND	ND	ND	ND
LVWPS-MW208B	3/10/2021	75	LVWPS-MW208B-EM05	EM05	Zone 2	ND	ND	ND	ND	514.7	2.06	ND	ND	567.9	73.9	573.8	3.03	ND	ND	ND	ND
LVWPS-MW208B	4/6/2021	75	LVWPS-MW208B-EM06	EM06	Zone 2	ND	ND	ND	ND	514.5	0.71	ND	ND	567.4	29.2	573.3	1.33	ND	ND	ND	ND
LVWPS-MW209	10/6/2020	80.7	LVWPS-MW209-BL04		General Vicinity							ND	ND			ND	ND				
LVWPS-MW209	12/21/2020	80.7	LVWPS-MW209-EM01		General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW209	1/18/2021	80.7	LVWPS-MW209-EM02	_	General Vicinity	541.0	2.14	ND	ND	ND	ND	ND	ND	565.6	17.4	ND	ND	ND	ND	ND	ND
LVWPS-MW209	1/27/2021	80.7	LVWPS-MW209-EM03	EM03	General Vicinity	543.0 **	1.01	ND	ND	ND	ND	ND	ND	564.8	13.6	ND	ND	ND	ND	ND	ND
LVWPS-MW209	2/12/2021	80.7	LVWPS-MW209-EM04		General Vicinity	ND	ND	ND	ND	515.7	0.761	ND	ND	564.6 **	37.1	ND	ND	ND	ND	ND	ND
LVWPS-MW209	3/11/2021	80.7	LVWPS-MW209-EM05		General Vicinity	ND	ND	ND	ND	515.7	2.56	ND	ND	564.7	48.6	ND	ND	ND	ND	ND	ND
LVWPS-MW209	4/16/2021	80.7	LVWPS-MW209-EM06		General Vicinity	ND	ND	ND	ND	516.7	2.81	ND	ND	564.0 **	25.9	ND	ND	ND	ND	ND	ND
LVWPS-MW209A	10/6/2020	45	LVWPS-MW209A-BL04		General Vicinity							ND	ND			ND	ND ND				
LVWPS-MW209A	12/21/2020	45	LVWPS-MW209A-EM01		General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	1/18/2021	45	LVWPS-MW209A-EM02		General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	1/27/2021	45	LVWPS-MW209A-EM03		General Vicinity	539.6	0.743			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	2/12/2021	45	LVWPS-MW209A-EM04		General Vicinity	541.0	0.744			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	3/11/2021	45	LVWPS-MW209A-EM05	_	General Vicinity	541.5	1.23			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	4/16/2021	45	LVWPS-MW209A-EM06		General Vicinity	541.6	0.416			ND	ND			ND	ND			ND	ND		
LVWPS-MW209A	10/6/2020	120	LVWPS-MW209A-LM00		General Vicinity							ND	ND			ND	ND				
LAAAI O-IAIAA709D	10/0/2020	120	LVVVI O-IVIVVZUJD-DLU4	DLU4	Jonetal Vicinity		I	I			I	שוו	רוו ו			ם או	ם או				



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT VT)		nine WT WT)		damine B RB)	Sulforhoo (SR	
Location	Janiple Date	bgs)	Sample ID	Lveiit	20116	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	ndwater	Cha	rcoal	Ground	ndwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-MW210A	10/6/2020	44.8	LVWPS-MW210A-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW210A	12/21/2020	44.8	LVWPS-MW210A-EM01	EM01	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	561.7 **	27.6	ND	ND	ND	ND	ND	ND
LVWPS-MW210A	1/18/2021	44.8	LVWPS-MW210A-EM02	EM02	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	561.6 **	14.3	ND	ND	ND	ND	ND	ND
LVWPS-MW210A	1/29/2021	44.8	LVWPS-MW210A-EM03	EM03	,	ND	ND	ND	ND	ND	ND	ND	ND	560.7 **	5.45	ND	ND	ND	ND	ND	ND
LVWPS-MW210A	2/12/2021	44.8	LVWPS-MW210A-EM04	EM04	,	ND	ND	ND	ND	ND	ND	ND	ND	561.9 **	15.5	ND	ND	ND	ND	ND	ND
LVWPS-MW210A	3/12/2021	44.8	LVWPS-MW210A-EM05	EM05		ND	ND	ND	ND	ND	ND	ND	ND	561.2 **	23.7	ND	ND	ND	ND	ND	ND
LVWPS-MW210A	4/16/2021	44.8	LVWPS-MW210A-EM06	EM06	General Vicinity	ND	ND	ND	ND	517.5	1.69	ND	ND	561.5 **	19.6	ND	ND	ND	ND	ND	ND
LVWPS-MW210B	10/6/2020	79.6	LVWPS-MW210B-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW210B	12/21/2020	79.6	LVWPS-MW210B-EM01	EM01	General Vicinity	541.0	2.19	ND	ND	ND	ND	ND	ND	563.4 **	19.0	ND	ND	ND	ND	ND	ND
LVWPS-MW210B	1/18/2021	79.6	LVWPS-MW210B-EM02	EM02	General Vicinity	540.6 **	3.52	ND	ND	516.1	2.89	ND	ND	567.2	101	ND	ND	ND	ND	ND	ND
LVWPS-MW210B	1/29/2021	79.6	LVWPS-MW210B-EM03	EM03	General Vicinity	ND	ND	ND	ND	515.7	4.72	ND	ND	567.5	90.8	ND	ND	ND	ND	ND	ND
LVWPS-MW210B	2/12/2021	79.6	LVWPS-MW210B-EM04	EM04	General Vicinity	ND	ND	ND	ND	515.4	0.533	ND	ND	564.8	19.7	575.2	0.078	ND	ND	ND	ND
LVWPS-MW210B	3/12/2021	79.6	LVWPS-MW210B-EM05		General Vicinity	ND	ND	ND	ND	515.8	2.61	ND	ND	565.2	29.0	ND	ND	ND	ND	ND	ND
LVWPS-MW210B	4/16/2021	79.6	LVWPS-MW210B-EM06	EM06	, , , , , , , , , , , , , , , , , , ,	ND	ND	ND	ND	516.1	16.0	ND	ND	566.1	107	ND	ND	ND	ND	ND	ND
LVWPS-MW211	9/30/2020	59.6	LVWPS-MW211-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW211	12/21/2020	59.6	LVWPS-MW211-EM01	EM01	General Vicinity	ND	ND	ND	ND	513.9 **	2.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-MW211	1/18/2021	59.6	LVWPS-MW211-EM02	EM02	General Vicinity	538.8 **	3.31			ND	ND			ND	ND			ND	ND		
LVWPS-MW211	1/29/2021	59.6	LVWPS-MW211-EM03	EM03	General Vicinity	538.0 **	0.958			ND	ND			ND	ND			ND	ND		
LVWPS-MW211	2/12/2021	59.6	LVWPS-MW211-EM04	EM04	General Vicinity	ND	ND	ND	ND	516.8	1.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-MW211	3/12/2021	59.6	LVWPS-MW211-EM05	EM05	General Vicinity	ND	ND	ND	ND	515.4	3.36	ND	ND	564.6	3.90	ND	ND	ND	ND	ND	ND
LVWPS-MW211	4/16/2021	59.6	LVWPS-MW211-EM06	EM06	General Vicinity	ND	ND	ND	ND	515.8	3.88	ND	ND	566.5	17.9	ND	ND	ND	ND	ND	ND
LVWPS-MW212A	10/5/2020	43.9	LVWPS-MW212A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-MW212A	12/21/2020	43.9	LVWPS-MW212A-EM01	EM01	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212A	1/18/2021	43.9	LVWPS-MW212A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212A	1/27/2021	43.9	LVWPS-MW212A-EM03	EM03	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212A	2/12/2021	43.9	LVWPS-MW212A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212A	3/12/2021	43.9	LVWPS-MW212A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212A	4/15/2021	43.9	LVWPS-MW212A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW212B LVWPS-MW212B	10/5/2020 12/22/2020	69.7 69.7	LVWPS-MW212B-BL04 LVWPS-MW212B-EM01	BL04	Zone 3	ND				ND	ND	ND	ND		ND.	ND	ND				
			LVWPS-MW212B-EM01 LVWPS-MW212B-EM02	EM01	Zone 3		ND				 			ND	ND			ND	ND		
LVWPS-MW212B LVWPS-MW212B	1/18/2021 1/27/2021	69.7 69.7	LVWPS-MW212B-EM02 LVWPS-MW212B-EM03	EM02 EM03	Zone 3	ND ND	ND			ND ND	ND ND			ND ND	ND			ND	ND ND		
LVWPS-MW212B	2/12/2021	69.7	LVWPS-MW212B-EM04	EM04	Zone 3	ND ND	ND ND			ND ND	ND ND			ND ND	ND ND			ND ND	ND		
	3/12/2021	69.7	LVWPS-MW212B-EM05	EM05	Zone 3 Zone 3	ND	ND			ND	ND			ND ND	ND			ND	ND ND		
LVWPS-MW212B LVWPS-MW212B	4/15/2021	69.7	LVWPS-MW212B-EM06	EM06	Zone 3	ND	ND ND			ND ND	ND			ND ND	ND			ND	ND ND		
LVWPS-MW212B	4/14/2021	109.8	LVWPS-MW212C-EM06	EM06				ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-MW212D	4/14/2021	135	LVWPS-MW212D-EM06	EM06	Zone 3 Zone 3			ND ND	ND			ND	ND			ND	ND			ND ND	ND
LVWPS-MW217A	9/30/2020	61	LVWPS-MW217A-BL04	BL04	Zone 1							ND	ND			ND ND	ND				
LVWPS-MW217A	1/12/2021	61	LVWPS-MW217A-EM02	EM02	Zone 1	ND	ND	ND	ND	515.2	6.87	ND	ND	562.9 **	42.0	ND	ND	ND	ND	ND	ND
LVWPS-MW217A	2/9/2021	61	LVWPS-MW217A-EM04	EM04	Zone 1	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	562.5 **	33.3	ND	ND	ND	ND	ND ND	ND
LVWPS-MW217A	3/12/2021	61	LVWPS-MW217A-EM05	EM05	Zone 1	ND	ND	ND ND	ND	ND ND	ND	ND	ND	562.1 **	20.5	ND	ND	ND	ND	ND ND	ND
LVWPS-MW217A	4/8/2021	61	LVWPS-MW217A-EM06	EM06	Zone 1	ND	ND ND			ND	ND			562.3 **	15.7			ND	ND		
LVWPS-MW217A	9/30/2020	110.1	LVWPS-MW217B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-MW217B	1/13/2021	110.1	LVWPS-MW217B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW217B	2/10/2021	110.1	LVWPS-MW217B-EM04	EM04	Zone 1	ND	ND ND			ND ND	ND			ND ND	ND			ND ND	ND		
LVWPS-MW217B	3/10/2021	110.1	LVWPS-MW217B-EM05	EM05	Zone 1	ND	ND			ND	ND			ND ND	ND			ND	ND		
LVWPS-MW217B	4/8/2021	110.1	LVWPS-MW217B-EM06	EM06	Zone 1	ND	ND			ND ND	ND			ND	ND			ND	ND		
LVWPS-MW217B	10/5/2020	165.1	LVWPS-MW217C-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-MW217C	1/13/2021	165.1	LVWPS-MW217C-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	560.3 **	1.90	ND ND	ND ND	ND	ND	ND	ND
LVWPS-MW217C	1/13/2021	165.1	LVWPS-MW217C-EM02-FD	EM02	Zone 1	ND	ND ND	ND ND	ND	ND ND	ND	ND	ND	558.2 **	2.70	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
LVWPS-MW217C	2/10/2021	165.1	LVWPS-MW217C-EM04	EM04	Zone 1	ND	ND ND	ND ND	ND	ND ND	ND	ND	ND	561.6 **	1.30	ND ND	ND	ND	ND	ND ND	ND
LVWPS-MW217C	2/10/2021	165.1	LVWPS-MW217C-EM04-FD	EM04	Zone 1	ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND	558.8 **	1.68	ND	ND	ND	ND	ND ND	ND
LVVVP3-IVIVVZ1/C	Z/ 1U/ZUZ I	100.1	LVVVF3-IVIVVZI/G-EIVIU4-FD	□IVIU4	ZUIIE I	ממו	טא	טאו	טא	טא	טא	טא	טאו	JJ0.0	1.08	טא	טא	טא	טא	טאו	חאר



