

# TECHNICAL MEMORANDUM

То:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Dana Grady
Date:	February 22, 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 January 2021 toward successfully implementing the Las Vegas Wash Bioremediation Pilot Study.

#### Task Progress Update: January 2021

#### Task M19 – Las Vegas Wash Pilot Study

- Current Status
  - The first injection event was completed in December 2020 and the pilot study is currently in the effectiveness monitoring phase. A summary of the injections and on-going effectiveness monitoring program and results are provided below. A layout map and construction details of all injection, monitoring, and extraction wells are provided as Figures 1 through 4 and Table 1.
    - <u>Injection Activities</u> Mobilization and set-up activities associated with the first injection event began on November 30, 2020. Injections into all three remediation zones (Zones 1, 2, and 3) were performed from December 7, 2020 to December 22, 2020, with demobilization of the majority of injection equipment by December 23, 2020. Following the completion of active injections, frac tanks and residual materials and equipment were demobilized in late December 2020 through early January 2021. Details of the first injection event, including a summary of injection rates, pressures, quantities, and specific gravity information, are included in Tables 2 through 9 as attachments to this monthly progress report. Noteworthy items from the first injection event are as follows:
      - As described in the Work Plan Addendum, in order to more accurately determine the effective porosity of the formation in the vicinity of the injection well transect, two dose response well clusters were installed at strategic locations within each of the three zones to monitor for dye included in the injection solution. During the injection process, groundwater from the dose response monitoring wells was periodically monitored using visual observation and commercially available field

probes to determine when breakthrough of the dye occurred and log the concentrations of dye at specific cumulative injection volumes. Results from this monitoring indicated that the Zone 2 alluvium generally had an effective porosity in the expected designed range; therefore, no changes were made to the Zone 2 alluvium targeted distribution water volumes. Results from the dose response monitoring in the Zones 1, 2, and 3 Upper Muddy Creek formation (UMCf) and UMCf-coarse grained (UMCf-cg) indicated a lower effective porosity, generally ranging from 1 to 2 percent, which is lower than the previous conservative estimate of 7 percent. As a result, the UMCf and UMCf-cg distribution water volumes were proportionately reduced using the new porosity estimates. Although this resulted in lower distribution water volumes, at a minimum, each of the injection wells were flushed with at least six borehole volumes (using the borehole diameter, screened interval, and filter pack porosity).

- Of the 64 injection wells installed as part of the pilot study, five injection wells screened within the UMCf/UMCf-cg in Zones 2 and 3 did not take the designed volume of injectate during the first injection event. The UMCf has varying lithology, cementation, and compaction, and is also locally faulted. All of these factors lead to variable injection capacity and a limited subset of wells with low injectability was expected.
  - Specifically, three of the five injection wells are located in Zone 2 (LVWPS-U2-IW06, LVWPS-U2-IW07, and LVWPS-IW10). LVWPS-U2-IW06 and LVWPS-U2-IW07 are installed in an area of thin unconsolidated UMCf just above a bedrock high. As a result, the screened intervals are shorter and the observed geology in these intervals included a larger proportion of strongly cemented material, which may have resulted in decreased injection capacity. The LVWPS-U2-IW10 screened interval is in significantly finer-grained material (nearly 100% silt) as compared to other injection wells in this transect. Similar to LVWPS-U2-IW06 and LVWPS-U2-IW07, it is located in an area with only a thin zone of unconsolidated UMCf.
  - The fourth and fifth injection wells are located within a single location in Zone 3 (LVWPS-U3-IW08A/B) and is the closest of all injection wells to the bedrock outcrop and adjacent fault. These two wells at this location are screened across a larger proportion of poorly-sorted UMCf-cg fan deposits and less of the normally well-sorted UMCf material, which likely resulted in lower dispersive/diffusive transport and therefore decreased injection capacity.
- <u>Effectiveness Monitoring</u> Baseline groundwater sampling was completed in the fall of 2020 prior to the first injection event. Following the first injection event, the monitoring program described in the Work Plan Addendum was implemented to evaluate the effectiveness of in-situ bioremediation. As part of this monitoring program, groundwater sampling is being conducted on a biweekly basis for the Zone 2 alluvium for the first two months post-injection followed by monthly sampling. Groundwater sampling is being conducted monthly for Zones 1, 2, and 3 UMCf/UMCf-cg.
  - The following effectiveness monitoring events have been completed through January 2021:

- The first biweekly effectiveness monitoring groundwater sampling event for Zone 2 monitoring wells screened in the alluvium was conducted from December 21, 2020 to December 23, 2020.
- The first monthly effectiveness monitoring event for monitoring wells screened in all three remediation zones was conducted from January 11, 2021 to January 18, 2021.
- The second biweekly sampling event for Zone 2 monitoring wells screened in the alluvium was performed from January 25, 2021 to January 29, 2021.
- Groundwater analytical results from the baseline sampling event and first biweekly sampling event are provided in Table 10. Groundwater analytical results from the first monthly and second biweekly groundwater sampling event will be provided in future monthly progress reports as data become available. Results from the first biweekly sampling event of monitoring wells screened in Zone 2 alluvium are summarized below.
  - Cross-gradient monitoring wells LVWPS-A2-MW04A/B and LVWPS-A2-MW05A/B were installed in the alluvium approximately 17 feet from the injection well at either end of the Zone 2 transect to provide information regarding the radius of influence (ROI) of the injection wells (See Figure 3). Approximately two weeks after injection activities were complete, results indicate the targeted ROI was achieved during injections. Evidence of this includes the observation of contaminant concentration decreases, presence of dye, and/or increases of total organic carbon (TOC), which can sometimes be a surrogate parameter to evaluate carbon substrate distribution in the subsurface, at all four cross-gradient monitoring wells. These cross-gradient monitoring wells exhibited an average percentage decrease in groundwater perchlorate concentrations (compared to baseline concentrations) ranging from 18 percent to more than 99 percent, indicating that biodegradation of perchlorate is occurring two weeks after the first injection event.
  - 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 54 percent during the first biweekly sampling event. Of these 14 monitoring wells, groundwater samples collected from four monitoring wells had a greater than 95 percent reduction in perchlorate concentration during the first biweekly sampling event.
  - Groundwater samples collected from monitoring wells LVWPS-MW208B and LVWPS-MW223B, which are located approximately 200-250 feet downgradient of the injection well transect, exhibited perchlorate concentration decreases of 36 percent and 59 percent when compared to baseline concentrations, respectively.
  - Chlorate results followed a similar pattern to perchlorate results for samples collected during the first biweekly sampling event. Groundwater samples collected from two of the four cross-gradient monitoring wells showed decreases in chlorate concentrations of greater than 98 percent compared to baseline. Groundwater samples collected from 12 of the 18

monitoring wells located between 50 and 250 feet downgradient of the injection well transect exhibited reductions in chlorate concentration of greater than 50 percent. Of these 12 monitoring wells, groundwater samples collected from seven of these monitoring wells exhibited concentration decreases greater than 90 percent when compared to baseline.

- 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 at Zone 2 alluvium monitoring wells averaged 17 milligrams per liter (mg/L) during the baseline sampling event. During the first biweekly sampling event, groundwater samples collected from 19 cross-gradient or downgradient monitoring wells exhibited decreases in nitrate concentrations to less than 10 mg/L. Of these 19 monitoring wells, groundwater samples collected from eight monitoring wells exhibited nitrate concentrations less than 1 mg/L.
- Surface water sampling is being conducted on a monthly basis at various locations along the Las Vegas Wash as part of the on-going surface water sampling program for the NERT site. As part of the pilot study, additional surface water locations were added in the vicinity of the Las Vegas Wash that is immediately downgradient of the pilot study area. Although limited surface water sampling will be periodically conducted downgradient of the study area, reducing perchlorate concentrations in surface water is not an objective of this pilot study. However, samples are being periodically collected to monitor for potential decreases in contaminant concentrations and/or increases in total organic carbon concentrations in likely downgradient discharge locations. Additionally, the first six months of samples will also include analysis of tracer dye (both charcoal and groundwater samples), which may inform approximately where the injected, tracer-tagged water from the study area is entering the Las Vegas Wash. Surface water sampling was performed prior to injection activities on October 16, 2020 and October 29, 2020. Two surface water sampling events have since been performed in December 2020 (during injections) and January 2021 (after injections). Noteworthy results related to the pilot study will be summarized in future monthly progress reports as warranted.
- <u>Dye Study</u> 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 sampling events are summarized below.
  - During active injections, samples were collected from: (i) each batch injected, (ii) periodically from the dose response well clusters (located approximately 7 feet downgradient of the injection wells), (iii) select downgradient monitoring wells based on field screening of the wells for the presence of dye. Additionally, charcoal samplers (a qualitative tool) were installed prior to the injections in nearby upgradient, cross-gradient, and downgradient monitoring wells within each remediation zone and collected following completion of the injection event. Charcoal samplers continue to collect dye over a period of time, so analysis of the charcoal samplers indicates presence or absence of dye at any point during suspension of the sampler in the well (in this case the duration of injection

activities). If dye is or was present based on the charcoal sampler results, the groundwater sample is analyzed to determine a dye concentration at the time of sample collection. Lastly, during effectiveness monitoring events, charcoal and groundwater samples are collected from upgradient, downgradient, and cross-gradient monitoring wells.

- Analytical results for dye samples collected during baseline activities, injection activities, and the first biweekly effectiveness monitoring event are provided Tables 11 through 13. Notable results include:
  - Zone 2 Alluvium:
    - During injection activities, rhodamine tracer dye was measured in all four of the Zone 2 alluvium dose response wells.
    - As previously discussed, cross-gradient monitoring wells LVWPS-A2-MW04A/B and LVWPS-A2-MW05A/B were installed in the alluvium approximately 17 feet from the injection well transect at either end of the Zone 2 injection well transect to provide information regarding the ROI. Rhodamine dye was detected with the field probe in all four of these wells during injections, confirming the ROI was achieved.
    - 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 3-5 days after injection activities were completed, rhodamine dye was detected in Zone 2 alluvium groundwater samples collected from all dose response wells, one cross-gradient monitoring well cluster, and at least one well in each 50-foot downgradient monitoring well cluster (including wells LVWPS-A2-MW08B/C, LVWPS-A2-MW09A/B, and LVWPS-A2-MW14A/B).
    - Approximately two weeks after Zone 2 alluvium injections were complete, rhodamine was detected in groundwater samples collected from several monitoring wells located approximately 100 feet downgradient of the injection well transect (namely, LVWPS-A2-MW12B, LVWPS-A2-MW13B, and LVWPS-A2-MW17C). Dye also continued to be detected two weeks after injections were completed in samples collected from crossgradient monitoring well cluster LVWPS-A2-MW05A/B and several monitoring wells located 50 feet downgradient.
  - Zone 1, 2, and 3 UMCf/UMCf-cg:
    - Fluorescein tracer dye was present in all 11 dose response wells screened in the UMCf/UMCf-cg in the three remediation zones based on analysis of groundwater samples via field probe and laboratory analysis. In Zones 1 and 3, no fluorescein tracer dye was detected in the dose response wells screened in the alluvium, indicating that the carbon substrate solution did not travel to the alluvium during injection activities in the vicinity of the injection well transects. During Zone 2 UMCf injections, fluorescein was detected in one dose response well screened in the alluvium, namely LVWPS-A2-DR02B. This may be due to

increased vertical permeability in Zone 2 UMCf due to preferential flow pathways generated by faulting.

- After injections were completed in Zone 1 UMCf, fluorescein tracer dye was detected in groundwater 50 feet upgradient of the injection well transect at LVWPS-U1-MW06B and LVWPS-U1-MW07. This was expected based on the low effective porosities calculated from dose response well data during injection activities (discussed above). Low effective porosity causes injectate solution to move farther from the injection points (both upgradient and downgradient) during injections, particularly when injecting under pressure. Dye was also detected at monitoring wells LVWPS-U1-MW08A/B located 25 feet downgradient during and after injection activities.
- In Zone 2 UMCf, fluorescein was detected in groundwater samples collected from dose response wells and one crossgradient monitoring well located approximately 12 feet from the injection well transect (LVWPS-U2-MW05) during injection activities.
- Lastly, after injections were completed in the Zone 3 UMCg-cg, fluorescein was detected in groundwater samples collected from all monitoring well clusters screened in the UMCf-cg approximately 25 feet downgradient of the Zone 3 injection well transect including at monitoring wells LVWPS-U3-MW03B, LVWPS-U3-MW09, and LVWPS-U3-MW13A/B.
- One additional interesting finding is that very low levels of rhodamine with a shifted fluorescence peak are being detected in Zone 1 UMCf well charcoal samplers (but not water samples). The shift in peak is often associated with older, degraded rhodamine, which may point to remnants of a historical tracer test upgradient near the Las Vegas Wash. It should be noted that rhodamine was not injected into Zone 1 UMCf.
- It should be noted that 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 are so low that they are not detectable. Results from future sampling events will be evaluated to provide additional clarification of the likely scenario.
- o Access and Permitting
  - All access agreements and permits are now in place for all projected pilot study activities.
- Schedule and Progress Updates
  - The second monthly effectiveness monitoring event is scheduled for the week of February 8, 2021.
- Health and Safety
  - o There were no safety incidents related to Task M19 during January 2021.
  - Safety measures continue to be implemented to minimize potential exposure to COVID-19, including the use of face coverings, gloves, and hand sanitizer, as well as protocols for monitoring temperatures, minimizing the number of people on site at one time, and evaluating tasks to increase physical distance between personnel.

#### 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

2 15.	Not Individually, but Solely as President of the Trustee
Signature: Am F Stim My	, not individually,
but solely in his representative capacity as President of	the Nevada Environmental Response Trust Trustee
Name: Jay A Steinberg not individually but solely i	n 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

262/21 Date:

#### 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.

S. Hansen

February 22, 2021

Date

**Kyle Hansen, CEM** Field Operations Manager/Geologist Tetra Tech, Inc.

Nevada CEM Certificate Number: 2167 Nevada CEM Expiration Date: September 18, 2022

### **Figures**









### **Tables**

Inches         feet amsl         feet amsl         feet bTOC         inches         inches         feet bgs	of Screen
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           LVWPS-A1-DR02         Alluvium         26734983.35         838269.32         1529.30         34.87         Single         Schedule 40 PVC         0.020         #3         6         79.0         2         20         78.5         78           LWVPS-A1-MW06         Alluvium         2673498.32         83812.17         1530.88         1530.55         36.10         Single         Schedule 40 PVC         0.020         #3         6         95.0         2         20         89.5         89           LWWPS-A1-MW06         Alluvium         2673494.28         838149.70         1523.90         1523.76         28.80         Single         Schedule 40 PVC         0.020         #3         6         86.0         2         20         78.5         78           LWPS-A1-MW07         Alluvium         2673502.71         838317.19         1529.61         1524.99         30.15         Single         Schedule 40 PVC         0.020         #3         6         91.0         20 <t< th=""><th>feet bgs</th></t<>	feet bgs
LVWPS-A1-DR01         Alluvium         26735024.80         838207.19         1524.39         29.38         Single         Schedule 40 PVC         0.020         #3         6         83.5         2         20         83         82.5           LVWPS-A1-DR02         Alluvium         26734983.35         838256.38         1524.57         1524.20         29.54         Single         Schedule 40 PVC         0.020         #3         6         92.5         2         20         78.5         78           LVWPS-A1-MW05         Alluvium         26734984.32         838142.17         1530.88         1530.55         36.10         Single         Schedule 40 PVC         0.020         #3         6         95.0         2         20         89.5         89           LVWPS-A1-MW06         Alluvium         26734994.26         838149.70         1523.06         1524.99         30.15         Single         Schedule 40 PVC         0.020         #3         6         80.0         2         20         78.5         78           LVWPS-A1-MW09         Alluvium         2673502.71         83817.19         1529.43         35.62         Single         Schedule 40 PVC         0.020         #3         6         91.5         2         20         7	
LVWPS-A1-MV02       Alluvium       2073493.33       638259.33       1529.32       1529.33       36.0       Single       Schedule 40 PVC       0.020       #3       6       95.0       2       20       89.5       89         LVWPS-A1-MW06       Alluvium       2673494.117       838149.70       1523.90       1523.76       28.80       Single       Schedule 40 PVC       0.020       #3       6       80.0       2       20       78.5       78         LVWPS-A1-MW07       Alluvium       26735080.18       838317.19       1529.01       1529.43       35.62       Single       Schedule 40 PVC       0.020       #3       6       107.0       2       20       106       105.5       105       105       105       105	62.8
LVWPS-A1-WW04         Audvirum         2073022:31         2033:2         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1023:32         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33         1033:33	50.3
LVWPS-A1-MW03       Alluvium       26734944.32       683512.17       1530.36       1523.90       1523.76       28.80       Single       Schedule 40 PVC       0.020       #3       6       91.5       2       20       91.9       90.5       1500.10       100.10       121.6       6       116.5       2	69.3
LVWPS-A1-MW00       Alluvium       26734934.26       338149.70       1323.90       1323.76       22.80       Single       Schedule 40 PVC       0.020       #3       6       80.0       2       20       78.5       78         LVWPS-A1-MW07       Alluvium       26734911.17       838213.86       1525.06       1529.43       35.62       Single       Schedule 40 PVC       0.020       #3       6       80.0       2       20       78.5       78.5         LVWPS-A1-MW09       Alluvium       26735029.71       838317.19       1529.43       35.62       Single       Schedule 40 PVC       0.020       #3       6       107.0       2       20       78.5       78.5         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         LVWPS-U1-DR01A       UMCf       2673502.64       838203.37       1524.09       1524.02       1523.94       28.89       Single       Schedule 40 PVC       0.010       #2/16       6       115.5       2       30       151.5       151.5       151.5         LVWPS-U1-DR02B	69.3 50.2
LVWPS-A1-MW07       AldVidin       20734911.17       630213.00       1324.00       1324.39       35.13       Single       Schedule 40 PVC       0.020       #3       6       107.0       2       20       106       105.5         LVWPS-A1-MW09       Alluvium       26735029.71       838317.19       1529.61       1529.43       35.62       Single       Schedule 40 PVC       0.020       #3       6       107.0       2       20       106       105.5         LVWPS-A1-MW10       Alluvium       26735080.18       83837.96       1527.26       1527.07       33.55       Single       Schedule 40 PVC       0.020       #3       6       91.5       2       20       91       90.5         LVWPS-U1-DR01A       UMCf       267350827.64       838205.37       1524.09       1524.00       29.15       Single       Schedule 40 PVC       0.010       #2/16       6       116.5       2       25       115.5       115         LVWPS-U1-DR01B       UMCf       267350827.64       838203.16       1524.07       1523.92       29.15       Single       Schedule 40 PVC       0.010       #2/16       6       115.5       2       30       117.5       116.5       115.5       155       155	59.3
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LVWPS-U1-DR01A         UMCf         26735027.64         838203.73         1524.09         1524.00         29.15         Single         Schedule 40 PVC         0.010         #2/16         6         116.5         2         25         115.5	70.8
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LVWPS-U1-DR02D       UMCf       26734986.83       838232.68       1524.02       1523.92       29.15       Single       Schedule 40 PVC       0.010       #2/16       6       117.5       2       30       117       116.5         LVWPS-U1-DR02B       UMCf       26734986.83       838232.08       1523.92       1523.71       28.63       Single       Schedule 40 PVC       0.010       #2/16       6       117.5       2       30       117       116.5         LVWPS-U1-DR02B       UMCf       26734986.83       838232.08       1523.92       1523.71       28.63       Single       Schedule 80 PVC       0.010       #2/16       6       153.5       2       30       153       152.5         LVWPS-U1-IW01A       UMCf       26735044.44       838182.98       1523.67       1523.65       28.76       Dual-Nested       Schedule 40 PVC       0.010       #2/16       10       155.0       2       2       25       114       113.5         LVWPS-U1-IW02A       UMCf       26735024.14       838182.98       1524.46       1524.39       29.41       Dual-Nested       Schedule 40 PVC       0.010       #2/16       10       155.0       2       2       25       115.5       115.5       115.5<	121.3
LivwPS-U1-IN02A         UMCf         26734991.38         83823.208         1523.92         1523.71         28.63         Single         Schedule to PVC         0.010         #2/16         6         153.5         2         30         153         152.5           LVWPS-U1-IW01A         UMCf         26735044.59         838183.29         1523.67         1523.72         28.91         Dual-Nested         Schedule 40 PVC         0.010         #2/16         6         153.5         2         30         153         152.5           LVWPS-U1-IW01B         UMCf         26735044.44         838182.98         1523.67         1523.65         28.76         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         25         114         113.5           LVWPS-U1-IW02A         UMCf         26735024.11         838198.37         1524.46         1524.39         29.41         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         25         115.5         115           LVWPS-U1-IW02B         UMCf         26735024.66         1524.46         1524.43         29.42         Dual-Nested         Schedule 40 PVC         0.010         #2/16         2         2<	86.8
LVWPS-U1-IW01A         UMCf         26735044.59         838183.29         1523.67         1523.72         28.91         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         2         25         114         113.5           LVWPS-U1-IW01B         UMCf         26735044.44         838182.98         1523.67         1523.72         28.91         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         2         25         114         113.5           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           LVWPS-U1-IW02A         UMCf         26735024.11         838198.37         1524.46         1524.32         29.41         Dual-Nested         Schedule 40 PVC         0.010         #2/16         2         25         115.5         115           LVWPS-U1-IW02B         UMCf         26735024.96         838198.03         1524.46         1524.43         29.42         Dual-Nested         Schedule 40 PVC         0.010         #2/16         2         25         115.5         115           LVWPS-U1-IW02B         UMCf	122.8
LVWPS-U1-IW01B         UMCf         26735044.44         838182.98         1523.67         1523.65         28.76         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         25         145.5         145           LVWPS-U1-IW02A         UMCf         26735024.11         838198.37         1524.46         1524.39         29.41         Dual-Nested         Schedule 40 PVC         0.010         #2/16         2         25         145.5         145           LVWPS-U1-IW02B         UMCf         26735024.96         838198.03         1524.46         1524.32         29.41         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         25         115.5         115           LVWPS-U1-IW02B         UMCf         26735004.66         838193.3         1524.46         1524.43         29.42         Schedule 40 PVC         0.010         #2/16         10         155.0         2         30         151.5         155           LVWPS-U1-IW02B         UMCf         26735004.66         838193.18         1523.55         28.59         -         Schedule 40 PVC         0.010         #2/16         2         25         119         118.5	88.8
LVWPS-U1-IW02A         UMCf         26735024.11         838198.37         1524.46         1524.39         29.41         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         25         115.5         115           LVWPS-U1-IW02B         UMCf         26735023.96         838198.03         1524.46         1524.43         29.42         Schedule 40 PVC         0.010         #2/16         10         155.0         2         30         151.5         151           LVWPS-U1-IW03A         UMCf         26735004.66         838213.18         1523.85         28.59	120.3
LVWPS-U1-IW02B         UMCf         26735023.96         838198.03         1524.46         1524.43         29.42         Dual-Nested         Schedule 40 PVC         0.010         #2/16         10         155.0         2         30         151.5         151           LVWPS-U1-IW03A         LIMCf         26735004.66         838213.18         1523.88         1523.55         28.59	90.3
1 VWPS-11-1W03A LIMCf 26735004.66 838213.18 1523.88 1523.55 28.59 Schedule 40 PVC 0.010 #2/16 2 25 119 118.5	121.3
	93.8
LVWPS-U1-IW03B UMCf 26735004.34 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 Distanced Schedule 40 PVC 0.010 #2/16 do dec 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 Duel Nactor Schedule 40 PVC 0.010 #2/16 40 455.0 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 10 155.0 2 25 145.5 145	120.3
LVWPS-U1-IW06A UMCf 26734945.21 838258.76 1524.91 1525.12 30.40 Duel Norted 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 Dual-Nested Schedule 40 PVC 0.010 #2/16 10 107.3 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 Dual Vice Schedule 40 PVC 0.010 #2/16 10 100.0 2 25 152.5 152	127.3
LVWPS-U1-IW08A UMCf 26734905.81 838289.00 1529.69 1530.71 35.85 Dual-Nested Schedule 40 PVC 0.010 #2/16 10 170.0 2 30 125.5 125	95.3
LVWPS-U1-IW08B UMCf 26734905.38 838288.84 1529.69 1530.83 35.70 Dual Schedule 40 PVC 0.010 #2/16 10 11.00 2 25 157 156.5	131.8
LVWPS-U1-MW01A         UMCf         26735054.25         838206.27         1526.30         1526.15         31.60         Single         Schedule 40 PVC         0.010         #2/16         6         116.0         2         25         115.5         115	90.3
LVWPS-U1-MW01B         UMCf         26735052.48         838200.84         1525.78         1525.85         30.95         Single         Schedule 80 PVC         0.010         #2/16         8         157.5         4         20         153.5         153.5	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-01-MW06A UMCt 26734986.21 838153.16 1523.81 1523.70 28.56 Single Schedule 40 PVC 0.010 #2/16 6 106.5 2 20 105.5 105	85.3
LVWPS-01-MW00B UMCt 26734991.82 838156.18 1524.09 1523.73 28.51 Single Schedule 40 PVC 0.010 #2/16 6 143.0 2 25 134.5 134	109.3
LVWPS-U1-MW07 UMCt 26734907.19 838218.01 1525.17 1524.96 30.16 Single Schedule 40 PVC 0.010 #2/16 6 140.0 2 25 11.15 111	86.3
LVWPS-01-MW00A UMCt 26735014.52 838236.36 1524.11 1523.97 29.20 Single Schedule 40 PVC 0.010 #2/16 6 120.0 2 25 119 118.5	93.8
LVWYFS-UI-WWV05 UWG 26/3501/.13 838233.33 1523.84 1523./4 28./5 Single Schedule 80 PVC 0.010 #2/16 6 151.0 2 25 150.5 150	125.3
LVWPS-UI-MWVUSA UMCL 20730002.50 638320.87 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-UI-MWUVB UMUL 20730043.10 638320.98 1529.37 1529.08 34.52 Single Schedule 80.PVC 0.010 #2/16 6 156.0 2 25 155.5 155	130.3
LVVVPS-01-11/11 MW/100 LIMCF 2073000342 030340.49 1327.11 1327.12 33.20 Single Schedule 40.PVC 0.010 #2/10 0 123.0 2 25 124.5	120.2
Zone 2 Study Area	130.3
1VWPS-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 Alluvium 26734896.42 838884.23 1524.80 1524.57 31.75 Single Schedule 40 PVC 0.020 #3 6 113.0 2 35 112.5 112	77.3
LVWPS-A2-DR02A Alluvium 26734894.17 838964.08 1524.91 1524.65 32.00 Sindle Schedule 40 PVC 0.020 #3 6 52.5 2 15 52 51.5	36.8
LVWPS-A2-DR02B Alluvium 26734896.56 838956.61 1524.91 1524.90 32.09 Single Schedule 40 PVC 0.020 #3 6 78.5 2 20 78 77.5	57.8

	Screened	N and block	E the se	Ground Surface	Top of Casing	Depth to	Construction	Construction	Slot Size	Filter	Borehole	Borehole Total	Well	Nominal Screen	Well Total	Bottom of	Top of
weil iD	Lithology	Northing	Easting	Elevation	Elevation	Water'	Туре	Material		Pack	Diameter	Depth	Diameter	Length	Depth	Screen	Screen
				feet amsl	feet amsl	feet bTOC			inches	Grauation	inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
LVWPS-A2-IW01A	Alluvium	26734887.97	838782.98	1530.17	1529.79	36.44	Dual-Nested	Schedule 40 PVC	0.020	#3	10	105.0	2	25	66.5	66	41.3
LVWPS-A2-IW01B	Alluvium	26734888.00	838782.65	1530.17	1529.78	36.64	Buarriootou	Schedule 40 PVC	0.020	#3	10	100.0	2	25	98	97.5	72.8
LVWPS-A2-IW02A	Alluvium	26734888.97	838815.84	1529.49	1529.01	35.88	Dual-Nested	Schedule 40 PVC	0.020	#3	10	110.0	2	30	69	68.5	38.8
LVWPS-A2-IW02B	Alluvium	26734889.05	838815.49	1529.49	1529.03	36.22		Schedule 40 PVC	0.020	#3	-		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		Schedule 40 PVC	0.020	#3			2	30	104	103.5	73.8
LVVVPS-AZ-IVV04A	Alluvium	26734889.81	838887.08	1524.70	1524.57	31.70	Dual-Nested	Schedule 40 PVC	0.020	#3	10	115.0	2	35	/1.5	71	30.3
LVWPS-A2-IW04B	Alluvium	26734890.02	838886.74	1524.70	1524.61	31.80		Schedule 40 PVC	0.020	#3			2	35	112.5	112	27.0
	Alluvium	20734009.13	030921.04	1524.09	1524.00	32.05	Dual-Nested	Schedule 40 PVC	0.020	#3	10	105.0	2	25	04	02.5	57.0
LVWPS-A2-100050	Alluvium	20734009.30	030920.74	1524.09	1524.03	31.94		Schedule 40 PVC	0.020	#3			2	23	52	93.5	26.9
LVWPS-A2-1000A	Alluvium	20734000.01	030937.92	1524.94	1524.91	32.20	Dual-Nested	Schedule 40 PVC	0.020	#3	10	80.0	2	10	79	51.5 77.5	57.9
LVVVPS-A2-IVV00B	Alluvium	20734000.04	838001 11	1524.94	1524.09	31.57		Schedule 40 PVC	0.020	#3			2	20	50.5	50	35.3
LVWI 3-A2-IW07A	Alluvium	26734880 32	838000 81	1524.39	1524.31	31.57	Dual-Nested	Schedule 40 PVC	0.020	#3	10	85.0	2	20	76.5	76	56.3
LVWI 3-A2-IW07B	Alluvium	26734889.80	830026 35	1524.55	1524.34	32.10		Schedule 40 PVC	0.020	#3			2	20	56	55.5	35.8
LVWPS_A2-IW00A	Alluvium	26734889.91	839026.04	1524.05	1524.74	32.10	Dual-Nested	Schedule 40 PVC	0.020	#3	10	90.0	2	20	82	81.5	61.8
LVWPS_A2_IW00B	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_IW09A	Alluvium	26734889 14	839060.89	1525.33	1525.37	32.60	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
LVWI O-AZ-WWOTA	Allaviam	20704000.04	000017.00	1020.01	1020.20	00.07	olligic		0.020	#0	0	01	2	20	00.0	00	+0.0
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	Alluvium	26734938.06	838813.32	1529.24	1528.93	36.25	Single	Schedule 40 PVC	0.020	#3	6	110.0	2	20	106.5	106	86.3
LVWPS-A2-MW09A	Alluvium	26734942.12	839052.25	1523.77	1523.56	30.91	Single	Schedule 40 PVC	0.020	#3	6	56.0	2	20	55	54.5	34.8
LVWPS-A2-MW09B	Alluvium	26734943.95	839045.22	1523.85	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	26734984.76	838791.31	1528.05	1528.00	35.10	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	1528.01	1527.79	35.06	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	1527.81	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

		Northing	G Fasting	Ground Top of Depth to			uction Construction	Slot Sizo	Filter	Borehole	ehole Borehole W		Nominal	Well	Bottom	Тор	
Well ID	Screened	Northing	Easting	Surface	Casing	Water <sup>1</sup>	Construction	Construction	Slot Size	Pack	Diameter	Total	Diameter	Screen	Total	of	of
	Lithology			Elevation	Elevation	fact hTOC	Гуре	Material	lashee	Gradation	luches	Depth	Inches	Length	Depth	Screen	Screen
	Allunvinum	26724029 74	929046 20	1504 51	1524 22	21 70	Single	Sebadula 40 DVC	0.020	#2	Inches	reet bgs	inches	20		Teet bgs	FA 9
LVVVP3-A2-IVIVV14D	Alluvium	26735094.04	838828.85	1524.51	1524.52	28.70	Single	Schedule 40 PVC	0.020	#3	6	61.0	2	20	75 60	74.5	30.8
LVWPS-A2-MW15R	Alluvium	26735101 30	838829.49	1521.20	1520.93	20.70	Single	Schedule 40 PVC	0.020	#3	6	110.0	2	20	90.5	90.0 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	117.5	87.7
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	89.2
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	UMCf	26734886.91	838830.51	1528.30	1528.02	35.26	Single	Schedule 40 PVC	0.010	#2/16	6	135.0	2	25	134.2	133.7	108.9
LVWPS-U2-IW12	UMCf	26734889.28	838856.13	1526.66	1526.14	33.53	Single	Schedule 40 PVC	0.010	#2/16	6	139.0	2	25	138	137.5	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	UMCf	26734941.56	839048.32	1523.83	1523.62	31.61	Single	Schedule 40 PVC	0.010	#2/16	6	115.0	2	20	105.2	104.7	84.9
LVWPS-U2-MW10	UMCf	26734942.01	839149.60	1525.67	1525.57	34.12	Single	Schedule 40 PVC	0.010	#2/16	6	120.0	2	20	110.5	110	90.2
LVWPS-U2-MW12	UMCf	26734992.74	838953.32	1523.09	1522.89	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
	UMCT	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-BHUI		20734872.28	838780.13	1530.46			Zone 3 S	tudy Aroa			0	105.0					
L\//W/PS_A3_DR01	Alluvium	2673/011 52	830503 33	1522.87	1522 71	30.41	Single	Schedule 40 PV/C	0.020	#3	6	76.5	2	20	76	75.5	55.8
LVWPS-A3-MW02	Alluvium	26734944 12	839475.20	1522.07	1522.71	30.41	Single	Schedule 40 PVC	0.020	#3	6	85.0	2	20	73	72.5	52.8
LVWPS_A3_MW/06	Alluvium	26734960 45	839530 77	1522.01	1522.00	30.03	Single	Schedule 40 PV/C	0.020	#3 #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	1523.27	1523.13	30.96	Single	Schedule 40 PVC	0.010	#2/16	6	112.5	2	25	111.5	111	86.3

	Screened	Northing	Facting	Ground Surface	Top of Casing	Depth to	Construction	Construction	Slot Size	Filter	Borehole	Borehole Total	Well	Nominal Screen	Well Total	Bottom of	Top of
weil ID	Lithology	Northing	Easting	Elevation	Elevation	Water	Туре	Material		Gradation	Diameter	Depth	Diameter	Length	Depth	Screen	Screen
				feet amsl	feet amsl	feet bTOC			inches	Gradation	inches	feet bgs	inches	feet	feet bgs	feet bgs	feet bgs
LVWPS-U3-DR02B	UMCf-cg	26734925.39	839579.10	1523.15	1522.98	31.05	Single	Schedule 40 PVC	0.010	#2/16	6	144.0	2	25	143	142.5	117.8
LVWPS-U3-DR02C	UMCf-cg	26734925.79	839582.56	1523.10	1522.90	31.03	Single	Schedule 80 PVC	0.010	#2/16	6	175.0	2	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-cg	26734896.96	839458.60	1522.81	1524.20	33.32	Dual-Nested	Schedule 40 PVC	0.010	#2/16	10	128.0	2	20	99.5	99	79.3
LVWPS-U3-IW02B	UMCf-cg	26734896.77	839458.31	1522.81	1524.22	32.78		Schedule 40 PVC	0.010	#2/16			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		Schedule 40 PVC	0.010	#2/16	_		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		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	UMCf-cg	26734914.65	839556.40	1522.79	1522.83	30.52	l	Schedule 40 PVC	0.010	#2/16			2	25	111.5	111	86.3
LVWPS-U3-IW06B	UMCf-cg	26734914.56	839556.00	1522.79	1522.89	30.68	I riple-Nested	Schedule 40 PVC	0.010	#2/16	10	175.0	2	25	143	142.5	117.8
LVWPS-U3-IW06C	UMCf-cg	26734914.32	839556.27	1522.79	1522.85	31.02		Schedule 40 PVC	0.010	#2/16			2	25	174.5	174	149.3
LVWPS-U3-IW07A	UMCf-cg	26734918.75	839580.97	1523.32	1523.03	30.80	l	Schedule 40 PVC	0.010	#2/16			2	25	111.5	111	86.3
LVWPS-U3-IW07B	UMCf-cg	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	l	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	UMCf-cg	26734943.22	839481.31	1522.50	1522.21	30.76	Single	Schedule 80 PVC	0.010	#2/16	8	130.0	4	20	123	122.5	103
LVWPS-U3-MW03A	UMCf-cg	26734944.17	839583.42	1522.80	1522.68	30.60	Single	Schedule 40 PVC	0.010	#2/16	6	112.5	2	25	111.5	111	86.3
LVWPS-U3-MW03B	UMCf-cg	26734944.11	839576.72	1522.86	1522.49	30.68	Single	Schedule 80 PVC	0.010	#2/16	8	179.0	4	25	176.2	175.7	151.1
LVWPS-U3-MW03C	UMCf-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	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-cg	26735014.90	839559.83	1521.28	1521.35	29.91	Single	Schedule 40 PVC	0.010	#2/16	6	138.0	2	25	137.5	137	112.3
LVWPS-U3-MW11C	UMCf-cg	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-cg	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-cg	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

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation feet amsl	Top of Casing Elevation feet amsl	Depth to Water <sup>1</sup> feet bTOC	Construction Type	Construction Material	Slot Size inches	Filter Pack Gradation	Borehole Diameter inches	Borehole Total Depth feet bgs	Well Diameter inches	Nominal Screen Length feet	Well Total Depth feet bgs	Bottom of Screen feet bgs	Top of Screen feet bgs
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.

#### Table 2 **Summary of Groundwater Extraction Activities** Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Nevada Environmental Response Trust

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
	LVWPS-EW01	14:03	15:56	59.0	6,670.6	6,670.6
	LVWPS-EW02	-	-	-	-	-
40/4/0000	LVWPS-EW03	14:27	15:56	56.6	5,037.5	5,037.5
12/4/2020	LVWPS-EW04	13:55	15:56	66.6	8,063.6	8,063.6
	LVWPS-EW05	14:06	15:56	23.5	2,590.3	2,590.3
	LVWPS-MW206B	-	-	-	-	-
	LVWPS-EW01	15:51	16:53	47.9	2,972.2	9,642.8
	LVWPS-EW02	15:49	16:53	24.8	1,586.3	1,586.3
12/7/2020	LVWPS-EW03	15:47	16:53	46.7	3,080.6	8,118.1
12/1/2020	LVWPS-EW04	15:48	16:53	51.5	3,345.3	11,408.9
	LVWPS-EW05	15:50	16:53	26.1	1,644.2	4,234.6
	LVWPS-MW206B	16:30	16:53	56.0	1,287.7	1,287.7
	LVWPS-EW01	7:50	8:56	45.1	2,973.9	12,616.6
	LVWPS-EW02	7:50	8:56	19.4	1,281.6	2,867.9
12/8/2020	LVWPS-EW03	7:46	8:56	52.3	3,659.9	11,778.0
12/0/2020	LVWPS-EW04	7:46	8:56	58.4	4,086.6	15,495.5
	LVWPS-EW05	7:50	8:56	24.3	1,605.5	5,840.1
	LVWPS-MW206B	7:46	8:56	46.2	3,231.6	4,519.2
	LVWPS-EW01	7:57	8:41	57.0	2,509.2	15,125.8
	LVWPS-EW02	7:57	8:41	25.0	1,098.0	3,965.8
12/0/2020	LVWPS-EW03	7:55	8:41	56.3	2,591.6	14,369.6
12/9/2020	LVWPS-EW04	7:55	8:41	63.1	2,901.4	18,396.9
	LVWPS-EW05	7:57	8:41	30.4	1,335.8	7,175.8
	LVWPS-MW206B	7:55	8:41	56.6	2,603.7	7,123.0
	LVWPS-EW01	11:02	11:43	62.6	2,566.2	17,692.0
	LVWPS-EW02	11:02	11:43	27.5	1,128.4	5,094.2
12/0/2020	LVWPS-EW03	11:03	11:43	64.1	2,563.8	16,933.4
12/3/2020	LVWPS-EW04	11:03	11:43	72.0	2,878.2	21,275.1
	LVWPS-EW05	11:02	11:43	33.4	1,369.1	8,545.0
	LVWPS-MW206B	11:03	11:43	64.5	2,581.4	9,704.3
	LVWPS-EW01	-	-	-	-	17,692.0
	LVWPS-EW02	-	-	-	-	5,094.2
12/9/2020	LVWPS-EW03	14:16	14:23	66.6	466.2	17,399.6
12/0/2020	LVWPS-EW04	14:16	14:23	73.2	512.2	21,787.3
	LVWPS-EW05	-	-	-	-	8,545.0
	LVWPS-MW206B	14:16	14:23	66.4	464.5	10,168.9
	LVWPS-EW01	7:20	9:35	61.5	8,304.6	25,996.6
	LVWPS-EW02	7:20	9:35	26.9	3,636.5	8,730.7
12/10/2020	LVWPS-EW03	7:20	9:35	61.6	8,316.7	25,716.3
12,10,2020	LVWPS-EW04	7:20	9:35	69.4	9,362.5	31,149.8
	LVWPS-EW05	7:20	9:35	32.4	4,378.6	12,923.6
	LVWPS-MW206B	7:20	9:35	62.0	8,370.4	18,539.2

#### Table 2 **Summary of Groundwater Extraction Activities** Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Nevada Environmental Response Trust

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
	LVWPS-EW01	10:52	16:15	58.1	18,753.3	44,749.9
	LVWPS-EW02	10:52	16:15	28.9	9,327.7	18,058.4
12/10/2020	LVWPS-EW03	10:52	16:15	57.1	18,427.7	44,144.0
12/10/2020	LVWPS-EW04	10:52	16:15	64.6	20,853.8	52,003.6
	LVWPS-EW05	10:52	16:15	31.1	10,058.0	22,981.6
	LVWPS-MW206B	10:52	16:15	58.1	18,781.3	37,320.6
	LVWPS-EW01	11:15	13:18	54.7	6,723.7	51,473.6
	LVWPS-EW02	11:15	13:18	31.6	3,886.0	21,944.4
12/11/2020	LVWPS-EW03	11:15	13:18	62.2	7,654.3	51,798.3
12/11/2020	LVWPS-EW04	11:15	13:18	70.7	8,697.6	60,701.2
	LVWPS-EW05	11:15	13:18	28.9	3,557.4	26,539.0
	LVWPS-MW206B	11:15	13:18	55.7	6,856.5	44,177.1
	LVWPS-EW01	8:14	8:44	41.0	1,228.6	52,702.2
	LVWPS-EW02	8:14	8:44	32.8	982.9	22,927.3
12/12/2020	LVWPS-EW03	8:14	8:44	57.8	1,734.0	53,532.3
12/12/2020	LVWPS-EW04	8:14	8:44	49.1	1,471.9	62,173.1
	LVWPS-EW05	8:14	8:44	21.4	640.8	27,179.8
	LVWPS-MW206B	8:14	8:44	62.3	1,868.3	46,045.3
	LVWPS-EW01	7:57	8:43	63.7	2,928.4	55,630.6
	LVWPS-EW02	7:57	8:43	36.7	1,687.1	24,614.4
12/14/2020	LVWPS-EW03	7:57	8:43	36.7	1,687.4	55,219.7
12/14/2020	LVWPS-EW04	7:57	8:43	41.0	1,886.3	64,059.4
	LVWPS-EW05	7:57	8:43	33.6	1,547.6	28,727.4
	LVWPS-MW206B	7:57	8:43	36.7	1,690.3	47,735.6
	LVWPS-EW01	7:24	8:16	59.6	3,098.3	58,728.9
	LVWPS-EW02	7:24	8:16	34.3	1,781.2	26,395.6
12/15/2020	LVWPS-EW03	7:24	8:16	61.7	3,206.6	58,426.3
12/10/2020	LVWPS-EW04	7:24	8:16	63.3	3,292.5	67,351.8
	LVWPS-EW05	7:24	8:16	31.6	1,641.4	30,368.8
	LVWPS-MW206B	7:24	8:16	61.8	3,212.9	50,948.5
	LVWPS-EW01	7:04	7:16	49.5	593.4	59,322.3
	LVWPS-EW02	7:04	7:16	28.3	339.5	26,735.1
12/17/2020	LVWPS-EW03	7:04	7:16	54.9	658.7	59,085.0
12/11/2020	LVWPS-EW04	7:04	7:21	56.6	961.6	68,313.4
	LVWPS-EW05	7:04	7:16	27.1	325.3	30,694.1
	LVWPS-MW206B	7:04	7:21	50.8	863.8	51,812.4
	LVWPS-EW01	7:17	9:02	50.6	5,313.0	64,635.3
	LVWPS-EW02	7:17	9:02	26.2	2,753.8	29,488.9
12/18/2020	LVWPS-EW03	7:17	9:02	44.5	4,667.8	63,752.8
12/10/2020	LVWPS-EW04	7:17	9:02	49.1	5,152.0	73,465.4
	LVWPS-EW05	7:17	9:02	26.7	2,807.0	33,501.0
	LVWPS-MW206B	7:17	9:02	46.0	4,829.2	56,641.6

#### Table 2 **Summary of Groundwater Extraction Activities** Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Nevada Environmental Response Trust

Date	Extraction Well	Start Time	Stop Time	Average Flow Rate	Volume Extracted	Cumulative Volume Extracted
				gpm	gal	gal
	LVWPS-EW01	7:22	7:35	58.5	760.0	65,395.2
	LVWPS-EW02	7:22	7:35	22.2	288.6	29,777.5
12/10/2020	LVWPS-EW03	-	-	-	-	63,752.8
12/19/2020	LVWPS-EW04	7:22	7:35	44.1	573.5	74,038.9
	LVWPS-EW05	7:22	7:35	33.2	431.1	33,932.2
	LVWPS-MW206B	-	-	-	-	56,641.6
	LVWPS-EW01	-	-	-	-	65,395.2
	LVWPS-EW02	-	-	-	-	29,777.5
10/00/0000	LVWPS-EW03	7:07	7:19	66.4	796.7	64,549.6
12/22/2020	LVWPS-EW04	7:07	7:08	69.2	69.2	74,108.1
	LVWPS-EW05	-	-	-	-	33,932.2
	LVWPS-MW206B	-	-	-	-	56,641.6
				E	EVENT TOTAL	324,404.1

Notes:

gpm - gallons per minute gal - gallons

# Table 3Summary of Injection Activities - Zone 1 UMCfInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U1-IW01A	11:18 AM	2:51 PM	213	6.7	21	1,431.7	0
	LVWPS-U1-IW01B	11:18 AM	2:51 PM	213	5.7	23	1,223.3	0
	LVWPS-U1-IW02A	11:18 AM	2:51 PM	180	5.2	24	930.7	0
	LVWPS-U1-IW02B	11:18 AM	2:51 PM	180	5.5	11	994.0	0
	LVWPS-U1-IW03A	11:18 AM	2:51 PM	194	5.1	25	981.8	0
	LVWPS-U1-IW03B	11:18 AM	2:51 PM	194	5.2	6.5	1,015.8	0
	LVWPS-U1-IW04A	11:18 AM	2:51 PM	180	5.5	17	981.9	0
12/13/2020	LVWPS-U1-IW04B	11:18 AM	2:51 PM	180	6.0	6.5	1,074.1	0
12/10/2020	LVWPS-U1-IW05A	11:22 AM	2:51 PM	209	6.4	17	1,330.9	0
	LVWPS-U1-IW05B	11:22 AM	2:51 PM	209	6.5	21	1,364.9	0
	LVWPS-U1-IW06A	11:22 AM	2:51 PM	209	6.4	26.5	1,344.0	0
	LVWPS-U1-IW06B	11:22 AM	2:51 PM	209	6.6	13.5	1,370.7	0
	LVWPS-U1-IW07A	11:22 AM	2:51 PM	209	6.2	14	1,293.0	0
	LVWPS-U1-IW07B	11:22 AM	2:51 PM	209	6.5	8	1,363.9	0
	LVWPS-U1-IW08A	11:22 AM	2:51 PM	209	6.8	4	1,412.2	0
	LVWPS-U1-IW08B	11:22 AM	2:51 PM	209	6.3	7	1,324.1	0
-					Daily	Summary	19,437.1	0
	LVWPS-U1-IW01A	10:36 AM	11:44 AM	68	3.0	13	206.0	0
	LVWPS-U1-IW01B	10:36 AM	11:54 AM	78	5.3	14	415.0	0
	LVWPS-U1-IW02A	10:29 AM	1:28 PM	179	3.6	13	642.1	0
	LVWPS-U1-IW02B	10:29 AM	1:28 PM	179	5.2	5.5	929.8	0
	LVWPS-U1-IW03A	10:29 AM	12:40 PM	131	5.0	19	656.0	0
	LVWPS-U1-IW03B	10:29 AM	12:32 PM	123	5.1	0	622.0	0
	LVWPS-U1-IW04A	10:29 AM	1:30 PM	181	5.0	9	903.1	0
10/11/2020	LVWPS-U1-IW04B	10:29 AM	1:20 PM	171	4.7	9	811.6	0
12/14/2020	LVWPS-U1-IW05A	10:46 AM	11:45 AM	59	5.5	9	322.2	0
	LVWPS-U1-IW05B	10:46 AM	11:42 AM	56	5.1	14.5	287.0	0
	LVWPS-U1-IW06A	10:46 AM	12:37 PM	111	2.4	9	266.1	0
	LVWPS-U1-IW06B	10:46 AM	12:37 PM	111	5.4	7	603.6	0
	LVWPS-U1-IW07A	10:46 AM	12:10 PM	84	4.3	9	364.0	0
	LVWPS-U1-IW07B	10:46 AM	12:09 PM	83	3.5	3.5	293.0	0
	LVWPS-U1-IW08A	10:46 AM	12:32 PM	106	5.2	0	556.0	0
	LVWPS-U1-IW08B	10:46 AM	12:34 PM	108	2.6	0	286.1	0
	•		•		Daily	Summary	8,163.4	0

# Table 3Summary of Injection Activities - Zone 1 UMCfInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U1-IW01A	1:52 PM	3:23 PM	91	6.1	0	0	559.1
	LVWPS-U1-IW01B	2:11 PM	2:53 PM	42	5.0	14	0	212.0
	LVWPS-U1-IW02A	1:52 PM	3:37 PM	105	5.2	16	0	547.9
	LVWPS-U1-IW02B	2:11 PM	2:58 PM	47	5.2	5.5	0	243.0
	LVWPS-U1-IW03A	1:52 PM	3:36 PM	104	5.4	18	0	557.0
	LVWPS-U1-IW03B	2:11 PM	2:55 PM	44	4.8	0	0	211.0
	LVWPS-U1-IW04A	1:52 PM	3:41 PM	109	5.9	12	0	641.1
10/11/2020	LVWPS-U1-IW04B	2:11 PM	2:57 PM	46	5.3	10	0	242.0
12/14/2020	LVWPS-U1-IW05A	1:52 PM	3:37 PM	105	5.4	15	0	562.1
	LVWPS-U1-IW05B	2:11 PM	2:53 PM	42	5.0	14	0	212.0
	LVWPS-U1-IW06A	1:52 PM	3:43 PM	111	5.1	14	0	567.0
	LVWPS-U1-IW06B	2:11 PM	2:56 PM	45	5.5	8.5	0	246.1
	LVWPS-U1-IW07A	1:52 PM	3:39 PM	107	5.3	8	0	564.1
	LVWPS-U1-IW07B	2:11 PM	2:52 PM	41	5.2	4	0	213.1
	LVWPS-U1-IW08A	1:52 PM	3:48 PM	116	5.5	0	0	641.0
	LVWPS-U1-IW08B	2:11 PM	2:51 PM	40	5.5	0	0	218.0
					Daily	Summary	0	6,436.5
					Injecti Sur	on Event nmarv	27,600.5	6,436.5

Notes:

gpm - gallons per minute

min - minutes

gal - gallons

psi - pounds per square inch

<sup>1</sup>Injection duration indicates the total minutes of active injection per day, accounting for any downtime in injections that may have occurred throughout the day. Therefore, injection duration may be less than the difference in daily injection start and stop times indicated.

<sup>2</sup>Sustained pressure reported represents the highest pressure recored during the injection interval indicated.

# Table 4Summary of Injection Activities - Zone 2 AlluviumInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-A2-IW01A	1:25 PM	3:30 PM	125	3.9	0	488.6	0
	LVWPS-A2-IW01B	1:25 PM	3:30 PM	125	1.5	0	188.3	0
	LVWPS-A2-IW02A	1:25 PM	3:30 PM	125	13.3	0	1,657.5	0
	LVWPS-A2-IW02B	1:25 PM	3:30 PM	125	14.2	0	1,777.4	0
	LVWPS-A2-IW03A	1:25 PM	3:30 PM	125	11.5	0	1,438.8	0
	LVWPS-A2-IW03B	1:25 PM	3:30 PM	125	8.5	0	1,068.1	0
	LVWPS-A2-IW04A	1:25 PM	3:30 PM	125	13.3	0	1,663.0	0
	LVWPS-A2-IW04B	1:25 PM	3:30 PM	125	8.8	0	1,098.1	0
12/7/2020	LVWPS-A2-IW05A	1:25 PM	3:30 PM	125	12.4	0	1,548.4	0
12/1/2020	LVWPS-A2-IW05B	1:25 PM	3:30 PM	125	12.2	3	1,528.2	0
	LVWPS-A2-IW06A	1:25 PM	3:30 PM	125	13.7	0	1,715.2	0
	LVWPS-A2-IW06B	1:25 PM	3:30 PM	125	12.3	0	1,541.1	0
	LVWPS-A2-IW07A	1:25 PM	3:30 PM	125	11.7	14	1,462.7	0
	LVWPS-A2-IW07B	1:25 PM	3:30 PM	125	12.6	0	1,572.4	0
	LVWPS-A2-IW08A	1:25 PM	3:30 PM	125	15.6	0	1,950.0	0
	LVWPS-A2-IW08B	1:25 PM	3:30 PM	125	14.6	0	1,825.3	0
	LVWPS-A2-IW09A	1:25 PM	3:30 PM	125	15.9	0	1,981.7	0
	LVWPS-A2-IW09B	1:25 PM	3:30 PM	125	14.9	0	1,865.4	0
					Daily S	Summary	26,370	0
	LVWPS-A2-IW01A	2:25 PM	3:48 PM	83	12.0	0	996.2	0
	LVWPS-A2-IW01B	2:25 PM	3:48 PM	83	13.1	0	1.091.1	0
	LVWPS-A2-IW02A	2:25 PM	3:48 PM	83	14.3	0	1.185.7	0
	LVWPS-A2-IW02B	2:25 PM	3:48 PM	83	9.7	0	804.3	0
	LVWPS-A2-IW03A	2:25 PM	3:48 PM	83	10.4	18	865.8	0
	LVWPS-A2-IW03B	2:25 PM	3:48 PM	83	5.3	28	437.3	0
	LVWPS-A2-IW04A	2:25 PM	3:48 PM	83	8.4	0	699.8	0
	LVWPS-A2-IW04B	2:25 PM	3:48 PM	83	11.0	0	911.7	0
10/0/0000	LVWPS-A2-IW05A	2:25 PM	3:48 PM	83	9.5	0	791.1	0
12/8/2020	LVWPS-A2-IW05B	2:25 PM	3:48 PM	83	10.3	14	851.7	0
	LVWPS-A2-IW06A	2:25 PM	3:48 PM	83	4.8	0	400.3	0
	LVWPS-A2-IW06B	2:25 PM	3:48 PM	83	8.8	0	731.8	0
	LVWPS-A2-IW07A	2:25 PM	3:48 PM	83	6.4	0	530.2	0
	LVWPS-A2-IW07B	2:25 PM	3:48 PM	83	8.7	0	723.7	0
	LVWPS-A2-IW08A	2:25 PM	3:48 PM	83	6.7	0	558.6	0
	LVWPS-A2-IW08B	2:25 PM	3:48 PM	83	8.3	0	687.8	0
	LVWPS-A2-IW09A	2:25 PM	3:48 PM	83	6.0	0	495.8	0
	LVWPS-A2-IW09B	2:25 PM	3:48 PM	83	6.8	0	564.3	0
					Daily S	Summarv	13.328	0

# Table 4Summary of Injection Activities - Zone 2 AlluviumInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-A2-IW01A	9:26 AM	4:49 PM	237	18.1	0	2,509.2	1,778
	LVWPS-A2-IW01B	9:26 AM	4:49 PM	224	18.9	0	2,714.6	1,522
	LVWPS-A2-IW02A	9:26 AM	4:49 PM	181	18.3	0	1,869.3	1,451
	LVWPS-A2-IW02B	9:26 AM	4:49 PM	171	18.0	0	1,282.4	1,803
	LVWPS-A2-IW03A	9:26 AM	4:49 PM	345	12.4	25	3,556.6	719
	LVWPS-A2-IW03B	9:26 AM	4:49 PM	339	6.6	35	1,805.8	438
	LVWPS-A2-IW04A	9:26 AM	4:49 PM	245	18.3	0	2,848.4	1,640
	LVWPS-A2-IW04B	9:26 AM	4:49 PM	241	21.1	0	3,206.1	1,884
12/9/2020	LVWPS-A2-IW05A	9:26 AM	4:49 PM	189	15.7	0	1,555.5	1,407
12/9/2020	LVWPS-A2-IW05B	9:26 AM	4:49 PM	191	12.9	23	1,553.4	910
	LVWPS-A2-IW06A	9:26 AM	4:49 PM	166	15.7	0	501.5	2,102
	LVWPS-A2-IW06B	9:26 AM	4:49 PM	166	16.9	0	928.6	1,881
	LVWPS-A2-IW07A	9:26 AM	4:49 PM	163	11.9	0	624.6	1,321
	LVWPS-A2-IW07B	9:26 AM	4:49 PM	171	12.4	0	902.9	1,225
	LVWPS-A2-IW08A	9:26 AM	4:49 PM	169	12.3	0	761.3	1,313
	LVWPS-A2-IW08B	9:26 AM	4:49 PM	166	13.4	0	757.0	1,468
	LVWPS-A2-IW09A	9:26 AM	4:49 PM	177	12.5	0	167.4	2,050
	LVWPS-A2-IW09B	9:26 AM	4:49 PM	178	13.1	0	215.3	2,118
					Daily S	Summary	27,760	27,030
	LVWPS-A2-IW01A	9:23 AM	3:59 PM	396	16.4	0	0	6,496
	LVWPS-A2-IW01B	9:23 AM	3:59 PM	396	17.4	0	0	6,891
	LVWPS-A2-IW02A	9:23 AM	3:59 PM	396	19.2	0	0	7,589
	LVWPS-A2-IW02B	9:23 AM	3:59 PM	396	16.0	0	0	6,334
	LVWPS-A2-IW03A	9:23 AM	3:59 PM	396	10.9	0	0	4,304
	LVWPS-A2-IW03B	9:23 AM	3:59 PM	396	13.4	8	0	5,288
	LVWPS-A2-IW04A	9:23 AM	3:59 PM	396	20.5	0	0	8,116
	LVWPS-A2-IW04B	9:23 AM	3:59 PM	396	22.8	0	0	9,011
12/10/2020	LVWPS-A2-IW05A	9:23 AM	3:59 PM	396	17.4	0	0	6,891
12/10/2020	LVWPS-A2-IW05B	9:23 AM	3:59 PM	396	19.4	3	0	7,669
	LVWPS-A2-IW06A	9:23 AM	3:59 PM	396	11.3	0	0	4,462
	LVWPS-A2-IW06B	9:23 AM	3:59 PM	396	14.6	0	0	5,788
	LVWPS-A2-IW07A	9:23 AM	3:59 PM	396	11.8	0	0	4,689
	LVWPS-A2-IW07B	9:23 AM	3:59 PM	396	14.7	0	0	5,818
	LVWPS-A2-IW08A	9:23 AM	3:59 PM	396	13.9	0	0	5,515
	LVWPS-A2-IW08B	9:23 AM	3:59 PM	396	14.8	0	0	5,878
	LVWPS-A2-IW09A	9:23 AM	3:59 PM	396	13.7	2	0	5,439
	LVWPS-A2-IW09B	9:23 AM	3:59 PM	396	13.6	0	0	5,371
					Daily S	Summary	0	111,550

# Table 4Summary of Injection Activities - Zone 2 AlluviumInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-A2-IW01A	10:41 AM	2:18 PM	217	14.0	1	0	3,034
	LVWPS-A2-IW01B	10:41 AM	2:24 PM	223	13.0	0	0	2,896
	LVWPS-A2-IW02A	10:41 AM	2:42 PM	241	18.8	0	0	4,523
	LVWPS-A2-IW02B	10:41 AM	2:26 PM	225	12.4	0	0	2,795
	LVWPS-A2-IW03A	10:41 AM	3:59 PM	318	21.0	0	0	6,687
	LVWPS-A2-IW03B	10:41 AM	3:59 PM	318	22.8	12	0	7,260
	LVWPS-A2-IW04A	10:41 AM	2:39 PM	238	21.0	0	0	4,999
	LVWPS-A2-IW04B	10:41 AM	2:27 PM	226	17.3	0	0	3,900
12/11/2020	LVWPS-A2-IW05A	10:41 AM	1:40 PM	179	15.3	0	0	2,731
	LVWPS-A2-IW05B	10:41 AM	1:35 PM	174	14.1	0	0	2,450
	LVWPS-A2-IW06A	10:00 AM	11:38 AM	98	8.7	0	0	849
	LVWPS-A2-IW06B	10:00 AM	11:45 AM	105	13.2	0	0	1,389
	LVWPS-A2-IW07A	10:00 AM	11:49 AM	109	12.9	2	0	1,401
	LVWPS-A2-IW07B	10:00 AM	12:05 PM	125	16.1	2	0	2,014
	LVWPS-A2-IW08A	10:00 AM	12:10 PM	130	18.7	3	0	2,431
	LVWPS-A2-IW08B	10:00 AM	12:09 PM	129	14.8	0	0	1,913
	LVWPS-A2-IW09A	-	-	-	-	-	-	-
	LVWPS-A2-IW09B	-	-	-	-	-	-	-
					Daily S	Summary	0	51,272
12/22/2020	LVWPS-A2-IW04A <sup>(3)</sup>	1:25 PM	2:20 PM	55	5.0	0	275	0
12/22/2020	LVWPS-A2-IW04B	8:48 AM	9:15 AM	27	13.1	0	93	262
					Daily S	Summary	368	262
					Injecti Sur	on Event nmarv	67,826	190,113

Notes:

gpm - gallons per minute

min - minutes

gal - gallons

psi - pounds per square inch

<sup>1</sup>Injection duration indicates the total minutes of active injection per day, accounting for any downtime in injections that may have occurred throughout the day. Therefore, injection duration may be less than the difference in daily injection start and stop times indicated.

<sup>2</sup>Sustained pressure reported represents the highest pressure recored during the injection interval indicated.

<sup>3</sup> Duration and injection rate estimated.

# Table 5Summary of Injection Activities - Zone 2 UMCfInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U2-IW01	8:44 AM	3:10 PM	386	2.0	33	780.2	0
	LVWPS-U2-IW02	8:44 AM	3:10 PM	386	2.1	35	809.4	0
	LVWPS-U2-IW03	8:44 AM	3:10 PM	386	0.7	37.5	273.9	0
	LVWPS-U2-IW04	8:13 AM	3:10 PM	417	2.6	35	1,083.4	0
	LVWPS-U2-IW05	8:13 AM	3:10 PM	417	4.3	35	1,795.1	0
12/20/2020	LVWPS-U2-IW06	8:13 AM	11:48 AM	139	0.2	45	28.9	0
,_0,_0_0	LVWPS-U2-IW07	8:13 AM	11:48 AM	139	0.1	45	15.6	0
	LVWPS-U2-IW08	8:13 AM	3:10 PM	417	2.1	36	887.9	0
	LVWPS-U2-IW09	8:44 AM	3:10 PM	386	3.4	35.5	1,305.7	0
	LVWPS-U2-IW10	8:44 AM	11:54 AM	121	0.4	35	47.1	0
	LVWPS-U2-IW11	8:44 AM	11:54 AM	121	1.0	35	116.6	0
	LVWPS-U2-IW12	8:44 AM	3:10 PM	386	1.1	35	429.1	0
					Daily	Summary	7,573.0	0
	LVWPS-U2-IW01	7:50 AM	3:21 PM	426	2.1	29.5	887.0	0
	LVWPS-U2-IW02	7:50 AM	1:36 PM	346	3.9	31	1,358.1	0
	LVWPS-U2-IW03	7:50 AM	3:21 PM	366	1.2	35	439.9	0
	LVWPS-U2-IW04	7:39 AM	3:27 PM	431	2.3	29.5	977.3	0
12/21/2020	LVWPS-U2-IW05	7:39 AM	3:46 PM	377	4.6	26	1,741.9	0
	LVWPS-U2-IW06	7:39 AM	7:48 AM	9	0.8	45	7.3	0
12/21/2020	LVWPS-U2-IW07	7:39 AM	7:48 AM	9	0.7	45	5.9	0
	LVWPS-U2-IW08	7:39 AM	3:21 PM	462	2.4	35	1,101.5	0
	LVWPS-U2-IW09	7:50 AM	3:21 PM	426	4.7	35	1,999.8	0
	LVWPS-U2-IW10	7:50 AM	7:58 AM	8	0.9	45	7.5	0
	LVWPS-U2-IW11	7:50 AM	3:21 PM	426	0.8	35.5	324.3	0
	LVWPS-U2-IW12	7:50 AM	1:59 PM	369	1.5	34	566.0	0
<u></u>					Daily	Summary	9,416.7	0
	LVWPS-U2-IW01	1:12 PM	3:38 PM	81	1.2	16	0	98.8
	LVWPS-U2-IW02	1:12 PM	1:21 PM	9	8.1	20	0	73.3
	LVWPS-U2-IW03	1:12 PM	1:44 PM	32	1.8	24	0	56.2
	LVWPS-U2-IW04	1:20 PM	1:35 PM	15	4.5	25	0	66.8
	LVWPS-U2-IW05	1:20 PM	2:59 PM	51	2.7	14	0	140.1
40/00/0000	LVWPS-U2-IW06	1:20 PM	1:40 PM	20	0.4	27	0	7.2
12/22/2020	LVWPS-U2-IW07	1:20 PM	1:40 PM	20	0.3	26	0	5.1
	LVWPS-U2-IW08	1:20 PM	1:40 PM	20	3.3	25.5	0	66.8
	LVWPS-U2-IW09	1:12 PM	2:38 PM	50	2.0	3	0	98.8
	LVWPS-U2-IW10	1:12 PM	2:20 PM	68	0.8	2	0	53.7
	LVWPS-U2-IW11	1:12 PM	2:09 PM	57	1.1	22	0	65.5
	LVWPS-U2-IW12	1:12 PM	1:47 PM	35	1.9	19	0	66.0
					Daily	Summary	0	709.2

#### Table 5 Summary of Injection Activities - Zone 2 UMCf Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Nevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U2-IW01 <sup>(3)</sup>	9:15 AM	10:00 AM	45	5.2	35	235	0.0
12/22/2020	LVWPS-U2-IW03 <sup>(3)</sup>	9:15 AM	10:00 AM	45	0.2 35		10	0.0
	LVWPS-U2-IW08 <sup>(3)</sup>	9:15 AM	10:00 AM	45	0.1 35		5	0.0
-					Daily S	Summary	250	0.0
					Injecti Sur	on Event nmary	17,239.6	798.2

Notes:

gpm - gallons per minute

min - minutes

gal - gallons

psi - pounds per square inch

<sup>1</sup>Injection duration indicates the total minutes of active injection per day, accounting for any downtime in injections that may have occurred throughout the day. Therefore, injection duration may be less than the difference in daily injection start and stop times indicated.

<sup>2</sup>Sustained pressure reported represents the highest pressure recored during the injection interval indicated.

<sup>3</sup> Duration and injection rate estimated.