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluore	escein	Fluor	escein	Rhodan (RV	nine WT WT)		mine WT WT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Grour	ndwater	Cha	rcoal	Groun	ndwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-MW217C	3/10/2021	165.1	LVWPS-MW217C-EM05	EM05	Zone 1	ND	ND			ND	ND			559.2 **	1.44			ND	ND		
LVWPS-MW217C	4/9/2021	165.1	LVWPS-MW217C-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW218A	10/5/2020	44.9	LVWPS-MW218A-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW218A	12/21/2020	44.9	LVWPS-MW218A-EM01	EM01	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	561.7 **	13.1	ND	ND	ND	ND	ND	ND
LVWPS-MW218A	1/18/2021	44.9	LVWPS-MW218A-EM02	EM02	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	561.9 **	9.72	ND	ND	ND	ND	ND	ND
LVWPS-MW218A	1/26/2021	44.9	LVWPS-MW218A-EM03	EM03	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	562.3 **	2.38	ND	ND	ND	ND	ND	ND
LVWPS-MW218A	2/12/2021	44.9	LVWPS-MW218A-EM04	EM04	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	562.5 **	11.0	ND	ND	ND	ND	ND	ND
LVWPS-MW218A	3/15/2021	44.9	LVWPS-MW218A-EM05	EM05	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	562.0 **	17.3	ND	ND	ND	ND	ND	ND
LVWPS-MW218A	4/16/2021	44.9	LVWPS-MW218A-EM06	EM06	General Vicinity	ND	ND			ND	ND			562.0 **	12.2			ND	ND		
LVWPS-MW220A	10/5/2020	69.8	LVWPS-MW220A-BL04	BL04	General Vicinity							ND	ND			ND	ND				
LVWPS-MW220A	12/21/2020	69.8	LVWPS-MW220A-EM01	EM01	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	567.2	1.32	ND	ND	ND	ND	ND	ND
LVWPS-MW220A	1/18/2021	69.8	LVWPS-MW220A-EM02	EM02	General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW220A	1/28/2021	69.8	LVWPS-MW220A-EM03	EM03	General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW220A	2/12/2021	69.8	LVWPS-MW220A-EM04	EM04	General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW220A	3/11/2021	69.8	LVWPS-MW220A-EM05	EM05	General Vicinity	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW220A	4/16/2021	69.8	LVWPS-MW220A-EM06	EM06	General Vicinity	ND	ND	ND	ND	ND	ND	ND	ND	559.7 **	6.63	ND	ND	ND	ND	ND	ND
LVWPS-MW221A	10/6/2020	60	LVWPS-MW221A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW221A	12/12/2020	60	LVWPS-MW221A-INJ	INJ	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	562.4 **	4.93	ND	ND	ND	ND	ND	ND
LVWPS-MW221A	12/22/2020	60	LVWPS-MW221A-EM01	EM01	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW221A	1/12/2021	60	LVWPS-MW221A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW221A	1/28/2021	60	LVWPS-MW221A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW221A	2/8/2021	60	LVWPS-MW221A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW221A	3/9/2021	60	LVWPS-MW221A-EM05	EM05	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	562.0 **	2.99	ND	ND	ND	ND	ND	ND
LVWPS-MW221A	4/6/2021	60	LVWPS-MW221A-EM06	EM06	Zone 2	ND	ND			ND	ND			564.0 **	2.98			ND	ND		
LVWPS-MW221B	10/6/2020	93.4	LVWPS-MW221B-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW223A	10/6/2020	55.1	LVWPS-MW223A-BL04	BL04	Zone 2							ND	ND			ND ND	ND				
LVWPS-MW223A	10/6/2020	55.1	LVWPS-MW223A-BL04-FD	BL04	Zone 2							ND	ND			ND ND	ND				
LVWPS-MW223A	12/14/2020	55.1	LVWPS-MW223A-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND	-	-	ND	ND		1
LVWPS-MW223A	12/14/2020	55.1	LVWPS-MW223A-EM01	EM01	Zone 2	539.4	6.82			ND	ND			ND ND	ND ND			ND	ND		
LVWPS-MW223A	1/11/2021	55.1	LVWPS-MW223A-EM02	EM02	Zone 2	538.5 **	22.1			ND	ND			ND	ND			ND	ND		
LVWPS-MW223A	1/26/2021	55.1	LVWPS-MW223A-EM03	EM03	Zone 2	ND	ND		!	ND	ND			ND	ND	-	<u> </u>	ND	ND		
LVWPS-MW223A	2/8/2021	55.1	LVWPS-MW223A-EM04	EM04		ND	ND	ND	ND	513.5 **	0.717	ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND
LVWPS-MW223A			LVWPS-MW223A-EM05		Zone 2														ND		
	3/8/2021	55.1 55.1		EM05 EM06	Zone 2	ND ND	ND	ND	ND	515.1 515.3	6.58 2.24	ND	ND ND	567.8 567.5	261 417	573.1 ND	0.282	ND		ND ND	ND ND
LVWPS-MW223A LVWPS-MW223B	4/5/2021 10/6/2020		LVWPS-MW223A-EM06 LVWPS-MW223B-BL04	BL04	Zone 2	ND	ND	ND	ND		2.24	ND	ND	307.3		ND ND	ND	ND	ND	ND	ND
	<u> </u>	80.1		_	Zone 2	 					ND	ND		500.4	47.0		ND			ND.	ND
LVWPS-MW223B	12/14/2020	80.1	LVWPS-MW223B-INJ	INJ	Zone 2	539.7	3.39	ND	ND	ND	ND	ND	ND	566.1	17.6	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	12/22/2020	80.1	LVWPS-MW223B-EM01	EM01	Zone 2	540.2	2.29	ND	ND	ND	ND	ND	ND	567.6	28.4	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	1/11/2021	80.1	LVWPS-MW223B-EM02	EM02	Zone 2	ND 520.4	ND 0.530	ND	ND	ND 545.0	ND 0.604	ND	ND	567.6	23.3	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	1/28/2021	80.1	LVWPS-MW223B-EM03	EM03	Zone 2	539.4	0.538	ND	ND	515.2	0.604	ND 500.0	ND 0.647	568.6	4.11	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	2/8/2021	80.1	LVWPS-MW223B-EM04	EM04	Zone 2	ND	ND	ND	ND	515.2	5.89	508.2	0.617	ND FOZ O	ND 45.0	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	3/8/2021	80.1	LVWPS-MW223B-EM05	EM05	Zone 2	ND	ND	ND	ND	515.4	41.9	ND	ND	567.2	15.0	ND	ND	ND	ND	ND	ND
LVWPS-MW223B	4/5/2021	80.1	LVWPS-MW223B-EM06	EM06	Zone 2	ND	ND	ND	ND	514.9	2.63	ND	ND	564.9	1.74	ND	ND	ND	ND	ND	ND
LVWPS-MW223C	10/7/2020	102.6	LVWPS-MW223C-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW223C	1/11/2021	102.6	LVWPS-MW223C-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW223C	2/8/2021	102.6	LVWPS-MW223C-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW223C	3/8/2021	102.6	LVWPS-MW223C-EM05	EM05	Zone 2	ND	ND	ND	ND	515.1	0.987	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-MW223C	4/6/2021	102.6	LVWPS-MW223C-EM06	EM06	Zone 2	ND	ND	ND	ND	515.4	0.586	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-MW224A	10/7/2020	65	LVWPS-MW224A-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-MW224A	12/23/2020	65	LVWPS-MW224A-EM01	EM01	Zone 2	ND	ND	ND	ND	ND	ND	ND	ND	562.0 **	3.35	ND	ND	ND	ND	ND	ND
LVWPS-MW224A	1/18/2021	65	LVWPS-MW224A-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW224A	1/29/2021	65	LVWPS-MW224A-EM03	EM03	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW224A	2/12/2021	65	LVWPS-MW224A-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		