# Table 6Summary of Injection Activities - Zone 3 UMCf-cgInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U3-IW01	1:24 PM	4:23 PM	179	4.7	0	838.7	0
	LVWPS-U3-IW02A	1:24 PM	4:23 PM	179	4.8	24	850.3	0
	LVWPS-U3-IW02B	1:24 PM	4:23 PM	179	4.7	0	844.2	0
	LVWPS-U3-IW03A	1:24 PM	4:23 PM	179	4.5	0	813.4	0
	LVWPS-U3-IW03B	1:24 PM	4:23 PM	179	4.8	0	855.9	0
	LVWPS-U3-IW04A	1:24 PM	4:23 PM	179	4.7	0	833.3	0
	LVWPS-U3-IW04B	1:24 PM	4:23 PM	179	4.6	5	829.5	0
	LVWPS-U3-IW05A	1:24 PM	4:23 PM	179	4.6	0	818.9	0
12/16/2020	LVWPS-U3-IW05B	1:24 PM	4:23 PM	179	4.6	0	824.2	0
12/10/2020	LVWPS-U3-IW06A	1:24 PM	4:26 PM	182	4.4	6	795.1	0
	LVWPS-U3-IW06B	1:24 PM	4:26 PM	182	4.3	0	786.9	0
	LVWPS-U3-IW06C	1:24 PM	4:26 PM	182	4.5	0	815.6	0
	LVWPS-U3-IW07A	1:24 PM	4:26 PM	182	4.0	30.5	735.6	0
	LVWPS-U3-IW07B	1:24 PM	4:26 PM	182	3.9	17	710.5	0
	LVWPS-U3-IW07C	1:24 PM	4:26 PM	182	4.2	15.5	765.4	0
	LVWPS-U3-IW08A	1:24 PM	4:26 PM	182	2.0	35	360.9	0
	LVWPS-U3-IW08B	1:24 PM	4:26 PM	182	2.7	35	496.5	0
	LVWPS-U3-IW08C	1:24 PM	4:26 PM	182	2.9	10	522.8	0
					Daily S	Summary	13,498	0
	LVWPS-U3-IW01	8:53 AM	3:02 PM	357	3.8	0	1,338.8	0
	LVWPS-U3-IW02A	8:53 AM	3:01 PM	356	1.7	17	606.5	0
	LVWPS-U3-IW02B	8:53 AM	2:59 PM	354	1.7	0	612.7	0
	LVWPS-U3-IW03A	8:53 AM	2:58 PM	353	2.7	0	946.7	0
	LVWPS-U3-IW03B	8:53 AM	2:59 PM	354	3.7	0	1,293.2	0
	LVWPS-U3-IW04A	8:53 AM	3:03 PM	358	3.2	5	1,140.7	0
	LVWPS-U3-IW04B	8:53 AM	3:02 PM	357	3.2	0	1,144.6	0
	LVWPS-U3-IW05A	9:06 AM	3:04 PM	346	4.2	0	1,470.1	0
10/17/0000	LVWPS-U3-IW05B	9:06 AM	3:04 PM	346	4.2	0	1,465.7	0
12/17/2020	LVWPS-U3-IW06A	9:16 AM	3:03 PM	335	2.8	22	942.6	0
	LVWPS-U3-IW06B	9:16 AM	3:02 PM	334	2.9	5	952.7	0
	LVWPS-U3-IW06C	9:16 AM	3:03 PM	335	2.8	3.5	932.2	0
	LVWPS-U3-IW07A	8:53 AM	3:42 PM	397	2.8	29	1,100.1	0
	LVWPS-U3-IW07B	8:53 AM	3:42 PM	397	2.8	28	1,125.1	0
	LVWPS-U3-IW07C	8:53 AM	3:45 PM	400	2.7	23	1,071.1	0
	LVWPS-U3-IW08A	8:53 AM	3:46 PM	401	0.9	33	350.3	0
	LVWPS-U3-IW08B	8:53 AM	3:46 PM	401	1.1	35	451.4	0
	LVWPS-U3-IW08C	8:53 AM	3:46 PM	401	2.6	35	1,042.5	0
=	•		-	•	Daily S	Summary	17.987	0

# Table 6Summary of Injection Activities - Zone 3 UMCf-cgInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Injection Date	Injection Well ID	Injection Start Time	Injection Stop Time	Injection Duration <sup>(1)</sup>	Average Flow Rate	Sustained Pressure <sup>(2)</sup>	Volume of Injectate Solution Injected	Volume of Distribution Water Injected
				min	gpm	psi	gal	gal
	LVWPS-U3-IW01	9:30 AM	3:07 PM	337	5.2	0	0	1,766.0
	LVWPS-U3-IW02A	9:30 AM	1:08 PM	218	5.2	16	0	1,125.0
	LVWPS-U3-IW02B	9:30 AM	10:06 AM	36	5.4	3	0	194.1
	LVWPS-U3-IW03A	9:30 AM	1:32 PM	242	5.4	5	0	1,304.1
	LVWPS-U3-IW03B	9:30 AM	10:17 AM	47	5.8	0	0	271.1
	LVWPS-U3-IW04A	9:30 AM	2:23 PM	293	5.2	0	0	1,526.1
12/18/2020	LVWPS-U3-IW04B	9:30 AM	10:17 AM	47	5.6	7.5	0	264.2
	LVWPS-U3-IW05A	9:30 AM	3:16 PM	346	5.1	15	0	1,768.1
	LVWPS-U3-IW05B	9:30 AM	10:22 AM	52	5.9	6.5	0	305.5
12,10,2020	LVWPS-U3-IW06A	9:37 AM	10:14 AM	37	5.8	27	0	213.6
	LVWPS-U3-IW06B	9:37 AM	10:17 AM	40	5.8	11	0	232.3
	LVWPS-U3-IW06C	9:37 AM	1:53 PM	256	5.2	12	0	1,341.1
	LVWPS-U3-IW07A	9:37 AM	10:14 AM	37	5.8	4	0	213.5
	LVWPS-U3-IW07B	9:37 AM	10:17 AM	40	5.8	7.5	0	232.2
	LVWPS-U3-IW07C	9:37 AM	1:32 PM	235	5.7	28	0	1,345.3
	LVWPS-U3-IW08A	9:37 AM	1:06 PM	209	1.3	35	0	265.1
	LVWPS-U3-IW08B	9:37 AM	1:41 PM	244	1.0	36	0	232.0
	LVWPS-U3-IW08C	9:37 AM	3:56 PM	379	3.5	35	0	1,341.0
					Daily	Summary	0	13,940
Notes:					Injecti Sur	on Event nmary	31,484	13,940

gpm - gallons per minute

min - minutes

gal - gallons

psi - pounds per square inch

<sup>1</sup>Injection duration indicates the total minutes of active injection per day, accounting for any downtime in injections that may have occurred throughout the day. Therefore, injection duration may be less than the difference in daily injection start and stop times indicated.

<sup>2</sup>Sustained pressure reported represents the highest pressure recored during the injection interval indicated.

# Table 7Batch Injection QuantitiesInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot StudyNevada Environmental Response Trust

Zone	Batch ID	EVO (gallons)	Glycerin (gallons)	AquaPure (gallons)	Sodium Sulfite (Ibs)	Water (gallons)	Rhodamine Dye (mL)	Fluorescein Dye (mL)	Total Injectate Solution (gallons)
Zone 1 - UMCf	1C	2,760	23	17.5	35	11,047	-	308	13,847
Zone 1 - UMCf	2B	2,743	21	17.1	35	10,998	-	307	13,779
Zo	ne 1 - UMCf Total	5,503	44	35	70	22,045	-	615	27,626
Zone 2 - Alluvium	1B	2,949	57	19	40	11,670	197	-	14,695
Zone 2 - Alluvium	2C	2,659	50	17	36	10,385	176	-	13,110
Zone 2 - Alluvium	3A	2,741	52	17	37	10,821	183	-	13,631
Zone 2 - Alluvium	4B	2,741	52	17	37	10,927	184	-	13,737
Zone 2 - Alluvium	5C	2,323	48	14	32	9,852	164	-	12,236
Zone 2 - Alluvium	8T	55	0	0	0	220	0	0	275
Zone	2 - Alluvium Total	13,468	259	84	182	53,874	905	-	67,684
Zone 2 - UMCf	1B	2,759	16	18	15	11,425	-	308	14,218
Zone 2 - UMCf	2C	450	5	4	4	2,629	-	69	3,088
Zo	one 2 - UMCf Total	3,209	21	22	18	14,054	-	377	17,306
Zone 3 - UMCf-cg	1C	2,683	18	17	34	10,734	-	299	13,451
Zone 3 - UMCf-cg	2B	2,682	18	17	34	10,743	-	299	13,460
Zone 3 - UMCf-cg	3C	940	8	6	12	3,782	-	105	4,735
Zone	3 - UMCf-cg Total	6,305	44	40	80	25,259	-	704	31,647
Carbon Substrate So	lution Total	28,485	367	180	350	115,232	1,264	1,695	144,263
Zone 2 - Alluvium	6A	-	-	-	-	13,350	179	-	13,350
Zone 2 - Alluvium	7B	-	-	-	-	13,350	179	-	13,350
Distribution Water with Dye Onl		-	-	-	-	26,700	359	-	26,700

Notes:

lbs - pounds

mL - milliliters

# Table 8Specific Gravity Calibration MeasurementsInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot Study

Standard Dilution		Emulsified	Hydrometer Readings (Calibrated for 60°F)				Sample Temperature (°F)				Temperature Corrected Specific Gravity								
Parts EOS <sub>PRO</sub> and Amendments <sup>(1)</sup> to	EOS <sub>PRO</sub>	Vegetable Oil Concentration	Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Dup-1	Dup-2	Dup-3	Dup-4	Dup-5	Average	SD
Parts Extracted Groundwater	% by weight	% by weight																	
1:0 - EOS <sub>PRO</sub> Only - Delivery 1 and 2	100.0%	59.8%	0.960	0.959	0.970	0.960	0.965	74	72	65	65	65	0.961	0.960	0.970	0.960	0.965	0.964	0.004
1:2 - EOS <sub>PRO</sub> standard	33.3%	19.9%	0.990	0.991	0.992	0.991	0.991	64	64	64	67.5	68	0.990	0.991	0.992	0.992	0.992	0.992	0.001
1:4 - EOS <sub>PRO</sub> standard	20.0%	12.0%	0.994	0.995	0.996	0.996	0.996	65.5	65	65	65.5	64.5	0.995	0.995	0.996	0.997	0.996	0.996	0.001
1:6 - EOS <sub>PRO</sub> standard	14.3%	8.5%	0.995	0.997	0.997	0.997	0.998	70	68	68.5	66.5	66.5	0.996	0.998	0.998	0.998	0.999	0.998	0.001
0:1 - Extracted Groundwater Only	0.0%	0.0%	1.002	1.003	1.002	1.005	1.002	69.5	69.5	70	66	66	1.003	1.004	1.003	1.006	1.003	1.004	0.001
0:1 - Ammended Groundwater	0.0%	0.0%	1.005	1.004	1.004	1.003	1.003	70	69.5	70.5	70	71	1.006	1.005	1.005	1.004	1.004	1.005	0.001
1:4 - EOS <sub>PRO</sub> standard - Deliveries 1 through 4	20.0%	12.0%	0.996	0.996	0.996	0.996	0.996	58	58	58.5	58.5	59	0.996	0.996	0.996	0.996	0.996	0.996	0.000
1:4 - EOS <sub>PRO</sub> standard - After Delivery 5	20.0% 12.0% (	0.996	0.996	0.996	0.996	0.996	64.5	66	65.5	66	66	0.996	0.997	0.997	0.997	0.997	0.997	0.000	
1:4 - EOS <sub>PRO</sub> standard - After Delivery 6	20.0%	12.0%	0.995	0.996	0.996	0.995	0.996	63	62	62	61	61	0.995	0.996	0.996	0.995	0.996	0.996	0.001

Notes:

Dup - sample duplicate

SD - standard deviation

1. Injectate solution includes emulsified vegetable oil (EOS<sub>PRO</sub>), phosphate solution (Aquapure 3601 NSF), glycerin, and sodium sulfite mixed into extracted groundwater. A 1:4 injectate stock solution standard was prepared for each mixture of deliveries of EOS<sub>PRO</sub> used for batch mixing.

# Table 9 Specific Gravity Measurements Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Zone	Batch Number	Date	Time	Batch Volume Remaining gallons	Hydrometer Readings (Calibrated for 60°F)	Sample Temperature (°F)	Corrected Specific Gravity	Calculated Percent Oil	Within Acceptable Range <sup>(1)</sup>	Comments
	1B	12/5/2020	15:34	14698	0.994	64	0.994	14.7%	YES	Pre-injection.
	1B	12/6/2020	7:16	14698	0.996	58	0.996	11.7%	YES	Pre-injection. Pre-mixing on12/6.
	1B	12/7/2020	11:21	14698	0.995	66	0.996	11.7%	YES	Pre-injection.
	1B	12/7/2020	14:03	7024	0.996	65	0.996	11.7%	YES	, , , , , , , , , , , , , , , , , , ,
	1B	12/7/2020	14:24	3696	0.996	66	0.997	10.2%	YES	
	2C	12/5/2020	16:20	13109	0.996	63	0.996	11.7%	YES	Pre-injection.
	2C	12/6/2020	7:29	13109	0.995	56	0.995	13.2%	YES	Pre-injection.
	2C	12/7/2020	11:32	13109	0.996	66	0.997	10.2%	YES	Pre-injection.
	2C	12/7/2020	14:44	11632 <sup>(2)</sup>	0.996	66	0.997	10.2%	YES	
Zone 2 -	2C	12/7/2020	15:05	3745	0.996	64	0.996	11.7%	YES	
Alluvium	3A	12/8/2020	12:12	13641	0.996	68	0.997	10.2%	YES	Pre-injection.
	3A	12/8/2020	15:19	10136	0.995	69	0.996	11.7%	YES	
	3A	12/8/2020	15:33	5732	0.995	67	0.996	11.7%	YES	-
	4B	12/8/2020	12:51	13915	0.993	69	0.994	14.7%	YES	Pre-injection.
	4B	12/9/2020	7:58	13895	0.995	56	0.995	13.2%	YES	
	4B 4D	12/9/2020	9:55	10156	0.995	66 66	0.996	11.7%	YES	
	4B 5C	12/9/2020	0.04	5262 12417	0.995	60	0.990	11.7%	YES VES	Pro injection
	50	12/9/2020	0.04	12417	0.990	69	0.990	11.7%	VES	
	50	12/9/2020	11.20	6485.7	0.995	71	0.000	11.7%	VES	
	1C	12/13/2020	7.28	13721	0.995	53	0.995	13.2%	YES	
	10 1C	12/13/2020	12:13	10401	0.993	62	0.994	14.7%	YES	
	1C	12/13/2020	13:17	4528	0.995	62	0.995	13.2%	YES	
7	1C	12/13/2020	13:58	841	0.996	62	0.997	10.2%	YES	
Zone 1	2B	12/13/2020	7:24	13774	0.995	53	0.994	14.7%	YES	
	2B	12/13/2020	14:43	10156	0.995	59	0.995	13.2%	YES	
	2B	12/14/2020	10:50	7611	0.995	62	0.996	11.7%	YES	
	2B	12/14/2020	11:40	4283	0.995	59	0.995	13.2%	YES	
	1C	12/16/2020	7:38	13435	0.995	52	0.994	14.7%	YES	Pre-injection.
	1C	12/16/2020	13:57	10401	0.996	61	0.996	11.7%	YES	
	1C	12/16/2020	14:42	6877	0.996	61	0.996	11.7%	YES	
	1C	12/16/2020	15:57	1690	0.995	58	0.995	13.2%	YES	
	2B	12/16/2020	7:53	13464	0.992	55	0.992	17.7%	NO	Pre-injection. Continue mixing.
	2B	12/16/2020	12:56	13464	0.994	65	0.994	14.7%	YES	Pre-injection.
Zone 3	2B	12/17/2020	9:48	10840	0.996	57	0.995	13.2%	YES	
	2B	12/17/2020	11:00	4088	0.996	60	0.996	11.7%	YES	
	2B	12/17/2020	11:55	564	0.994	60	0.994	14.7%	YES	
	3C	12/17/2020	12:00	4978	0.994	63	0.995	13.2%	YES	Pre-injection.
	3C	12/17/2020	12:55	1788	0.994	65	0.995	13.2%	YES	,
	3C	12/17/2020	13:33	2375	0.994	64	0.995	13.2%	YES	
	3C	12/17/2020	14:50	1298	0.993	63	0.994	14.7%	YES	

# Table 9 Specific Gravity Measurements Injection Event 1 - December 2020 Las Vegas Wash Bioremediation Pilot Study

Zone	Batch Number	Date	Time	Batch Volume Remaining gallons	Hydrometer Readings (Calibrated for 60°F)	Sample Temperature (°F)	Corrected Specific Gravity	Calculated Percent Oil	Within Acceptable Range <sup>(1)</sup>	Comments
	1B	12/21/2020	7:22	9725.4	0.996	52	0.996	11.7%	YES	Pre-injection. After mixing with 2C.
	1B	12/21/2020	9:10	8002.8	0.996	59	0.996	11.7%	YES	
	1B	12/21/2020	11:25	4263.9	0.996	63	0.996	11.7%	YES	
Zono 2 LIMCf	1B	12/21/2020	13:40	759.9	0.996	67	0.997	10.2%	YES	
	2C	12/20/2020	7:34	7660.2	0.997	58	0.997	10.2%	YES	Pre-injection. After mixing with 1B.
	2C	12/20/2020	9:51	5702.8	0.994	61	0.994	14.7%	YES	
	2C	12/20/2020	10:22	4919.7	0.995	63	0.996	11.7%	YES	
	2C	12/20/2020	13:14	2374.4	0.994	62	0.995	13.2%	YES	

Notes:

1. The acceptable range of specific gravity measurements was determined to be 0.992 to 1.000 for  $EOS_{PRO}$  Deliveries 1 through 4, and 0.993 to 1.001 for batches mixed after  $EOS_{PRO}$  Delivery 5, and 0.992 to 1.000 for batches mixed after  $EOS_{PRO}$  Delivery 6. This was determined by taking +/- 10% of the difference between the pure  $EOS_{PRO}$  with amendments solution and the pure extracted groundwater (equivalent to 0.004) and then adding and subtracting that value with the specific gravity of the 1:4 standard (shown in Table 8).

2. Tank level approximated based on sample collection time and average injection rates.

Well	Sample Date	Sample ID	QC Type	Event	Zone	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 mg/l	Dissolved Oxygen Field Measurement
LVWPS-A1-MW04	9/30/2020	LV/WPS-A1-MW04-BL04	N	BL 04	Zone 1	2 000	12 000	15	1,600	1.5	2.26
LVWI S-A1-WW04	9/30/2020	LV/WPS-A1-MW/05-BL04	N	BL04	Zone 1	2,000	16,000	10	2,000	1.5	2.20
LVWPS_A1-WW03	9/20/2020	LV/WPS-A1-MW/06-BL04	N	BL04	Zone 1	1 900	9,000	13	2,000	1.0	1.16
LVWPS-A1-MW00	9/30/2020	LVWPS-A1-MW07-BL04	N	BL 04	Zone 1	2 900	16,000	10	1,300	1.4	1.10
LVWPS_A1_MW09	9/30/2020		N	BL 04	Zone 1	2,300	15,000	16	1,500	1.0	1.40
LVWPS-A1-MW10	10/1/2020	LVWPS-A1-MW/10-BL04	N	BL 04	Zone 1	4 400 L	14 000	16	1,000	1.0	1.17
LVWPS-A1-MW10	10/1/2020	LVWPS-A1-MW10-BL04-FD	FD	BL 04	Zone 1	3 700	14,000	16	1,000	1.5	
LVWPS-A2-IW01A	10/1/2020	LVWPS-A2-IW01A-BL04	N	BL04	Zone 2	3 300	5 100	19			4 10
LVWPS-A2-IW01A	10/1/2020	I VWPS-A2-IW01A-BI 04-FD	FD	BL 04	Zone 2	3 300	5 000	19			
LVWPS-A2-IW01R	10/1/2020	I VWPS-A2-IW01B-BI 04	N	BL 04	Zone 2	2 300	5 400	20			4 23
LVWPS-A2-IW02A	10/1/2020	I VWPS-A2-IW02A-BI 04	N	BL 04	Zone 2	2,000	5 200	18			4 29
LVWPS-A2-IW02B	10/2/2020	LVWPS-A2-IW02B-BL04	N	BL04	Zone 2	3,800	6,100	20			4.44
LVWPS-A2-IW03A	10/2/2020	LVWPS-A2-IW03A-BL04	N	BL04	Zone 2	3,300	5,400	20			4.44
LVWPS-A2-IW03B	10/2/2020	LVWPS-A2-IW03B-BL04	N	BL04	Zone 2	3,400	5,500	18			4.30
LVWPS-A2-IW03B	10/2/2020	LVWPS-A2-IW03B-BL04-FD	FD	BL04	Zone 2	2,700	5,400	18			
LVWPS-A2-IW04A	10/2/2020	LVWPS-A2-IW04A-BL04	N	BL04	Zone 2	2,700	5,600	20			4.43
LVWPS-A2-IW04B	10/2/2020	LVWPS-A2-IW04B-BL04	N	BL04	Zone 2	3.200	5.000	18			5.05
LVWPS-A2-IW05A	10/2/2020	LVWPS-A2-IW05A-BL04	Ν	BL04	Zone 2	4,800	6.200	19			4.44
LVWPS-A2-IW05B	10/2/2020	LVWPS-A2-IW05B-BL04	Ν	BL04	Zone 2	4.400	5.300	19			4.47
LVWPS-A2-IW06A	10/5/2020	LVWPS-A2-IW06A-BL04	Ν	BL04	Zone 2	3,700	5,900	18			5.36
LVWPS-A2-IW06B	10/5/2020	LVWPS-A2-IW06B-BL04	Ν	BL04	Zone 2	4,600	4,900	18			4.75
LVWPS-A2-IW07A	10/5/2020	LVWPS-A2-IW07A-BL04	Ν	BL04	Zone 2	3,100	5,500	21			4.76
LVWPS-A2-IW07A	10/5/2020	LVWPS-A2-IW07A-BL04-FD	FD	BL04	Zone 2	2,800	5,600	20			
LVWPS-A2-IW07B	10/5/2020	LVWPS-A2-IW07B-BL04	Ν	BL04	Zone 2	2,700	4,500	16			5.14
LVWPS-A2-IW08A	10/5/2020	LVWPS-A2-IW08A-BL04	Ν	BL04	Zone 2	3,500	4,800	20			4.79
LVWPS-A2-IW08B	10/5/2020	LVWPS-A2-IW08B-BL04	Ν	BL04	Zone 2	2,100	3,600	13			5.54
LVWPS-A2-IW09A	10/5/2020	LVWPS-A2-IW09A-BL04	Ν	BL04	Zone 2	2,000	3,000	13			5.36
LVWPS-A2-IW09B	10/6/2020	LVWPS-A2-IW09B-BL04	Ν	BL04	Zone 2	1,500	2,300	9.1			6.22
LVWPS-A2-MW01A	10/8/2020	LVWPS-A2-MW01A-BL04	Ν	BL04	Zone 2	2,900	5,500	20	2,200	1.8	4.48
LVWPS-A2-MW01A	10/8/2020	LVWPS-A2-MW01A-BL04-FD	FD	BL04	Zone 2	2,900	5,600	19	2,200	1.8	
LVWPS-A2-MW01A	12/23/2020	LVWPS-A2-MW01A-EM01	Ν	EM01	Zone 2	3,600	5,100	19	2,200	2.1	3.69
LVWPS-A2-MW01B	10/8/2020	LVWPS-A2-MW01B-BL04	Ν	BL04	Zone 2	3,100	5,200	18	2,100	1.7	4.49
LVWPS-A2-MW01B	12/23/2020	LVWPS-A2-MW01B-EM01	Ν	EM01	Zone 2	3,000	5,000	18	2,200	1.7	4.16
LVWPS-A2-MW02A	10/8/2020	LVWPS-A2-MW02A-BL04	Ν	BL04	Zone 2	3,700	6,500	18	2,600	1.3	4.19
LVWPS-A2-MW02A	10/8/2020	LVWPS-A2-MW02A-BL04-FD	FD	BL04	Zone 2	3,800	6,600	18	2,600	1.3	
LVWPS-A2-MW02A	12/23/2020	LVWPS-A2-MW02A-EM01	Ν	EM01	Zone 2	3,800	8,100	18	2,700	1.2	5.28
LVWPS-A2-MW02B	10/8/2020	LVWPS-A2-MW02B-BL04	Ν	BL04	Zone 2	2,300	3,900	14	2,100	1.2	5.81
LVWPS-A2-MW02B	12/23/2020	LVWPS-A2-MW02B-EM01	Ν	EM01	Zone 2	2,200	4,900	15	2,300	1.3	5.57
LVWPS-A2-MW03A	10/9/2020	LVWPS-A2-MW03A-BL04	Ν	BL04	Zone 2	1,300	2,000	9.2	1,800	0.63	6.82
LVWPS-A2-MW03A	10/9/2020	LVWPS-A2-MW03A-BL04-FD	FD	BL04	Zone 2	1,300	2,000	9.1	1,800	0.70	
LVWPS-A2-MW03A	12/23/2020	LVWPS-A2-MW03A-EM01	Ν	EM01	Zone 2	1,100	7,500	7.3	1,700	0.47 J	6.86
LVWPS-A2-MW03B	10/9/2020	LVWPS-A2-MW03B-BL04	Ν	BL04	Zone 2	2,000	3,700	12	2,000	0.92	6.21
LVWPS-A2-MW03B	12/23/2020	LVWPS-A2-MW03B-EM01	N	EM01	Zone 2	3,600	3,500	12	2,100	0.87 J-	5.56
LVWPS-A2-MW04A	10/2/2020	LVWPS-A2-MW04A-BL04	Ν	BL04	Zone 2	4,100 J	5,300	19	2,100	1.7	5.60
LVWPS-A2-MW04A	10/2/2020	LVWPS-A2-MW04A-BL04-FD	FD	BL04	Zone 2	2,900 J	5,200	19	2,100	1.7	
LVWPS-A2-MW04A	12/22/2020	LVWPS-A2-MW04A-EM01	N	EM01	Zone 2	2,600	5,100	19	2,100	2.2 J	3.79
LVWPS-A2-MW04A	12/22/2020	LVWPS-A2-MW04A-EM01-FD	FD	EM01	Zone 2	2,600	5,100	19	2,100	1.8	
LVWPS-A2-MW04B	10/2/2020	LVWPS-A2-MW04B-BL04	N	BL04	Zone 2	3,400	7,300	22	2,200	1.7	3.65
LVWPS-A2-MW04B	12/22/2020	LVWPS-A2-MW04B-EM01	N	EM01	Zone 2	2,800	7,300	13	2,100	23	0.49
LVWPS-A2-MW05A	10/5/2020	LVWPS-A2-MW05A-BL04	N	BL04	Zone 2	2,400	3,900	14	2,200	1.1	6.22
LVWPS-A2-MW05A	12/22/2020	LVWPS-A2-MW05A-EM01	N	EM01	Zone 2	310	73	0.91	2,200	170	0.91
LVWPS-A2-MW05B	10/5/2020	LVWPS-A2-MW05B-BL04	N	BL04	Zone 2	1,900	2,300	8.7	2,000	0.66	7.24
LVWPS-A2-MW05B	12/22/2020	LVWPS-A2-MW05B-EM01	N	EM01	∠one 2	2.9	<4.0	<0.014	1,800	1/0 J-	0.35
LVWPS-A2-MW05B	12/22/2020	LVWPS-A2-MW05B-EM01-FD	FD	EM01	Zone 2	2.9	<4.0	0.026 J	2,000	170	

LVMPS-A2-WWORA         9002000         LVVPS-A2-WWORA-BLOA         N         BLOA         Zone 2         2/00         2/10         2/100         7.1         6.971           LVMPS-A2-WWORA-BLOA         N         Noble         N         DAU         Zone 2         3.000         6.000         21         2.000         1.8         5.251           LVMPS-A2-WWORA-BLOA         N         DAU         Zone 2         3.000         6.000         21         2.000         1.8         5.251           LVMPS-A2-WWORA-BLOA         N         DAU         Zone 2         2.000         4.00         16         2.000         1.4         6.532           LVMPS-A2-WWORA         1922020         LVVPS-A2-WWORA-BLOA         N         D.04         Zone 2         1.000         4.00         4.00         1.4         6.532           LVVPS-A2-WWORA         1922000         LVVPS-A2-WWORA         N         D.04         Zone 2         1.000         2.00         8.3.4         2.000         1.7         4.24           LVVPS-A2-WWORA         1022000         LVVPS-A2-WWORA-HADE         N         D.04         Zone 2         3.100         5.500         119         2.100         1.7          -	Well	Sample Date	Sample ID	QC Type	Event	Zone	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 mg/l	Dissolved Oxygen Field Measurement mg/l
LVMPS-444W036         1222020         LVMPS-424W0386E401         N         EVAIL         Zone 2         1.00         2.000         4.7         2.100         7.4         0.01           LVMPS-424W038         1912000         LVMPS-424W0386E401         N         EVAIL         2.800         6.000         11         2.000         1.4         5.65           LVMPS-424W038         1912000         LVMPS-424W0386E401         N         EVAIL         2.00         4.00         10         2.00         1.4         5.65           LVMPS-424W036         LVMPS-424W036E401         N         EVAIL         2.00         4.00         7.0         2.000         1.7         2.000         1.7         2.000         1.7         4.02           LVMPS-424W036         LVMPS-424W036404         N         B.01         Zone 2         1.000         2.00         8.3         2.000         1.7         7.7	LVWPS-A2-MW08A	9/30/2020	I VWPS-A2-MW08A-BL04	N	BI 04	Zone 2	2 700	2 100	20	2 100	19.1+	5.27
UMPER-Advances         UMPER-A	LVWPS-A2-MW08A	12/23/2020	LVWPS-A2-MW08A-FM01	N	FM01	Zone 2	1 400	2,100	47	2,100	7.4	0.91
LWMFS-A4W008         12/20200         LWMFS-A4W008         LWMFS-A4W018	LVWPS-A2-MW08R	10/1/2020	LVWPS-A2-MW08B-BL04	N	BI 04	Zone 2	3 800	6,000	21	2,100	1.4	5.25
LVMPS-A2MW01C         UVMPS-A2MW01C         BL04         Zone 2         41/00         7.20         21         2.200         1.7         482           UVMPS-A2MW01C         10220201         UVMPS-A2MW01C         100         710         400         710         400           UVMPS-A2MW02A         100         2100         611         400         711         450           UVMPS-A2MW02A         1000         2100         61         711         450           UVMPS-A2MW02A         1000         2000         100         711         452           UVMPS-A2MW02A         1000         2000         100         711         421           UVMPS-A2MW01A         10000000         2000         100         101         74           UVMPS-A2MW11A         1022020         UVMPS-A2MW11A         100         200         177         472           UVMPS-A2MW11A         1022020         UVMPS-A2MW11A         100         200         200         177         412           UVMPS-A2MW11A         1022020         UVMPS-A2MW11A         100         200         200         177         418           UVMPS-A2MW11A         1022020         UVMPS-A2MW11A         100         200         200 <td>LVWPS-A2-MW08B</td> <td>12/23/2020</td> <td>LVWPS-A2-MW08B-FM01</td> <td>N</td> <td>FM01</td> <td>Zone 2</td> <td>2 400</td> <td>4 900</td> <td>18</td> <td>2,000</td> <td>2.4</td> <td>1 45</td>	LVWPS-A2-MW08B	12/23/2020	LVWPS-A2-MW08B-FM01	N	FM01	Zone 2	2 400	4 900	18	2,000	2.4	1 45
LWWFS-A24WW026         L20202         LWWFS-A24WW026-EM01         N         EM01         Zone 2         110         <100         <0.014         2.400         210         0.81           LWWFS-A24WW026-EM01         N         EM01         Zone 2         1.600         2.500         8.3.4         2.000         1.7.1         4.82           LWWFS-A24WW026-EM01         N         EM01         Zone 2         1.600         2.500         8.3.4         2.000         1.7.1         4.82           LWWFS-A24WW026-EM01         N         EM01         Zone 2         1.600         5.50         1.600         6.6         7.44           LWWFS-A24WW136-EM01         N         EM01         Zone 2         2.000         5.000         19         2.000         1.7         4.7           LWWFS-A24WW116-EM01         N         EM01         Zone 2         2.600         7.200         2.100         1.7         4.8           LWWFS-A24WW116-EM01         N         EM01         Zone 2         2.600         1.100         2.2         1.00         1.6         3.8           LWWFS-A24WW116-EM01         N         EM01         Zone 2         2.600         6.100         2.2         1.00         1.6         3.8	LVWPS-A2-MW08C	10/1/2020	LVWPS-A2-MW08C-BL04	N	BI 04	Zone 2	4 100	7 200	21	2,000	17	4 92
UWF8-AAWM09         UWF8-AAWM09A-BL04         N         BL04         Zome 2         3.400         5.500         17         2.000         1.4         6.613           UWF8-AAWM09B         12220200         UWF8-AAWM09B-BL04         N         BL01         Zome 2         1.600         2.000         8.3.4         2.000         1.7.J         4.82           UWF8-AAWM09B         12220200         UWF8-AAWM09B-BL04         N         BL04         Zome 2         1.600         2.000         6.60         7.44           UWF8-AAWM11A         1022020         UWF8-AAWM11A         BL04         Zome 2         2.000         1.00         1.0         1.7         4.1           UWF8-AAWM11A         11222020         UWF8-AAWM11ABL14FD         D         BL04         Zome 2         2.000         7.200         2.1         2.100         1.7         4.18           UWF8-AAWM11A         1022000         UWF8-AAWM11ABL14FD         N         BL04         Zome 2         2.000         7.200         2.100         1.5         3.3         2.100         1.6         3.41           UWF8-AAWM12ABL04         N         BL04         Zome 2         3.600         1.000         2.3         2.100         1.5         3.42         1.000	LVWPS-A2-MW08C	12/23/2020	LVWPS-A2-MW08C-FM01	N	EM01	Zone 2	110	<10	<0.014	2 400	210	0.81
UWPS-Ad-WINGB         122/2020         U.VWPS-Ad-WINGB-EM01         N         EM01         Zone 2         1,500         2,200         8.3.L         2,000         17.J         492           UVMPS-Ad-WINGB         1002000         UVMPS-Ad-WINGB-EM01         N         EM01         Zone 2         1,600         5.500         100         0.60         7.44           UVMPS-Ad-WINLA         1002200         UVMPS-Ad-WINLA         P         EL04         Zone 2         3,100         5,500         10         2,100         1.7         4.72           UVMPS-Ad-WINLA         1002200         UVMPS-Ad-WINLA         EL04         Zone 2         3,100         5,000         10         2,100         1.7         4.7         4.7           UVMPS-Ad-WINTER         1002200         UVMPS-Ad-WINTER-LON         N         EL04         Zone 2         2,800         6,700         22         2,100         2.3         3         7.73         UVMPS-Ad-WINTER-LON         N         EL04         Zone 2         3,600         2.3         2.100         1.7         4.83           UVMPS-Ad-WINTER-LON         N         EL04         Zone 2         3,600         2.300         1.8         2.100         1.7         4.83           UVMPS-Ad-WINT	LVWPS-A2-MW09A	10/9/2020	LVWPS-A2-MW09A-BL04	N	BL04	Zone 2	3.400	5,500	17	2,500	1.4	5.63
LVWPS-A2-MV09B         109/0200         LVWPS-A2-MV09B         109/0200         LVWPS-A2-MV01B         1001         Zone 2         1,600         2,100         5.8         2,000         1.90         7.44           LVMPS-A2-MV01B         12222020         LVWPS-A2-MV11A-BL04         N         BL04         Zone 2         3,100         5,500         19         2,100         1.7         -           LVMPS-A2-MV11A         102/2020         LVWPS-A2-MV11A-BL04         N         BL04         Zone 2         2,000         1.9         2,100         1.7         -           LVWPS-A2-MV11A-BL04         N         BL04         Zone 2         2,000         1.9         2,100         2.0         2.3         2.73           LVWPS-A2-MV11C         102/2020         LVWPS-A2-MV11C         102/2020         LVWPS-A2-MV11C         102/2020         LVWPS-A2-MV11C         102/2020         LVWPS-A2-MV11C         2.200         1.6         3.91           LVWPS-A2-MV112         12222000         LVWPS-A2-MV112-BL04         N         BL04         Zone 2         4.00         5.00         18         2.100         1.7         4.83           LVWPS-A2-MV12A-BL04         N         BL04         Zone 2         4.00         4.01         2.00         1.7<	LVWPS-A2-MW09A	12/22/2020	LVWPS-A2-MW09A-EM01	N	EM01	Zone 2	1,900	2,300	8.3 J-	2.000	1.7 J	4.92
UWPS-A24MV091         12222020         UWPS-A24MV1A-BL04 PT         PD         1500         1500         5.5         1800         0.69         3.74           UVPS-A24MV1A-1022020         UVPS-A24MV1A-BL04 PT         FD         BL04         Zone 2         3.100         5.100         19         2.100         1.7            UVPS-A24MV11A-1022020         UVPS-A24MV1A-BL04 PT         FD         BL04         Zone 2         2.000         5.000         19         2.100         1.7            UVPS-A24MV11B         1022020         UVPS-A24MV11B-BL04         N         BL04         Zone 2         2.000         7.00         21         2.100         1.7         4.18           UVPS-A24MV11B         10220200         UVPS-A24MV11B-BL01         N         BL01         Zone 2         2.000         6.100         22         2.100         -0.26         3.31           UVPS-A24MV12A         10222020         UVPS-A24MV12A-BL04         N         BL04         Zone 2         3.000         118         2.100         1.0            UVPS-A24MV12A         10220200         UVPS-A24MV12A-BL04         N         BL04         Zone 2         4.000         5.00         112         -0.01         1.000         0.	LVWPS-A2-MW09B	10/9/2020	LVWPS-A2-MW09B-BL04	N	BL04	Zone 2	1.600	2,100	8.8	2.000	0.60	7.44
UWPS-A24MV14.         10/22020         UWPS-A24MV14.8L014D         D         BL04         Zone 2         3.100         5.300         19         2.100         1.7         4.72           UWPS-A24MV14.         10/22020         UWPS-A24MV14.8L014D         N         EM01         Zone 2         2.600         7.200         21         2.100         1.7         -           UWPS-A24MV14.         10/22020         UWPS-A24MV118         L024/2204         WWPS-A24MV118         L024/2204         2.100         2.3         7.73           UWPS-A24MV110         10/2/2020         UWPS-A24MV116         L02/2/2204         UWPS-A24MV116         L02/2/2204         2.100         1.6         3.91           UWPS-A24MV161         10/2/2/2020         UWPS-A24MV126         L02/2/204         UWPS-A24MV126         2.100         1.6         6.90         1.9         4.00         4.8         1.0         4.0         4.8         1.0         1.0         1.0         0.0         2.3         1.0         -         4.0         4.8         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1	LVWPS-A2-MW09B	12/22/2020	LVWPS-A2-MW09B-EM01	Ν	EM01	Zone 2	1,500	1,600	5.5	1,800	0.69	3.74
UWPS-A24W11A         UWPS-A24W11A         UWPS-A24W11A         UWPS-A24W11A         UWPS-A24W11A         UWPS-A24W11B         UZ20200         UWPS-A24W11C         UZ20200         UVPS-A24W11C         UZ20200         UVPS-A24W11C         UZ20200         UVPS-A24W11C         UZ20200         UVPS-A24W11C         UZ20200         UZVPS-A24W11C         UZVPS-A24W11C         UZVPS-A24W11C         UZVPS-A24W11C         UZVPS-A24W12A         UZVPS-A24W12A <thuzvps-a24w12a< th=""> <thuzvps-a24w12a< th=""></thuzvps-a24w12a<></thuzvps-a24w12a<>	LVWPS-A2-MW11A	10/2/2020	LVWPS-A2-MW11A-BL04	Ν	BL04	Zone 2	3,100	5,300	19	2.100	1.7	4.72
UWPS-AAMU14         12/22/2020         UWPS-AAAMU18         12/07         2.000         7.000         19         2.100         2.0         3.75           UWPS-AAAMU18         10/2/2020         UVPS-AAAMU18         10/2/2020         UVPS-AAAMU18         10/2/2020         UVPS-AAAMU18         10/2/2020         1.0         2.3         7.73           UVPS-AAAMU16         10/2/2020         UVPS-AAAMU16         80.04         Zone 2         3.600         11.000         23         2.100         4.6         3.91           UVPS-AAAMU12         12/2/22020         UVPS-AAAMU12         10/2/2/2020         UVPS-AAAMU12         2.2020         1.0         1.7         4.483           UVPS-AAAMU12         12/2/2/2020         UVPS-AAAMU12         2.2022020         UVPS-AAAMU12         2.202020         1.0         1.0         1.800         0.76         0.600           UVPS-AAAMU12         10/2/2/2020         UVPS-AAAMU12A         2.2020200         1.000         1.0         1.800         0.76         0.600           UVPS-AAAMU13A         10/2/2/2020         UVPS-AAAMU13A         10/2/2/2020         1.0         1.800         0.76         0.600           UVPS-AAAMU13A         10/2/2/2020         UVPS-AAAMU13A         10/2/2/2020         1.0	LVWPS-A2-MW11A	10/2/2020	LVWPS-A2-MW11A-BL04-FD	FD	BL04	Zone 2	3,100	5,100	19	2,100	1.7	
LVWPS-A2MV11B         D02/2020         LVWPS-A2MV11B-BL01         N         BL04         Zone 2         2,800         7,200         21         2,100         1.7         4.18           LVWPS-A2MV11C         10/2/2020         LVWPS-A2MV11C-BL01         N         BL04         Zone 2         3,600         11,000         23         2,100         1.6         3,911           LVWPS-A2MV11C         10/2/2020         LVWPS-A2MV11C-BL01         N         BL04         Zone 2         3,600         9,800         23         2,100         4.26         3,433           LVWPS-A2MV12A         10/2/2020         LVWPS-A2MV12A-BL01 F         FD         EM01         Zone 2         40         4,001         4         2,000         1,6         4,83           LVWPS-A2MV12A         10/2/2020         LVWPS-A2MV12A         FD         EM01         Zone 2         400         5,600         19         2,300         1.6         4,82           LVWPS-A2MV12B         10/2/2020         LVWPS-A2MV12B-BL01         N         EM01         Zone 2         2,200         1,00         1,0         4,00         1,4         4,80         1,2         2,00         1,2         6,76           LVWPS-A2MV13B         10/2/2020         LVWPS-A2MV14A	LVWPS-A2-MW11A	12/23/2020	LVWPS-A2-MW11A-EM01	Ν	EM01	Zone 2	2,900	5,000	19	2,100	2.0	3.75
UWPS-A2MW11B         12230200         LWWPS-A2MW10-EM01         N         EM01         Zone 2         2.600         6.100         22         2.100         2.3.J         77.3           LWWPS-A2MW11C         10223020         LWWPS-A2MW10-EM01         N         EM01         Zone 2         3.000         11.000         23         2.100         1.6         3.91           LWWPS-A2MW12A         10223020         LWWPS-A2MW12A-EM01-R         N         EM01         Zone 2         4.400         5.300         16         2.100         1.7         4.83           LWWPS-A2MW12A         10222020         LWWPS-A2MW12A-EM01-R         N         EM01         Zone 2         40         4.8.J         40.014         2.600         1.20         0.56           LWWPS-A2MW13A         10272020         LWWPS-A2MW13A         NUPS-A2MW13A         N         B.041         Zone 2         1.000         1.300         7.3         1.900         1.4         6.32           LWWPS-A2MW13A         10272020         LWWPS-A2MW13A         N         B.041         Zone 2         2.000         1.300         7.3         1.900         1.4         6.32           LWWPS-A2MW14A         1022200         LWWPS-A2MW14A         N         B.041         Zone 2 <td>LVWPS-A2-MW11B</td> <td>10/2/2020</td> <td>LVWPS-A2-MW11B-BL04</td> <td>Ν</td> <td>BL04</td> <td>Zone 2</td> <td>2,900</td> <td>7,200</td> <td>21</td> <td>2,100</td> <td>1.7</td> <td>4.18</td>	LVWPS-A2-MW11B	10/2/2020	LVWPS-A2-MW11B-BL04	Ν	BL04	Zone 2	2,900	7,200	21	2,100	1.7	4.18
LWPR-32AWH1C         BL04         Zone 2         3.00         11.000         23         2.100         1.6         3.91           LWPR-32AWH12A         1000/2020         LWPR-32AWH12A-BL04         N         BL04         Zone 2         3.000         9.800         23         2.100         1.7.         4.83           LWPR-32AWH12A         1002/2020         LWPR-32AWH12A-BL04         N         BL04         Zone 2         3.000         5.800         18         2.100         1.7.         4.83           LWPR-32AWH12A         102/20200         LWPR-32AWH12A-BL04         N         BL04         Zone 2         4.0         48.J         <0.014	LVWPS-A2-MW11B	12/23/2020	LVWPS-A2-MW11B-EM01	Ν	EM01	Zone 2	2,600	6,100	22	2,100	2.3 J	7.73
LWP8-A2MW11C         1001         Zone 2         3,000         9,800         23         2,100         <0,26	LVWPS-A2-MW11C	10/2/2020	LVWPS-A2-MW11C-BL04	Ν	BL04	Zone 2	3,500	11,000	23	2,100	1.6	3.91
LVWPS-A2-MV12A         1006/0200         LVWPS-A2-MV12A-EL01         N         BL04         Zone 2         4.400         5.800         18         2,100         1.7         4.83           LVWPS-A2-MV12A         122/22020         LVWPS-A2-MV12A-EM01-PC         FD         EM01         Zone 2         40         44         4.014         2,600         120            LVWPS-A2-MV12A         122/22020         LVWPS-A2-MV12B-EM01         N         EM01         Zone 2         4,000         5,600         19         2,300         1.6         4.82           LVWPS-A2-MV12B         12/222020         LVWPS-A2-MV13A-EM01         N         EM01         Zone 2         1,200         2,100         10         18.00         0.76         6.60           LVWPS-A2-MV13A         10/1/2002         LVWPS-A2-MV13A-EM01         N         EM01         Zone 2         1,000         7.3         1,900         1.4         6.32           LVWPS-A2-MV13A         10/1/2002         LVWPS-A2-MV13A-EM01         N         EM01         Zone 2         2,000         5,400         19         2,200         1.7         5.77           LVWPS-A2-MV13A         10/20020         LVWPS-A2-MV14A-EM01         N         EM01         Zone 2         2,000	LVWPS-A2-MW11C	12/23/2020	LVWPS-A2-MW11C-EM01	Ν	EM01	Zone 2	3,000	9,800	23	2,100	<0.26	3.43
UWPR-32-MW12A         122222020         UVWPR-32-MW12A-EM01-FC         N         EM01         Zone 2         32         50.1         <0.014         2.500         120            UWPR-32-MW12B         10770200         UWPR-32-MW12B-EM01 FC         DE         EM01         Zone 2         4.00         4.81         <0.014	LVWPS-A2-MW12A	10/6/2020	LVWPS-A2-MW12A-BL04	Ν	BL04	Zone 2	4,400	5,300	18	2,100	1.7	4.83
LVWPS-A2-MW12A         L2222020         LVWPS-A2-MW12A-EM01+FE         FD         EM01         Zone 2         4.00         48.J         <0.014         2.400         120            LVWPS-A2-MW12B         107/2002         LVWPS-A2-MW12B-EM01         N         EM01         Zone 2         1.2         <10	LVWPS-A2-MW12A	12/22/2020	LVWPS-A2-MW12A-EM01	Ν	EM01	Zone 2	32	50 J	<0.014	2,500	120	0.56
LVWPS-A2-MW12B         D17/2020         LVWPS-A2-MW12B         D17/2020         LWWPS-A2-MW12B         D17/2020         LWWPS-A2-MW12B         D17/2020         LWWPS-A2-MW13A         D17/2020         LWWPS-A2-MW13A         D17/2020         LWWPS-A2-MW13A         D17/2020         LWWPS-A2-MW13A         D17/2020         LWWPS-A2-MW13B         D17/2020         LWWPS-A2-MW13A-B1014         D16/2020         LWWPS-A2-MW13A         D16/2020         LWWPS-A2-MW13A         D16/2020         LWWPS-A2-MW13A+A	LVWPS-A2-MW12A	12/22/2020	LVWPS-A2-MW12A-EM01-FD	FD	EM01	Zone 2	40	48 J	<0.014	2,400	120	
LVWPS-A2-MW12B         12222020         LVWPS-A2-MW13B         L01         Zone 2         12         <10         <10         1,800         0.53           LVWPS-A2-MW13A         10/122020         LVWPS-A2-MW13A-EN01         N         EL04         Zone 2         1,00         1,00         1,300         7.3         1,900         1.4         6.52           LVWPS-A2-MW13B         10/122020         LVWPS-A2-MW13B-EN01         N         EL04         Zone 2         2,000         1.5         2,200         1.2         5.76           LVWPS-A2-MW13B         10/122020         LVWPS-A2-MW14A-EN04         N         EL04         Zone 2         2,600         5.400         19         2,200         1.7        7           LVWPS-A2-MW14A         10/02020         LVWPS-A2-MW14A-EN04-PD         FD         EL04         Zone 2         1.80         0.58 J.         2,200         1.7        7           LVWPS-A2-MW14A         10/02020         LVWPS-A2-MW14A-EN01-PC         FD         EN01         Zone 2         1.80         0.58 J.         2,200         2.8         0.33           LVWPS-A2-MW14A         10/02200         LVWPS-A2-MW14A-EN01-PC         FD         EN01         Zone 2         2.800         5.100         1.8         2,300	LVWPS-A2-MW12B	10/7/2020	LVWPS-A2-MW12B-BL04	Ν	BL04	Zone 2	4,000	5,600	19	2,300	1.6	4.82
LVWPS-A2-MW13A         I01//2020         LVWPS-A2-MW13A-BL04         N         BL04         Zone 2         1,200         1,200         10         1,800         0.76         6.60           LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW13B         101//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A-BIOH         FD         ELO         Zone 2         2700         5.100         19         2.200         1.7         -7           LVWPS-A2-MW14A         106//2020         LVWPS-A2-MW14A-EM01         N         EM01         Zone 2         1.40         2.600         5.640         18         2.300         1.6         5.42           LVWPS-A2-MW14B         106//2020         LVWPS-A2-MW14B-EM01         N         EM01         Zone 2         3.600         5.100         20         2.100         7.4         0.28           LVWPS-A2-MW14B         106//2020         LVWPS-A2-MW14B-EM01         N	LVWPS-A2-MW12B	12/22/2020	LVWPS-A2-MW12B-EM01	Ν	EM01	Zone 2	12	<10	<0.014	2,100	45	0.53
LWWPS-A2-MW13B         D1/22/2020         LWWPS-A2-MW14A         D1/02/2020         LWWPS-A2-MW14A         D1/02/2020         LWWPS-A2-MW14A         D1/02/2020         LWWPS-A2-MW14A         D1/22/2020         LWWPS-A2-MW14A         D1/22/2020<	LVWPS-A2-MW13A	10/1/2020	LVWPS-A2-MW13A-BL04	Ν	BL04	Zone 2	1,200	2,100	10	1,800	0.76	6.60
LWWPS-A2-MW13B         IO1/12020         LWWPS-A2-MW13B-L020         I.WWPS-A2-MW13B-L020         I.WWPS-A2-MW14A-L04         N         BL04         Zone 2         610         830         3.5         2,200         1.2         5.76           LWWPS-A2-MW14A         10/6/2020         LWWPS-A2-MW14A-BL04         N         BL04         Zone 2         610         830         3.5         2,200         1.7         5.77           LWWPS-A2-MW14A         10/6/2020         LWWPS-A2-MW14A-BL04         N         BL04         Zone 2         2,600         5400         19         2,200         1.7         -           LWWPS-A2-MW14A         12/22/2020         LWWPS-A2-MW14A-BL04         N         EM01         Zone 2         140         210         0.58 J         2,300         1.6         5.42           LWWS-A2-MW14B         10/6/2020         LWWPS-A2-MW14B-BL04         N         BL04         Zone 2         3,000         5,100         18         2,300         1.6         5.42           LWWS-A2-MW15B         10/7/2020         LWWPS-A2-MW14B-BL04         N         BL04         Zone 2         3,000         5,100         20         2,100         1.7         4.55           LWWS-A2-MW15B         10/7/2020         LWWPS-A2-MW16B-BL04	LVWPS-A2-MW13A	12/22/2020	LVWPS-A2-MW13A-EM01	Ν	EM01	Zone 2	1,100	1,300	7.3	1,900	1.4	6.32
LVWPS-A2-MW13B         L2222020         LVWPS-A2-MW13B-EM01         N         EM01         Zone 2         610         830         3.5         2.200         32         2.43           LVWPS-A2-MW14A         10/6/2020         LVWPS-A2-MW14A-BL04-FD         FD         BL04         Zone 2         2.000         5.400         19         2.200         1.7            LVWPS-A2-MW14A         10/6/2020         LVWPS-A2-MW14A-BL04-FD         FD         BL04         Zone 2         130         240         0.58 J.         2.200         28         0.33           LWWPS-A2-MW14A         10/2/2020         LVWPS-A2-MW14A-BL01         N         EL04         Zone 2         140         210         0.58 J.         2.200         29            LWWPS-A2-MW14B         10/2/2020         LVWPS-A2-MW14B-BL04         N         BL04         Zone 2         1,00         2,600         7.9         2.400         7.4         0.28           LWWPS-A2-MW15B         10/2/2020         LVWPS-A2-MW15A-BL04         N         BL04         Zone 2         3,000         5,100         19         2,000         1.7         4,55           LWWPS-A2-MW15B         10/2/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2	LVWPS-A2-MW13B	10/1/2020	LVWPS-A2-MW13B-BL04	Ν	BL04	Zone 2	2,200	4,300	15	2,200	1.2	5.76
LVWPS-A2-MW14A         10/6/2020         LVWPS-A2-MW14A-EL04         N         BL04         Zone 2         2,600         5,400         19         2,200         1.7         5.77           LVWPS-A2-MW14A         10/2/2020         LVWPS-A2-MW14A-EM01         N         EM01         Zone 2         2,700         5,100         19         2,200         1.7            LVWPS-A2-MW14A         12/22/2020         LVWPS-A2-MW14A-EM01-FL         FD         EM01         Zone 2         1.40         2.10         0.58 J-         2,200         2.9            LVWPS-A2-MW14B         10/6/2020         LVWPS-A2-MW14A-EM01-N         BL04         Zone 2         2,400         7.4         0.28         LWPS-A2-MW14A         12/22/2020         LVWPS-A2-MW14B-EM01         N         EM01         Zone 2         3,000         5,100         19         2,400         7.4         0.28           LWWPS-A2-MW15A         10/7/10200         LVWPS-A2-MW15A-EM01         N         EM01         Zone 2         3,000         5,100         19         2,000         1.7         4.55           LWWPS-A2-MW15B         10/2/2020         LWWPS-A2-MW15B-EM01         N         EM01         Zone 2         3,000         5,600         24         2,200 <t< td=""><td>LVWPS-A2-MW13B</td><td>12/22/2020</td><td>LVWPS-A2-MW13B-EM01</td><td>N</td><td>EM01</td><td>Zone 2</td><td>610</td><td>830</td><td>3.5</td><td>2,200</td><td>32</td><td>2.43</td></t<>	LVWPS-A2-MW13B	12/22/2020	LVWPS-A2-MW13B-EM01	N	EM01	Zone 2	610	830	3.5	2,200	32	2.43
LVWPSA2-MW14A         10%/2020         LVWPSA2-MW14A-EM01+FD         FD         BL04         Zone 2         2,700         5,100         19         2,200         1.7            LVWPSA2-MW14A         12/22/2020         LVWPSA2-MW14A-EM01+FD         FD         EM01         Zone 2         130         240         0.58 J-         2,300         28         0.33           LVWPSA2-MW14B         12/22/2020         LVWPSA2-MW14B-EM01+FD         FD         EM01         Zone 2         2,800         5,400         18         2,300         7.4         0.28           LWWPSA2-MW14B         10%/2020         LVWPSA2-MW14B-EM01         N         BL04         Zone 2         3,400         5,100         20         2,100         1.7         4.55           LWWPSA2-MW15A         12/21/2020         LVWPSA2-MW15A-EM01         N         EM01         Zone 2         3,000         5,100         19         2,000         1.7         4.55           LWWPSA2-MW15B         10%/2020         LWWPSA2-MW15B-EM01         N         EM01         Zone 2         3,000         5,600         22         2,000         1.6         5,17           LWWPSA2-MW15B         10%/2020         LWWPSA2-MW16B-EM01         N         EM04         Zone 2	LVWPS-A2-MW14A	10/6/2020	LVWPS-A2-MW14A-BL04	N	BL04	Zone 2	2,600	5,400	19	2,200	1.7	5.77
LVWPS-A2-MW14A         12/22/2020         LVWPS-A2-MW14A         12/22/2020         LVWPS-A2-MW14B         2/200         28         0.33           LVWPS-A2-MW14A         12/22/2020         LVWPS-A2-MW14B         12/2020         LVWPS-A2-MW14B         2/00         2.200         2.200            LVWPS-A2-MW14B         10/2/2020         LVWPS-A2-MW14B-BL04         N         BL04         Zone 2         1.400         2.800         7.9         2.400         7.4         0.28           LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A-BL04         N         BL04         Zone 2         3.400         5.100         20         2.100         1.7         4.55           LVWPS-A2-MW15B         10/7/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.200         5.100         12         2.300         1.7         3.90           LVWPS-A2-MW15B         10/7/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.200         7.600         24         2.200         2.0         4.30           LVWPS-A2-MW16A         10/7/2020         LVWPS-A2-MW16B-BL04         N         BL04         Zone 2         3.600         5.600         21         2.000         1.6         5.17	LVWPS-A2-MW14A	10/6/2020	LVWPS-A2-MW14A-BL04-FD	FD	BL04	Zone 2	2,700	5,100	19	2,200	1.7	
LVWPS-A2-MW14A         12/22/202         LVWPS-A2-MW14AE         IOI         Zone 2         140         210         0.58 J-         2.200         29            LVWPS-A2-MW14B         10/2020         LVWPS-A2-MW14B-EN01         N         BL04         Zone 2         2.800         5.400         18         2.300         7.4         0.28           LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A-BL04         N         BL04         Zone 2         3.400         5.100         20         2.100         1.7         4.55           LVWPS-A2-MW15A         12/7/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.200         9.000         22         2.300         1.7         3.90           LVWPS-A2-MW15B         10/8/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.200         9.000         22         2.100         1.6         5.17           LWPS-A2-MW15B         10/8/2020         LVWPS-A2-MW16A-BL04         N         BL04         Zone 2         3.600         5.600         21         2.000         1.8         3.55           LWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04 -D         FD         B.L04         Zone 2         3.600	LVWPS-A2-MW14A	12/22/2020	LVWPS-A2-MW14A-EM01	Ν	EM01	Zone 2	130	240	0.58 J-	2,300	28	0.33
LVWPS-A2-MW14B         10/6/2020         LVWPS-A2-MW14B         20/2020         LVWPS-A2-MW14B         20/2020         LVWPS-A2-MW15A         20/2020         LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A         10/7/2020         LVWPS-A2-MW15A         10/7         4.55           LVWPS-A2-MW15B         10/6/2020         LVWPS-A2-MW15B-BL04         N         EM01         Zone 2         3.000         5.100         19         2.000         1.7         4.55           LVWPS-A2-MW15B         10/6/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.200         9.000         22         2.300         1.7         3.90           LVWPS-A2-MW15B         10/6/2020         LVWPS-A2-MW15B-BL04         N         BL04         Zone 2         3.500         7.600         24         2.200         1.6         5.17           LWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04         N         BL04         Zone 2         3.600         9.000         22         2.200         1.6         -         -           LWPS-A2-MW16B         10/9/2020         LWPS-A2-MW16B-BL04         N         BL04         Zone	LVWPS-A2-MW14A	12/22/2020	LVWPS-A2-MW14A-EM01-FD	FD	EM01	Zone 2	140	210	0.58 J-	2,200	29	
LWWPS-A2-MW14B         12/22/2020         LWWPS-A2-MW14B-EM01         N         EM01         Zone 2         1,700         2,800         7.9         2,400         7.4         0.28           LWWPS-A2-MW15A         12/21/2020         LWWPS-A2-MW15A-BL04         N         BL04         Zone 2         3,000         5,100         19         2,000         1.9         4.42           LWWPS-A2-MW15B         10/2020         LWWPS-A2-MW15B-BL04         N         BL04         Zone 2         3,200         9,000         22         2,300         1.7         3.90           LWWPS-A2-MW15B         10/20200         LWWPS-A2-MW15B-BL04         N         BL04         Zone 2         3,500         7,600         24         2,200         2.0         4.30           LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         5,600         21         2,000         1.8         3,55           LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04+D         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04+D         N         BL04         Zone 2	LVWPS-A2-MW14B	10/6/2020	LVWPS-A2-MW14B-BL04	Ν	BL04	Zone 2	2,800	5,400	18	2,300	1.6	5.42
LWWPS-A2-MW15A         10/7/2020         L/WPS-A2-MW15A-EM01         N         BL04         Zone 2         3,400         5,100         20         2,100         1.7         4,55           LWWPS-A2-MW15B         10/8/2020         L/WPS-A2-MW15B-BL04         N         BL04         Zone 2         3,000         5,100         19         2,000         1.9         4,42           LWWPS-A2-MW15B         10/8/2020         L/WPS-A2-MW15B-BL04         N         BL04         Zone 2         3,300         7,600         24         2,200         2.0         4.30           LWWPS-A2-MW16A         10/9/2020         L/WPS-A2-MW16A-EM01         N         EM01         Zone 2         3,600         5,600         21         2,000         1.6         5.5           LWWPS-A2-MW16B         10/9/2020         L/WPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            L/WPS-A2-MW16B         10/9/2020         L/WPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            L/WPS-A2-MW16B         10/9/2020         L/WPS-A2-MW16B-BL04         N         BL04         Zone 2	LVWPS-A2-MW14B	12/22/2020	LVWPS-A2-MW14B-EM01	Ν	EM01	Zone 2	1,700	2,800	7.9	2,400	7.4	0.28
LWWPS-A2-MW15A         12/21/2020         LWWPS-A2-MW15B-BL04         N         EM01         Zone 2         3,000         5,100         19         2,000         1.9         4.42           LWWPS-A2-MW15B         10/8/2020         LWWPS-A2-MW15B-BL04         N         BL04         Zone 2         3,200         9,000         22         2,300         1.7         3.90           LWWPS-A2-MW16A         10/9/2020         LWWPS-A2-MW16A-BL04         N         BL04         Zone 2         3,600         5,600         22         2,100         1.6         5,17           LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16A-BL04         N         BL04         Zone 2         3,600         5,600         22         2,200         1.5         4.45           LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            LWWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            LWWPS-A2-MW17B         10/1/2020         LWWPS-A2-MW17A         N         BL04         Zone 2 <t< td=""><td>LVWPS-A2-MW15A</td><td>10/7/2020</td><td>LVWPS-A2-MW15A-BL04</td><td>Ν</td><td>BL04</td><td>Zone 2</td><td>3,400</td><td>5,100</td><td>20</td><td>2,100</td><td>1.7</td><td>4.55</td></t<>	LVWPS-A2-MW15A	10/7/2020	LVWPS-A2-MW15A-BL04	Ν	BL04	Zone 2	3,400	5,100	20	2,100	1.7	4.55
LWWPS-A2-MW158         10/8/2020         LVWPS-A2-MW158         BL04         Zone 2         3,200         9,000         22         2,300         1.7         3.90           LWWPS-A2-MW158         10/8/2020         LVWPS-A2-MW158-EU01         N         EM01         Zone 2         3,300         7,600         24         2,200         2.0         4.30           LWWPS-A2-MW16A         10/9/2020         LVWPS-A2-MW16A-EM01         N         EM01         Zone 2         3,600         5,600         21         2,000         1.6         5.17           LWWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-EM01         N         EM01         Zone 2         3,600         9,000         22         2,200         1.6            LWWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-EM01         N         EM04         Zone 2         3,400         9,100         22         2,200         1.6            LWWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,500         5,300         19         2,100         2.1         2,100         1.7         4,90           LWWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-EM01         N         EM01 <t< td=""><td>LVWPS-A2-MW15A</td><td>12/21/2020</td><td>LVWPS-A2-MW15A-EM01</td><td>N</td><td>EM01</td><td>Zone 2</td><td>3,000</td><td>5,100</td><td>19</td><td>2,000</td><td>1.9</td><td>4.42</td></t<>	LVWPS-A2-MW15A	12/21/2020	LVWPS-A2-MW15A-EM01	N	EM01	Zone 2	3,000	5,100	19	2,000	1.9	4.42
LWPS-A2-MW158         12/22/202         LWWPS-A2-MW16A-BL04         N         EM01         Zone 2         3,300         7,600         24         2,200         2.0         4.30           LWWPS-A2-MW16A         10/9/2020         LWWPS-A2-MW16A-BL04         N         BL04         Zone 2         3,500         5,800         22         2,100         1.6         5.17           LWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         5,600         21         2,000         1.8         3.55           LWPS-A2-MW16B         10/9/2020         LWWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            LWPS-A2-MW16B         10/9/2020         LWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,400         9,100         22         2,200         1.6            LWPS-A2-MW17B         10/1/2020         LWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,500         5,300         19         2,100         1.7         4,90           LWPS-A2-MW17A         10/1/2020         LWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,7	LVWPS-A2-MW15B	10/8/2020	LVWPS-A2-MW15B-BL04	N	BL04	Zone 2	3,200	9,000	22	2,300	1.7	3.90
LVWPS-A2-MW16A         10/9/2020         LVWPS-A2-MW16A-BL04         N         BL04         Zone 2         3,500         5,800         22         2,100         1.6         5.17           LVWPS-A2-MW16A         10/9/2020         LVWPS-A2-MW16A-BL04         N         EM01         Zone 2         3,600         5,600         21         2,000         1.8         3,55           LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04-FD         FD         BL04         Zone 2         3,400         9,100         22         2,200         1.6            LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04-FD         FD         BL04         Zone 2         3,400         9,100         22         2,200         1.6            LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17A-BL04         N         EM01         Zone 2         2,500         5,300         19         2,100         1.7         4.90           LVWPS-A2-MW17A         12/22/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2<	LVWPS-A2-MW15B	12/22/2020	LVWPS-A2-MW15B-EM01	N	EM01	Zone 2	3,300	7,600	24	2,200	2.0	4.30
LVWPS-A2-MW16A         12/22/2020         LVWPS-A2-MW16A-LM01         N         EM01         Zone 2         3,600         5,600         21         2,000         1.8         3.55           LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.6            LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-EM01         N         EM01         Zone 2         4,100         7,800         22         2,200         1.6            LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW16B-EM01         N         EM01         Zone 2         2,500         5,300         19         2,100         1.7         4.90           LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,500         5,300         19         2,100         1.7         4.83           LVWPS-A2-MW17B         12/22/2020         LVWPS-A2-MW17B-EM01         N         EM01         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         12/22/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2	LVWPS-A2-MW16A	10/9/2020	LVWPS-A2-MW16A-BL04	N	BL04	Zone 2	3,500	5,800	22	2,100	1.6	5.17
LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04         N         BL04         Zone 2         3,600         9,000         22         2,200         1.5         4.45           LVWPS-A2-MW16B         10/9/2020         LVWPS-A2-MW16B-BL04-FD         FD         BL04         Zone 2         3,400         9,100         22         2,200         1.6            LVWPS-A2-MW16B         12/2/2020         LVWPS-A2-MW16B-EM01         N         EM01         Zone 2         4,100         7,800         22 J         2,100         2.0         3.44           LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,500         5,300         19         2,100         1.7         4.90           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,000         5,700         21         2,100         1.1         5,67           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-BL04         N         BL04         Zone 2 <td>LVWPS-A2-MW16A</td> <td>12/22/2020</td> <td>LVWPS-A2-MW16A-EM01</td> <td>N</td> <td>EM01</td> <td>Zone 2</td> <td>3,600</td> <td>5,600</td> <td>21</td> <td>2,000</td> <td>1.8</td> <td>3.55</td>	LVWPS-A2-MW16A	12/22/2020	LVWPS-A2-MW16A-EM01	N	EM01	Zone 2	3,600	5,600	21	2,000	1.8	3.55
LVWPS-A2-MW16B         10/9/202         LVWPS-A2-MW16B-BL04+D         FD         BL04         Zone 2         3,400         9,100         22         2,200         1.6            LVWPS-A2-MW16B         12/22/2020         LVWPS-A2-MW16B-EM01         N         EM01         Zone 2         4,100         7,800         22 J-         2,100         2.0         3.44           LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-BL04         N         BL04         Zone 2         2,500         5,300         19         2,100         1.7         4.90           LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,000         3,700         14         2,100         1.1         5,67           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2 <td>LVWPS-A2-MW16B</td> <td>10/9/2020</td> <td>LVWPS-A2-MW16B-BL04</td> <td>N</td> <td>BL04</td> <td>Zone 2</td> <td>3,600</td> <td>9,000</td> <td>22</td> <td>2,200</td> <td>1.5</td> <td>4.45</td>	LVWPS-A2-MW16B	10/9/2020	LVWPS-A2-MW16B-BL04	N	BL04	Zone 2	3,600	9,000	22	2,200	1.5	4.45
LVWPS-A2-MW176         12/22/202         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         4,100         7,800         22 J-         2,100         2.0         3.44           LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-BL04         N         BL04         Zone 2         2,500         5,300         19         2,100         1.7         4.93           LVWPS-A2-MW17A         12/22/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,100         2,100         6.4         2,200         2.8         0.37           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-EM01         N         EM01         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-EM01         N         EM01         Zone 2         2,700         5,700         21         2,100         1.1         5,67           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2         2,000         1,700         4.3         1,900         4.8         2,30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3 <td>LVWPS-A2-MW16B</td> <td>10/9/2020</td> <td>LVVVPS-A2-MVV16B-BLU4-FD</td> <td>FD</td> <td>BL04</td> <td>Zone 2</td> <td>3,400</td> <td>9,100</td> <td>22</td> <td>2,200</td> <td>1.6</td> <td></td>	LVWPS-A2-MW16B	10/9/2020	LVVVPS-A2-MVV16B-BLU4-FD	FD	BL04	Zone 2	3,400	9,100	22	2,200	1.6	
LVWPS-A2-MW17A         10/1/2020         LVWPS-A2-MW17A-BL04         N         BL04         Zone 2         Z,500         5,300         19         Z,100         1.7         4.90           LVWPS-A2-MW17A         12/22/2020         LVWPS-A2-MW17A-EM01         N         EM01         Zone 2         2,100         2,100         6.4         2,200         2.8         0.37           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         12/22/2020         LVWPS-A2-MW17D-BL04         N         BL04         Zone 2         560         350         1.2         2,200         7.6         0.37           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-BL04         N         BL04         Zone 2         2,200         3,700         14         2,100         1.1         5.67           LVWPS-A3-MW07C         12/22/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2         2,000         1,700         4.3         1,900         4.8         2.30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3	LVWPS-A2-MW16B	12/22/2020	LVVVPS-A2-MVV16B-EMU1	N	EIMU'I	Zone 2	4,100	7,800	22 J-	2,100	2.0	3.44
LVWPS-A2-MW17A         12/22/2020         LVWPS-A2-MW17B-BL04         N         EM01         Z016 2         2,100         2,100         0.4         2,200         2.5         0.37           LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Zone 2         2,700         5,700         21         2,100         1.7         4.83           LVWPS-A2-MW17B         12/22/2020         LVWPS-A2-MW17C-BL04         N         EM01         Zone 2         560         350         1.2         2,200         7.6         0.37           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-BL04         N         BL04         Zone 2         2,200         3,700         14         2,100         1.1         5.67           LVWPS-A3-MW07C         12/22/2020         LVWPS-A3-MW07C-BL04         N         BL04         Zone 2         2,000         1,700         4.3         1,900         4.8         2.30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3	LVWPS-AZ-INIVITA	10/1/2020	LVWPS-A2-WW17A-BL04	IN N	BL04 EM01	Zone 2	2,500	5,300	19	2,100	1.7	4.90
LVWPS-A2-MW17B         10/1/2020         LVWPS-A2-MW17B-BL04         N         BL04         Z016 2         Z,100         3,700         Z1         Z,100         1.7         4.83           LVWPS-A2-MW17B         12/22/2020         LVWPS-A2-MW17B-BL04         N         EM01         Zone 2         560         350         1.2         2,200         7.6         0.37           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-EBL04         N         BL04         Zone 2         2,200         3,700         14         2,100         1.1         5.67           LVWPS-A2-MW17C         12/22/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2         2,000         1,700         4.3         1,900         4.8         2.30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,100         0.45 J         6.98           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         <		10/1/2020		IN N		Zone 2	2,100	2,100	0.4	2,200	2.0	0.37
LVWPS-A2-MW17b         12/22/2020         LVWPS-A2-MW17C-BL04         N         Elmon         Zone 2         360         350         1.2         2,200         7.5         0.37           LVWPS-A2-MW17C         10/1/2020         LVWPS-A2-MW17C-BL04         N         BL04         Zone 2         2,200         3,700         14         2,100         1.1         5.67           LVWPS-A2-MW17C         12/22/2020         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2         2,000         1,700         4.3         1,900         4.8         2.30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3         110         150         9.0         1,300         0.45 J         7.24           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         2	LVWPS-A2-WW17D	10/1/2020	LVWFS-A2-WW17B-BL04	IN N	DL04	Zone 2	2,700	3,700	1.0	2,100	7.6	4.03
LVWPS-A2-MW17C         10/2/200         LVWPS-A2-MW17C-EM01         N         EM01         Zone 2         2,000         1,700         4.3         1,900         4.8         2.30           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3         110         150         9.0         1,300         0.45 J         7.24           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,100         0.45 J         6.98           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         78	L V WF 3-A2-WW 1/Β	10/1/2020		N		Zone 2	2 200	3 700	1.2	2,200	1 1	5.67
LVWPS-A3-MW02         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW02         10/5/2020         LVWPS-A3-MW02-BL04         N         BL04         Zone 3         100         150         7.0         900         0.29 J         6.42           LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3         110         150         9.0         1,300         0.45 J         7.24           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,100         0.45 J         6.98           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW18         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         78         160 <t< td=""><td>LV/N/DS_A2 M/N/170</td><td>12/22/2020</td><td></td><td>N</td><td></td><td>Zono 2</td><td>2,200</td><td>1 700</td><td>14</td><td>1 000</td><td>1.1</td><td>2.07</td></t<>	LV/N/DS_A2 M/N/170	12/22/2020		N		Zono 2	2,200	1 700	14	1 000	1.1	2.07
LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3         110         150         7.0         500         0.29 J         0.42           LVWPS-A3-MW06         10/5/2020         LVWPS-A3-MW06-BL04         N         BL04         Zone 3         110         150         9.0         1,300         0.45 J         7.24           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,100         0.45 J         6.98           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW11-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50           LVWPS-A3-MW12         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         200	LVWPS_A3_MM/02	10/5/2020	LVW/PS_A3_MW/02_BL04	N	BL 0/	Z0110 Z	2,000	1,700	7.0	900	0.20 1	6.42
LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,000         0.45 J         6.98           LVWPS-A3-MW07         10/8/2020         LVWPS-A3-MW07-BL04         N         BL04         Zone 3         100         210         6.4         1,100         0.45 J         6.98           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW11-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50           LVWPS-A3-MW12         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         200         270         7.2         1.200         0.40 J         6.48	LV/WPS_A3_M/M/06	10/5/2020	LV/W/PS_A3_M/W/06_BL04	N	BL04	Zone 3	110	150	0.0	1 300	0.295	7.9/
LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.49 3         0.49 3         0.49 3           LVWPS-A3-MW08         10/8/2020         LVWPS-A3-MW08-BL04         N         BL04         Zone 3         120         180         8.5         1,600         0.81         4.73           LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW11-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50           LVWPS-A3-MW12         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         200         270         7.2         1.200         0.40 J         6.48	LVWPS_A3_MW00	10/8/2020	LV/WPS_A3_MW/07_BL04	N	BL 04	Zone 3	100	210	6.4	1,000	0.45 1	6.98
LVWPS-A3-MW10         10/5/2020         LVWPS-A3-MW10-BL04         N         BL04         Zone 3         200         200         7.5         870         0.26 J         7.31           LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW11-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50           LVWPS-A3-MW12         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50	LVWPS-A3-MW/08	10/8/2020	LVWPS-A3-MW08-BL04	N	BL 04	Zone 3	120	180	8.5	1,100	0.400	4 73
LVWPS-A3-MW11         10/7/2020         LVWPS-A3-MW11-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50           LVWPS-A3-MW12         10/5/2020         LVWPS-A3-MW12-BL04         N         BL04         Zone 3         78         160         9.2         1,600         0.96         8.50	LV/WPS_A3_MW/10	10/5/2020	LV/WPS_A3_MW/10_BL04	N	BL 04	Zone 3	200	200	7.5	870	0.26 1	7.31
LVWPS-A3-MW12 10/5/2020 LVWPS-A3-MW12-BL04 N BL04 Zone 3 200 270 7.2 1,200 0.40 J 6.48	LVWPS-A3-MW11	10/7/2020	LVWPS-A3-MW/11-BL04	N	BL 04	Zone 3	78	160	9.2	1 600	0.96	8.50
	LVWPS-A3-MW12	10/5/2020	LVWPS-A3-MW12-BL04	N	BL04	Zone 3	200	270	7.2	1,200	0.40 J	6.48