Web-Part Color C	Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluore	escein	Fluor	escein	11.1.	nine WT WT)	11.1.	mine WT WT)		damine B RB)	Sulforhoo (SR	-
WWF940W24A ST10221 St	Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Grour	ndwater	Cha	rcoal	Ground	dwater
WYMENSTAMEN MYSSELE SS							Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LWMPS-LIPPERS 1922869 1928 LWMPS-LIPPERS LWMPS-LIPPE	LVWPS-MW224A	3/11/2021	65	LVWPS-MW224A-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
1999-15-15-15-15-15-15-15-15-15-15-15-15-15-	LVWPS-MW224A	4/13/2021	65		EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWMPS-LI-PORDIA 12/19/2007 1972 WWRS-LI-LI-PORDIA-2007/15/20 NU WWRS-LI-LI-PORDIA-2007/15/	LVWPS-U1-DR01A	9/28/2020	102.6		BL04	Zone 1							ND	ND			ND	ND				
LWMPS-UF-10FREYA 121922200 02.0					_					ND			ND	ND			ND	ND			ND	
INVEST-LIDERION INTERNOCE 100.08 INVEST-LIDERIO 200.08 INV						Zone 1				1												
LWMPS-LL-DROIN 1271-42000 102.8 LWMPS-LL-DROIN-2002114.8 N. Zour 1				1	_	Zone 1																
INVESTLEMENT 1971-4970 1972 1					_													-				
1.WWFS-11-PROTA 721-82200 722-6 WWFS-11-PROTA-A2200714-10 N 20ns 1						Zone 1																
LWPS-U-DRIM 7214/2020 122			1		-	Zone 1																
IMPRESIDENT 1279-1200 122																		-				
LYMPS-ULPORNA 1274/2200 1276 LYMPS-ULPORNA-ROZIFICH NN Zone 1					_																	
INVERSIJ-PROBE 1279/0702 1279				<u> </u>	_																	
INVERSELLEDRIAN 1172/2021 1926 ILVERSELLEDRIANS/EMD2 5804 5704 5705 57					_																	
INVERSULTIONS 27110271 1926 INVERSULTIONS EASO																						
LWPS-U-DR01A 3152021 102.0 LWPS-U-DR01A-EM06 EM06 Zone 1 ND ND ND ND ND ND ND					_																	
LWWPS-UL-RORFO																						
LWPS-U-DR018 9/28/2202 39.1 LWPS-U-DR018-BL04 EU/0 Zove 1 ND ND																		-				
LWMPS-UI-DROIR 2028/2020 136.1 LWMPS-UI-DROIR-BLOIR-RD 8LIM Zone 1							ND	ND	ND	ND	515.7	10.9			ND	ND			ND	ND	ND	ND
LWPS-UI-DR018 12/13/2020 136.1 WWPS-UI-DR018-20201312 NJ Zone 1 ND ND ND ND ND ND ND WPS-UI-DR018 27/13/2020 136.1 WWPS-UI-DR018-20201312 NJ Zone 1 ND ND ND ND ND ND WPS-UI-DR018-20201312 NJ Zone 1 ND ND ND WPS-UI-DR018-20201313 NJ Zone 1 ND ND ND WPS-UI-DR018-20201314 NJ Zone 1 ND ND ND ND WPS-UI-DR018-20201314 NJ Zone 1 ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND																						
WWPS-U-DROB 12/19/2020 336.1 WWPS-U-DROBE-2020121-35 N. Zone 1				<u> </u>														-				
LWMPS-UI-DR018 121/42020 136.1 LWMPS-UI-DR018-0201214-5 INJ Zone 1										1												
LWPS-UI-DR0IB 27/44/2020 396.1 LWPS-UI-DR0IB-20201214-8 NJ Zone 1			1		_													-				
LWMPS-UI-DR018 121442020 136.1 LWMPS-UI-DR018-20201214-6 INJ Zone 1 ND ND ND S13.5 96.5 ND ND ND ND ND ND N				1																		
LWPS-UI-DR01B 12/14/2020 136.1 LWPS-UI-DR01B-20201214-1 INJ Zone 1				<u> </u>	_																	
LWMPS-UI-DR018 121/42020 136.1 LWMPS-UI-DR018-20201214-2 NJ Zone 1				1	_		-								-	-						
LWWPS-UI-DR018 121/44/2020 138.1 LWWPS-UI-DR018-20201214-4 INJ Zone 1																						
LWMPS-U1-DR016 12/14/2020 136.1 LWMPS-U1-DR018-EM02 EM02 Zone 1																						
IVWPS-U1-DR01B 12/29/2020 136.1 LVWPS-U1-DR01B-IM02 EM02 Zone 1 ND ND ND ND ND					_										-			-				
LWWPS-U1-DR01B 1/12/2021 136.1 LWWPS-U1-DR01B-EM02 EM02 Zone 1 ND ND ND ND ND ND ND					_																	
LWWPS-U1-DR01B 2/11/2021 136.1 LWWPS-U1-DR01B-EM04 EM05 Zone 1 ND ND ND ND ND ND ND																						
LVWPS-U1-DR018 3/15/2021 136.1 LVWPS-U1-DR018-EM05 EM05 Zone 1 ND ND ND ND ND ND ND																		-				
LVWPS-U1-DR018																						
LVWPS-U1-DR02A 9/28/2020 101.6 LVWPS-U1-DR02A-8L04 BL04 Zone 1											-											
LVWPS-U1-DR02A 12/13/2020 101.6 LVWPS-U1-DR02A-20201213-1 INJ Zone 1 ND ND ND 515.3 23.4 ND										1												IND
LVWPS-U1-DR02A 12/13/2020 101.6 LVWPS-U1-DR02A-20201213-2 INJ Zone 1 ND ND ND 515.2 11.8 ND					_		<u> </u>											-			ND	ND
LVWPS-U1-DR02A 12/13/2020 101.6 LVWPS-U1-DR02A-20201213-3 INJ Zone 1 ND ND 515.6 10.0 ND ND ND ND ND ND							-	 							-							
LVWPS-U1-DR02A 12/13/2020 101.6 LVWPS-U1-DR02A-20201213-4 INJ Zone 1 ND ND ND 515.1 12.9 ND ND ND ND ND ND LVWPS-U1-DR02A-20201214-5 INJ Zone 1 ND																						
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-5 INJ Zone 1 ND					_													-				
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-6 INJ Zone 1 ND ND 515.4 2.63 ND				<u> </u>				-														
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-6 INJ Zone 1 ND ND 516.1 3.35 ND ND ND ND ND																						
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-1 INJ Zone 1 ND ND 515.6 5.08 ND					_		-								-							
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-2 INJ Zone 1 ND ND ND 515.9 3.81 ND																		-				
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-3 INJ Zone 1 ND ND ND					_		-	 							-			-				
LVWPS-U1-DR02A 12/14/2020 101.6 LVWPS-U1-DR02A-20201214-4 INJ Zone 1 ND ND ND 515.3 18.4 ND				1																		
LVWPS-U1-DR02A 12/29/2020 101.6 LVWPS-U1-DR02A-INJ INJ Zone 1 ND ND ND					_																	
LVWPS-U1-DR02A 1/12/2021 101.6 LVWPS-U1-DR02A-EM02 EM02 Zone 1 ND ND ND 515.3 14.7 516.7 ** 14.0 ND ND <td></td> <td></td> <td>1</td> <td></td> <td>_</td> <td></td> <td>-</td> <td>!</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>			1		_		-	!							-			-				
LVWPS-U1-DR02A 2/11/2021 101.6 LVWPS-U1-DR02A-EM04 EM04 Zone 1 ND ND ND 516.1 54.6 516.2 ** 10.1 ND ND <td></td>																						
LVWPS-U1-DR02A 3/15/2021 101.6 LVWPS-U1-DR02A-EM05 EM05 Zone 1 ND ND ND 515.7 18.7 515.4 ** 2.00 ND ND <td></td> <td></td> <td>1</td> <td></td> <td>_</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>			1		_													-				
LVWPS-U1-DR02A 4/13/2021 101.6 LVWPS-U1-DR02A-EM06 EM06 Zone 1 ND ND ND ND ND S15.6 16.6 ND			1																			
	LVWPS-U1-DR02B	9/28/2020	137.5	LVWPS-U1-DR02B-BL04	BL04	Zone 1				 			ND	ND			ND	ND				



Location	Sample Date	Depth (ft	Sample ID	Event	Zono	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein		nine WT WT)		mine WT WT)		damine B RB)	Sulforhoo (SF	damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groun	ndwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-U1-DR02B	12/13/2020	137.5	LVWPS-U1-DR02B-20201213-1	INJ	Zone 1			ND	ND			506.8	0.087			ND	ND			ND	ND
LVWPS-U1-DR02B	12/13/2020	137.5	LVWPS-U1-DR02B-20201213-2	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/13/2020	137.5	LVWPS-U1-DR02B-20201213-3	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-5	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-4	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-1	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-2	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-3	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/29/2020	137.5	LVWPS-U1-DR02B-INJ	INJ	Zone 1			ND	ND			507.0	1.01			ND	ND			ND	ND
LVWPS-U1-DR02B	1/12/2021	137.5	LVWPS-U1-DR02B-EM02	EM02	Zone 1	ND	ND	ND	ND	515.2	2.99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-DR02B	2/11/2021	137.5	LVWPS-U1-DR02B-EM04	EM04	Zone 1	ND	ND	ND	ND	515.4	12.4	507.2	0.173	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-DR02B	3/15/2021	137.5	LVWPS-U1-DR02B-EM05	EM05	Zone 1	ND	ND	ND	ND	515.4	4.14	507.9	0.098	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-DR02B	4/13/2021	137.5	LVWPS-U1-DR02B-EM06	EM06	Zone 1	ND	ND	ND	ND	515.7	3.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW01A	9/28/2020	102.6	LVWPS-U1-MW01A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW01A	12/13/2020	102.6	LVWPS-U1-MW01A-20201213	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW01A	12/28/2020	102.6	LVWPS-U1-MW01A-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	558.0 **	3.15	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW01A	1/14/2021	102.6	LVWPS-U1-MW01A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01A	2/10/2021	102.6	LVWPS-U1-MW01A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01A	3/11/2021	102.6	LVWPS-U1-MW01A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01A	4/8/2021	102.6	LVWPS-U1-MW01A-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01B	9/28/2020	143.4	LVWPS-U1-MW01B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW01B	12/28/2020	143.4	LVWPS-U1-MW01B-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01B	1/14/2021	143.4	LVWPS-U1-MW01B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01B	2/10/2021	143.4	LVWPS-U1-MW01B-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01B	3/11/2021	143.4	LVWPS-U1-MW01B-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW01B	4/7/2021	143.4	LVWPS-U1-MW01B-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02A	9/29/2020	106.4	LVWPS-U1-MW02A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW02A	12/13/2020	106.4	LVWPS-U1-MW02A-20201213	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW02A	12/29/2020	106.4	LVWPS-U1-MW02A-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	560.6 **	1.92	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW02A	1/14/2021	106.4	LVWPS-U1-MW02A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02A	2/11/2021	106.4	LVWPS-U1-MW02A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02A	3/11/2021	106.4	LVWPS-U1-MW02A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02A	4/8/2021	106.4	LVWPS-U1-MW02A-EM06	EM06	Zone 1	ND	ND			ND	ND			561.6 **	1.31			ND	ND		
LVWPS-U1-MW02B	10/7/2020	149.1	LVWPS-U1-MW02B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW02B	12/13/2020	149.1	LVWPS-U1-MW02B-20201213	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW02B	12/13/2020	149.1	LVWPS-U1-MW02B-20201213	INJ	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW02B	12/29/2020	149.1	LVWPS-U1-MW02B-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02B	1/14/2021	149.1	LVWPS-U1-MW02B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW02B	2/11/2021	149.1	LVWPS-U1-MW02B-EM04	EM04	Zone 1	ND	ND			ND 544.0	ND 4.54			ND FCO.C.**	ND			ND	ND		
LVWPS-U1-MW02B	3/11/2021	149.1	LVWPS-U1-MW02B-EM05	EM05	Zone 1	ND	ND	ND	ND	514.9	1.54	ND	ND	560.6 **	1.57	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW02B	4/6/2021	149.1	LVWPS-U1-MW02B-EM06	EM06	Zone 1	ND	ND	ND	ND	514.9	0.863	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW03B	9/29/2020	144.2	LVWPS-U1-MW03B-BL04	BL04	Zone 1							ND	ND		4.00	ND	ND				
LVWPS-U1-MW03B	12/29/2020	144.2	LVWPS-U1-MW03B-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	560.1 **	4.66	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW03B	1/14/2021	144.2	LVWPS-U1-MW03B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW03B	2/11/2021	144.2	LVWPS-U1-MW03B-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW03B	3/11/2021	144.2	LVWPS-U1-MW03B-EM05	EM05	Zone 1	ND	ND			ND	ND			563.0 **	1.01			ND	ND		
LVWPS-U1-MW03B	4/9/2021	144.2	LVWPS-U1-MW03B-EM06	EM06	Zone 1	ND	ND			ND	ND			562.1 **	1.5			ND	ND		
LVWPS-U1-MW04A	9/30/2020	111.5	LVWPS-U1-MW04A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW04A	12/29/2020	111.5	LVWPS-U1-MW04A-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04A	1/13/2021	111.5	LVWPS-U1-MW04A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04A	2/10/2021	111.5	LVWPS-U1-MW04A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04A	3/9/2021	111.5	LVWPS-U1-MW04A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluore	escein	Fluore	escein	Rhodan (RV	nine WT WT)		nine WT WT)	Sulforho (Si	damine B RB)	Sulforho (SF	
Location	Sample Date	bgs)	Sample ID	Lveiit	20116	Cha	rcoal	Groun	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-U1-MW04A	4/7/2021	111.5	LVWPS-U1-MW04A-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04B	10/1/2020	152.1	LVWPS-U1-MW04B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW04B	12/29/2020	152.1	LVWPS-U1-MW04B-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04B	1/13/2021	152.1	LVWPS-U1-MW04B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04B	2/9/2021	152.1	LVWPS-U1-MW04B-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		-
LVWPS-U1-MW04B	3/9/2021	152.1	LVWPS-U1-MW04B-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04B	4/9/2021	152.1	LVWPS-U1-MW04B-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05A	9/29/2020	107.8	LVWPS-U1-MW05A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW05A	12/29/2020	107.8	LVWPS-U1-MW05A-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05A	1/18/2021	107.8	LVWPS-U1-MW05A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05A	2/10/2021	107.8	LVWPS-U1-MW05A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		-
LVWPS-U1-MW05A	3/10/2021	107.8	LVWPS-U1-MW05A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05A	4/8/2021	107.8	LVWPS-U1-MW05A-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	9/29/2020	149.1	LVWPS-U1-MW05B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW05B	12/29/2020	149.1	LVWPS-U1-MW05B-INJ	INJ	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	1/13/2021	149.1	LVWPS-U1-MW05B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	2/10/2021	149.1	LVWPS-U1-MW05B-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	3/9/2021	149.1	LVWPS-U1-MW05B-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	4/7/2021	149.1	LVWPS-U1-MW05B-EM06	EM06	Zone 1			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW06A	9/29/2020	95.1	LVWPS-U1-MW06A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW06A	12/28/2020	95.1	LVWPS-U1-MW06A-INJ	INJ	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.2 **	4.66	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06A	1/14/2021	95.1	LVWPS-U1-MW06A-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	562.5 **	3.81	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06A	2/9/2021	95.1	LVWPS-U1-MW06A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW06A	3/10/2021	95.1	LVWPS-U1-MW06A-EM05	EM05	Zone 1	ND	ND			ND	ND			563.4 **	1.68			ND	ND		
LVWPS-U1-MW06A	4/12/2021	95.1	LVWPS-U1-MW06A-EM06	EM06	Zone 1	ND	ND			ND	ND			563.4 **	3.02			ND	ND		
LVWPS-U1-MW06B	9/29/2020	121.3	LVWPS-U1-MW06B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW06B	12/28/2020	121.3	LVWPS-U1-MW06B-INJ	INJ	Zone 1	ND	ND	ND	ND	515.1	7.50	506.8	0.125	562.5 **	2.85	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06B	1/12/2021	121.3	LVWPS-U1-MW06B-EM02	EM02	Zone 1	ND	ND	ND	ND	515.1	2.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06B	2/10/2021	121.3	LVWPS-U1-MW06B-EM04	EM04	Zone 1	ND	ND	ND	ND	514.4	0.937	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06B	3/10/2021	121.3	LVWPS-U1-MW06B-EM05	EM05	Zone 1	ND	ND	ND	ND	514.5	1.38	ND	ND	562.7 **	1.95	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW06B	4/8/2021	121.3	LVWPS-U1-MW06B-EM06	EM06	Zone 1	ND	ND	ND	ND	515.1	2.05	ND	ND	563.0 **	2.67	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW07	9/30/2020	98.5	LVWPS-U1-MW07-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW07	12/29/2020	98.5	LVWPS-U1-MW07-INJ	INJ	Zone 1	ND	ND	ND	ND	515.3	37.2	507.1	0.684	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW07	1/14/2021	98.5	LVWPS-U1-MW07-EM02	EM02	Zone 1	ND	ND	ND	ND	514.9	0.690	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW07	2/10/2021	98.5	LVWPS-U1-MW07-EM04	EM04	Zone 1	ND	ND	ND	ND	514.7	0.992	507.1	0.243	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW07	3/12/2021	98.5	LVWPS-U1-MW07-EM05	EM05	Zone 1	ND	ND	ND	ND	515.2	0.824	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW07	4/7/2021	98.5	LVWPS-U1-MW07-EM06	EM06	Zone 1	ND	ND	ND	ND	515.2	0.847	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08A	9/30/2020	106.1	LVWPS-U1-MW08A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW08A	12/29/2020	106.1	LVWPS-U1-MW08A-INJ	INJ	Zone 1	ND	ND	ND	ND	516.2	470	514.7 **	12.2	567.0	5.61	561.3 **	1.28	ND	ND	ND	ND
LVWPS-U1-MW08A	1/12/2021	106.1	LVWPS-U1-MW08A-EM02	EM02	Zone 1	ND ND	ND	ND	ND	515.3	101	515.6 **	12.6	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08A	2/9/2021	106.1	LVWPS-U1-MW08A-EM04	EM04	Zone 1	ND	ND	ND	ND	515.5	29.9	507.4	4.74	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08A	3/11/2021	106.1	LVWPS-U1-MW08A-EM05	EM05	Zone 1	ND	ND	ND	ND	515.4	88.1	513.4 **	3.02	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08A	4/8/2021	106.1	LVWPS-U1-MW08A-EM06	EM06	Zone 1	ND	ND	ND	ND	515.5	69.6	507.1	1.32	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	9/30/2020	137.6	LVWPS-U1-MW08B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW08B	12/13/2020	137.6 I	LVWPS-U1-MW08B-20201213-	1 INJ	Zone 1			ND	ND			514.9	11.0			ND	ND			ND	ND
LVWPS-U1-MW08B	12/13/2020	137.6	LVWPS-U1-MW08B-20201213		Zone 1			ND	ND			515.8	2.54			ND	ND			ND	ND
LVWPS-U1-MW08B	12/13/2020	137.6 I	LVWPS-U1-MW08B-20201213-2		Zone 1			ND	ND			515.2	16.5			ND	ND			ND	ND
LVWPS-U1-MW08B	12/14/2020	137.6	LVWPS-U1-MW08B-20201214	_	Zone 1			ND	ND			515.2	6.92			ND	ND			ND	ND
LVWPS-U1-MW08B	12/29/2020	137.6	LVWPS-U1-MW08B-INJ	INJ	Zone 1	ND	ND	ND	ND	515.4	185	515.0 **	8.54	567.2	3.09	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	12/29/2020	137.6	LVWPS-U1-MW08B-INJ-FD	INJ	Zone 1	ND	ND	ND ND	ND	515.4	199	513.0	11.3	567.6	3.54	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	1/11/2021	137.6	LVWPS-U1-MW08B-EM02	EM02	Zone 1	ND	ND	ND ND	ND	515.4	11.2	514.7	4.91	ND	3.54 ND	ND ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	1/11/2021	137.6	LVWPS-U1-MW08B-EM02-FD		Zone 1	ND	ND ND		ND	515.5	9.63	517.5 **	11.3	ND ND	ND	ND	ND	ND	ND	ND	ND
LVVVF 3-U I-IVIVVUOD	1/ 1 1/2021	137.0	LVVVFO-U1-IVIVVUOD-EIVIUZ-FD	LIVIUZ	ZUITE I	חאר	ן ואט	ND	טא	J 10.1	შ.სპ	J17.3	11.3	טאו	טא	טא	טאו	טאו	טאו	חאר	טאו