Well	Sample Date	Sample ID	QC Type	Event	Zone	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
	0/20/2020		N	BL 04	Extraction	2 000	13 000	nig/∟ 23	111g/L 2 200	1.6	2.76
	9/29/2020		N	BL04	Extraction	2,900	5 500	20	2,200	1.0	2.70
	9/29/2020		N	BL04	Extraction	2,900	5,000	18	2,100	1.9	4.29
	9/30/2020		N	BL 04	Extraction	2,800	5,000	20	2,100	2.0	4.05
	9/20/2020		N	BL 04	Extraction	2,000	11,000	20	2,100	1.8	2 32
LVWPS-EW05	9/29/2020		FD	BL 04	Extraction	2,000	11,000	23	2,100	1.0	2.52
LVWPS-MW201A	9/28/2020	I VWPS-MW201A-BL04	N	BL 04	General Vicinity	1 800	11,000	13	2,100		0.59
LVWPS-MW201R	9/28/2020	LVWPS-MW201B-BL04	N	BL 04	General Vicinity	610	560	0.55			1 13
LVWPS-MW202	9/29/2020	I VWPS-MW202-BL04	N	BL04	General Vicinity	1 100	6 000	12			0.80
LVWPS-MW203A	9/30/2020	LVWPS-MW203A-BL04	N	BL04	General Vicinity	120	<40	9.3			0.74
LVWPS-MW203A	9/30/2020	LVWPS-MW203A-BL04-FD	FD	BI 04	General Vicinity	120	<40	9.3			
LVWPS-MW203B	9/30/2020	LVWPS-MW203B-BL04	N	BL04	General Vicinity	2.6 J-	<40	< 0.014			0.88
LVWPS-MW203C	9/30/2020	LVWPS-MW203C-BL04	N	BL04	General Vicinity	< 0.31	<20	< 0.014			0.65
LVWPS-MW204	9/28/2020	LVWPS-MW204-BL04	Ν	BL04	General Vicinity	1,600	10.000	14	1.300	1.4	1.84
LVWPS-MW204	9/28/2020	LVWPS-MW204-BL04-FD	FD	BL04	General Vicinity	1.600	10.000	14	1.300	1.3	
LVWPS-MW204B	9/28/2020	LVWPS-MW204B-BL04	Ν	BL04	General Vicinity	12.000	22.000	15	1.800	0.75	2.92
LVWPS-MW204C	10/7/2020	LVWPS-MW204C-BL04	Ν	BL04	General Vicinity	46	<100	<0.028			2.40
LVWPS-MW205B	9/28/2020	LVWPS-MW205B-BL04	Ν	BL04	General Vicinity	1,300	6,300	12			0.50
LVWPS-MW205C	9/29/2020	LVWPS-MW205C-BL04	Ν	BL04	General Vicinity	790	2,700	11			0.87
LVWPS-MW206A	9/30/2020	LVWPS-MW206A-BL04	Ν	BL04	Extraction	3,400 J-	8,500	23			3.77
LVWPS-MW206B	9/30/2020	LVWPS-MW206B-BL04	Ν	BL04	Extraction	2,800	16,000	10			1.84
LVWPS-MW206C	9/30/2020	LVWPS-MW206C-BL04	Ν	BL04	Extraction	4,900 J-	6,000	3.4			2.70
LVWPS-MW206D	10/6/2020	LVWPS-MW206D-BL04	Ν	BL04	Extraction	9.5	<10	<0.014			2.08
LVWPS-MW206E	10/5/2020	LVWPS-MW206E-BL04	Ν	BL04	Extraction	39	<100	<0.014			2.11
LVWPS-MW207	9/28/2020	LVWPS-MW207-BL04	Ν	BL04	General Vicinity	2,200	14,000	18	1,800	1.5	1.55
LVWPS-MW207	12/22/2020	LVWPS-MW207-EM01	Ν	EM01	General Vicinity	4,900	13,000	17	1,900	1.6	1.27
LVWPS-MW208A	10/9/2020	LVWPS-MW208A-BL04	Ν	BL04	Zone 2	1,900	2,900	12	2,100	0.93	5.77
LVWPS-MW208A	12/23/2020	LVWPS-MW208A-EM01	Ν	EM01	Zone 2	2,200	2,300	9.4	1,900	0.81	4.14
LVWPS-MW208B	10/9/2020	LVWPS-MW208B-BL04	Ν	BL04	Zone 2	2,100	3,200	12	2,000	1.0	5.90
LVWPS-MW208B	12/23/2020	LVWPS-MW208B-EM01	Ν	EM01	Zone 2	870	42 J	0.23	1,900	11	0.31
LVWPS-MW208B	12/23/2020	LVWPS-MW208B-EM01-FD	FD	EM01	Zone 2	810	39 J	0.23	1,900	11	
LVWPS-MW209	10/6/2020	LVWPS-MW209-BL04	Ν	BL04	General Vicinity	2,700	8,500	22	2,200	1.6	4.40
LVWPS-MW209	10/6/2020	LVWPS-MW209-BL04-FD	FD	BL04	General Vicinity	2,800	9,000	22	2,200	1.6	
LVWPS-MW209	12/21/2020	LVWPS-MW209-EM01	Ν	EM01	General Vicinity	3,000	7,600	18	2,200	1.8	2.38
LVWPS-MW209A	10/6/2020	LVWPS-MW209A-BL04	Ν	BL04	General Vicinity	2,800	6,800	21	2,200	1.7	4.72
LVWPS-MW209A	12/21/2020	LVWPS-MW209A-EM01	Ν	EM01	General Vicinity	3,000	5,300	20	2,300	1.6	3.96
LVWPS-MW209B	10/6/2020	LVWPS-MW209B-BL04	Ν	BL04	General Vicinity	2,700	8,300	21			4.30
LVWPS-MW209C	10/7/2020	LVWPS-MW209C-BL04	N	BL04	General Vicinity	8,500	12,000	14			2.44
LVWPS-MW210A	10/6/2020	LVWPS-MW210A-BL04	N	BL04	General Vicinity	2,600	12,000	20	1,800	1.5	2.44
LVWPS-MW210A	12/21/2020	LVWPS-MW210A-EM01	N	EM01	General Vicinity	3,100	13,000	21	2,000	1.6	2.04
LVWPS-MW210B	10/6/2020	LVWPS-MW210B-BL04	N	BL04	General Vicinity	2,800	9,700	22	2,100	1.6	3.60
LVWPS-MW210B	12/21/2020	LVWPS-MW210B-EM01	<u>N</u>	EM01	General Vicinity	2,800	8,300	15	2,100	1.9	1.48
LVWPS-MW210C	10/1/2020	LVWPS-MW210C-BL04	<u>N</u>	BL04	General Vicinity	10,000 J-	17,000	15			2.59
LVWPS-MW210D	10/7/2020	LVWPS-MW210D-BL04	<u>N</u>	BL04	General Vicinity	8,500	10,000	3.8			3.24
LVWPS-MW210E	0/20/2020	LVWPS-WW21UE-BLU4	IN N	BL04	General Vicinity	4,400	7,100	2.2			2.19
	9/30/2020			DLU4		2,000	3,200	14	2,100	1.1	0.33
	12/21/2020		IN N			2,100	3,000	13	1,900	0.99	5.52
LVVVPS-IVIVVZ1ZA	10/0/2020	LVVVPS-IVIVV212A-BLU4	IN N	EM04	Zone 2	390	400	0.0 9.0	1,200	0.47 J	0.73
	10/5/2020				Zone 2	400	200	0.9	1,200	0.40 J	0.00
	10/0/2020	LVWF3-IVIVZ12D-DLU4	N	EM01	Zone 3	170	200	1.1	90U 1 100	0.32 J	0.40
	10/5/2020		IN NI		Zone 2	7 200	11 000	1.0	1,100	0.29 J	0.07
	10/3/2020		N	BL04	Zone 3	6,800	11,000	10			4.32 5.60
LVWPS_MW/212D	10/1/2020	I VWPS-MW213-RI 0/	N	BL 04	General Vicinity	170	260	32			4 96
	10/1/2020	2000 0 mm210-DL04	1 1		Sonoral violinity		200	U.2	-		1.00

Well	Sample Date	Sample ID	QC Type	Event	Zone	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
L\//\//PS_M\\//213	10/1/2020	1.V/W/PS-MW/213-BL04-ED	ED	BL 0/	General Vicinity	μg/L 140	μg/∟ 270	111g/L 3.2	ing/∟	mg/∟	iiig/∟
	10/7/2020			BL04	General Vicinity	2 500	3 700	14			5.16
LVWPS_MW214	10/8/2020		N	BL04	General Vicinity	2,500	9,700	17			1.26
LVWF3-WW215A	10/0/2020		N	BL04	General Vicinity	2,000 J-	9,700	11			1.20
	10/3/2020		N	BL04	Conoral Vicinity	2,000	0,700	10			0.66
	10/7/2020			BL04	General Vicinity	1,100	930	4.0			0.00
	0/30/2020			BL04		2 200	940	4.1		1.4	
	9/30/2020		N	DL04	Zone 1	2,200	14,000	15	1,500	1.4	2.00
	9/30/2020			BL04	Zone 1	7,300	14,000	10	1,000	1.0	2.00
	10/5/2020			BL04	ZUILE I	0,200 5 100	14,000	12	1,000	1.0	2.33
	10/5/2020			DL04 EM01	General Vicinity	3,100	14,000	20	1,900	1.4	4.72
	12/21/2020		IN N		General Vicinity	3,200	14,000	21	2,000	1.5	3.69
	10/2/2020			BL04	General Vicinity	6,400 5,200	7 200	10			0.03
	10/2/2020			BL04	General Vicinity	5,300	7,200	4.3			1.70 E 70
LVWPS-WW219A	10/9/2020	LVWPS-WV219A-BL04	IN N	BL04	General Vicinity	3,500	8,500	19			0.70
LVWPS-WW219B	10/9/2020		IN N	BL04	General Vicinity	2.2	<100	<0.014			3.23
LVWPS-MW219C	10/9/2020	LVWPS-MW219C-BL04	N	BL04	General Vicinity	53	<10	0.045 J			2.43
LVWPS-MW220A	10/5/2020		N	BL04	General Vicinity	3,100	9,400	21	2,100	1.0	3.77
LVWPS-MW220A	12/21/2020	LVWPS-MW220A-EM01	N	EIVIUT	General Vicinity	3,100	7,000	20	2,200	1.8	3.31
LVWPS-MW220B	10/7/2020	LVWPS-MW220B-BL04	<u>N</u>	BL04	General Vicinity	4,200	10,000	12			2.66
LVWPS-MW221A	10/6/2020	LVWPS-MW221A-BL04	<u>N</u>	BL04	Zone 2	990 J-	710	8.4	1,500 J+	0.51 J-	7.60
LVWPS-MW221A	12/22/2020	LVWPS-MW221A-EM01	N	EM01	Zone 2	610	/10	8.2	1,500	1.7 J	6.85
LVWPS-MW221B	10/6/2020	LVWPS-MW221B-BL04	N	BL04	Zone 2	6,600	11,000	5.8	1,500 J+	0.54	3.09
LVWPS-MW222A	10/2/2020	LVWPS-MW222A-BL04	N	BL04	Zone 3	2,900	3,800	4.1			2.97
LVWPS-MW222B	10/7/2020	LVWPS-MW222B-BL04	N	BL04	Zone 3	1,500	1,200	1.6			3.10
LVWPS-MW222C	10/2/2020	LVWPS-MW222C-BL04	N	BL04	Zone 3	1,500	1,300	2.4			2.25
LVWPS-MW223A	10/6/2020	LVWPS-MW223A-BL04	N	BL04	Zone 2	3,300	5,900	17	2,400	1.4	4.57
LVWPS-MW223A	10/6/2020	LVWPS-MW223A-BL04-FD	FD	BL04	Zone 2	3,900	5,800	17	2,400	1.4	
LVWPS-MW223A	12/22/2020	LVWPS-MW223A-EM01	N	EM01	Zone 2	4,100	370	0.54	2,700	11	0.33
LVWPS-MW223B	10/6/2020	LVWPS-MW223B-BL04	N	BL04	Zone 2	3,300	6,100	20	2,100	1.8	4.26
LVWPS-MW223B	12/22/2020	LVWPS-MW223B-EM01	N	EM01	Zone 2	2,100	2,800	6.7 J-	2,100	3.5	0.44
LVWPS-MW223C	10/7/2020	LVWPS-MW223C-BL04	N	BL04	Zone 2	5,700	7,700	14	2,100	1.1	2.77
LVWPS-MW224A	10/7/2020	LVWPS-MW224A-BL04	N	BL04	Zone 2	2,300	2,900	11	2,000	0.90	6.09
LVWPS-MW224A	12/23/2020	LVWPS-MW224A-EM01	N	EM01	Zone 2	2,700	2,800	11	2,200	1.4 J	6.34
LVWPS-MW224B	10/7/2020	LVWPS-MW224B-BL04	N	BL04	Zone 2	200	220	0.63			1.48
LVWPS-MW224C	10/8/2020	LVWPS-MW224C-BL04	N	BL04	Zone 2	30	<100	0.068			2.10
LVWPS-MW225A	10/7/2020	LVWPS-MW225A-BL04	N	BL04	General Vicinity	2,300	5,200	22			4.35
LVWPS-MW225A	10/7/2020	LVWPS-MW225A-BL04-FD	FD	BL04	General Vicinity	2,300	5,200	22			
LVWPS-MW225B	10/7/2020	LVWPS-MW225B-BL04	N	BL04	General Vicinity	4,000	5,100	3.3			1.92
LVWPS-MW226A	10/1/2020	LVWPS-MW226A-BL04	N	BL04	General Vicinity	2,800	5,100	19			3.71
LVWPS-MW226A	10/1/2020	LVWPS-MW226A-BL04-FD	FD	BL04	General Vicinity	2,300	4,900	19			
LVWPS-MW226B	10/1/2020	LVWPS-MW226B-BL04	N	BL04	General Vicinity	37	<100	<0.014			0.79
LVWPS-U1-IW01A	9/29/2020	LVWPS-U1-IW01A-BL04	N	BL04	Zone 1	9,700	18,000	14			0.86
LVWPS-U1-IW01B	9/29/2020	LVWPS-U1-IW01B-BL04	N	BL04	Zone 1	7,800	13,000	13			0.80
LVWPS-U1-IW02A	9/30/2020	LVWPS-U1-IW02A-BL04	N	BL04	Zone 1	2,200	5,000	11			0.68
LVWPS-U1-IW02B	9/30/2020	LVWPS-U1-IW02B-BL04	N	BL04	Zone 1	3,400	6,900	9.8			1.82
LVWPS-U1-IW03A	9/30/2020	LVWPS-U1-IW03A-BL04	N	BL04	Zone 1	2,500	5,200	13			0.68
LVWPS-U1-IW03B	9/30/2020	LVWPS-U1-IW03B-BL04	N	BL04	Zone 1	1,400	3,900	10			2.18
LVWPS-U1-IW04A	9/28/2020	LVWPS-U1-IW04A-BL04	N	BL04	Zone 1	3,500	6,600	12			0.53
LVWPS-U1-IW04A	9/28/2020	LVWPS-U1-IW04A-BL04-FD	FD	BL04	Zone 1	3,500	6,600	12			
LVWPS-U1-IW04B	9/28/2020	LVWPS-U1-IW04B-BL04	N	BL04	Zone 1	3,400	4,800	11			2.37
LVWPS-U1-IW05A	9/29/2020	LVWPS-U1-IW05A-BL04	N	BL04	Zone 1	2,100	4,300	10			0.51
LVWPS-U1-IW05B	9/29/2020	LVWPS-U1-IW05B-BL04	N	BL04	Zone 1	2,500	5,100	11			1.34
LVWPS-U1-IW06A	9/30/2020	LVWPS-U1-IW06A-BL04	Ν	BL04	Zone 1	2,400	3,600	8.5			1.60
LVWPS-U1-IW06B	9/30/2020	LVWPS-U1-IW06B-BL04	N	BL04	Zone 1	2,500	3,900	10			2.07

Well	Sample Date	Sample ID	QC Type	Event	Zone	Perchlorate by USEPA Method 314.0	Chlorate by USEPA Method 300.1B ug/l	Nitrate (as N) by USEPA Method 300.0 mg/L	Sulfate by USEPA Method 300.0	Total Organic Carbon by SM 5310B mg/L	Dissolved Oxygen Field Measurement mg/L
LVWPS-U1-IW07A	10/1/2020	LVWPS-U1-IW07A-BL04	N	BI 04	Zone 1	3 100	4 500	9.5			3 39
LVWPS-U1-IW07B	10/1/2020	LVWPS-U1-IW07B-BL04	N	BL 04	Zone 1	4 300	4 900	9.5			2 21
LVWPS-U1-IW08A	10/1/2020	LVWPS-U1-IW08A-BL04	N	BL 04	Zone 1	4 000	7 500	9.7			1.60
LVWPS-U1-IW08B	10/1/2020	LVWPS-U1-IW08B-BL04	N	BL04	Zone 1	4,900	6,700	11			1.92
LVWPS-U1-MW01A	9/28/2020	LVWPS-U1-MW01A-BL04	N	BL04	Zone 1	6,100	11.000	14	1.600	1.0	1.98
LVWPS-U1-MW01B	9/28/2020	LVWPS-U1-MW01B-BL04	Ν	BL04	Zone 1	7,100	12.000	13	1.800	1.2 J-	1.72
LVWPS-U1-MW02A	9/29/2020	LVWPS-U1-MW02A-BL04	Ν	BL04	Zone 1	4,200	7,600	12	1,600	1.2	4.60
LVWPS-U1-MW02B	10/7/2020	LVWPS-U1-MW02B-BL04	Ν	BL04	Zone 1	2,400	4,100	11	8,300	1.1	2.35
LVWPS-U1-MW03B	9/29/2020	LVWPS-U1-MW03B-BL04	Ν	BL04	Zone 1	4,300	7,800	14	1,400	1.5	6.71
LVWPS-U1-MW04A	9/30/2020	LVWPS-U1-MW04A-BL04	Ν	BL04	Zone 1	4,500	9,100	13	1,600	1.0	0.84
LVWPS-U1-MW04B	10/1/2020	LVWPS-U1-MW04B-BL04	Ν	BL04	Zone 1	4,200	9,200	13	1,700	2.1	1.75
LVWPS-U1-MW05A	9/29/2020	LVWPS-U1-MW05A-BL04	Ν	BL04	Zone 1	10,000	15,000	14	1,900	1.0	2.23
LVWPS-U1-MW05B	9/29/2020	LVWPS-U1-MW05B-BL04	Ν	BL04	Zone 1	5,100	8,800	13	1,800	1.2	1.71
LVWPS-U1-MW06A	9/29/2020	LVWPS-U1-MW06A-BL04	Ν	BL04	Zone 1	1,100	3,300	11	970	1.5	0.98
LVWPS-U1-MW06B	9/29/2020	LVWPS-U1-MW06B-BL04	Ν	BL04	Zone 1	1,700	3,800	11	1,000	1.7	1.03
LVWPS-U1-MW07	9/30/2020	LVWPS-U1-MW07-BL04	N	BL04	Zone 1	4,100	7,700	5.6	2,000	0.84	3.78
LVWPS-U1-MW08A	9/30/2020	LVWPS-U1-MW08A-BL04	N	BL04	Zone 1	4,700	7,300	13	1,500	1.7	2.21
LVWPS-U1-MW08B	9/30/2020	LVWPS-U1-MW08B-BL04	N	BL04	Zone 1	2,800	5,500	10	1,400	1.3	3.10
LVWPS-U1-MW09A	9/30/2020	LVWPS-U1-MW09A-BL04	N	BL04	Zone 1	7,500	12,000	13	1,900	1.8	1.62
LVWPS-U1-MW09B	9/30/2020	LVWPS-U1-MW09B-BL04	<u>N</u>	BL04	Zone 1	6,400	11,000	9.6	1,900	0.89	1.80
LVWPS-U1-MW10A	10/2/2020	LVWPS-U1-MW10A-BL04	N	BL04	Zone 1	9,200	16,000	9.9	2,000	0.55	3.77
LVWPS-U1-MW10B	10/2/2020	LVWPS-U1-MW10B-BL04	N	BL04	Zone 1	4,600	5,100	3.8	1,800	0.53	1.68
LVWPS-U2-IW01	10/8/2020			BL04	Zone 2	8,100	12,000	9.0			3.48
	10/8/2020			DL04	Zone 2	0,900	12,000	0.0			2 90
LVWPS-U2-IW02	10/8/2020	LVWPS-U2-IW02-BL04	N	BL 04	Zone 2	7 100	12,000	12			2.66
LVWPS-U2-IW00	10/8/2020	LVWPS-U2-IW04-BL04	N	BL 04	Zone 2	3 900	6 500	19			4 10
LVWPS-U2-IW05	10/8/2020	LVWPS-U2-IW05-BL04	N	BL 04	Zone 2	8,500	14 000	12			4 95
LVWPS-U2-IW06	10/8/2020	LVWPS-U2-IW06-BL04	N	BL04	Zone 2	10.000	17.000	14			3.46
LVWPS-U2-IW07	10/6/2020	LVWPS-U2-IW07-BL04	Ν	BL04	Zone 2	6,000	8,700	5.7			1.85
LVWPS-U2-IW08	10/6/2020	LVWPS-U2-IW08-BL04	Ν	BL04	Zone 2	12,000	20,000	17			5.08
LVWPS-U2-IW09	10/6/2020	LVWPS-U2-IW09-BL04	Ν	BL04	Zone 2	35	63 J	0.11			2.85
LVWPS-U2-IW10	10/6/2020	LVWPS-U2-IW10-BL04	Ν	BL04	Zone 2	400	150	<0.014			3.48
LVWPS-U2-IW11	10/6/2020	LVWPS-U2-IW11-BL04	Ν	BL04	Zone 2	1,400	2,400	2.6			3.31
LVWPS-U2-IW12	10/8/2020	LVWPS-U2-IW12-BL04	Ν	BL04	Zone 2	5,900	8,300	11			4.65
LVWPS-U2-MW01	10/8/2020	LVWPS-U2-MW01-BL04	Ν	BL04	Zone 2	360	450	0.89	2,500	0.36 J	1.63
LVWPS-U2-MW02	10/8/2020	LVWPS-U2-MW02-BL04	Ν	BL04	Zone 2	5,200	8,300	6.2	1,800	0.64	8.10
LVWPS-U2-MW03	10/9/2020	LVWPS-U2-MW03-BL04	N	BL04	Zone 2	2,100	3,400	11	2,000	0.98	3.53
LVWPS-U2-MW04	10/6/2020	LVWPS-U2-MW04-BL04	N	BL04	Zone 2	160	260	0.27	3,000	0.27 J	0.93
LVWPS-U2-MW05	10/5/2020	LVWPS-U2-MW05-BL04	<u>N</u>	BL04	Zone 2	9,300	15,000	8.4	1,300	0.41 J	4.35
LVWPS-U2-MW06	10/1/2020	LVWPS-U2-MW06-BL04	N	BL04	Zone 2	4,100	7,300	9.5	1,900	0.94	2.79
LVVVPS-U2-WW07	10/2/2020	LVWPS-02-WW07-BL04		BL04	Zone 2	1,600	2,600	10	1,900	1.5	2.79
	10/0/2020		N	BL04	Zone 2	4,000	18,000	17	2,100	1.5	2.03
LVWPS-U2-WW09	10/2/2020	I VWPS-I 2-MW/10-BL04	N	BL 04	Zone 2	6,000	8 900	17	2,200	1.1	2.00 4 16
LVWPS-U2-MW12	10/7/2020	LVWPS-U2-MW12-BL04	N	BL 04	Zone 2	8 800	12 000	18	2,200	11	4 13
LVWPS-U2-MW13	10/2/2020	LVWPS-U2-MW13-BI 04	N	BL04	Zone 2	5,400	11,000	17	2,100	12	3.58
LVWPS-U2-MW13	10/2/2020	LVWPS-U2-MW13-BL04-FD	FD	BL04	Zone 2	5,800	11,000	17	2,300	1.4	
LVWPS-U2-MW14	10/6/2020	LVWPS-U2-MW14-BL04	N	BL04	Zone 2	11,000	360	17	2,000	0.78	5.18
LVWPS-U2-MW17	10/1/2020	LVWPS-U2-MW17-BL04	Ν	BL04	Zone 2	4,500	10,000	11	1,700	0.66	2.28
LVWPS-U2-MW18	10/5/2020	LVWPS-U2-MW18-BL04	Ν	BL04	Zone 2	8,400	10,000	18	2,200	1.3	4.49
LVWPS-U2-MW19	10/2/2020	LVWPS-U2-MW19-BL04	Ν	BL04	Zone 2	12,000	14,000	14	2,100	1.0	3.29
LVWPS-U2-MW20	10/2/2020	LVWPS-U2-MW20-BL04	Ν	BL04	Zone 2	6,000	13,000	12	2,200	1.5	1.38
LVWPS-U3-IW01	10/9/2020	LVWPS-U3-IW01-BL04	N	BL04	Zone 3	3,100	4,900	8.3			5.57

Well	Sample Date	Sample ID	QC Type	Event	Zone	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
	10/6/2020		NI	BL04	Zono 3	μg/L 10.000	μg/L 15.000	14	iiig/∟	mg/∟	1 02
	10/0/2020		N	DL04	Zone 2	F 200	0,700	0.4			4.02
	10/0/2020		IN N	BL04	Zone 2	5,200	9,700	9.4			3.01
LVWPS-03-1W03A	10/0/2020		N	BL04	Zone 3	1,800	3,300	7.0			3.30
	10/0/2020		N	BL04	Zone 2	1,000	3,200	7.5			4.91
LVWPS-03-1W04A	10/7/2020			BL04	Zone 2	210	1 100	1.1			0.74
	10/7/2020			BL04	Zono 3	230	1,100	3.0 7.9			5.71
	10/7/2020			BL04	Zone 2	230	970	7.0			5.74
	10/7/2020			BL04	Zone 2	240	670 540	7.4			5.05
	10/7/2020			BL04	Zone 2	540	1 900	7.0			0.09
	10/0/2020			BL04	Zone 2	3,700	1,600	7.0			4.72
	10/8/2020	LVWPS-U3-IW06C-BL04		BL04	Zone 3	3,800	4,100	0.1			0.71
LVWPS-03-1W07A	10/8/2020	LVWPS-03-IW07A-BL04		BL04	Zone 3	1,400	2,000	7.1			3.37
	10/8/2020			BL04	Zone 3	9,400	15,000	9.0			0.80
	10/9/2020	LVWPS-U3-IW07C-BL04		BL04	Zone 3	7,300	14,000	6.0			0.73
LVWPS-03-1008A	10/8/2020	LVWPS-U3-IW08A-BL04		BL04	Zone 3	1,900	2,600	5.6			0.79
LVWPS-U3-IW08A	10/8/2020	LVWPS-U3-IW08A-BL04-FD	FD	BL04	Zone 3	1,900	2,600	5.5			
LVWPS-U3-IW08B	10/8/2020	LVWPS-U3-IW08B-BL04	IN N	BL04	Zone 3	15,000	21,000	12			0.94
LVWPS-03-1008C	10/9/2020	LVWPS-U3-IW08C-BL04	N N	BL04	Zone 3	2,400	3,500	2.3			0.66
LVWPS-U3-MW01B	10/5/2020	LVWPS-U3-MW01B-BL04	<u>N</u>	BL04	Zone 3	2,000	1,800	0.24	1,700	6.3	2.06
LVWPS-U3-MW02A	10/5/2020	LVWPS-U3-MW02A-BL04	<u>N</u>	BL04	Zone 3	3,000	770	5.7	1,400	0.54	2.01
LVWPS-03-MW02B	10/5/2020	LVWPS-U3-MW02B-BL04	N	BL04	Zone 3	8,400	12,000	10	2,000	2.1	1.70
LVWPS-U3-MW03A	10/2/2020	LVWPS-U3-MW03A-BL04	N	BL04	Zone 3	3,300	4,500	7.5	2,800	0.57 J-	6.40
LVWPS-U3-MW03A	10/2/2020	LVWPS-U3-MWU3A-BL04-FD	FD	BL04	Zone 3	3,500	4,500	7.5	2,800	0.62 J-	
LVWPS-03-MW03B	10/2/2020	LVWPS-U3-MW03B-BL04	N	BL04	Zone 3	3,800	13,000	9.1	1,900	0.41 J	3.23
LVWPS-U3-MW03C	10/1/2020	LVWPS-U3-MW03C-BL04	N	BL04	Zone 3	4,900	12,000	1.1	1,900	0.32 J	2.96
LVWPS-U3-MW04B	10/2/2020	LVWPS-U3-MW04B-BL04	N	BL04	Zone 3	120	67 J	<0.014	1,600	6.8	2.03
LVWPS-U3-MW05B	10/2/2020	LVWPS-U3-MW05B-BL04	N	BL04	Zone 3	9.4	<10	< 0.014	1,900	8.4	2.07
LVWPS-U3-MW06A	10/5/2020	LVWPS-U3-MW06A-BL04	N	BL04	Zone 3	9,900	15,000	13	1,700	0.48 J	5.05
LVWPS-U3-MW06B	10/7/2020	LVWPS-U3-MW06B-BL04	N	BL04	Zone 3	630	1,200	6.6	1,500	0.43 J	4.23
LVWPS-U3-MW07A	10/9/2020	LVWPS-U3-MW07A-BL04	N	BL04	Zone 3	250	540	5.9	1,200	0.39 J	5.45
LVWPS-U3-MW07B	10/9/2020	LVWPS-U3-MW07B-BL04	N	BL04	Zone 3	4,800	8,500	9.2	2,100	0.41 J	6.07
LVWPS-U3-MW08A	10/8/2020	LVWPS-U3-MW08A-BL04	N	BL04	Zone 3	15,000	22,000	14	2,300	0.47 J	5.05
LVWPS-U3-MW08B	10/8/2020	LVWPS-U3-MW08B-BL04	N	BL04	Zone 3	6,100	8,100	4.9	2,200	2.6	2.46
LVWPS-U3-MW09	10/7/2020	LVWPS-U3-MW09-BL04	N	BL04	Zone 3	3,500	6,100	4.8	1,300	<0.26	4.35
LVWPS-U3-MW10A	10/5/2020	LVWPS-U3-MW10A-BL04	N	BL04	Zone 3	2,600	3,200	3.0	1,800	0.77	0.99
LVWPS-U3-MW10B	10/5/2020	LVWPS-U3-MW10B-BL04	N	BL04	Zone 3	3,200	4,200	6.5	1,600	0.32 J	6.76
LVWPS-U3-MW11A	10/7/2020	LVWPS-U3-MW11A-BL04	N	BL04	Zone 3	10,000	16,000	9.8	2,000	0.42 J	2.55
LVWPS-U3-MW11B	10/7/2020	LVWPS-U3-MW11B-BL04	N	BL04	Zone 3	4,100	9,600	5.2	1,900	0.33 J	1.23
LVWPS-U3-MW11C	10/8/2020	LVWPS-U3-MW11C-BL04	Ν	BL04	Zone 3	5,300	7,100	8.5	2,000	0.46 J	4.73
LVWPS-U3-MW12A	10/6/2020	LVWPS-U3-MW12A-BL04	Ν	BL04	Zone 3	2,700	4,200	5.1	1,800	0.38 J	2.67
LVWPS-U3-MW12B	10/6/2020	LVWPS-U3-MW12B-BL04	Ν	BL04	Zone 3	6,000	4,900	6.6	1,700	0.27 J	5.94
LVWPS-U3-MW13A	10/7/2020	LVWPS-U3-MW13A-BL04	Ν	BL04	Zone 3	3,900	7,200	11	2,000	0.45 J	5.44
LVWPS-U3-MW13B	10/7/2020	LVWPS-U3-MW13B-BL04	N	BL04	Zone 3	350	550	6.8	1,500	0.45 J	5.92

Notes:

mg/L - milligrams per liter

ug/L - micrograms per liter

-- not analyzed

< The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J 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.