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluore	escein		nine WT WT)	11.1.	mine WT WT)		damine B RB)	Sulforhoo (SR	
Location	Sample Date	bgs)	Sample ID	Lveiit	Zone	Chai	rcoal	Groun	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater	Cha	rcoal	Ground	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)								
LVWPS-U1-MW08B	2/9/2021	137.6	LVWPS-U1-MW08B-EM04	EM04	Zone 1	ND	ND	ND	ND	515.8	33.4	515.3 **	4.34	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	2/9/2021	137.6	LVWPS-U1-MW08B-EM04-FD	EM04	Zone 1	ND	ND	ND	ND	515.8	31.7	515.6 **	3.77	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	3/10/2021	137.6	LVWPS-U1-MW08B-EM05	EM05	Zone 1	ND	ND	ND	ND	515.8	58.2	507.3	0.661	570.0	2.99	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW08B	4/9/2021	137.6	LVWPS-U1-MW08B-EM06	EM06	Zone 1	ND	ND	ND	ND	515.3	3.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW09A	9/30/2020	120	LVWPS-U1-MW09A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW09A	1/13/2021	120	LVWPS-U1-MW09A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW09A	2/10/2021	120	LVWPS-U1-MW09A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW09A	3/11/2021	120	LVWPS-U1-MW09A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW09A	4/8/2021	120	LVWPS-U1-MW09A-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW09B	9/30/2020	142.4	LVWPS-U1-MW09B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW09B	1/13/2021	142.4	LVWPS-U1-MW09B-EM02	EM02	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	566.9	11.3	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW09B	2/10/2021	142.4	LVWPS-U1-MW09B-EM04	EM04	Zone 1	ND	ND	ND	ND	ND	ND	ND	ND	566.6	6.50	ND	ND	ND	ND	ND	ND
LVWPS-U1-MW09B	3/11/2021	142.4	LVWPS-U1-MW09B-EM05	EM05	Zone 1	ND	ND			ND	ND			565.5	2.02			ND	ND		
LVWPS-U1-MW09B	4/8/2021	142.4	LVWPS-U1-MW09B-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10A	10/2/2020	111.6	LVWPS-U1-MW10A-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW10A	1/13/2021	111.6	LVWPS-U1-MW10A-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10A	2/9/2021	111.6	LVWPS-U1-MW10A-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10A	3/9/2021	111.6	LVWPS-U1-MW10A-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10A	4/7/2021	111.6	LVWPS-U1-MW10A-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10B	10/2/2020	142.5	LVWPS-U1-MW10B-BL04	BL04	Zone 1							ND	ND			ND	ND				
LVWPS-U1-MW10B	1/12/2021	142.5	LVWPS-U1-MW10B-EM02	EM02	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10B	2/9/2021	142.5	LVWPS-U1-MW10B-EM04	EM04	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10B	3/9/2021	142.5	LVWPS-U1-MW10B-EM05	EM05	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW10B	4/7/2021	142.5	LVWPS-U1-MW10B-EM06	EM06	Zone 1	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-DR01	9/28/2020	131.1	LVWPS-U2-DR01-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-DR01	12/7/2020	131.1	LVWPS-U2-DR01-20201207	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/8/2020	131.1	LVWPS-U2-DR01-20201208	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/9/2020	131.1	LVWPS-U2-DR01-20201209	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/20/2020	131.1	LVWPS-U2-DR01-20201220-1	INJ	Zone 2			ND	ND			506.2	0.016			ND	ND			ND	ND
LVWPS-U2-DR01	12/20/2020	131.1	LVWPS-U2-DR01-20201220-2	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/20/2020	131.1	LVWPS-U2-DR01-20201220-3	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/20/2020	131.1	LVWPS-U2-DR01-20201220-4	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/21/2020	131.1	LVWPS-U2-DR01-20201221-1	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/21/2020		LVWPS-U2-DR01-20201221-2		Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/21/2020		LVWPS-U2-DR01-20201221-3	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/21/2020	131.1	LVWPS-U2-DR01-20201221-4	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/31/2020	131.1	LVWPS-U2-DR01-INJ	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	1/12/2021	131.1	LVWPS-U2-DR01-EM02	EM02	Zone 2	ND	ND	ND	ND	514.8	0.938	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-DR01	2/12/2021	131.1	LVWPS-U2-DR01-EM04	EM04	Zone 2	ND	ND	ND	ND	515.6	0.863	ND	ND	566.9	1.57	ND	ND	ND	ND	ND	ND
LVWPS-U2-DR01	3/15/2021	131.1	LVWPS-U2-DR01-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-DR01	4/12/2021	131.1	LVWPS-U2-DR01-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-DR02	9/28/2020	96.1	LVWPS-U2-DR02-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-DR02	12/7/2020	96.1	LVWPS-U2-DR02-20201207	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR02	12/8/2020	96.1	LVWPS-U2-DR02-20201208	INJ	Zone 2			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR02	12/9/2020	96.1	LVWPS-U2-DR02-20201209	INJ	Zone 2			ND	ND			ND	ND			575.7	0.206			ND	ND
LVWPS-U2-DR02	12/20/2020	96.1	LVWPS-U2-DR02-20201220-1	INJ	Zone 2			ND	ND			515.4 **	160			ND	ND			ND	ND
LVWPS-U2-DR02	12/20/2020	96.1	LVWPS-U2-DR02-20201220-2	INJ	Zone 2			ND	ND			515.7 **	151			ND	ND			ND	ND
LVWPS-U2-DR02	12/20/2020	96.1	LVWPS-U2-DR02-20201220-3	INJ	Zone 2			ND	ND			515.7 **	87.8			ND	ND			ND	ND
LVWPS-U2-DR02	12/20/2020	96.1	LVWPS-U2-DR02-20201220-4	INJ	Zone 2			ND	ND			515.7 **	97.3			ND	ND			ND	ND
LVWPS-U2-DR02	12/21/2020	96.1	LVWPS-U2-DR02-20201221-1	INJ	Zone 2			ND	ND			515.7 **	185			ND	ND			ND	ND
LVWPS-U2-DR02	12/21/2020	96.1	LVWPS-U2-DR02-20201221-2	INJ	Zone 2			ND	ND			515.4 **	67.3			ND	ND			ND	ND
LVWPS-U2-DR02	12/21/2020	96.1	LVWPS-U2-DR02-20201221-3	INJ	Zone 2			ND	ND			515.8 **	202			ND	ND			ND	ND



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluore	escein	1 1.1.	nine WT WT)	11.1.	nine WT WT)	Sulforhoo (SF		Sulforhoo (SF	
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groui	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Char	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-U2-DR02	12/21/2020	96.1	LVWPS-U2-DR02-20201221-4	INJ	Zone 2			ND	ND			515.4 **	652			ND	ND			ND	ND
LVWPS-U2-DR02	12/21/2020	96.1	VWPS-U2-DR02-20201221-4-F[INJ	Zone 2			ND	ND			515.8 **	464			ND	ND			ND	ND
LVWPS-U2-DR02	12/31/2020	96.1	LVWPS-U2-DR02-INJ	INJ	Zone 2			ND	ND			516.2 **	38.3			ND	ND			ND	ND
LVWPS-U2-DR02	1/12/2021	96.1	LVWPS-U2-DR02-EM02	EM02	Zone 2	ND	ND	ND	ND	516.1	1,610	515.6 **	97.1	567.2	8.72	ND	ND	ND	ND	ND	ND
LVWPS-U2-DR02	2/12/2021	96.1	LVWPS-U2-DR02-EM04	EM04	Zone 2	ND	ND	ND	ND	516.7	256	514.9 **	58.8	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-DR02	3/15/2021	96.1	LVWPS-U2-DR02-EM05	EM05	Zone 2	ND	ND	ND	ND	516.3	157	515.8 **	47.2	567.6	6.04	ND	ND	ND	ND	ND	ND
LVWPS-U2-DR02	4/12/2021	96.1	LVWPS-U2-DR02-EM06	EM06	Zone 2	ND	ND	ND	ND	516.3	88.6	514.8 **	126	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW01	10/8/2020	106.9	LVWPS-U2-MW01-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW01	1/4/2021	106.9	LVWPS-U2-MW01-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW01	1/14/2021	106.9	LVWPS-U2-MW01-EM02	EM02	Zone 2	ND	ND	ND	ND	514.9	1.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW01	2/10/2021	106.9	LVWPS-U2-MW01-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW01	3/10/2021	106.9	LVWPS-U2-MW01-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW01	4/7/2021	106.9	LVWPS-U2-MW01-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW02	10/8/2020	112.4	LVWPS-U2-MW02-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW02	1/4/2021	112.4	LVWPS-U2-MW02-INJ	INJ	Zone 2	ND	ND	ND	ND	513.7 **	0.685	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW02	1/12/2021	112.4	LVWPS-U2-MW02-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW02	2/9/2021	112.4	LVWPS-U2-MW02-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW02	3/9/2021	112.4	LVWPS-U2-MW02-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW02	4/5/2021	112.4	LVWPS-U2-MW02-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW03	10/9/2020	99.8	LVWPS-U2-MW03-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW03	1/4/2021	99.8	LVWPS-U2-MW03-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW03	1/14/2021	99.8	LVWPS-U2-MW03-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW03	2/10/2021	99.8	LVWPS-U2-MW03-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW03	3/10/2021	99.8	LVWPS-U2-MW03-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW03	4/6/2021	99.8	LVWPS-U2-MW03-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW04	10/6/2020	115.3	LVWPS-U2-MW04-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW04	12/31/2020	115.3	LVWPS-U2-MW04-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW04	1/11/2021	115.3	LVWPS-U2-MW04-EM02	EM02	Zone 2	ND	ND	ND	ND	513.8 **	0.471	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW04	2/8/2021	115.3	LVWPS-U2-MW04-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW04	3/8/2021	115.3	LVWPS-U2-MW04-EM05	EM05	Zone 2	ND	ND	ND	ND	514.7	0.770	507.2	0.055	ND	ND ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW04	4/5/2021	115.3	LVWPS-U2-MW04-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND ND			ND	ND		
LVWPS-U2-MW05	10/5/2020	95.4	LVWPS-U2-MW05-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW05	12/31/2020	95.4	LVWPS-U2-MW05-INJ	INJ	Zone 2	ND	ND	ND	ND	516.2	843	516.4 **	13.1	567.0 **	4.38	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW05	1/13/2021	95.4	LVWPS-U2-MW05-EM02	EM02	Zone 2	ND	ND	ND	ND	515.9	67.7	516.1 **	113	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW05	2/10/2021	95.4	LVWPS-U2-MW05-EM04	EM04	Zone 2	ND	ND	ND	ND	516.7	38.0	507.5	5.53	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW05	3/10/2021	95.4	LVWPS-U2-MW05-EM05	EM05	Zone 2	ND	ND	ND	ND	518.9	29.3	507.4	5.03	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW05	4/7/2021	95.4	LVWPS-U2-MW05-EM06	EM06	Zone 2	ND	ND	ND	ND	516.1	22.1	507.3	9.02	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U2-MW06	10/1/2020	131.1	LVWPS-U2-MW06-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW06	12/31/2020	131.1	LVWPS-U2-MW06-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW06	1/11/2021	131.1	LVWPS-U2-MW06-EM02	EM02	Zone 2	ND	ND			ND ND	ND ND			ND	ND			ND	ND		
LVWPS-U2-MW06	2/8/2021	131.1	LVWPS-U2-MW06-EM04	EM04	Zone 2	ND ND	ND ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW06	3/9/2021	131.1	LVWPS-U2-MW06-EM05	EM05	Zone 2	ND ND	ND ND	 	+	ND	ND		-	ND	ND			ND	ND		
LVWPS-U2-MW06	4/6/2021	131.1	LVWPS-U2-MW06-EM06	EM06	Zone 2	ND ND	ND ND			ND ND	ND			ND ND	ND			ND	ND		
LVWPS-U2-MW08	10/1/2020	122.7		_			ł					ND	ND		-	ND	ND				
LVWPS-U2-MW08	12/31/2020	122.7	LVWPS-U2-MW08-BL04 LVWPS-U2-MW08-INJ	BL04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW08	1/11/2021	122.7	LVWPS-U2-MW08-EM02	INJ EM02	Zone 2	ND ND				ND ND	ND ND			ND ND	ND ND			ND ND	ND ND		
				_	Zone 2		ND														
LVWPS-U2-MW08	2/8/2021	122.7	LVWPS-U2-MW08-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW08	3/8/2021	122.7	LVWPS-U2-MW08-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW08	4/5/2021	122.7	LVWPS-U2-MW08-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW09	10/9/2020	94.6	LVWPS-U2-MW09-BL04	BL04	Zone 2							ND	ND			ND	ND				
LVWPS-U2-MW09	12/31/2020	94.6	LVWPS-U2-MW09-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U2-MW09	1/18/2021	94.6	LVWPS-U2-MW09-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		