J- The result is an estimated quantity, but the result may be biased low.

# Table 11Tracer Dye Concentration of BatchesInjection Event 1 - December 2020Las Vegas Wash Bioremediation Pilot Study

	<u> </u>								
Batch Type	Batch ID	Sample ID	Lab Sample	Sample Type	Date/Time	Fluore	escein Cono (n <del>ab</del> i	Rhodan	nine WT
			Number		Conected	Peak (nm)	conc (ppp	Peak (nm)	Conc (ppp)
Zone 2 - Alluvium - Carbon	1B	BO-1B-20201205	E9378	N	12/5/20 1610	ND	ND	567.0	5,720
Zone 2 - Alluvium - Carbon	2C	BO-2C-20201205	E9379	Ν	12/5/20 1625	ND	ND	567.0	7,390
Zone 2 - Alluvium - Carbon	3A	BO-3A-20201208	E9393	Ν	12/8/20 1248	ND	ND	567.6	7,170
Zone 2 - Alluvium - Carbon	4B	BO-4B-20201209	E9394	Ν	12/9/20 0731	ND	ND	567.0	7,240
Zone 2 - Alluvium - Carbon	5C	BO-5C-20201209	E9395	Ν	12/9/20 0741	ND	ND	567.0	6,250
Zone 2 - Alluvium Distribution Water	6A	BW-6A-20201209	E9403	Ν	12/9/20 1559	ND	ND	567.0	7,700
Zone 2 - Alluvium Distribution Water	7B	BW-7B-20201209	E9404	Ν	12/9/20 1300	ND	ND	567.1	7,350
Zone 1 - UMCf - Carbon	1C	BO-1C-20201213	E9434	Ν	12/13/20 0800	513.7	1,050	ND	ND
Zone 1 - UMCf - Carbon	2B	BO-2B-20201213	E9435	Ν	12/13/20 0745	513.9	889	ND	ND
Zone 3 - UMCf-cg Carbon	1C	BO-1C-20201215	E9817	Ν	12/15/20 1505	515.9 **	911	ND	ND
Zone 3 - UMCf-cg Carbon	1C	BO-1C-20201215-FD	E9818	FD	12/15/20 1504	515.8 **	1,290	ND	ND
Zone 3 - UMCf-cg Carbon	2B	BO-2B-20201215	E9819	Ν	12/15/20 1450	515.4 **	2,300	ND	ND
Zone 3 - UMCf-cg Carbon	3C	BO-3C-20201217	E9867	Ν	12/17/20 1212	515.8 **	753	ND	ND
Zone 2 - UMCf - Carbon	2C	BO-2C-20201219	E9887	Ν	12/19/20 1325	515.6 **	648	ND	ND
Zone 2 - UMCf - Carbon	1B	BO-1B-20201221	E9910	Ν	12/21/20 0710	515.4 **	463	ND	ND
Zone 2 - UMCf - Carbon	1B	BO-1B-20201221-FD	E9911	FD	12/21/20 0710	515.8 **	242	ND	ND

Notes:

nm - nanometers

conc - concentration

ppb - parts per billion

N - normal sample

ND - No dye detected

FD - field duplicate

\*\*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.

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ppb	ppb	°C	
LVWPS-A2-DR01A	12/7/2020 14:07	LVWPS-A2-IW04A	238	0.00	NA	22.63	
LVWPS-A2-DR01A	12/7/2020 14:59	LVWPS-A2-IW04A	1,673	0.00	NA	21.10	
LVWPS-A2-DR01A	12/7/2020 16:08	LVWPS-A2-IW04A	1,663	60.43	NA	20.37	
LVWPS-A2-DR01A	12/8/2020 10:51	LVWPS-A2-IW04A	0	116.00	NA	22.30	
LVWPS-A2-DR01A	12/8/2020 14:34	LVWPS-A2-IW04A	5	121.03	NA	19.08	
LVWPS-A2-DR01A	12/8/2020 15:19	LVWPS-A2-IW04A	155	139.02	NA	19.91	
LVWPS-A2-DR01A	12/8/2020 15:29	LVWPS-A2-IW04A	353	136.82	NA	19.40	
LVWPS-A2-DR01A	12/8/2020 15:38	LVWPS-A2-IW04A	514	158.23	NA	19.19	
LVWPS-A2-DR01A	12/8/2020 15:45	LVWPS-A2-IW04A	610	137.39	NA	18.59	
LVWPS-A2-DR01A	12/9/2020 9:46	LVWPS-A2-IW04A	304	130.45	NA	19.78	
LVWPS-A2-DR01A	12/9/2020 10:02	LVWPS-A2-IW04A	576	150.97	NA	18.25	
LVWPS-A2-DR01A	12/9/2020 10:23	LVWPS-A2-IW04A	997	174.61	NA	18.03	
LVWPS-A2-DR01A	12/9/2020 10:50	LVWPS-A2-IW04A	1,486	154.20	NA	19.97	
LVWPS-A2-DR01A	12/9/2020 11:17	LVWPS-A2-IW04A	1,997	141.58	NA	20.12	
LVWPS-A2-DR01A	12/9/2020 11:42	LVWPS-A2-IW04A	2,418	175.67	NA	21.06	
LVWPS-A2-DR01A	12/9/2020 12:08	LVWPS-A2-IW04A	2,843	171.94	NA	20.83	
LVWPS-A2-DR01A	12/9/2020 15:11	LVWPS-A2-IW04A	2,848	178.27	NA	16.74	
LVWPS-A2-DR01A	12/9/2020 15:34	LVWPS-A2-IW04A	3,019	191.19	NA	16.56	
LVWPS-A2-DR01A	12/9/2020 15:46	LVWPS-A2-IW04A	3,090	222.51	NA	15.83	
LVWPS-A2-DR01A	12/9/2020 15:56	LVWPS-A2-IW04A	3,490	259.02	NA	16.66	
LVWPS-A2-DR01A	12/9/2020 16:13	LVWPS-A2-IW04A	3,838	294.42	NA	17.11	
LVWPS-A2-DR01A	12/9/2020 16:47	LVWPS-A2-IW04A	4,395	187.51	NA	18.66	
LVWPS-A2-DR01B	12/7/2020 14:09	LVWPS-A2-IW04B	265	0.00	NA	22.30	
LVWPS-A2-DR01B	12/7/2020 15:01	LVWPS-A2-IW04B	833	90.02	NA	21.19	
LVWPS-A2-DR01B	12/7/2020 16:12	LVWPS-A2-IW04B	1,098	111.16	NA	20.02	
LVWPS-A2-DR01B	12/8/2020 10:55	LVWPS-A2-IW04B	0	0.00	NA	23.10	

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ppb	ppb	O°	
LVWPS-A2-DR01B	12/8/2020 14:36	LVWPS-A2-IW04B	6	82.53	NA	19.73	
LVWPS-A2-DR01B	12/8/2020 15:21	LVWPS-A2-IW04B	286	83.05	NA	19.48	
LVWPS-A2-DR01B	12/8/2020 15:30	LVWPS-A2-IW04B	508	99.43	NA	19.60	
LVWPS-A2-DR01B	12/8/2020 15:40	LVWPS-A2-IW04B	698	91.05	NA	19.04	
LVWPS-A2-DR01B	12/8/2020 15:49	LVWPS-A2-IW04B	809	81.95	NA	18.79	
LVWPS-A2-DR01B	12/9/2020 9:48	LVWPS-A2-IW04B	325	1.09	NA	18.88	
LVWPS-A2-DR01B	12/9/2020 10:06	LVWPS-A2-IW04B	635	0.00	NA	20.42	
LVWPS-A2-DR01B	12/9/2020 10:25	LVWPS-A2-IW04B	1,116	0.00	NA	18.27	
LVWPS-A2-DR01B	12/9/2020 10:53	LVWPS-A2-IW04B	1,675	109.21	NA	20.77	
LVWPS-A2-DR01B	12/9/2020 11:20	LVWPS-A2-IW04B	2,146	106.32	NA	20.22	
LVWPS-A2-DR01B	12/9/2020 11:45	LVWPS-A2-IW04B	2,653	113.03	NA	20.79	
LVWPS-A2-DR01B	12/9/2020 12:11	LVWPS-A2-IW04B	3,161	97.05	NA	21.87	
LVWPS-A2-DR01B	12/9/2020 15:15	LVWPS-A2-IW04B	3,206	120.15	NA	16.07	
LVWPS-A2-DR01B	12/9/2020 15:36	LVWPS-A2-IW04B	3,396	126.91	NA	16.08	
LVWPS-A2-DR01B	12/9/2020 15:47	LVWPS-A2-IW04B	3,652	125.64	NA	15.85	
LVWPS-A2-DR01B	12/9/2020 15:58	LVWPS-A2-IW04B	3,872	127.28	NA	16.27	
LVWPS-A2-DR01B	12/9/2020 16:16	LVWPS-A2-IW04B	4,232	121.43	NA	16.50	
LVWPS-A2-DR01B	12/9/2020 16:45	LVWPS-A2-IW04B	4,979	109.12	NA	19.30	
LVWPS-A2-DR02A	12/7/2020 13:58	LVWPS-A2-IW06A	393	0.00	NA	23.05	
LVWPS-A2-DR02A	12/7/2020 14:00	LVWPS-A2-IW06A	1,278	113.54	NA	20.88	
LVWPS-A2-DR02A	12/7/2020 15:55	LVWPS-A2-IW06A	1,715	106.95	NA	19.58	
LVWPS-A2-DR02A	12/8/2020 10:37	LVWPS-A2-IW06A	0	3.50	NA	24.15	
LVWPS-A2-DR02A	12/8/2020 15:01	LVWPS-A2-IW06A	60	23.04	NA	20.74	
LVWPS-A2-DR02A	12/8/2020 15:24	LVWPS-A2-IW06A	221	40.48	NA	20.43	
LVWPS-A2-DR02A	12/8/2020 15:33	LVWPS-A2-IW06A	244	42.84	NA	20.36	
LVWPS-A2-DR02A	12/8/2020 16:55	LVWPS-A2-IW06A	400	24.53	NA	18.46	

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ppb	ppb	°C	
LVWPS-A2-DR02A	12/9/2020 9:51	LVWPS-A2-IW06A	49	0.00	NA	19.30	
LVWPS-A2-DR02A	12/9/2020 9:56	LVWPS-A2-IW06A	84	0.00	NA	19.30	
LVWPS-A2-DR02A	12/9/2020 10:09	LVWPS-A2-IW06A	199	4.52	NA	19.20	
LVWPS-A2-DR02A	12/9/2020 10:16	LVWPS-A2-IW06A	252	1.20	NA	19.42	
LVWPS-A2-DR02A	12/9/2020 10:30	LVWPS-A2-IW06A	369	2.95	NA	20.40	
LVWPS-A2-DR02A	12/9/2020 10:37	LVWPS-A2-IW06A	419	2.01	NA	20.54	
LVWPS-A2-DR02A	12/9/2020 10:42	LVWPS-A2-IW06A	468	1.31	NA	20.76	
LVWPS-A2-DR02A	12/9/2020 15:04	LVWPS-A2-IW06A	502	63.60	NA	19.27	
LVWPS-A2-DR02A	12/9/2020 15:27	LVWPS-A2-IW06A	984	119.19	NA	19.53	
LVWPS-A2-DR02A	12/9/2020 15:41	LVWPS-A2-IW06A	1,253	125.37	NA	19.86	
LVWPS-A2-DR02A	12/9/2020 15:51	LVWPS-A2-IW06A	1,454	140.98	NA	19.10	
LVWPS-A2-DR02A	12/9/2020 16:09	LVWPS-A2-IW06A	1,850	144.31	NA	19.91	
LVWPS-A2-DR02A	12/9/2020 16:19	LVWPS-A2-IW06A	2,195	149.28	NA	19.62	
LVWPS-A2-DR02B	12/7/2020 14:01	LVWPS-A2-IW06B	322	0.00	NA	23.37	
LVWPS-A2-DR02B	12/7/2020 14:52	LVWPS-A2-IW06B	1,050	0.00	NA	21.22	
LVWPS-A2-DR02B	12/7/2020 16:00	LVWPS-A2-IW06B	1,541	0.00	NA	19.25	
LVWPS-A2-DR02B	12/8/2020 10:39	LVWPS-A2-IW06B	0	121.15	NA	23.18	
LVWPS-A2-DR02B	12/8/2020 15:03	LVWPS-A2-IW06B	40	128.62	NA	20.64	
LVWPS-A2-DR02B	12/8/2020 15:25	LVWPS-A2-IW06B	362	129.28	NA	20.20	
LVWPS-A2-DR02B	12/8/2020 15:35	LVWPS-A2-IW06B	505	129.59	NA	20.08	
LVWPS-A2-DR02B	12/9/2020 9:53	LVWPS-A2-IW06B	92	117.59	NA	18.23	
LVWPS-A2-DR02B	12/9/2020 9:57	LVWPS-A2-IW06B	157	111.38	NA	19.68	
LVWPS-A2-DR02B	12/9/2020 10:11	LVWPS-A2-IW06B	368	126.33	NA	18.24	
LVWPS-A2-DR02B	12/9/2020 10:18	LVWPS-A2-IW06B	465	125.04	NA	20.74	
LVWPS-A2-DR02B	12/9/2020 10:33	LVWPS-A2-IW06B	679	125.14	NA	19.76	
LVWPS-A2-DR02B	12/9/2020 10:38	LVWPS-A2-IW06B	772	97.01	NA	21.09	

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ррb	ppb	°C	
LVWPS-A2-DR02B	12/9/2020 10:43	LVWPS-A2-IW06B	860	122.37	NA	20.98	
LVWPS-A2-DR02B	12/9/2020 15:05	LVWPS-A2-IW06B	929	139.65	NA	17.89	
LVWPS-A2-DR02B	12/9/2020 15:28	LVWPS-A2-IW06B	1,411	136.35	NA	18.19	
LVWPS-A2-DR02B	12/9/2020 15:42	LVWPS-A2-IW06B	1,680	136.45	NA	18.05	
LVWPS-A2-DR02B	12/9/2020 15:52	LVWPS-A2-IW06B	1,881	136.76	NA	18.27	
LVWPS-A2-DR02B	12/9/2020 16:10	LVWPS-A2-IW06B	2,277	136.80	NA	19.01	
LVWPS-A2-DR02B	12/9/2020 16:23	LVWPS-A2-IW06B	2,622	136.33	NA	19.80	
LVWPS-U2-DR01	12/7/2020 14:11	-	-	0.00	NA	22.16	
LVWPS-U2-DR01	12/7/2020 15:02	-	-	0.00	NA	21.37	
LVWPS-U2-DR01	12/7/2020 16:13	-	-	0.00	NA	20.02	
LVWPS-U2-DR01	12/8/2020 11:00	-	-	0.00	NA	23.10	
LVWPS-U2-DR01	12/8/2020 14:38	-	-	0.00	NA	20.00	
LVWPS-U2-DR01	12/8/2020 15:51	-	-	0.00	NA	19.17	
LVWPS-U2-DR01	12/9/2020 10:06	-	-	0.00	NA	20.08	
LVWPS-U2-DR01	12/9/2020 11:22	-	-	0.00	NA	20.61	
LVWPS-U2-DR01	12/9/2020 15:37	-	-	0.00	NA	16.48	
LVWPS-U2-DR02	12/7/2020 14:04	-	-	2.02	NA	22.69	
LVWPS-U2-DR02	12/7/2020 14:55	-	-	0.00	NA	21.53	
LVWPS-U2-DR02	12/7/2020 16:02	-	-	0.00	NA	19.40	
LVWPS-U2-DR02	12/8/2020 10:41	-	-	0.00	NA	23.58	
LVWPS-U2-DR02	12/8/2020 15:05	-	-	0.00	NA	20.51	
LVWPS-U2-DR02	12/9/2020 10:13	-	-	0.00	NA	20.02	
LVWPS-U2-DR02	12/9/2020 15:30	-	-	0.00	NA	17.43	
LVWPS-U2-DR02	12/9/2020 16:24	-	-	0.00	NA	20.21	
LVWPS-A3-DR01	12/16/2020 13:39	-	-	NA	0.00	22.84	
LVWPS-A3-DR01	12/16/2020 14:56	-	-	NA	0.00	15.50	

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ppb	ppb	°C	
LVWPS-A3-DR01	12/17/2020 13:37	-	-	NA	0.00	21.87	
LVWPS-U3-DR01A	12/16/2020 13:36	LVWPS-U3-IW04A	41	NA	0.00	23.50	
LVWPS-U3-DR01A	12/16/2020 14:19	LVWPS-U3-IW04A	245	NA	51.18	22.85	
LVWPS-U3-DR01A	12/16/2020 14:58	LVWPS-U3-IW04A	431	NA	15.27	20.72	
LVWPS-U3-DR01A	12/16/2020 15:55	LVWPS-U3-IW04A	691	NA	99.22	18.72	
LVWPS-U3-DR01A	12/17/2020 9:06	LVWPS-U3-IW04A	45	NA	6.16	15.71	
LVWPS-U3-DR01A	12/17/2020 10:22	LVWPS-U3-IW04A	402	NA	14.32	19.02	
LVWPS-U3-DR01A	12/17/2020 11:06	LVWPS-U3-IW04A	513	NA	24.61	20.83	
LVWPS-U3-DR01A	12/17/2020 12:35	LVWPS-U3-IW04A	828	NA	18.53	21.77	
LVWPS-U3-DR01A	12/17/2020 13:34	LVWPS-U3-IW04A	1,016	NA	37.72	20.88	
LVWPS-U3-DR01A	12/17/2020 14:38	LVWPS-U3-IW04A	1,109	NA	10.59	22.88	
LVWPS-U3-DR01A	12/17/2020 14:50	LVWPS-U3-IW04A	1,109	NA	14.54	21.95	
LVWPS-U3-DR01B	12/16/2020 13:38	LVWPS-U3-IW04A	32	NA	0.00	21.34	
LVWPS-U3-DR01B	12/16/2020 14:21	LVWPS-U3-IW04A	229	NA	85.98	21.87	
LVWPS-U3-DR01B	12/16/2020 15:01	LVWPS-U3-IW04B	416	NA	61.14	20.37	
LVWPS-U3-DR01B	12/16/2020 15:52	LVWPS-U3-IW04B	694	NA	87.05	11.39	
LVWPS-U3-DR01B	12/17/2020 9:12	LVWPS-U3-IW04B	39	NA	90.16	16.33	
LVWPS-U3-DR01B	12/17/2020 10:17	LVWPS-U3-IW04B	410	NA	74.49	19.62	
LVWPS-U3-DR01B	12/17/2020 11:08	LVWPS-U3-IW04B	567	NA	83.20	19.65	
LVWPS-U3-DR01B	12/17/2020 12:31	LVWPS-U3-IW04B	809	NA	80.38	17.52	
LVWPS-U3-DR01B	12/17/2020 13:32	LVWPS-U3-IW04B	1,017	NA	83.41	20.78	
LVWPS-U3-DR01B	12/17/2020 14:39	LVWPS-U3-IW04B	1,049	NA	83.28	21.64	
LVWPS-U3-DR01B	12/17/2020 14:55	LVWPS-U3-IW04B	1,114	NA	91.17	19.26	
LVWPS-U3-DR02A	12/16/2020 13:49	LVWPS-U3-IW04B	104	NA	0.00	22.15	
LVWPS-U3-DR02A	12/16/2020 14:29	LVWPS-U3-IW04B	291	NA	90.37	21.48	
LVWPS-U3-DR02A	12/16/2020 15:10	LVWPS-U3-IW07A	473	NA	89.29	20.63	

				Field Probe Measurements			
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature	
			gallons	ppb	ppb	°C	
LVWPS-U3-DR02A	12/16/2020 15:45	LVWPS-U3-IW07A	541	NA	23.91	22.02	
LVWPS-U3-DR02A	12/16/2020 16:13	LVWPS-U3-IW07A	691	NA	97.50	19.23	
LVWPS-U3-DR02A	12/17/2020 9:27	LVWPS-U3-IW07A	95	NA	99.94	20.72	
LVWPS-U3-DR02A	12/17/2020 10:37	LVWPS-U3-IW07A	419	NA	90.22	21.11	
LVWPS-U3-DR02A	12/17/2020 11:17	LVWPS-U3-IW07A	561	NA	91.46	14.18	
LVWPS-U3-DR02A	12/17/2020 11:47	LVWPS-U3-IW07A	653	NA	93.22	21.19	
LVWPS-U3-DR02A	12/17/2020 12:45	LVWPS-U3-IW07A	796	NA	95.41	19.97	
LVWPS-U3-DR02A	12/17/2020 14:42	LVWPS-U3-IW07A	918	NA	93.79	21.24	
LVWPS-U3-DR02A	12/17/2020 15:15	LVWPS-U3-IW07A	1,010	NA	90.26	21.86	
LVWPS-U3-DR02B	12/16/2020 13:51	LVWPS-U3-IW07B	112	NA	79.84	22.65	
LVWPS-U3-DR02B	12/16/2020 14:31	LVWPS-U3-IW07B	306	NA	75.82	17.92	
LVWPS-U3-DR02B	12/16/2020 15:12	LVWPS-U3-IW07B	456	NA	98.39	17.71	
LVWPS-U3-DR02B	12/16/2020 15:42	LVWPS-U3-IW07B	520	NA	99.59	21.20	
LVWPS-U3-DR02B	12/16/2020 16:15	LVWPS-U3-IW07B	664	NA	103.78	19.28	
LVWPS-U3-DR02B	12/17/2020 9:25	LVWPS-U3-IW07B	142	NA	74.19	18.27	
LVWPS-U3-DR02B	12/17/2020 10:40	LVWPS-U3-IW07B	453	NA	70.94	17.55	
LVWPS-U3-DR02B	12/17/2020 11:19	LVWPS-U3-IW07B	592	NA	96.61	14.24	
LVWPS-U3-DR02B	12/17/2020 11:56	LVWPS-U3-IW07B	691	NA	98.30	13.17	
LVWPS-U3-DR02B	12/17/2020 12:49	LVWPS-U3-IW07B	833	NA	92.49	21.97	
LVWPS-U3-DR02B	12/17/2020 14:44	LVWPS-U3-IW07B	942	NA	73.41	21.51	
LVWPS-U3-DR02B	12/17/2020 15:17	LVWPS-U3-IW07B	1,032	NA	63.95	20.81	
LVWPS-U3-DR02C	12/16/2020 13:54	LVWPS-U3-IW07B	109	NA	20.83	23.44	
LVWPS-U3-DR02C	12/16/2020 14:33	LVWPS-U3-IW07C	303	NA	4.09	22.90	
LVWPS-U3-DR02C	12/16/2020 15:15	LVWPS-U3-IW07C	489	NA	2.85	20.76	
LVWPS-U3-DR02C	12/16/2020 15:41	LVWPS-U3-IW07C	559	NA	27.77	21.39	
LVWPS-U3-DR02C	12/16/2020 16:17	LVWPS-U3-IW07C	715	NA	9.68	19.17	

				Field	I Probe Measuremen	its
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ppb	ppb	°C
LVWPS-U3-DR02C	12/17/2020 9:24	LVWPS-U3-IW07C	133	NA	49.54	17.62
LVWPS-U3-DR02C	12/17/2020 10:44	LVWPS-U3-IW07C	447	NA	5.11	21.69
LVWPS-U3-DR02C	12/17/2020 11:22	LVWPS-U3-IW07C	588	NA	21.78	21.26
LVWPS-U3-DR02C	12/17/2020 11:58	LVWPS-U3-IW07C	680	NA	6.02	21.43
LVWPS-U3-DR02C	12/17/2020 12:52	LVWPS-U3-IW07C	820	NA	7.39	21.25
LVWPS-U3-DR02C	12/17/2020 14:46	LVWPS-U3-IW07C	888	NA	65.62	21.64
LVWPS-U3-DR02C	12/17/2020 15:19	LVWPS-U3-IW07C	973	NA	80.22	21.88
LVWPS-A1-DR01	12/13/2020 11:32	-	-	NA	0.00	14.82
LVWPS-A1-DR01	12/13/2020 12:27	-	-	NA	0.00	20.23
LVWPS-A1-DR01	12/13/2020 13:56	-	-	NA	0.00	14.39
LVWPS-A1-DR01	12/14/2020 11:01	-	-	NA	0.00	17.97
LVWPS-A1-DR01	12/14/2020 12:42	-	-	NA	0.00	20.71
LVWPS-A1-DR02	12/13/2020 11:30	-	-	NA	0.00	19.95
LVWPS-A1-DR02	12/13/2020 12:36	-	-	NA	0.00	20.20
LVWPS-A1-DR02	12/13/2020 14:01	-	-	NA	0.00	19.13
LVWPS-A1-DR02	12/14/2020 10:50	-	-	NA	0.00	20.89
LVWPS-U1-DR01A	12/13/2020 11:33	LVWPS-U1-IW02A	59	NA	0.00	16.69
LVWPS-U1-DR01A	12/13/2020 12:00	LVWPS-U1-IW02A	198	NA	0.00	20.89
LVWPS-U1-DR01A	12/13/2020 12:29	LVWPS-U1-IW02A	344	NA	1.07	20.57
LVWPS-U1-DR01A	12/13/2020 13:13	LVWPS-U1-IW02A	499	NA	0.00	20.54
LVWPS-U1-DR01A	12/13/2020 13:57	LVWPS-U1-IW02A	631	NA	3.34	16.23
LVWPS-U1-DR01A	12/13/2020 14:29	LVWPS-U1-IW02A	814	NA	3.79	18.99
LVWPS-U1-DR01A	12/13/2020 14:48	LVWPS-U1-IW02A	931	NA	4.94	15.47
LVWPS-U1-DR01A	12/14/2020 8:11	LVWPS-U1-IW02A	931	NA	0.00	18.43
LVWPS-U1-DR01A	12/14/2020 9:50	LVWPS-U1-IW02A	931	NA	0.00	21.77
LVWPS-U1-DR01A	12/14/2020 11:00	LVWPS-U1-IW02A	79	NA	60.02	20.68

				Field	Probe Measuremen	its
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ppb	ppb	°C
LVWPS-U1-DR01A	12/14/2020 11:36	LVWPS-U1-IW02A	189	NA	16.10	21.29
LVWPS-U1-DR01A	12/14/2020 11:59	LVWPS-U1-IW02A	405	NA	21.26	21.90
LVWPS-U1-DR01A	12/14/2020 12:36	LVWPS-U1-IW02A	425	NA	4.00	21.68
LVWPS-U1-DR01A	12/14/2020 13:15	LVWPS-U1-IW02A	545	NA	30.53	21.29
LVWPS-U1-DR01B	12/13/2020 11:34	LVWPS-U1-IW02B	52	NA	0.00	18.81
LVWPS-U1-DR01B	12/13/2020 12:02	LVWPS-U1-IW02B	187	NA	77.84	19.71
LVWPS-U1-DR01B	12/13/2020 12:32	LVWPS-U1-IW02B	324	NA	90.78	19.63
LVWPS-U1-DR01B	12/13/2020 13:31	LVWPS-U1-IW02B	621	NA	84.44	19.59
LVWPS-U1-DR01B	12/13/2020 15:34	LVWPS-U1-IW02B	994	NA	87.08	19.31
LVWPS-U1-DR01B	12/14/2020 7:17	LVWPS-U1-IW02B	994	NA	62.80	7.39
LVWPS-U1-DR01B	12/14/2020 10:58	LVWPS-U1-IW02B	112	NA	40.39	17.52
LVWPS-U1-DR01B	12/14/2020 11:32	LVWPS-U1-IW02B	279	NA	40.72	21.09
LVWPS-U1-DR01B	12/14/2020 12:00	LVWPS-U1-IW02B	268	NA	38.75	19.45
LVWPS-U1-DR01B	12/14/2020 12:34	LVWPS-U1-IW02B	632	NA	43.71	20.95
LVWPS-U1-DR01B	12/14/2020 13:12	LVWPS-U1-IW02B	601	NA	30.72	20.66
LVWPS-U1-DR02A	12/13/2020 11:40	LVWPS-U1-IW04A	96	NA	0.00	20.43
LVWPS-U1-DR02A	12/13/2020 12:07	LVWPS-U1-IW04A	229	NA	97.00	20.22
LVWPS-U1-DR02A	12/13/2020 12:38	LVWPS-U1-IW04A	364	NA	77.10	21.24
LVWPS-U1-DR02A	12/13/2020 13:19	LVWPS-U1-IW04A	530	NA	86.93	14.80
LVWPS-U1-DR02A	12/13/2020 14:03	LVWPS-U1-IW04A	660	NA	77.80	19.20
LVWPS-U1-DR02A	12/13/2020 14:35	LVWPS-U1-IW04A	855	NA	67.25	20.50
LVWPS-U1-DR02A	12/13/2020 14:54	LVWPS-U1-IW04A	982	NA	55.72	13.91
LVWPS-U1-DR02A	12/14/2020 8:07	LVWPS-U1-IW04A	982	NA	40.32	16.95
LVWPS-U1-DR02A	12/14/2020 10:47	LVWPS-U1-IW04A	109	NA	16.71	21.28
LVWPS-U1-DR02A	12/14/2020 11:19	LVWPS-U1-IW04A	216	NA	48.40	21.49
LVWPS-U1-DR02A	12/14/2020 11:39	LVWPS-U1-IW04A	300	NA	43.49	21.04