Column	Location	Sample Date	Depth (ft	Sample ID	Event	Zono	Eos	sine	Eo	sine	Fluor	escein	Fluore	escein		nine WT WT)	11.1.	mine WT WT)	Sulforho (SF	damine B RB)		damine B RB)
LWMPS-LEAWING SENSIT SENS LWWPS-LEAWINGS SENS Zens Zens LWWS-LEAWINGS SENS Zens Zens Zens LWWS-LEAWINGS SENS Zens Zen	Location	Sample Date	bgs)	Sample ID	Event	Zone	Char	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater	Cha	rcoal	Grour	ndwater
CMPPS-1244W09 MAZES ME							Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
EMPRIS DE MORPE 64,000 Fig. LAMPS LEARNING PARTS 186 LAMPS LEA	LVWPS-U2-MW09	2/8/2021	94.6	LVWPS-U2-MW09-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWMPS-LLAWANT 10772000 9.5 LWMPS-LLAWANT 2002 2	LVWPS-U2-MW09	3/8/2021	94.6	LVWPS-U2-MW09-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
100999-12009971	LVWPS-U2-MW09	4/5/2021	94.6	LVWPS-U2-MW09-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVMPPSLIZAMINY 2800211 9.4 LVMPPSLIZAMINY ZBIOG TOTAL TOTA	LVWPS-U2-MW12	10/7/2020	95.4	LVWPS-U2-MW12-BL04	BL04	Zone 2							ND	ND			ND	ND				
WATER STATES \$8,0021 \$8.4	LVWPS-U2-MW12	1/12/2021	95.4	LVWPS-U2-MW12-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
WASS-LAWING WASS-LAWING-LAWING-SAME MADE Zong 2 NO NO NO NO NO NO NO	LVWPS-U2-MW12	2/8/2021	95.4	LVWPS-U2-MW12-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVMPS-LLAMMY 1023/0200 95.1 LVMPS-LLAMMY H-NU 81.94 Zone 2 NO NO NO	LVWPS-U2-MW12	3/8/2021	95.4	LVWPS-U2-MW12-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWMPS-LAWINF 17381200 98.1 LWMPS-LAWINF-BMZ DNZ Zone 2 NO NO NO NO NO NO NO	LVWPS-U2-MW12	4/7/2021	95.4	LVWPS-U2-MW12-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LIMPS-LIAWINE 1732021 95.1 LIMPS-LIAWINE-LANGE EMD\$ Zone 2 NO NO	LVWPS-U2-MW14	10/6/2020	95.1	LVWPS-U2-MW14-BL04	BL04	Zone 2							ND	ND			ND	ND				
LIMPNS-LIZAMINT 28902E 95.1 LVWPS-LIZAMINT-EMBO EMBO 2009 2 ND ND ND ND ND ND ND	LVWPS-U2-MW14	12/31/2020	95.1	LVWPS-U2-MW14-INJ	INJ	Zone 2	ND	ND	ND	ND	514.9	1.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LYMPS-LLZ-MANTH 3/10/20/21 95.1 LYMPS-LLZ-MANTH-EMBOS EMBO Zorne 2 ND ND ND ND ND ND	LVWPS-U2-MW14	1/13/2021	95.1	LVWPS-U2-MW14-EM02		Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LVMPS-LJAMV14	LVWPS-U2-MW14	2/9/2021	95.1	LVWPS-U2-MW14-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWWPS-LIZAMVIT 1017/2021 1255 LWWPS-LIZAMVIT-REMS BLOSE Zone 2 NO	LVWPS-U2-MW14	3/10/2021	95.1	LVWPS-U2-MW14-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
ILWERS_LIZAMNYT 172/2021 1785 ILWER_LIZAMNYT_EMBLE BM02 Zone 2 ND ND ND ND S152 2.50 506.5 0.106 567.2 57.0 1.46 ND ND ND ND ND ND ND N	LVWPS-U2-MW14	4/6/2021	95.1	LVWPS-U2-MW14-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
INVERSILAMINT 11/20/201 126.5 INVESSILAMINTENDE EMD MOD RD ND ND ND ND ND ND N	LVWPS-U2-MW17	10/1/2020	126.5	LVWPS-U2-MW17-BL04	BL04	Zone 2							ND	ND			ND	ND				
LWWPS-LU2-MWT7 288/2021 126.5 LWWPS-LU2-MWT7-EMM6 EMM6 Zone 2 NO NO NO NO 5152 33.7 NO NO S67.3 16.8 NO	LVWPS-U2-MW17	1/12/2021	126.5	LVWPS-U2-MW17-EM02	EM02	Zone 2	ND	ND	ND	ND	515.2	2.50	506.5	0.106	567.2	50.0	575.7	1.16	ND	ND	ND	ND
LWMPS-LLZ-MM71 28/2021 126.5 LWWPS-LZ-MM71-EMM6-FD EMM5 2009 2 ND ND ND 515.2 3.94 ND ND 567.5 19.5 ND ND ND ND ND ND ND N	LVWPS-U2-MW17	1/12/2021	126.5	LVWPS-U2-MW17-EM02-FD	EM02	Zone 2	ND	ND	ND	ND	514.8	3.90	508.7	0.136	567.6	67.2	572.0	1.44	ND	ND	ND	ND
LWMPS-LUZMMY1	LVWPS-U2-MW17	2/8/2021	126.5	LVWPS-U2-MW17-EM04	EM04	Zone 2	ND	ND	ND	ND	515.1	3.17	ND	ND	567.3	16.9	ND	ND	ND	ND	ND	ND
LWWPS-LUZ-MWT 46/2021	LVWPS-U2-MW17	2/8/2021	126.5	LVWPS-U2-MW17-EM04-FD	EM04	Zone 2	ND	ND	ND	ND	515.2	3.94	ND	ND	567.5	19.5	ND	ND	ND	ND	ND	ND
LWMPS-LUZ-MWT 105/2020 100.6 LVWPS-LUZ-MWT 1.0 2.0 2.0 2.0 0	LVWPS-U2-MW17	3/9/2021	126.5	LVWPS-U2-MW17-EM05	EM05	Zone 2	ND	ND	ND	ND	514.9	2.79	506.5	0.030	567.2	15.2	572.2	0.110	ND	ND	ND	ND
LWMPS-UZ-MW18	LVWPS-U2-MW17	4/6/2021	126.5	LVWPS-U2-MW17-EM06	EM06	Zone 2	ND	ND	ND	ND	514.9	3.96	ND	ND	567.3	14.2	ND	ND	ND	ND	ND	ND
LWWPS-U2-MW18 11/12021 100.6 LWWPS-U2-MW18-EM02 EM02 Zone 2 ND ND	LVWPS-U2-MW18	10/5/2020	100.6	LVWPS-U2-MW18-BL04	BL04	Zone 2							ND	ND			ND	ND				
LWWPS-U2-MW18 29/2021 100.6 LWWPS-U2-MW18-EM05 EM06 Zone 2 ND ND ND ND ND ND	LVWPS-U2-MW18	12/31/2020	100.6	LVWPS-U2-MW18-INJ	INJ	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWWPS-UB-MW18 39/92021 100.6 LWWPS-UB-MW18-EM06 EM06 Zone 2 ND ND ND ND ND ND	LVWPS-U2-MW18	1/11/2021	100.6	LVWPS-U2-MW18-EM02	EM02	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWWPS-U3-DR01A 12/16/2020 108 LWWPS-U3-DR01A INJ Zone 3 ND ND ND ND	LVWPS-U2-MW18	2/8/2021	100.6	LVWPS-U2-MW18-EM04	EM04	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWWPS-U3-DR01A 12/16/2020 108 LWWPS-U3-DR01A INJ Zone 3	LVWPS-U2-MW18	3/9/2021	100.6	LVWPS-U2-MW18-EM05	EM05	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWWPS-U3-DR01A 121/8/2020 108 LWWPS-U3-DR01A INJ Zone 3 ND ND ND 506.9 0.024 ND ND ND ND ND ND	LVWPS-U2-MW18	4/5/2021	100.6	LVWPS-U2-MW18-EM06	EM06	Zone 2	ND	ND			ND	ND			ND	ND			ND	ND		
LWPS-U3-DR01A 12/16/2020 108 LWPS-U3-DR01A INJ Zone 3	LVWPS-U3-DR01A	9/28/2020	108	LVWPS-U3-DR01A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LWMPS-U3-DRO1A 12/16/2020 108 LWWPS-U3-DRO1A INJ Zone 3 ND ND 515.1 ** 0.796 ND ND ND ND	LVWPS-U3-DR01A	12/16/2020	108	LVWPS-U3-DR01A	INJ	Zone 3			ND	ND			506.9	0.024			ND	ND			ND	ND
LWMPS-U3-DR01A 12/16/2020 108 LWMPS-U3-DR01A INJ Zone 3	LVWPS-U3-DR01A	12/16/2020	108	LVWPS-U3-DR01A	INJ	Zone 3			ND	ND			515.9 **	1.16			ND	ND			ND	ND
LWWPS-U3-DR01A 12/17/2020 108 LWWPS-U3-DR01A-20201217-2 IN. Zone 3 ND ND ND 514.9 ** 1.29 ND ND ND ND ND	LVWPS-U3-DR01A	12/16/2020	108	LVWPS-U3-DR01A	INJ	Zone 3			ND	ND			515.1 **	0.796			ND	ND			ND	ND
LWPS-U3-DR01A 12/17/2020 108 LWPS-U3-DR01A-20201217-2 INJ Zone 3 ND ND ND ND	LVWPS-U3-DR01A	12/16/2020	108	LVWPS-U3-DR01A	INJ	Zone 3			ND	ND			515.4 **	99.9			ND	ND			ND	ND
LWPS-U3-DR01A 12/17/2020 108 LWPS-U3-DR01A-20201217-3 NJ Zone 3	LVWPS-U3-DR01A	12/17/2020	108	LVWPS-U3-DR01A-20201217-1	INJ	Zone 3			ND	ND			514.9 **	1.29			ND	ND			ND	ND
LWPS-U3-DR01A 12/17/2020 108 LWPS-U3-DR01A-20201217-3 NJ Zone 3	LVWPS-U3-DR01A	12/17/2020	108	LVWPS-U3-DR01A-20201217-2	INJ	Zone 3			ND	ND			515.5 **	3.51			ND	ND			ND	ND
LVWPS-U3-DR01A 12/17/2020 108 LVWPS-U3-DR01A-20201217-4 INJ Zone 3 ND ND ND 514.7** 0.559 ND ND ND ND ND																					ND	
LVWPS-U3-DR01A 12/29/2020 108 LVWPS-U3-DR01A-EM02 EM02 Zone 3 ND	LVWPS-U3-DR01A	12/17/2020	108	LVWPS-U3-DR01A-20201217-4		Zone 3			ND	ND			514.7 **				ND	ND			ND	
LVWPS-U3-DR01A 1/18/2021 108 LVWPS-U3-DR01A-EM02 EM02 Zone 3 ND ND ND ND ND ND ND										-												
LVWPS-U3-DR01A 2/12/2021 108							ND	ND			515.5	22.9			ND	ND			ND	ND		
LVWPS-U3-DR01A 3/15/2021 108 LVWPS-U3-DR01A-EM05 EM05 Zone 3 ND ND ND ND ND ND ND										_												
LVWPS-U3-DR01A																						
LVWPS-U3-DR01B 9/28/2020 144.1 LVWPS-U3-DR01B-BL04 BL04 Zone 3 ND																		-				
LVWPS-U3-DR01B 12/16/2020 144.1 LVWPS-U3-DR01B-20201216-1 INJ Zone 3										t			!									
LVWPS-U3-DR01B 12/16/2020 144.1 LVWPS-U3-DR01B-20201216-2 INJ Zone 3 ND ND 514.1** 155 ND ND<																-						
LVWPS-U3-DR01B 12/16/2020 144.1 LVWPS-U3-DR01B-20201216-3 INJ Zone 3 ND ND ND 515.7 ** 135 ND								-			-	-			-				-	-		
LVWPS-U3-DR01B 12/16/2020 144.1 LVWPS-U3-DR01B-20201216-4 INJ Zone 3 ND ND ND 515.1 ** 7.32 ND ND ND ND ND ND ND ND ND LVWPS-U3-DR01B 20201217-1 INJ Zone 3 ND ND ND ND 515.4 ** 407 ND								-														
LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-1 INJ Zone 3 ND ND ND 515.4 ** 407 ND												 										
LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-2 INJ Zone 3 ND ND 515.7 ** 209 ND ND ND ND ND LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-3 INJ Zone 3 ND ND ND																						
LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-3 INJ Zone 3 ND ND ND ND ND ND ND ND ND ND ND ND LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-4 INJ Zone 3 ND ND ND ND ND LVWPS-U3-DR01B 12/29/2020 144.1 LVWPS-U3-DR01B-INJ INJ Zone 3 ND ND ND ND								-			-	-			-	-				-		
LVWPS-U3-DR01B 12/17/2020 144.1 LVWPS-U3-DR01B-20201217-4 INJ Zone 3 ND ND 515.1 ** 39.1 ND										_		 										
LVWPS-U3-DR01B 12/29/2020 144.1 LVWPS-U3-DR01B-INJ INJ Zone 3 ND ND 515.8 ** 30.9 ND ND ND ND ND								-			-	-										
												-										
	LVWPS-U3-DR01B	1/18/2021	144.1	LVWPS-U3-DR01B-EM02	EM02	Zone 3	ND	ND	ND	ND	516.2	74.8	516.8 **	136	ND	ND	ND	ND	ND	ND	ND	ND



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluore	escein	Fluor	escein		nine WT WT)	11.1.	mine WT WT)		damine B RB)	Sulforhoo (SR	
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Grour	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater	Cha	rcoal	Ground	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)								
LVWPS-U3-DR01B	2/12/2021	144.1	LVWPS-U3-DR01B-EM04	EM04	Zone 3	ND	ND	ND	ND	513.9 **	15.8	515.2 **	108	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR01B	3/15/2021	144.1	LVWPS-U3-DR01B-EM05	EM05	Zone 3	ND	ND	ND	ND	516.4	313	516.2 **	137	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR01B	4/15/2021	144.1	LVWPS-U3-DR01B-EM06	EM06	Zone 3	ND	ND	ND	ND	516.5	177	514.9 **	62.4	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02A	9/28/2020	98.6	LVWPS-U3-DR02A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-DR02A	12/16/2020	98.6	LVWPS-U3-DR02A-20201216-1	INJ	Zone 3		-	ND	ND	-		515.3 **	36.0			ND	ND			ND	ND
LVWPS-U3-DR02A	12/16/2020	98.6	LVWPS-U3-DR02A-20201216-2	INJ	Zone 3			ND	ND			513.8 **	114			ND	ND			ND	ND
LVWPS-U3-DR02A	12/16/2020	98.6	LVWPS-U3-DR02A-20201216-3	INJ	Zone 3			ND	ND			515.6 **	2.37			ND	ND			ND	ND
LVWPS-U3-DR02A	12/16/2020	98.6	LVWPS-U3-DR02A-20201216-4	INJ	Zone 3			ND	ND			515.7 **	125			ND	ND			ND	ND
LVWPS-U3-DR02A	12/17/2020	98.6	LVWPS-U3-DR02A	INJ	Zone 3			ND	ND			515.6 **	101			ND	ND			ND	ND
LVWPS-U3-DR02A	12/17/2020	98.6	LVWPS-U3-DR02A	INJ	Zone 3			ND	ND			515.5 **	61.9			ND	ND			ND	ND
LVWPS-U3-DR02A	12/17/2020	98.6	LVWPS-U3-DR02A	INJ	Zone 3		-	ND	ND			515.7 **	103			ND	ND			ND	ND
LVWPS-U3-DR02A	12/17/2020	98.6	LVWPS-U3-DR02A	INJ	Zone 3			ND	ND			515.7 **	78.5			ND	ND			ND	ND
LVWPS-U3-DR02A	12/17/2020	98.6	VWPS-U3-DR02A-20201217-4-F	INJ	Zone 3		-	ND	ND	-		515.6 **	83.2			ND	ND			ND	ND
LVWPS-U3-DR02A	12/30/2020	98.6	LVWPS-U3-DR02A-INJ	INJ	Zone 3			ND	ND			515.1 **	73.5			ND	ND			ND	ND
LVWPS-U3-DR02A	12/30/2020	98.6	LVWPS-U3-DR02A-INJ	INJ	Zone 3			ND	ND			516.0 **	67.5			ND	ND			ND	ND
LVWPS-U3-DR02A	1/18/2021	98.6	LVWPS-U3-DR02A-EM02	EM02	Zone 3	ND	ND	ND	ND	516.1	295	515.3 **	76.0	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02A	2/11/2021	98.6	LVWPS-U3-DR02A-EM04	EM04	Zone 3	ND	ND	ND	ND	516.5	78.6	515.4 **	63.6	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02A	3/15/2021	98.6	LVWPS-U3-DR02A-EM05	EM05	Zone 3	ND	ND	ND	ND	516.1	133	515.5 **	49.4	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02A	4/15/2021	98.6	LVWPS-U3-DR02A-EM06	EM06	Zone 3	ND	ND	ND	ND	516.4	125	514.8 **	92.7	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02B	9/28/2020	130	LVWPS-U3-DR02B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-DR02B	12/16/2020	130	LVWPS-U3-DR02B-20201216-1	INJ	Zone 3			ND	ND			515.7 **	144			ND	ND			ND	ND
LVWPS-U3-DR02B	12/16/2020	130	LVWPS-U3-DR02B-20201216-2	INJ	Zone 3			ND	ND			515.3 **	14.1			ND	ND			ND	ND
LVWPS-U3-DR02B	12/16/2020	130	LVWPS-U3-DR02B-20201216-3	INJ	Zone 3			ND	ND			515.7 **	154			ND	ND			ND	ND
LVWPS-U3-DR02B	12/16/2020	130	LVWPS-U3-DR02B-20201216-4	INJ	Zone 3			ND	ND			515.3 **	26.1			ND	ND			ND	ND
LVWPS-U3-DR02B	12/17/2020	130	LVWPS-U3-DR02B-20201217-1	INJ	Zone 3			ND	ND			515.8 **	224			ND	ND			ND	ND
LVWPS-U3-DR02B	12/17/2020	130	LVWPS-U3-DR02B-20201217-2	INJ	Zone 3			ND	ND			515.4 **	12.3			ND	ND			ND	ND
LVWPS-U3-DR02B	12/17/2020	130	LVWPS-U3-DR02B-20201217-3		Zone 3			ND	ND			515.2 **	27.3			ND	ND			ND	ND
LVWPS-U3-DR02B	12/17/2020		LVWPS-U3-DR02B-20201217-4	INJ	Zone 3			ND	ND			515.5 **	55.7			ND	ND			ND	ND
LVWPS-U3-DR02B	1/18/2021	130	LVWPS-U3-DR02B-EM02	EM02	Zone 3	ND	ND	ND	ND	516.2	74.3	515.3 **	60.2	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02B	2/11/2021	130	LVWPS-U3-DR02B-EM04	EM04	Zone 3	ND	ND	ND	ND	515.5	4.51	515.4 **	38.0	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02B	3/15/2021	130	LVWPS-U3-DR02B-EM05	EM05	Zone 3	ND	ND	ND	ND	516.7	80.9	515.4 **	29.5	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02B	4/15/2021	130	LVWPS-U3-DR02B-EM06	EM06	Zone 3	ND	ND	ND	ND	516.6	40.8	514.7 **	82.4	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02C	9/28/2020	161.5	LVWPS-U3-DR02C-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-DR02C	12/16/2020		LVWPS-U3-DR02C-20201216-1		Zone 3			ND	ND			507.1	0.337			ND	ND			ND	ND
LVWPS-U3-DR02C	12/16/2020		LVWPS-U3-DR02C-20201216-2		Zone 3			ND	ND			507.0	0.400			ND	ND			ND	ND
LVWPS-U3-DR02C	12/16/2020		LVWPS-U3-DR02C-20201216-3		Zone 3			ND	ND			507.1	1.10			ND	ND			ND	ND
LVWPS-U3-DR02C	12/16/2020		VWPS-U3-DR02C-20201216-3-F		Zone 3			ND	ND			507.0	0.346			ND	ND			ND	ND
LVWPS-U3-DR02C	12/16/2020		LVWPS-U3-DR02C-20201216-4		Zone 3			ND	ND			507.1	0.943			ND	ND			ND	ND
LVWPS-U3-DR02C	12/17/2020		LVWPS-U3-DR02C-20201217-1	_	Zone 3			ND	ND			507.9	0.490			ND	ND			ND	ND
LVWPS-U3-DR02C	12/17/2020		LVWPS-U3-DR02C-20201217-2		Zone 3			ND ND	ND			507.2	0.430			ND	ND			ND	ND
LVWPS-U3-DR02C	12/17/2020		LVWPS-U3-DR02C-20201217-3		Zone 3			ND	ND			507.2	0.909			ND	ND			ND	ND
LVWPS-U3-DR02C	12/17/2020		LVWPS-U3-DR02C-20201217-4		Zone 3			ND	ND			515.3 **	6.41			ND	ND			ND	ND
LVWPS-U3-DR02C	12/30/2020	161.5	LVWPS-U3-DR02C-INJ	INJ	Zone 3			ND	ND			516.4 **	51.2			ND	ND			ND	ND
LVWPS-U3-DR02C	1/18/2021	161.5	LVWPS-U3-DR02C-EM02	EM02	Zone 3	ND	ND	ND	ND	516.1	11.2	516.6 **	25.0	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02C	2/12/2021	161.5	LVWPS-U3-DR02C-EM04	EM04	Zone 3	ND	ND	ND ND	ND	516.8	7.45	506.2	1.36	ND	ND	ND	ND	ND	ND ND	ND	ND
LVWPS-U3-DR02C	3/15/2021	161.5	LVWPS-U3-DR02C-EM05	EM05	Zone 3	ND	ND	ND	ND	516.3	13.9	505.3 **	0.721	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-DR02C	4/15/2021	161.5	LVWPS-U3-DR02C-EM06	EM06	Zone 3	ND ND	ND	ND ND	ND	516.5	6.23	505.5	3.81	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND
LVWPS-U3-MW01B	10/5/2020	93.5	LVWPS-U3-MW01B-BL04	BL04	Zone 3							ND	3.61 ND			ND ND	ND ND				
LVWPS-U3-MW01B	1/15/2021		LVWPS-U3-MW01B-EM02	EM02		ND	ND.			ND	ND			ND	ND			ND	ND		
		93.5			Zone 3		ND	ND.	ND.			ND.	ND			ND.	ND			ND.	
LVWPS-U3-MW01B	2/11/2021	93.5	LVWPS-U3-MW01B-EM04	EM04	Zone 3	ND	ND	ND	ND	ND	ND	ND	ND	566.8	1.97	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW01B	3/15/2021	93.5	LVWPS-U3-MW01B-EM05	EM05	Zone 3	ND	ND			ND	ND			568.0	2.92			ND	ND		
LVWPS-U3-MW01B	4/9/2021	93.5	LVWPS-U3-MW01B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eos	sine	Fluore	escein	Fluor	escein	11.1.	nine WT WT)		nine WT WT)		damine B RB)	Sulforhoo (SF	damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)								
LVWPS-U3-MW02A	10/5/2020	89.4	LVWPS-U3-MW02A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW02A	12/30/2020	89.4	LVWPS-U3-MW02A-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02A	1/14/2021	89.4	LVWPS-U3-MW02A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02A	2/11/2021	89.4	LVWPS-U3-MW02A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02A	3/11/2021	89.4	LVWPS-U3-MW02A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02A	4/9/2021	89.4	LVWPS-U3-MW02A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	10/5/2020	112.5	LVWPS-U3-MW02B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW02B	12/30/2020	112.5	LVWPS-U3-MW02B-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	1/14/2021	112.5	LVWPS-U3-MW02B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	2/11/2021	112.5	LVWPS-U3-MW02B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	3/11/2021	112.5	LVWPS-U3-MW02B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	4/12/2021	112.5	LVWPS-U3-MW02B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	10/2/2020	98.6	LVWPS-U3-MW03A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW03A	10/2/2020	98.6	LVWPS-U3-MW03A-BL04-FD	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW03A	12/30/2020	98.6	LVWPS-U3-MW03A-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	1/14/2021	98.6	LVWPS-U3-MW03A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	2/11/2021	98.6	LVWPS-U3-MW03A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	3/11/2021	98.6	LVWPS-U3-MW03A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	4/6/2021	98.6	LVWPS-U3-MW03A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03B	10/2/2020	163	LVWPS-U3-MW03B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW03B	12/30/2020	163	LVWPS-U3-MW03B-INJ	INJ	Zone 3	ND	ND	ND	ND	515.7	116	508.2	0.226	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03B	1/14/2021	163	LVWPS-U3-MW03B-EM02	EM02	Zone 3	ND	ND	ND	ND	515.9	9.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03B	2/11/2021	163	LVWPS-U3-MW03B-EM04	EM04	Zone 3	ND	ND	ND	ND	515.9	7.36	509.4	0.161	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03B	3/12/2021	163	LVWPS-U3-MW03B-EM05	EM05	Zone 3	ND	ND	ND	ND	516.3	16.0	510.4 **	0.235	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03B	4/12/2021	163	LVWPS-U3-MW03B-EM06	EM06	Zone 3	ND	ND	ND	ND	516.1	14.5	509.4	0.318	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03C	10/1/2020	129.9	LVWPS-U3-MW03C-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW03C	12/30/2020	129.9	LVWPS-U3-MW03C-INJ	INJ	Zone 3	ND	ND	ND	ND	515.5	8.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03C	1/14/2021	129.9	LVWPS-U3-MW03C-EM02	EM02	Zone 3	ND	ND	ND	ND	515.3	0.815	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03C	2/11/2021	129.9	LVWPS-U3-MW03C-EM04	EM04	Zone 3	ND	ND	ND	ND	515.2	0.602	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03C	3/11/2021	129.9	LVWPS-U3-MW03C-EM05	EM05	Zone 3	ND	ND	ND	ND	514.4	0.841	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW03C	4/13/2021	129.9	LVWPS-U3-MW03C-EM06	EM06	Zone 3	ND	ND	ND	ND	515.0	0.666	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW04B	10/2/2020	87.7	LVWPS-U3-MW04B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW05B	10/2/2020	94.8	LVWPS-U3-MW05B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW05B	1/15/2021	94.8	LVWPS-U3-MW05B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW05B	2/11/2021	94.8	LVWPS-U3-MW05B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW05B	3/11/2021	94.8	LVWPS-U3-MW05B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW05B	4/8/2021	94.8	LVWPS-U3-MW05B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06A	10/5/2020	102.6	LVWPS-U3-MW06A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW06A	12/30/2020	102.6	LVWPS-U3-MW06A-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06A	1/15/2021	102.6	LVWPS-U3-MW06A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06A	2/12/2021	102.6	LVWPS-U3-MW06A-EM04	EM04	Zone 3	ND	ND	ND	ND	513.9 **	0.662	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW06A	3/15/2021	102.6	LVWPS-U3-MW06A-EM05	EM05	Zone 3	ND	ND	ND	ND	514.8	1.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW06A	4/9/2021	102.6	LVWPS-U3-MW06A-EM06	EM06	Zone 3	ND	ND			514.4 **	0.295			566.6	1.28			ND	ND		
LVWPS-U3-MW06B	10/7/2020	137.3	LVWPS-U3-MW06B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW06B	12/30/2020	137.3	LVWPS-U3-MW06B-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06B	1/14/2021	137.3	LVWPS-U3-MW06B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06B	2/11/2021	137.3	LVWPS-U3-MW06B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06B	3/11/2021	137.3	LVWPS-U3-MW06B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06B	4/13/2021	137.3	LVWPS-U3-MW06B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07A	10/9/2020	89.9	LVWPS-U3-MW07A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW07A	12/30/2020	89.9	LVWPS-U3-MW07A-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07A	1/15/2021	89.9	LVWPS-U3-MW07A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND ND		
	.,	55.5		0_		1						I					1				



Location	Sample Date	Depth (ft	Sample ID	Event	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluore	escein		nine WT WT)	11.1.	mine WT WT)		damine B RB)		damine B RB)
Location	Sample Date	bgs)	Sample ID	Lvent	Zone	Chai	rcoal	Grour	idwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	ndwater	Cha	rcoal	Groun	ndwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)								
LVWPS-U3-MW07A	2/11/2021	89.9	LVWPS-U3-MW07A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07A	3/11/2021	89.9	LVWPS-U3-MW07A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07A	4/8/2021	89.9	LVWPS-U3-MW07A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07B	10/9/2020	114.3	LVWPS-U3-MW07B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW07B	12/30/2020	114.3	LVWPS-U3-MW07B-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07B	1/14/2021	114.3	LVWPS-U3-MW07B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07B	2/12/2021	114.3	LVWPS-U3-MW07B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07B	3/12/2021	114.3	LVWPS-U3-MW07B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07B	4/13/2021	114.3	LVWPS-U3-MW07B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08A	10/8/2020	130	LVWPS-U3-MW08A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW08A	12/30/2020	130	LVWPS-U3-MW08A-INJ	INJ	Zone 3	ND	ND	ND	ND	514.1	0.439	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW08A	1/15/2021	130	LVWPS-U3-MW08A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08A	2/12/2021	130	LVWPS-U3-MW08A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08A	3/12/2021	130	LVWPS-U3-MW08A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08A	4/9/2021	130	LVWPS-U3-MW08A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08B	10/8/2020	161.2	LVWPS-U3-MW08B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW08B	12/30/2020	161.2	LVWPS-U3-MW08B-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08B	1/15/2021	161.2	LVWPS-U3-MW08B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08B	2/12/2021	161.2	LVWPS-U3-MW08B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08B	3/12/2021	161.2	LVWPS-U3-MW08B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW08B	4/15/2021	161.2	LVWPS-U3-MW08B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW09	10/7/2020	97.8	LVWPS-U3-MW09-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW09	12/30/2020	97.8	LVWPS-U3-MW09-INJ	INJ	Zone 3	ND	ND	ND	ND	515.4	22.8	515.4 **	2.51	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW09	1/15/2021	97.8	LVWPS-U3-MW09-EM02	EM02	Zone 3	ND	ND	ND	ND	515.7	1.98	518.8 **	4.52	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW09	2/10/2021	97.8	LVWPS-U3-MW09-EM04	EM04	Zone 3	ND	ND	ND	ND	514.9	2.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW09	3/12/2021	97.8	LVWPS-U3-MW09-EM05	EM05	Zone 3			ND	ND			507.0	0.324			ND	ND			ND	ND
LVWPS-U3-MW09	4/8/2021	97.8	LVWPS-U3-MW09-EM06	EM06	Zone 3	ND	ND	ND	ND	515.5	9.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10A	10/5/2020	89.9	LVWPS-U3-MW10A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW10A	1/14/2021	89.9	LVWPS-U3-MW10A-EM02	EM02	Zone 3	ND	ND	ND	ND	515.9	6.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10A	2/11/2021	89.9	LVWPS-U3-MW10A-EM04	EM04	Zone 3	ND	ND	ND	ND	515.8	3.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10A	3/11/2021	89.9	LVWPS-U3-MW10A-EM05	EM05	Zone 3	ND	ND	ND	ND	515.7	5.55	ND	ND	566.1	4.01	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10A	4/8/2021	89.9	LVWPS-U3-MW10A-EM06	EM06	Zone 3	ND	ND	ND	ND	515.7	4.97	512.2 **	0.061	566.6	1.74	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10B	10/5/2020	111.1	LVWPS-U3-MW10B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW10B	1/14/2021	111.1	LVWPS-U3-MW10B-EM02	EM02	Zone 3	ND	ND	ND	ND	515.9	9.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10B	2/11/2021	111.1	LVWPS-U3-MW10B-EM04	EM04	Zone 3	ND	ND	ND	ND	515.8	35.8	507.7	1.35	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10B	3/11/2021	111.1	LVWPS-U3-MW10B-EM05	EM05	Zone 3	ND	ND	ND	ND	515.4	152	507.8	0.300	567.2	3.70	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW10B	4/9/2021	111.1	LVWPS-U3-MW10B-EM06	EM06	Zone 3	ND	ND	ND	ND	515.4	153	507.2	1.21	566.2	1.77	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW11A	10/7/2020	96.2	LVWPS-U3-MW11A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW11A	1/15/2021	96.2	LVWPS-U3-MW11A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11A	2/12/2021	96.2	LVWPS-U3-MW11A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11A	3/11/2021	96.2	LVWPS-U3-MW11A-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11A	4/9/2021	96.2	LVWPS-U3-MW11A-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11B	10/7/2020	124.8	LVWPS-U3-MW11B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW11B	1/18/2021	124.8	LVWPS-U3-MW11B-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11B	2/12/2021	124.8	LVWPS-U3-MW11B-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11B	3/12/2021	124.8	LVWPS-U3-MW11B-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11B	4/14/2021	124.8	LVWPS-U3-MW11B-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11C	10/8/2020	153.1	LVWPS-U3-MW11C-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW11C	1/18/2021	153.1	LVWPS-U3-MW11C-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11C	2/12/2021	153.1	LVWPS-U3-MW11C-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11C	3/12/2021	153.1	LVWPS-U3-MW11C-EM05	EM05	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW11C	4/14/2021	153.1	LVWPS-U3-MW11C-EM06	EM06	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		



Table 3 Tracer Dye Analytical Results

Las Vegas Wash Bioremediation Pilot Study

Lagation	Sample Date	Depth (ft	Samuela ID	Front	Zone	Eos	sine	Eo	sine	Fluor	escein	Fluor	escein	Rhodan (RV	nine WT WT)	Rhodan (R\	nine WT WT)		damine B RB)	Sulforhoo (SF	damine B RB)
Location	Sample Date	bgs)	Sample ID	Event	Zone	Char	coal	Grour	idwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	idwater	Cha	rcoal	Groun	dwater
						Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)	Peak(nm)	Conc.(ppb)
LVWPS-U3-MW12A	10/6/2020	98	LVWPS-U3-MW12A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW12A	1/15/2021	98	LVWPS-U3-MW12A-EM02	EM02	Zone 3	ND	ND	ND	ND	515.5	0.536	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12A	2/12/2021	98	LVWPS-U3-MW12A-EM04	EM04	Zone 3	ND	ND	ND	ND	515.9	1.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12A	3/12/2021	98	LVWPS-U3-MW12A-EM05	EM05	Zone 3	ND	ND	ND	ND	515.4	2.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12A	4/15/2021	98	LVWPS-U3-MW12A-EM06	EM06	Zone 3	ND	ND	ND	ND	516.0	1.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12B	10/6/2020	125.5	LVWPS-U3-MW12B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW12B	1/15/2021	125.5	LVWPS-U3-MW12B-EM02	EM02	Zone 3	ND	ND	ND	ND	516.0	3.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12B	2/12/2021	125.5	LVWPS-U3-MW12B-EM04	EM04	Zone 3	ND	ND	ND	ND	515.4	1.98	508.4	0.253	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12B	3/12/2021	125.5	LVWPS-U3-MW12B-EM05	EM05	Zone 3	ND	ND	ND	ND	515.3	11.0	507.2	0.112	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW12B	4/15/2021	125.5	LVWPS-U3-MW12B-EM06	EM06	Zone 3	ND	ND	ND	ND	515.7	3.61	507.3	0.108	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13A	10/7/2020	108.5	LVWPS-U3-MW13A-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW13A	12/30/2020	108.5	LVWPS-U3-MW13A-INJ	INJ	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW13A	1/15/2021	108.5	LVWPS-U3-MW13A-EM02	EM02	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW13A	2/11/2021	108.5	LVWPS-U3-MW13A-EM04	EM04	Zone 3	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW13A	3/12/2021	108.5	LVWPS-U3-MW13A-EM05	EM05	Zone 3	ND	ND			ND	ND			570.2	1.45			ND	ND		
LVWPS-U3-MW13A	4/8/2021	108.5	LVWPS-U3-MW13A-EM06	EM06	Zone 3	ND	ND	ND	ND	ND	ND	ND	ND	569.5	1.83	570.8 **	1.56	ND	ND	ND	ND
LVWPS-U3-MW13B	10/7/2020	140.1	LVWPS-U3-MW13B-BL04	BL04	Zone 3							ND	ND			ND	ND				
LVWPS-U3-MW13B	12/30/2020	140.1	LVWPS-U3-MW13B-INJ	INJ	Zone 3	ND	ND	ND	ND	515.3	77.9	507.0	0.133	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	12/30/2020	140.1	LVWPS-U3-MW13B-INJ-FD	INJ	Zone 3	ND	ND	ND	ND	515.3	87.3	507.3	0.299	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	1/15/2021	140.1	LVWPS-U3-MW13B-EM02	EM02	Zone 3	ND	ND	ND	ND	515.3	5.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	1/15/2021	140.1	LVWPS-U3-MW13B-EM02-FD	EM02	Zone 3	ND	ND	ND	ND	515.3	9.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	2/12/2021	140.1	LVWPS-U3-MW13B-EM04	EM04	Zone 3	ND	ND	ND	ND	515.2	10.7	507.7	0.267	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	2/12/2021	140.1	LVWPS-U3-MW13B-EM04-FD	EM04	Zone 3	ND	ND	ND	ND	515.3	7.91	508.8	0.246	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	3/15/2021	140.1	LVWPS-U3-MW13B-EM05	EM05	Zone 3	ND	ND	ND	ND	514.4	12.2	505.9	0.128	ND	ND	ND	ND	ND	ND	ND	ND
LVWPS-U3-MW13B	4/14/2021	140.1	LVWPS-U3-MW13B-EM06	EM06	Zone 3	ND	ND	ND	ND	515.6	3.81	507.2	0.097	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

nm nanometers
conc concentration
ppb parts per billion
ND No dye detected
FD field duplicate

** A fluorescence po

* A fluorescence peak is present that does not meet all the criteria for this dye. However, it has been calculated as a positive dye result. See note 2 below.

- 1. Dye concentrations are based upon standards used at the Ozark Underground Laboratory (OUL). The standard concentrations are based upon the as sold weight of the dye that the OUL uses 20% by weight for rhodamine WT and 75% by weight for fluorescein.
- 2. Emission fluorescence peaks are a function of the dye and the liquid matrix of the sample. Narrow acceptable wavelength ranges usually used as a criterion for positive dye detections do not always apply to samples from this study due to the presence of varying concentrations of emulsified vegetable oil and an eluting solution mixed in with the samples.