				Field	I Probe Measuremer	its
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ppb	ppb	O°
LVWPS-U1-DR02B	12/13/2020 11:42	LVWPS-U1-IW04B	107	NA	0.00	19.55
LVWPS-U1-DR02B	12/13/2020 12:09	LVWPS-U1-IW04B	242	NA	0.00	20.55
LVWPS-U1-DR02B	12/13/2020 12:39	LVWPS-U1-IW04B	388	NA	0.00	21.04
LVWPS-U1-DR02B	12/13/2020 13:17	LVWPS-U1-IW04B	575	NA	0.00	18.08
LVWPS-U1-DR02B	12/13/2020 15:34	LVWPS-U1-IW04B	1,074	NA	0.00	17.75
LVWPS-U1-DR02B	12/14/2020 7:17	LVWPS-U1-IW04B	1,074	NA	2.38	13.30
LVWPS-U1-DR02B	12/14/2020 9:45	LVWPS-U1-IW04B	1,074	NA	0.00	21.80
LVWPS-U1-DR02B	12/14/2020 10:47	LVWPS-U1-IW04B	51	NA	0.00	21.27
LVWPS-U1-DR02B	12/14/2020 11:22	LVWPS-U1-IW04B	281	NA	0.00	21.33
LVWPS-U1-DR02B	12/14/2020 11:43	LVWPS-U1-IW04B	397	NA	0.00	21.67
LVWPS-A2-DR01A	12/20/2020 9:31	-	-	NA	0.00	18.17
LVWPS-A2-DR01A	12/20/2020 10:07	-	-	NA	0.00	13.04
LVWPS-A2-DR01A	12/20/2020 11:10	-	-	NA	0.00	21.51
LVWPS-A2-DR01A	12/20/2020 12:17	-	-	NA	0.00	22.49
LVWPS-A2-DR01A	12/20/2020 13:22	-	-	NA	0.00	21.68
LVWPS-A2-DR01A	12/20/2020 14:33	-	-	NA	0.00	20.78
LVWPS-A2-DR01A	12/21/2020 8:13	-	-	NA	1.19	14.46
LVWPS-A2-DR01A	12/21/2020 9:09	-	-	NA	0.00	18.38
LVWPS-A2-DR01A	12/21/2020 10:05	-	-	NA	0.00	21.17
LVWPS-A2-DR01A	12/21/2020 11:09	-	-	NA	0.00	25.68
LVWPS-A2-DR01A	12/21/2020 12:05	-	-	NA	0.00	25.38
LVWPS-A2-DR01A	12/21/2020 13:12	-	-	NA	1.32	24.27
LVWPS-A2-DR01A	12/21/2020 14:06	-	-	NA	1.12	26.67
LVWPS-A2-DR01B	12/20/2020 9:33	-	-	NA	94.58	19.21
LVWPS-A2-DR01B	12/20/2020 10:09	-	-	NA	71.32	19.19
LVWPS-A2-DR01B	12/20/2020 11:12	-	-	NA	68.48	20.42

				Field	I Probe Measuremen	its
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ррb	ррb	٥°
LVWPS-A2-DR01B	12/20/2020 12:15	-	-	NA	92.67	22.92
LVWPS-A2-DR01B	12/20/2020 13:21	-	-	NA	87.07	18.05
LVWPS-A2-DR01B	12/20/2020 14:35	-	-	NA	84.57	21.65
LVWPS-A2-DR01B	12/21/2020 8:11	-	-	NA	91.04	10.23
LVWPS-A2-DR01B	12/21/2020 8:11	-	-	NA	98.19	11.37
LVWPS-A2-DR01B	12/21/2020 10:10	-	-	NA	112.85	19.77
LVWPS-A2-DR01B	12/21/2020 11:05	-	-	NA	117.61	24.18
LVWPS-A2-DR01B	12/21/2020 12:05	-	-	NA	85.02	24.27
LVWPS-A2-DR01B	12/21/2020 13:14	-	-	NA	97.83	23.54
LVWPS-A2-DR01B	12/21/2020 14:08	-	-	NA	90.09	NM
LVWPS-A2-DR02A	12/20/2020 8:53	-	-	NA	0.00	18.25
LVWPS-A2-DR02A	12/20/2020 10:21	-	-	NA	0.00	20.39
LVWPS-A2-DR02A	12/20/2020 11:25	-	-	NA	0.00	21.29
LVWPS-A2-DR02A	12/20/2020 12:28	-	-	NA	0.00	23.45
LVWPS-A2-DR02A	12/20/2020 13:54	-	-	NA	0.00	22.66
LVWPS-A2-DR02A	12/20/2020 14:54	-	-	NA	0.00	18.72
LVWPS-A2-DR02A	12/21/2020 8:28	-	-	NA	0.00	17.87
LVWPS-A2-DR02A	12/21/2020 9:19	-	-	NA	0.00	19.47
LVWPS-A2-DR02A	12/21/2020 10:30	-	-	NA	0.00	23.13
LVWPS-A2-DR02A	12/21/2020 11:15	-	-	NA	0.00	23.70
LVWPS-A2-DR02A	12/21/2020 12:15	-	-	NA	0.00	23.51
LVWPS-A2-DR02A	12/21/2020 13:12	-	-	NA	0.00	24.00
LVWPS-A2-DR02A	12/21/2020 14:26	-	-	NA	0.00	23.96
LVWPS-A2-DR02B	12/20/2020 8:51	-	-	NA	93.12	18.05
LVWPS-A2-DR02B	12/20/2020 10:15	-	-	NA	93.78	19.81
LVWPS-A2-DR02B	12/20/2020 11:24	-	-	NA	84.85	21.87

				Field	Probe Measuremen	its
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	Totalizer Reading for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ppb	ppb	°C
LVWPS-A2-DR02B	12/20/2020 12:30	-	-	NA	91.48	22.98
LVWPS-A2-DR02B	12/20/2020 13:52	-	-	NA	76.84	22.75
LVWPS-A2-DR02B	12/20/2020 14:52	-	-	NA	87.52	17.46
LVWPS-A2-DR02B	12/21/2020 8:26	-	-	NA	79.64	17.33
LVWPS-A2-DR02B	12/21/2020 9:21	-	-	NA	109.31	17.79
LVWPS-A2-DR02B	12/21/2020 10:18	-	-	NA	104.29	22.40
LVWPS-A2-DR02B	12/21/2020 11:12	-	-	NA	98.38	24.54
LVWPS-A2-DR02B	12/21/2020 12:17	-	-	NA	84.31	24.31
LVWPS-A2-DR02B	12/21/2020 13:15	-	-	NA	90.95	24.03
LVWPS-A2-DR02B	12/21/2020 14:28	-	-	NA	85.30	24.00
LVWPS-U2-DR01	12/20/2020 9:29	LVWPS-U2-IW01	96	NA	0.00	19.47
LVWPS-U2-DR01	12/20/2020 10:11	LVWPS-U2-IW01	260	NA	0.00	20.43
LVWPS-U2-DR01	12/20/2020 11:00	LVWPS-U2-IW01	390	NA	0.00	22.29
LVWPS-U2-DR01	12/20/2020 12:13	LVWPS-U2-IW01	500	NA	1.48	24.07
LVWPS-U2-DR01	12/20/2020 13:18	LVWPS-U2-IW01	603	NA	2.44	24.24
LVWPS-U2-DR01	12/20/2020 14:44	LVWPS-U2-IW01	730	NA	0.00	22.01
LVWPS-U2-DR01	12/21/2020 8:09	LVWPS-U2-IW01	36	NA	0.00	15.29
LVWPS-U2-DR01	12/21/2020 9:14	LVWPS-U2-IW01	171	NA	1.35	18.97
LVWPS-U2-DR01	12/21/2020 10:09	LVWPS-U2-IW01	292	NA	1.50	20.50
LVWPS-U2-DR01	12/21/2020 11:13	LVWPS-U2-IW01	417	NA	1.17	23.64
LVWPS-U2-DR01	12/21/2020 12:04	LVWPS-U2-IW01	522	NA	1.13	24.76
LVWPS-U2-DR01	12/21/2020 13:15	LVWPS-U2-IW01	671	NA	0.92	23.92
LVWPS-U2-DR01	12/21/2020 14:11	LVWPS-U2-IW01	783	NA	0.96	25.00
LVWPS-U2-DR02	12/20/2020 8:49	LVWPS-U2-IW04	81	NA	0.00	18.07
LVWPS-U2-DR02	12/20/2020 10:17	LVWPS-U2-IW04	467	NA	109.04	19.36
LVWPS-U2-DR02	12/20/2020 11:25	LVWPS-U2-IW04	599	NA	79.43	21.29

# Table 12Groundwater Dye Field MeaurementsLas Vegas Wash Bioremediation Pilot Study

				Field	Probe Measuremer	nts
Dose Response Well ID	Sample Date and Time	Upgradient Injection Well	for Injection Well at Sample Time	Rhodamine WT Concentration	Fluorescein Concentration	Sample Temperature
			gallons	ppb	ppb	°C
LVWPS-U2-DR02	12/20/2020 12:26	LVWPS-U2-IW04	738	NA	76.28	22.54
LVWPS-U2-DR02	12/20/2020 13:51	LVWPS-U2-IW04	870	NA	83.43	21.07
LVWPS-U2-DR02	12/20/2020 14:49	LVWPS-U2-IW04	1,041	NA	96.85	20.61
LVWPS-U2-DR02	12/21/2020 8:25	LVWPS-U2-IW04	121	NA	60.83	16.88
LVWPS-U2-DR02	12/21/2020 9:23	LVWPS-U2-IW04	288	NA	44.96	19.03
LVWPS-U2-DR02	12/21/2020 10:17	LVWPS-U2-IW04	405	NA	32.93	21.70
LVWPS-U2-DR02	12/21/2020 11:13	LVWPS-U2-IW04	525	NA	33.80	22.50
LVWPS-U2-DR02	12/21/2020 12:18	LVWPS-U2-IW04	650	NA	73.87	23.37
LVWPS-U2-DR02	12/21/2020 13:17	LVWPS-U2-IW04	770	NA	40.96	23.84
LVWPS-U2-DR02	12/21/2020 14:30	LVWPS-U2-IW04	829	NA	23.60	22.84

Notes:

nm - nanometers

ppb - parts per billion

		Donth		Lob Comple		Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			Sulforhodar	nine B (SRB)	j
Location	Sample Date	(ft bas)	Sample ID	Lab Sample	Cha	rcoal	Grour	ndwater	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
		(11.593)			nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	9/28/2020	72.5	LVWPS-A1-DR01-BL04	E7750			ND	ND			ND	ND							 ND	 ND
LVWPS-A1-DR01	12/13/2020	72.5	LVWPS-A1-DR01-20201213-1	E9443 F9423				ND			ND	ND			ND	ND			ND	
	12/29/2020	72.5	LVWPS-A1-DR01-INJ	E9922			ND	ND			ND	ND			ND	ND			ND	ND
	9/28/2020	67.8	LVWPS-A1-DR02-BL04	E7747			ND	ND			ND	ND								
	12/13/2020	67.8	LVWPS-A1-DR02-20201213-1	E9446			ND	ND			ND	ND			ND	ND			ND	ND
	12/14/2020	67.8	LVWPS-A1-DR02-20201214	E9413			ND	ND			ND	ND			ND	ND			ND	ND
	12/29/2020	67.8	LVWPS-A1-DR02-INJ	E9928			ND	ND			ND	ND			ND	ND			ND	ND
	9/30/2020	79.2		E//8/			ND	ND			ND	ND						 ND		
LVVII 3-A1-101004	12/29/2020	79.2	LVWPS-A1-MW04-INJ	E9002 F9916	ND	ND	 ND	ND	502.2	23.0	ND	ND		ND	 ND	ND		ND	ND	ND
	9/30/2020	78.9	LVWPS-A1-MW05-BL04	E7779			ND	ND			ND	ND								
LVWPS-A1-MW05	12/29/2020	78.9	LVWPS-A1-MW05-INJ	E9685	ND	ND			562.3 **	39.7			ND	ND			ND	ND		
	12/29/2020	78.9	LVWPS-A1-MW05-INJ	E9917			ND	ND			ND	ND			ND	ND			ND	ND
	9/29/2020	69.1	LVWPS-A1-MW06-BL04	E7770			ND	ND			ND	ND								
LVWPS-A1-MW06	12/28/2020	69.1	LVWPS-A1-MW06-INJ	E9675	ND	ND			563.2 **	44.5			ND	ND			ND	ND		
	12/28/2020	69.1		E9912			ND	ND			ND	ND			ND	ND			ND	ND
I VWPS-A1-MW07	12/29/2020	68.1	I VWPS-A1-MW07-INJ	E7637 E9691	ND	ND				32.3			ND	ND			ND	ND		
	12/29/2020	68.1	LVWPS-A1-MW07-INJ	E9931			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A1-MW09	9/30/2020	95.5	LVWPS-A1-MW09-BL04	E7775			ND	ND			ND	ND								
I.V/WPS-A1-MW/10	10/1/2020	80.5	LVWPS-A1-MW10-BL04	E7795			ND	ND			ND	ND								
	10/1/2020	80.5	LVWPS-A1-MW10-BL04-FD	E7796			ND	ND			ND	ND								ļ
	9/28/2020	53.7	LVWPS-A2-DR01A-BL04	E7754			ND	ND			ND	ND 00.4								
	12/7/2020	53.7	LVWPS-A2-DR01A-20201207	E9381				ND			565.9	28.4								
I VWPS-A2-DR01A	12/9/2020	53.7	LVWPS-A2-DR01A-20201208	E9307			ND	ND			569.0	5 920				ND			ND	
LVWPS-A2-DR01A	12/12/2020	53.7	LVWPS-A2-DR01A-INJ	E9470			ND	ND			566.5	104			ND	ND			ND	ND
	12/20/2020	53.7	LVWPS-A2-DR01A-20201220	E9872			ND	ND			574.1	11.6			ND	ND			ND	ND
	12/21/2020	53.7	LVWPS-A2-DR01A-20201221	E9890			ND	ND			574.1	9.77			ND	ND			ND	ND
	9/28/2020	94.5	LVWPS-A2-DR01B-BL04	E7755			ND	ND			ND	ND								l
	12/7/2020	94.5	LVWPS-A2-DR01B-20201207	E9382			ND	ND			566.8	32.5			ND	ND			ND	ND
	12/8/2020	94.5	LVWPS-A2-DR01B-20201208	E9388			ND	ND			566.2	22.2			ND ND	ND			ND	
	12/9/2020	94.5 04.5	LVWPS-A2-DR01B-20201209	E9397							566.2 **	370								
	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-1	E9873			ND	ND			568.0 **	115			ND	ND			ND	ND
LVWPS-A2-DR01B	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-2	E9874			ND	ND			567.1 **	168			ND	ND			ND	ND
	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-3	E9875			ND	ND			567.0 **	223			ND	ND			ND	ND
	12/20/2020	94.5	LVWPS-A2-DR01B-20201220-4	E9876			ND	ND			567.0 **	272			ND	ND			ND	ND
	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-1	E9891			ND	ND			567.2 **	146			ND	ND			ND	ND
	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-2	E9892			ND	ND			567.0 **	381			ND	ND			ND	
	12/21/2020	94.5	LVWPS-A2-DR01B-20201221-3	E9093							567.6 **	107								
	9/28/2020	43.9	LVWPS-A2-DR02A-BL04	E7758			ND	ND			ND	ND								
	12/7/2020	43.9	LVWPS-A2-DR02A-20201207	E9384			ND	ND			566.1	326			ND	ND			ND	ND
	12/8/2020	43.9	LVWPS-A2-DR02A-20201208	E9390			ND	ND			566.2	13.5			ND	ND			ND	ND
LVWPS-A2-DR02A	12/9/2020	43.9	LVWPS-A2-DR02A-20201209	E9399			ND	ND			567.0	189			ND	ND			ND	ND
-	12/9/2020	43.9	LVWPS-A2-DR02A-20201209	E9399 Rep			ND	ND			567.0	216			ND	ND			ND	ND
	12/12/2020	43.9		E9468				ND			507.1	12.1								
	12/20/2020	43.9	LVWPS-A2-DR02A-20201220	E9899			ND	ND			ND	ND			ND	ND			ND	ND
	9/28/2020	67.7	LVWPS-A2-DR02B-BL04	E7757			ND	ND			ND	ND								
	12/7/2020	67.7	LVWPS-A2-DR02B-20201207	E9385			506.0	0.022			573.4	0.244			ND	ND			ND	ND
	12/8/2020	67.7	LVWPS-A2-DR02B-20201208	E9391			ND	ND			566.2	115			ND	ND			ND	ND
	12/9/2020	67.7	LVWPS-A2-DR02B-20201209	E9401			ND	ND			566.9	98.0			ND	ND			ND	ND
	12/12/2020	67.7	LVWPS-A2-DR02B-INJ	E9469			ND	ND 00.1			566.6	250			ND ND	ND			ND	ND
	12/20/2020	67.7	LVWPS-A2-DR02B-20201220-1	E9883			515.1 **	28.1			567.0 **	275				ND			ND	ND
LVVVF3-AZ-DKUZB	12/20/2020	67.7	LVWPS-A2-DR02B-20201220-2	E9004 E0885			515.6 **	35.6			566 1 **	240 71.0								
	12/20/2020	67.7	LVWPS-A2-DR02B-20201220-3	E9886			515.3 **	28.8			566.9 **	258			ND	ND			ND	ND
	12/21/2020	67.7	LVWPS-A2-DR02B-20201221-1	E9901			516.1 **	37.2			566.2 **	134			ND	ND			ND	ND
	12/21/2020	67.7	LVWPS-A2-DR02B-20201221-2	E9902			515.9 **	58.9			566.5 **	204			ND	ND			ND	ND
	12/21/2020	67.7	LVWPS-A2-DR02B-20201221-3	E9903			515.5 **	46.5			565.4 **	25.7			ND	ND			ND	ND
	12/21/2020	67.7	LVWPS-A2-DR02B-20201221-4	E9904			515.5 **	45.7			566.5 **	48.0			ND	ND			ND	ND

		Denth				Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			Sulforhodar	nine B (SRB)	)
Location	Sample Date	(ft bas)	Sample ID		Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Char	coal	Groun	dwater
		(11 by3)			nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	10/8/2020	49.8	LVWPS-A2-MW01A-BL04	E8231			ND	ND			ND	ND								
LVVVPS-AZ-IVIVV01A	12/12/2020	49.8	LVWPS-A2-MW01A-INJ	E9312	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	49.8		E9097	ND	ND		 ND	ND	ND	 ND	 ND	ND	ND			ND	ND		
	12/15/2020	79.7	LVWPS-A2-MW01B-INJ	E0232			ND	ND			573.6	0.135			ND	ND			ND	ND
LVWPS-A2-MW01B	3 12/23/2020	79.7	I VWPS-A2-MW01B-FM01	E9733	ND	ND			ND	ND			ND	ND			ND	ND		
	10/8/2020	49.8	LVWPS-A2-MW02A-BL04	E8225			ND	ND			ND	ND								
	10/8/2020	49.8	LVWPS-A2-MW02A-BL04-FD	E8226			ND	ND			ND	ND								
LVVVPS-AZ-IVIVVUZA	12/12/2020	49.8	LVWPS-A2-MW02A-INJ	E9313	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	49.8	LVWPS-A2-MW02A-EM01	E9748	ND	ND			ND	ND			ND	ND			ND	ND		
	10/8/2020	79.9	LVWPS-A2-MW02B-BL04	E8228			ND	ND			ND	ND								
LVWPS-A2-MW02B	3 12/12/2020	79.9	LVWPS-A2-MW02B-INJ	E9314	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	79.9	LVWPS-A2-MW02B-EM01	E9749	ND	ND			ND	ND			ND	ND			ND	ND		
	10/9/2020	47.9	LVWPS-A2-MW03A-BL04	E8235			ND	ND			ND	ND								
LVWPS-A2-MW03A	10/9/2020	47.9	LVWPS-A2-MW03A-BL04-FD	E8236			ND	ND			ND	ND								
	12/12/2020	47.9		E9315	ND	ND			562.0 ***	2.40			ND	ND			ND	ND		
	12/23/2020	47.9		E9740	ND	ND		 ND	ND	ND	 ND	 ND	ND	ND			ND	ND		
I VWPS-A2-MW03B	12/12/2020	73.8	LVWPS-A2-MW03B-BL04	E0237	ND	ND		ND			ND			ND			ND	 ND		
	12/23/2020	73.8	LVWPS-A2-MW03B-FM01	E9747	ND	ND			ND	ND			ND	ND			ND	ND		
	10/2/2020	53.7	LVWPS-A2-MW04A-BL04	E7814			ND	ND			ND	ND								
	12/14/2020	53.7	LVWPS-A2-MW04A-INJ	E9345	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW04A	12/14/2020	53.7	LVWPS-A2-MW04A-INJ-FD	E9346	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	53.7	LVWPS-A2-MW04A-EM01	E9743	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	53.7	LVWPS-A2-MW04A-EM01-FD	E9744	ND	ND			ND	ND			ND	ND			ND	ND		
	10/2/2020	84.9	LVWPS-A2-MW04B-BL04	E7838			ND	ND			ND	ND								
I VWPS-A2-MW04B	12/14/2020	84.9	LVWPS-A2-MW04B-INJ	E9347	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	84.9	LVWPS-A2-MW04B-EM01	E9745	515.6	1.00			ND	ND			539.6	4.39			ND	ND		
	12/22/2020	84.9	LVWPS-A2-MW04B-EM01	E9958			ND	ND			ND	ND			ND	ND			ND	ND
	10/5/2020	43.9	LVWPS-A2-MW05A-BL04	E7816			ND	ND			ND	ND								
	12/12/2020	43.9	LVWPS-A2-MW05A-INJ	E9317	ND	ND			566.8	16,000			ND	ND			ND	ND		
LVVVPS-AZ-IVIVV05A	12/12/2020	43.9		E9401				ND	569.4	5 110	007.3	157		 ND	ND	ND	 ND		ND	ND
	12/22/2020	43.9	LVWPS-A2-MW05A-EM01	E9741 E9956	ND		ND	ND	506.4	5,110	574.9	43.2		ND	ND	ND		ND	ND	ND
	10/5/2020	66	LVWPS-A2-MW05B-BL04	E3300			ND	ND			ND	ND								
	12/12/2020	66	LVWPS-A2-MW05B-INJ	E9318	ND	ND			566.6	3,900			ND	ND			ND	ND		
	12/12/2020	66	LVWPS-A2-MW05B-INJ	E9462			ND	ND			566.7	271			ND	ND			ND	ND
	12/12/2020	66	LVWPS-A2-MW05B-INJ-FD	E9319	ND	ND			566.4	3,430			ND	ND			ND	ND		
LVWPS-A2-MW05B	3 12/12/2020	66	LVWPS-A2-MW05B-INJ-FD	E9463			ND	ND			566.7	271			ND	ND			ND	ND
	12/22/2020	66	LVWPS-A2-MW05B-EM01	E9742	ND	ND			567.0	13,800			ND	ND			ND	ND		
	12/22/2020	66	LVWPS-A2-MW05B-EM01	E9957			ND	ND			566.6 **	98.3			ND	ND			ND	ND
	12/22/2020	66	LVWPS-A2-MW05B-EM01-FD	E9781	ND	ND			566.9	17,200			ND	ND			ND	ND		
	12/22/2020	66	LVWPS-A2-MW05B-EM01-FD	E9974			ND	ND			566.8 **	59.9			ND	ND			ND	ND
	9/30/2020	47.6		E//86			ND	ND		 ND	ND	ND .								
LVWPS-A2-MW08A	12/14/2020	41.0		E9333					ND 565.0	5 00			ND 530.4	3.40						
	12/23/2020	47.6		F0192						5.00	ND			5.49	ND	 ND			 ND	
	10/1/2020	69.3	LVWPS-A2-MW08B-BL04	F7789			ND	ND			ND	ND								
	12/14/2020	69.3	LVWPS-A2-MW08B-INJ	E9334	ND	ND			566.9	31.6			ND	ND			ND	ND		
LVWPS-A2-MW08B	3 12/14/2020	69.3	LVWPS-A2-MW08B-INJ	E9475			ND	ND			574.2	0.305			ND	ND			ND	ND
	12/23/2020	69.3	LVWPS-A2-MW08B-EM01	E9736	ND	ND			568.0	56.7			ND	ND			ND	ND		
	12/23/2020	69.3	LVWPS-A2-MW08B-EM01	E9955			ND	ND			576.7	0.089			ND	ND			ND	ND
	10/1/2020	95.9	LVWPS-A2-MW08C-BL04	E7790			ND	ND			ND	ND								
	12/14/2020	95.9	LVWPS-A2-MW08C-INJ	E9335	ND	ND			567.5	648			ND	ND			ND	ND		
LVWPS-A2-MW08C	2 12/14/2020	95.9	LVWPS-A2-MW08C-INJ	E9476			ND	ND			574.4	0.640			ND	ND			ND	ND
	12/23/2020	95.9	LVWPS-A2-MW08C-EM01	E9735	516.1	377			568.3	287			ND	ND			ND	ND		
	12/23/2020	95.9	LVWPS-A2-MW08C-EM01	E9954			515.2 **	4.82			ND	ND			ND	ND			ND	ND
	10/9/2020	44.5		E8242			ND	ND			ND	ND	 F20.4	45.0						
I V/W/PS-02.M/M/00A	12/12/2020	44.5 // 5		E9321	IND	ND			0.000	109	573.9	0.642	539.4	10.2			UND	ND		
	12/12/2020	44.5	I VWPS-A2-MW/09A-FM01	F9727	ND	ND			567 0	695		0.045	ND	ND			 ND	 ND		
	12/22/2020	44.5	LVWPS-A2-MW09A-FM01	E9952			ND	ND			573.8	13.2			ND	ND			ND	ND
	,,2020	1				I			1	1	1 0.0.0	10.2	1	1						

		D II.				Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			Sulforhoda	nine B (SRB	)
Location	Sample Date	Depth (ft bgo)	Sample ID	Lab Sample	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Grour	dwater	Cha	rcoal	Groun	dwater
		(it bys)		U	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	10/9/2020	68.5	LVWPS-A2-MW09B-BL04	E8243			ND	ND			ND	ND								
	12/12/2020	68.5	LVWPS-A2-MW09B-INJ	E9322	ND	ND			563.6 **	10.6			ND	ND			ND	ND		
LVVVPS-AZ-IVIVVU9E	12/12/2020	68.5	LVWPS-A2-MW09B-INJ	E9465	 ND		ND	ND			575.9	0.243			ND	ND	 ND		ND	ND
	12/22/2020	68.5	LVWPS-A2-WW09B-EM01	E9720	ND	110	ND	ND	504.0	0.02		ND	556.9	0.99	ND				ND	ND
	10/2/2020	50.2	LVWPS-A2-MW11A-BL04	E7811			ND	ND			ND	ND								
LVWPS-A2-MW11A	12/14/2020	50.2	LVWPS-A2-MW11A-INJ	E9336	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	50.2	LVWPS-A2-MW11A-EM01	E9730	ND	ND			ND	ND			ND	ND			ND	ND		
I.\/W/PS_A2_MW/11F	10/2/2020	75	LVWPS-A2-MW11B-BL04	E7812			ND	ND			ND	ND								
	12/14/2020	75	LVWPS-A2-MW11B-INJ	E9337	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A2-MW11E	3 12/23/2020	75	LVWPS-A2-MW11B-EM01	E9731	ND	ND			ND	ND			ND	ND			ND	ND		
	10/2/2020	99.9	LVWPS-A2-MW11C-BL04	E7813			ND	ND			ND	ND								
LVWPS-A2-WW11C	12/14/2020	99.9	LVWPS-A2-MW11C-INJ	E9338	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	99.9 30.5		E9732				ND	ND	ND		 ND	ND	ND			ND	ND		
I VWPS-A2-MW12A	12/12/2020	39.5	LVWPS-A2-MW12A-DL04	E0193	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	39.5	LVWPS-A2-MW12A-EM01	E9725	ND	ND			ND	ND			539.4	2.84			ND	ND		
	10/7/2020	59	LVWPS-A2-MW12B-BL04	E8209			ND	ND			ND	ND								
	12/12/2020	59	LVWPS-A2-MW12B-INJ	E9332	ND	ND			ND	ND			ND	ND			ND	ND		
LVVVF3-AZ-IVIVV12D	12/22/2020	59	LVWPS-A2-MW12B-EM01	E9726	ND	ND			567.6	205			539.8	5.04			ND	ND		
	12/22/2020	59	LVWPS-A2-MW12B-EM01	E9951			ND	ND			566.9 **	8.14			ND	ND			ND	ND
	10/1/2020	50.8	LVWPS-A2-MW13A-BL04	E7802			ND	ND			ND	ND								
LVWPS-A2-MW13A	12/12/2020	50.8	LVWPS-A2-MW13A-INJ	E9323	ND	ND			ND	ND			ND	ND 16.0			ND	ND		
	12/22/2020	50.8 76.1	LVWPS-A2-WW13A-EW01	E9723	ND	ND	 ND		ND	ND	 ND	 ND	538.9 ***	16.9			ND	ND		
	12/12/2020	76.1	I VWPS-A2-MW13B-IN.I	E7803	ND	ND			565.7	31.9			538.9 **	12.1			ND	ND		
LVWPS-A2-MW13E	3 12/12/2020	76.1	LVWPS-A2-MW13B-INJ	E9466			ND	ND			ND	ND			ND	ND			ND	ND
	12/22/2020	76.1	LVWPS-A2-MW13B-EM01	E9724	ND	ND			568.0	906			ND	ND			ND	ND		
	12/22/2020	76.1	LVWPS-A2-MW13B-EM01	E9950			ND	ND			572.8	14.9			ND	ND			ND	ND
	10/6/2020	42.9	LVWPS-A2-MW14A-BL04	E8196			ND	ND			ND	ND								
	10/6/2020	42.9	LVWPS-A2-MW14A-BL04-FD	E8197			ND	ND			ND	ND								
	12/12/2020	42.9	LVWPS-A2-MW14A-INJ	E9328	ND	ND			564.0 **	13.9			538.7 **	14.4			ND	ND		
	12/12/2020	42.9	LVWPS-A2-MW14A-INJ	E9472			ND	ND			574.4	1.26			ND	ND	 ND		ND	ND
LVWPS-A2-MW14A	12/12/2020	42.9		E9329	ND	ND		ND	0.00C	11.0	574.2	1.95	536.7	16.0	 ND		ND	ND	 ND	
	12/12/2020	42.9	LVWPS-A2-MW14A-INJ-PD	E9473	ND	 ND		110	566.6	38.6	574.2	1.05	539.4	15.2	110		ND	ND		
	12/22/2020	42.9	LVWPS-A2-MW14A-EM01	E9947			ND	ND			573.6	1.44			ND	ND			ND	ND
	12/22/2020	42.9	LVWPS-A2-MW14A-EM01-FD	E9715	ND	ND			566.4	50.8			539.4	16.6			ND	ND		
	12/22/2020	42.9	LVWPS-A2-MW14A-EM01-FD	E9948			ND	ND			572.6	3.35			ND	ND			ND	ND
	10/6/2020	64.5	LVWPS-A2-MW14B-BL04	E8198			ND	ND			ND	ND								
	12/12/2020	64.5	LVWPS-A2-MW14B-INJ	E9330	ND	ND			564.0 **	5.37			ND	ND			ND	ND		
LVWPS-A2-MW14E	3 12/12/2020	64.5	LVWPS-A2-MW14B-INJ	E9474			ND	ND			573.4	0.222			ND	ND			ND	ND
	12/22/2020	64.5	LVWPS-A2-MW14B-EM01	E9695	ND	ND			567.8	29.6	 574.6		540.1	1.61			ND	ND		
	10/7/2020	04.5 49.5	LVWPS-A2-WW14B-EW01	E9933				ND			574.0 ND	1.34 ND			ND				ND	
LVWPS-A2-MW15A	12/14/2020	49.5	I VWPS-A2-MW15A-INJ	E9339	ND	ND			ND	ND			ND	ND			ND	ND		
	12/21/2020	49.5	LVWPS-A2-MW15A-EM01	E9721	ND	ND			ND	ND			ND	ND			ND	ND		
	10/8/2020	79.9	LVWPS-A2-MW15B-BL04	E8249			ND	ND			ND	ND								
LVWPS-A2-MW15E	3 12/14/2020	79.9	LVWPS-A2-MW15B-INJ	E9341	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	79.9	LVWPS-A2-MW15B-EM01	E9722	ND	ND			ND	ND			ND	ND			ND	ND		
	10/9/2020	46	LVWPS-A2-MW16A-BL04	E8245			ND	ND			ND	ND								
LVWPS-A2-MW16A	12/14/2020	46	LVWPS-A2-MW16A-INJ	E9348	ND 544.0	ND 1.02			ND	ND			ND	ND			ND	ND		
	12/22/2020	46	LVWPS-A2-MW16A-EM01	E9707	514.2	1.83			ND	ND			ND	ND			ND	ND		
	10/0/2020	40 70 5		E9943 E8246																
LVWPS-A2-MW16F	12/14/2020	70.5	LVWPS-A2-MW16B-IN.I	F9349	ND	ND			ND	ND			ND	ND			ND	ND		
	12/22/2020	70.5	LVWPS-A2-MW16B-EM01	E9708	ND	ND			ND	ND			ND	ND			ND	ND		
	10/1/2020	50.1	LVWPS-A2-MW17A-BL04	E7797			ND	ND			ND	ND								
	12/14/2020	50.1	LVWPS-A2-MW17A-INJ	E9342	ND	ND			ND	ND			539.0 **	10.4			ND	ND		
LVVVF J-AZ-IVIVV ITA	12/22/2020	50.1	LVWPS-A2-MW17A-EM01	E9711	ND	ND			564.0 **	2.94			539.4	2.77			ND	ND		
	12/22/2020	50.1	LVWPS-A2-MW17A-EM01	F0190			ND	ND			ND	ND			ND	ND			ND	ND
	10/1/2020	75.2	LVWPS-A2-MW17B-BL04	E7798			ND	ND			ND	ND								
LVWPS-A2-MW17E	12/14/2020	75.2	LVWPS-A2-MW17B-INJ	E9343	ND	ND			ND	ND			ND	ND 4.40			ND	ND		
	12/22/2020	75.2		E9/12	ND	ND .	 NID	 NID	567.2	15.1	 ND	 ND	540.0	1.40	 ND	 ND	ND	ND	 ND	
L	12/22/2020	10.2	LVVVF3-AZ-IVIVVI/D-EIVIU1	E9940			UND				UND								UVI	UN

						Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			Sulforhodar	nine B (SRB)	
Location	Sample Date	(ft bos)	Sample ID	Lab Sample	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	dwater
		(it bys)		U	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	10/1/2020	100	LVWPS-A2-MW17C-BL04	E7799			ND	ND			ND	ND								
LVWPS-A2-MW17C	12/14/2020	100	LVWPS-A2-WW17C-INJ	E9344 E9713					ND 567.9	300			ND							
	12/22/2020	100	LVWPS-A2-MW17C-EM01	E9946			ND	ND			573.6	23.2			ND	ND			ND	ND
	9/28/2020	65.5	LVWPS-A3-DR01-BL04	E7759			ND	ND			ND	ND								
	12/16/2020	65.5	LVWPS-A3-DR01-20201216	E9829			ND	ND			ND	ND			ND	ND			ND	ND
LVWF3-A3-DRUT	12/17/2020	65.5	LVWPS-A3-DR01-20201217	E9844			ND	ND			ND	ND			ND	ND			ND	ND
	12/29/2020	65.5	LVWPS-A3-DR01-INJ	E9918			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-A3-MW02	10/5/2020	62.5	LVWPS-A3-MW02-BL04	E7839			ND	ND			ND	ND								
	12/30/2020	64.0		E9759 E7826	ND	ND	 ND	 ND	ND	ND	 ND	 ND	ND	ND			ND	ND		
LVWPS-A3-MW06	12/30/2020	64.9	I VWPS-A3-MW06-INJ	E9753	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW07	10/8/2020	64.5	LVWPS-A3-MW07-BL04	E8229			ND	ND			ND	ND								
LVWPS-A3-MW07	12/30/2020	64.5	LVWPS-A3-MW07-INJ	E9764	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW08	10/8/2020	94.4	LVWPS-A3-MW08-BL04	E8233			ND	ND			ND	ND								
	12/30/2020	94.4	LVWPS-A3-MW08-INJ	E9767	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-A3-MW10	10/5/2020	66.1	LVWPS-A3-MW10-BL04	E7828			ND	ND			ND	ND								
LVWPS-A3-MW11	10/7/2020	63.7	LVWPS-A3-MW11-BL04	E8214			ND	ND			ND	ND								
	0/20/2020	64.4		E7766								ND								
	9/29/2020	42.8	I VWPS-FW02-RI 04	E7767							ND									
LVWPS-EW02	9/30/2020	54.8	I VWPS-EW03-BL04	E7768			ND	ND			ND	ND								
LVWPS-EW04	9/30/2020	35.7	LVWPS-EW04-BL04	E7769			ND	ND			ND	ND								
	9/29/2020	64.9	LVWPS-EW05-BL04	E7764			ND	ND			ND	ND								
LVWP3-EW03	9/29/2020	64.9	LVWPS-EW05-BL04-FD	E7765			ND	ND			ND	ND								
LVWPS-MW204	9/28/2020	60	LVWPS-MW204-BL04	E7761			ND	ND			ND	ND								
	9/28/2020	60	LVWPS-MW204-BL04-FD	E7762			ND	ND			ND	ND								
LVWPS-MW204B	9/28/2020	111.2	LVWPS-MW204B-BL04	E7763			ND	ND			ND	ND								
	9/28/2020	77.0		E7734			ND	ND			ND	ND								
	12/22/2020	77.8	LVWPS-MW207-EM01	E9090	514.5	1.72			302.3		 ND		ND	ND	 ND		ND	ND		 ND
	10/9/2020	49.6	LVWPS-MW208A-BL04	E8239			ND	ND			ND	ND								
LVWPS-MW208A	12/12/2020	49.6	LVWPS-MW208A-INJ	E9325	ND	ND			ND	ND			ND	ND			ND	ND		
	12/23/2020	49.6	LVWPS-MW208A-EM01	E9698	ND	ND			ND	ND			539.5	0.792			ND	ND		
	10/9/2020	75	LVWPS-MW208B-BL04	E8241			ND	ND			ND	ND								
LVWPS-MW208B	12/12/2020	75	LVWPS-MW208B-INJ	E9326	ND	ND			ND	ND			538.5 **	0.641			ND	ND		
	12/23/2020	75	LVWPS-MW208B-EM01	E9699	ND	ND			567.6	139			539.7	10.7			ND	ND		
	12/23/2020	75	LVWPS-MW208B-EM01	E9935			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-MW209	10/6/2020	80.7		E8203			ND	ND	 ND	 ND	ND	ND								
	10/6/2020	45	LVWPS-MW209-EN01	E9710			ND	ND	ND		ND	ND								
LVWPS-MW209A	12/21/2020	45	LVWPS-MW209A-EM01	E9717	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW209B	10/6/2020	120	LVWPS-MW209B-BL04	E8205			ND	ND			ND	ND								
	10/6/2020	44.8	LVWPS-MW210A-BL04	E8206			ND	ND			ND	ND								
LVWPS-MW210A	12/21/2020	44.8	LVWPS-MW210A-EM01	E9704	ND	ND			561.7 **	27.6			ND	ND			ND	ND		
	12/21/2020	44.8	LVWPS-MW210A-EM01	E9938			ND	ND			ND	ND			ND	ND			ND	ND
	10/6/2020	79.6	LVWPS-MW210B-BL04	E8207			ND	ND			ND	ND								
LVVVPS-WW210B	12/21/2020	79.6		E9/05	ND	ND			503.4 **	19.0	 ND		541.0	2.19	 ND		ND	ND		 ND
	9/30/2020	79.0 50.6		E9939 E7783								ND			ND	IND			ND	ND
LVWPS-MW211	12/21/2020	59.6	LVWPS-MW211-FM01	E9706	513.9 **	2.27			ND	ND			ND	ND			ND	ND		
	12/21/2020	59.6	LVWPS-MW211-EM01	E9942			ND	ND			ND	ND			ND	ND			ND	ND
	10/5/2020	43.9	LVWPS-MW212A-BL04	E7832			ND	ND			ND	ND								
LVVVPS-WVV212A	12/21/2020	43.9	LVWPS-MW212A-EM01	E9737	ND	ND			ND	ND			ND	ND			ND	ND		
I VWPS-MW212B	10/5/2020	69.7	LVWPS-MW212B-BL04	E7833			ND	ND			ND	ND								
	12/22/2020	69.7	LVWPS-MW212B-EM01	E9738	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-MW217A	9/30/2020	61	LVWPS-MW217A-BL04	E7784			ND	ND ND			ND	ND								
LVWPS-MW217B	9/30/2020	110.1	LVWPS-MW217B-BL04	E/785			ND	ND				ND								
LVVVPS-WW21/C	10/5/2020	1.001		E/015																
I VWPS-MW2184	12/21/2020	44.9	I VWPS-MW/218A-FM01	F9718	ND	ND				13.1				ND			 ND	ND		
	12/21/2020	44.9	LVWPS-MW218A-EM01	E9949			ND	ND			ND	ND			ND	ND			ND	ND
	10/5/2020	69.8	LVWPS-MW220A-BL04	E7831			ND	ND			ND	ND								
LVWPS-MW220A	12/21/2020	69.8	LVWPS-MW220A-EM01	E9719	ND	ND			567.2	1.32			ND	ND			ND	ND		
	12/21/2020	69.8	LVWPS-MW220A-EM01	F0191			ND	ND			ND	ND			ND	ND			ND	ND

						Fluor	escein			Rhodamine	WT (RWT)			Eo	sine			Sulforhodar	nine B (SRB)	
Location	Sample Date	Depth	Sample ID	Lab Sample	Cha	rcoal	Grour	ndwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Chai	rcoal	Groun	dwater
		(ft bgs)		U	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	10/6/2020	60	LVWPS-MW221A-BL04	E8201			ND	ND			ND	ND								
I.VWPS-MW221A	12/12/2020	60	LVWPS-MW221A-INJ	E9327	ND	ND			562.4 **	4.93			ND	ND			ND	ND		
	12/12/2020	60	LVWPS-MW221A-INJ	E9467			ND	ND			ND	ND			ND	ND			ND	ND
	12/22/2020	60	LVWPS-MW221A-EM01	E9739	ND	ND			ND	ND			ND	ND			ND	ND		L
LVWPS-MW221B	10/6/2020	93.4	LVWPS-MW221B-BL04	E8202			ND	ND			ND	ND								L
	10/6/2020	55.1	LVWPS-MW223A-BL04	E8190			ND	ND			ND	ND								l
LVWPS-MW223A	10/6/2020	55.1	LVWPS-MW223A-BL04-FD	E8191			ND	ND			ND	ND								l
	12/14/2020	55.1		E9702	ND	ND			ND	ND			ND	ND 6.92			ND	ND		<u>⊢</u>
	10/6/2020	90.1		E9709 E8102	ND	ND	 ND	ND	ND	IND	 ND		559.4	0.02			ND	ND		
	12/14/2020	80.1	I VWPS-MW223B-BL04	E0192	ND		110		566 1	17.6			539.7	3 39			ND	ND		
LVWPS-MW223B	12/14/2020	80.1	I VWPS-MW223B-INJ	E9936			ND	ND			ND	ND			ND	ND			ND	ND
	12/22/2020	80.1	LVWPS-MW223B-EM01	E9710	ND	ND			567.6	28.4			540.2	2.29			ND	ND		
	12/22/2020	80.1	LVWPS-MW223B-EM01	E9944			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-MW223C	10/7/2020	102.6	LVWPS-MW223C-BL04	E8211			ND	ND			ND	ND								
LVWPS-MW224A	10/7/2020	65	LVWPS-MW224A-BL04	E8247			ND	ND			ND	ND								
I VWPS-MW224A	12/23/2020	65	LVWPS-MW224A-EM01	E9701	ND	ND			562.0 **	3.35			ND	ND			ND	ND		
	12/23/2020	65	LVWPS-MW224A-EM01	F0189			ND	ND			ND	ND			ND	ND			ND	ND
	9/28/2020	102.6	LVWPS-U1-DR01A-BL04	E7751			ND	ND			ND	ND								
	12/13/2020	102.6	LVWPS-U1-DR01A-20201213-1	E9436			ND	ND			ND	ND			ND	ND			ND	ND
	12/13/2020	102.6	LVWPS-U1-DR01A-20201213-2	E9437			ND	ND			ND	ND			ND	ND			ND	ND
	12/13/2020	102.6	LVWPS-U1-DR01A-20201213-3	E9438			507.1	0.959			ND	ND			ND	ND			ND	ND
	12/13/2020	102.0	LVWPS-U1-DR01A-20201213-4	E9439 E0428			013.0 ND	0.901				ND								
LVWPS-U1-DR01A	12/14/2020	102.0	LVWPS-U1-DR01A-20201214-5	E9420 F9429			515.2	3 35			ND	ND			ND	ND			ND	
	12/14/2020	102.0	LVWPS-U1-DR01A-20201214-1	E9414			514.9	1 79			ND	ND			ND	ND			ND	ND
	12/14/2020	102.6	LVWPS-U1-DR01A-20201214-2	E9415			515.2	18.2			ND	ND			ND	ND			ND	ND
	12/14/2020	102.6	LVWPS-U1-DR01A-20201214-3	E9416			506.8	1.18			ND	ND			ND	ND			ND	ND
	12/14/2020	102.6	LVWPS-U1-DR01A-20201214-4	E9417			515.0	3.03			ND	ND			ND	ND			ND	ND
	12/29/2020	102.6	LVWPS-U1-DR01A-INJ	E9923			507.0	0.700			ND	ND			ND	ND			ND	ND
	9/28/2020	136.1	LVWPS-U1-DR01B-BL04	E7752			ND	ND			ND	ND								
	9/28/2020	136.1	LVWPS-U1-DR01B-BL04-FD	E7836			ND	ND			ND	ND								
	12/13/2020	136.1	LVWPS-U1-DR01B-20201213-1	E9447			515.4	17.1			ND	ND			ND	ND			ND	ND
	12/13/2020	136.1	LVWPS-U1-DR01B-20201213-2	E9448			514.1	177			ND	ND			ND	ND			ND	ND
	12/13/2020	136.1	LVWPS-U1-DR01B-20201213-3	E9449			513.7	179			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR01B	12/14/2020	136.1	LVWPS-U1-DR01B-20201214-5	E9430			513.2	165			ND	ND			ND	ND			ND	ND
	12/14/2020	130.1	LVWPS-U1-DR01B-20201214-6	E9431			513.5	90.5			ND	ND			ND	ND			ND	ND
	12/14/2020	130.1	LVWPS-UT-DR01B-20201214-1	E9418 E0/10			515.7	130				ND								
	12/14/2020	136.1	LVWPS-U1-DR01B-20201214-2	E9419 F9421			515.7	259			ND	ND			ND	ND			ND	
	12/14/2020	136.1	LVWPS-U1-DR01B-20201214-4	E9422			513.8	204			ND	ND			ND	ND			ND	ND
	12/29/2020	136.1	LVWPS-U1-DR01B-INJ	E9924			515.4 **	65.6			ND	ND			ND	ND			ND	ND
	9/28/2020	101.6	LVWPS-U1-DR02A-BL04	E7748			ND	ND			ND	ND								
	12/13/2020	101.6	LVWPS-U1-DR02A-20201213-1	E9441			515.3	23.4			ND	ND			ND	ND			ND	ND
	12/13/2020	101.6	LVWPS-U1-DR02A-20201213-2	E9442			515.2	11.8			ND	ND			ND	ND			ND	ND
	12/13/2020	101.6	LVWPS-U1-DR02A-20201213-3	E9443			514.6	10.0			ND	ND			ND	ND			ND	ND
	12/13/2020	101.6	LVWPS-U1-DR02A-20201213-4	E9444			515.1	12.9			ND	ND			ND	ND			ND	ND
	12/14/2020	101.6	LVWPS-U1-DR02A-20201214-5	E9425			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02A	12/14/2020	101.6	LVWPS-U1-DR02A-20201214-6	E9426			516.1	3.35			ND	ND			ND	ND			ND	ND
	12/14/2020	101.6	LVWPS-U1-DR02A-20201214-6	E9426 Rep			515.4	2.63			ND	ND			ND	ND			ND	ND
	12/14/2020	101.6	LVWPS-U1-DR02A-20201214-1	E9405			515.6	5.08			ND	ND			ND	ND			ND	ND
	12/14/2020	101.6	LVWPS-U1-DR02A-20201214-2	E9406			515.9	3.81			ND	ND			ND	ND			ND	ND
	12/14/2020	101.0	LVWPS-UT-DR02A-20201214-3	E9407			515.3	22.9				ND								
	12/14/2020	101.0	LVWPS-01-DR02A-20201214-4	E9400 E0020			515.0 **	8 30												
	9/28/2020	137.5	I VWPS-U1-DR02R-RI 04	F7749			ND	ND			ND	ND								
	12/13/2020	137.5	VWPS-U1-DR02B-20201213-1	E9450			506.8	0.087			ND				ND	ND			ND	ND
	12/13/2020	137.5	LVWPS-U1-DR02B-20201213-2	E9451			ND	ND			ND	ND			ND	ND			ND	ND
	12/13/2020	137.5	LVWPS-U1-DR02B-20201213-3	E9452			ND	ND			ND	ND			ND	ND			ND	ND
	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-5	E9427			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-DR02B	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-4	E9412			ND	ND			ND	ND			ND	ND			ND	ND
	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-1	E9409			ND	ND			ND	ND			ND	ND			ND	ND
	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-2	E9410			ND	ND			ND	ND			ND	ND			ND	ND
	12/14/2020	137.5	LVWPS-U1-DR02B-20201214-3	E9411			ND	ND			ND	ND			ND	ND			ND	ND
	12/29/2020	137.5	LVWPS-U1-DR02B-INJ	E9930			507.0	1.01			ND	ND			ND	ND			ND	ND

						Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			Sulforhodar	nine B (SRB)	
Location	Sample Date	Depth (ft have)	Sample ID	Lab Sample	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater	Cha	rcoal	Groun	dwater
		(tt bgs)		ID	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
	9/28/2020	102.6	LVWPS-U1-MW01A-BL04	E7735			ND	ND			ND	ND								
I VWPS-U1-MW01A	12/13/2020	102.6	LVWPS-U1-MW01A-20201213	E9453			ND	ND			ND	ND			ND	ND			ND	ND
	12/28/2020	102.6	LVWPS-U1-MW01A-INJ	E9678	ND	ND			558.0 **	3.15			ND	ND			ND	ND		
	12/28/2020	102.6	LVWPS-U1-MW01A-INJ	E9915			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW01B	9/28/2020	143.4	LVWPS-U1-MW01B-BL04	E7736			ND	ND			ND	ND								
	12/28/2020	143.4	LVWPS-U1-MW01B-INJ	E9679	ND	ND			ND	ND			ND	ND			ND	ND		
	9/29/2020	106.4		E7834			ND	ND			ND	ND								
LVWPS-U1-MW02A	12/13/2020	106.4		E9430		 ND		ND		1.02	ND	ND			IND	ND	 ND	 ND	ND	ND
	12/29/2020	100.4		E9003	ND	ND		ND	500.0	1.92	ND	ND	ND	IND	 ND	ND	ND	IND		
	10/7/2020	149.1	I VWPS-U1-MW02B-BL04	F8212			ND	ND			ND	ND								
	12/13/2020	149.1	LVWPS-U1-MW02B-20201213	E9455			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW02B	12/13/2020	149.1	LVWPS-U1-MW02B-20201213	E9454			ND	ND			ND	ND			ND	ND			ND	ND
	12/29/2020	149.1	LVWPS-U1-MW02B-INJ	E9684	ND	ND			ND	ND			ND	ND			ND	ND		
	9/29/2020	144.2	LVWPS-U1-MW03B-BL04	E7835			ND	ND			ND	ND								
LVWPS-U1-MW03B	3 12/29/2020	144.2	LVWPS-U1-MW03B-INJ	E9693	ND	ND			560.1 **	4.66			ND	ND			ND	ND		
	12/29/2020	144.2	LVWPS-U1-MW03B-INJ	F0188			ND	ND			ND	ND			ND	ND			ND	ND
I VWPS-U1-MW04A	9/30/2020	111.5	LVWPS-U1-MW04A-BL04	E7788			ND	ND			ND	ND								
	12/29/2020	111.5	LVWPS-U1-MW04A-INJ	E9694	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW04B	10/1/2020	152.1	LVWPS-U1-MW04B-BL04	E7794			ND	ND			ND	ND								
	12/29/2020	152.1	LVWPS-U1-MW04B-INJ	E9681	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05A	9/29/2020	107.8	LVWPS-U1-MW05A-BL04	E7774			ND	ND			ND	ND								
	12/29/2020	107.8	LVWPS-U1-MW05A-INJ	E9686	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U1-MW05B	3 9/29/2020	149.1		E///3			ND	ND			ND	ND								
	0/20/2020	05.1		E9007	ND			ND		ND		 ND		ND			ND	ND		
I VWPS-U1-MW06A	12/28/2020	95.1		E7771 E9676	 ND			IND	562.2 **	4.66		ND		ND			ND	ND		
	12/28/2020	95.1	LVWPS-U1-MW06A-INJ	E9013			ND	ND	502.2	4.00	ND	ND			ND	ND	110		ND	ND
	9/29/2020	121.3	I VWPS-U1-MW06B-BI 04	E3310			ND	ND			ND	ND								
LVWPS-U1-MW06B	3 12/28/2020	121.3	LVWPS-U1-MW06B-INJ	E9677	515.1	7.50			562.5 **	2.85			ND	ND			ND	ND		
	12/28/2020	121.3	LVWPS-U1-MW06B-INJ	E9914			506.8	0.125			ND	ND			ND	ND			ND	ND
	9/30/2020	98.5	LVWPS-U1-MW07-BL04	E7778			ND	ND			ND	ND								
LVWPS-U1-MW07	12/29/2020	98.5	LVWPS-U1-MW07-INJ	E9692	515.3	37.2			ND	ND			ND	ND			ND	ND		
	12/29/2020	98.5	LVWPS-U1-MW07-INJ	E9932			507.1	0.684			ND	ND			ND	ND			ND	ND
	9/30/2020	106.1	LVWPS-U1-MW08A-BL04	E7781			ND	ND			ND	ND								
LVWPS-U1-MW08A	12/29/2020	106.1	LVWPS-U1-MW08A-INJ	E9688	516.2	470			567.0	5.61			ND	ND			ND	ND		
	12/29/2020	106.1	LVWPS-U1-MW08A-INJ	E9925			514.7 **	12.2			561.3 **	1.28			ND	ND			ND	ND
	9/30/2020	137.6	LVWPS-U1-MW08B-BL04	E7782			ND	ND			ND	ND								
	12/13/2020	137.6	LVWPS-U1-MW08B-20201213-1	E9457			514.9	11.0			ND	ND			ND	ND			ND	ND
	12/13/2020	137.6	LVWPS-U1-MW08B-20201213	E9459			515.8	2.54			ND	ND			ND	ND			ND	ND
	12/13/2020	137.0	LVWPS-U1-MW08B-20201213-2	E9458			515.2	16.5			ND	ND			ND	ND			ND	ND
	12/14/2020	137.0		E9432	 515 /	105	515.2	0.92		2.00	ND	ND			ND	ND			ND	ND
	12/29/2020	137.0		E9009	515.4	100	515.0 **	8.54	507.2	3.09		ND	ND	IND	 ND		IND	IND		
	12/29/2020	137.6	I VWPS-U1-MW08B-INJ-FD	E9690	515.4	199	010.0	0.04	567.6	3 54			ND	ND			ND	ND		
	12/29/2020	137.6	LVWPS-U1-MW08B-INJ-FD	E9927			514.7 **	11.3			ND	ND			ND	ND			ND	ND
LVWPS-U1-MW09A	9/30/2020	120	LVWPS-U1-MW09A-BL04	E7776			ND	ND			ND	ND								
LVWPS-U1-MW09B	3 9/30/2020	142.4	LVWPS-U1-MW09B-BL04	E7777			ND	ND			ND	ND	i							
LVWPS-U1-MW10A	10/2/2020	111.6	LVWPS-U1-MW10A-BL04	E7809			ND	ND			ND	ND								
LVWPS-U1-MW10B	3 10/2/2020	142.5	LVWPS-U1-MW10B-BL04	E7810			ND	ND			ND	ND								
	9/28/2020	131.1	LVWPS-U2-DR01-BL04	E7753			ND	ND			ND	ND								
	12/7/2020	131.1	LVWPS-U2-DR01-20201207	E9383			ND	ND			ND	ND			ND	ND			ND	ND
	12/8/2020	131.1	LVWPS-U2-DR01-20201208	E9389			ND	ND			ND	ND			ND	ND			ND	ND
	12/9/2020	131.1	LVWPS-U2-DR01-20201209	E9398			ND	ND			ND	ND			ND	ND			ND	ND
	12/20/2020	131.1	LVWPS-U2-DR01-20201220-1	E9868			506.2	0.016			ND	ND			ND	ND			ND	ND
	12/20/2020	131.1	LVWPS-U2-DR01-20201220-2	E9869			ND	ND			ND	ND			ND	ND			ND	ND
LVWPS-U2-DR01	12/20/2020	131.1	LVWPS-U2-DR01-20201220-3	E9870			ND	ND			ND	ND			ND	ND			ND	ND
	12/20/2020	131.1	LVWPS-U2-DR01-20201220-4	E9871				ND				ND			ND	ND			ND	ND
	12/21/2020	131.1	LVWPS-U2-DR01-20201221-1	E9895				ND							ND	ND			ND	ND
	12/21/2020	131.1		E9090																
	12/21/2020	131.1	LVWPS-U2-DRU1-20201221-3	E0806																
	12/21/2020	131.1		E9090 F0071																
L	12/31/2020	131.1		E99/1				שא					I		טא	UND			UND	UVI

Image         Image <t< th=""><th></th><th rowspan="2">Sample Date</th><th rowspan="2">Depth</th><th></th><th></th><th></th><th>Fluor</th><th>escein</th><th></th><th></th><th>Rhodamin</th><th>e WT (RWT)</th><th></th><th></th><th>Eos</th><th>sine</th><th></th><th></th><th>)</th></t<>		Sample Date	Depth				Fluor	escein			Rhodamin	e WT (RWT)			Eos	sine			)		
NUMB         NumB <th< th=""><th>Location</th><th>Sample ID</th><th>Lab Sample</th><th>Cha</th><th>rcoal</th><th colspan="2">Groundwater</th><th>Cha</th><th>rcoal</th><th colspan="2">oal Ground</th><th>Cha</th><th>rcoal</th><th>Groun</th><th>dwater</th><th colspan="2">Charcoal</th><th>Groun</th><th>dwater</th></th<>	Location			Sample ID	Lab Sample	Cha	rcoal	Groundwater		Cha	rcoal	oal Ground		Cha	rcoal	Groun	dwater	Charcoal		Groun	dwater
			(ft bgs)		U	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
		9/28/2020	96.1	LVWPS-U2-DR02-BL04	E7756			ND	ND			ND	ND								
		12/7/2020	96.1	LVWPS-U2-DR02-20201207	E9386			ND	ND			ND	ND			ND	ND			ND	ND
19300         01         100%2.00020000         Field         0        0         0         0		12/8/2020	96.1	LVWPS-U2-DR02-20201208	E9392			ND	ND			ND	ND			ND	ND			ND	ND
Lam         Lam <thlam< th=""> <thlam< th=""> <thlam< th=""></thlam<></thlam<></thlam<>		12/9/2020	96.1	LVWPS-U2-DR02-20201209	E9402			ND	ND			575.7	0.206			ND	ND			ND	ND
LIMP 34 bit         Limp 34 bit <thlimp 34="" bit<="" th=""> <thlimp 34="" bit<="" th=""></thlimp></thlimp>		12/20/2020	96.1	LVWPS-U2-DR02-20201220-1	E9888			515.4 **	160			ND	ND			ND	ND			ND	ND
199879.01         19987         1988         198        198         198 <th< td=""><td></td><td>12/20/2020</td><td>96.1</td><td>LVWPS-02-DR02-20201220-2</td><td>E9878</td><td></td><td></td><td>515.7 **</td><td>151</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td></th<>		12/20/2020	96.1	LVWPS-02-DR02-20201220-2	E9878			515.7 **	151			ND	ND			ND	ND			ND	ND
1         1	LVWPS-U2-DR02	12/20/2020	96.1	LVWPS-02-DR02-20201220-3	E9879			515.7 **	87.8			ND	ND			ND	ND			ND	ND
19         100         10000         1000         1000         1		12/20/2020	96.1	LVWPS-02-DR02-20201220-4	E9001			515.7 **	97.3				ND			ND					
122/2028         81         1.VMP512008/2020/2214         ENG          -         NO         NO           NO         NO           NO         NO           NO         NO           NO         NO           NO         NO         NO           NO         NO         NO           NO        NO         NO <th< td=""><td>12/21/2020</td><td>90.1</td><td>LVWFS-02-DR02-20201221-1</td><td>E9905</td><td></td><td></td><td>515.7</td><td>67.3</td><td></td><td></td><td></td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td></td></th<>		12/21/2020	90.1	LVWFS-02-DR02-20201221-1	E9905			515.7	67.3				ND			ND	ND			ND	
1         1		12/21/2020	96.1	I VWPS-U2-DR02-20201221-2	E9907			515.8 **	202			ND	ND			ND	ND			ND	
57:000         61         (NVPR-Lower-Sector)         680         6        6         6         6 </td <td></td> <td>12/21/2020</td> <td>96.1</td> <td>I VWPS-U2-DR02-20201221-4</td> <td>E9908</td> <td></td> <td></td> <td>515.4 **</td> <td>652</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td>		12/21/2020	96.1	I VWPS-U2-DR02-20201221-4	E9908			515.4 **	652			ND	ND			ND	ND			ND	ND
1979000         101         100000         100         100000         100         100000         100000         100000         100000         100000         1000000         1000000         1000000         1000000000         100000000000         1000000000000000         1000000000000000000000000000000000000		12/21/2020	96.1	LVWPS-U2-DR02-20201221-4-FD	E9909			515.8 **	464			ND	ND			ND	ND			ND	ND
1000000         1000000         10000000000         100000000000         1000000000000000         1000000000000000000000000000000000000		12/31/2020	96.1	LVWPS-U2-DR02-INJ	E9970			516.2 **	38.3			ND	ND			ND	ND			ND	ND
LUMP LUMP (100)         LUMP (100) <thlump (100)<="" th="">         LUMP (100)        LUM</thlump>		10/8/2020	106.9	LVWPS-U2-MW01-BL04	E8230			ND	ND			ND	ND								
198000         19.1         19800         19.2         19.0        19.0         19.0        <	LVVVP5-02-1VIVV01	1/4/2021	106.9	LVWPS-U2-MW01-INJ	E9777	ND	ND			ND	ND			ND	ND			ND	ND		
UNMP         Link         UNMP         UNMP <th< td=""><td></td><td>10/8/2020</td><td>112.4</td><td>LVWPS-U2-MW02-BL04</td><td>E8227</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		10/8/2020	112.4	LVWPS-U2-MW02-BL04	E8227			ND	ND			ND	ND								
Index         Index <th< td=""><td>LVWPS-U2-MW02</td><td>1/4/2021</td><td>112.4</td><td>LVWPS-U2-MW02-INJ</td><td>E9778</td><td>513.7 **</td><td>0.685</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td></th<>	LVWPS-U2-MW02	1/4/2021	112.4	LVWPS-U2-MW02-INJ	E9778	513.7 **	0.685			ND	ND			ND	ND			ND	ND		
UMPR-12         UMPR-12-AMMORE-14         PE-28         -       -         -         - <td></td> <td>1/4/2021</td> <td>112.4</td> <td>LVWPS-U2-MW02-INJ</td> <td>E9972</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td>		1/4/2021	112.4	LVWPS-U2-MW02-INJ	E9972			ND	ND			ND	ND			ND	ND			ND	ND
	LVWPS-U2-MW03	10/9/2020	99.8	LVWPS-U2-MW03-BL04	E8238			ND	ND			ND	ND								L
UNMPSL244001         DBS00         Fm         C         ND         Fm         ND         Fm         Fm        Fm		1/4/2021	99.8	LVWPS-U2-MW03-INJ	E9779	ND	ND			ND	ND			ND	ND			ND	ND		I
UMPERIZATIVE         Display of the second seco	LVWPS-U2-MW04	10/6/2020	115.3	LVWPS-U2-MW04-BL04	E8208			ND	ND			ND	ND								·
LUMPS LLANNS         LUMPS LLANNS<		12/31/2020	115.3	LVWPS-U2-MW04-INJ	E9776	ND	ND			ND	ND			ND	ND			ND	ND		+
LYWF 84.2         LYWF 84.2 <thlywf 84.2<="" th=""> <thlywf 84.2<="" th=""> <thl< td=""><td>LVWP5-02-MW05</td><td>10/5/2020</td><td>95.4</td><td></td><td>E7841</td><td> 516.0</td><td></td><td>ND</td><td>ND</td><td></td><td>4.20</td><td></td><td>ND</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>·</td></thl<></thlywf></thlywf>	LVWP5-02-MW05	10/5/2020	95.4		E7841	 516.0		ND	ND		4.20		ND								·
101/2002         1511         LVWPS-102-WVS-B104         E772         -         -         NO         NO         NO         -         -         NO         NO         NO         NO	LVWPS-U2-MW05	12/31/2020	95.4		E9771	510.2	043	516.4 **	13.1	567.0	4.30		ND	ND	ND			ND	ND		
LVWPS-U2.4MV06         111         LVWPS-U2.4MV06-NL         E774         ND         ND         in         in         ND         in         in         ND		10/1/2020	131.1	LVWPS-U2-MW05-INJ	E9900			ND	ND			ND	ND			110	110			ND	
LWPs124Wh         10/1020         1227         LWPs124Wh08404         EP71         iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	LVWPS-U2-MW06	12/31/2020	131.1	1 VWPS-U2-MW06-IN.I	E9774	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U24MV6         120/12/20         1227         LVWPS-U24MV69ENU         E976         ND         ND        ND	LVWPS-U2-MW08	10/1/2020	122.7	LVWPS-U2-MW08-BL04	E7791			ND	ND			ND	ND								
LVWPS-U2-MM0         194.6         LVWPS-12-MM09EL04         E8244           MD         ND           ND         ND		12/31/2020	122.7	LVWPS-U2-MW08-INJ	E9775	ND	ND			ND	ND			ND	ND			ND	ND		
UNPERLIAM         1946         UNPERLIAM/194.M00         E9770         ND         ND        ND        ND <t< td=""><td></td><td>10/9/2020</td><td>94.6</td><td>LVWPS-U2-MW09-BL04</td><td>E8244</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		10/9/2020	94.6	LVWPS-U2-MW09-BL04	E8244			ND	ND			ND	ND								
IMPREDUMP     IMPREDUMP     IMPREDUMP     Res     Imp     Imp<	LVVVP5-02-1010009	12/31/2020	94.6	LVWPS-U2-MW09-INJ	E9770	ND	ND			ND	ND			ND	ND			ND	ND		
10         10         10         10         ND         ND<	LVWPS-U2-MW12	10/7/2020	95.4	LVWPS-U2-MW12-BL04	E8210			ND	ND			ND	ND								
LVWPSU24MV1         100         100          ND		10/6/2020	95.1	LVWPS-U2-MW14-BL04	E8199			ND	ND			ND	ND								
121/2020         165         UVWPS-U2-MV14-INU         E9699          ND         ND          ND        ND       <	LVWPS-U2-MW14	12/31/2020	95.1	LVWPS-U2-MW14-INJ	E9773	514.9	1.90			ND	ND			ND	ND			ND	ND		
LWPS-U2-AW17         101/2020         102/82         LWWPS-U2-AW17-8L04         E7801           MD         ND           ND         ND                  ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND         ND           ND </td <td></td> <td>12/31/2020</td> <td>95.1</td> <td>LVWPS-U2-MW14-INJ</td> <td>E9969</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td>		12/31/2020	95.1	LVWPS-U2-MW14-INJ	E9969			ND	ND			ND	ND			ND	ND			ND	ND
LWPB-U2-MM         109/2020         100         LWPB-U2-MW18-BU4         E/R         m         ND         ND         m         ND	LVWPS-U2-MW17	10/1/2020	126.5	LVWPS-U2-MW17-BL04	E7801			ND	ND			ND	ND								·
LUMPS-U2-MWT6-M         EVIZ         ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND          ND         ND          ND         ND </td <td>LVWPS-U2-MW18</td> <td>10/5/2020</td> <td>100.6</td> <td>LVWPS-U2-MW18-BL04</td> <td>E/818</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>t</td>	LVWPS-U2-MW18	10/5/2020	100.6	LVWPS-U2-MW18-BL04	E/818			ND	ND			ND	ND								t
bit         bit <td></td> <td>12/31/2020</td> <td>100.6</td> <td></td> <td>E9772</td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td> ND</td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td>L</td>		12/31/2020	100.6		E9772	ND	ND			ND	ND		 ND	ND	ND			ND	ND		L
LWWPS-U3-DR0H         Light 2020         India         LWWPS-U3-DR0H-20201217.2         Esseld           ND         ND           ND         ND           ND         ND           ND         ND         ND         ND         ND           ND         ND         ND         ND         ND           ND         ND         ND         ND         ND           ND         ND         ND         ND         ND           ND         ND         ND         ND         ND         ND           ND         ND         ND           ND         ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           <		9/20/2020	100	LVWPS-U3-DR01A-20201217-1	E1139 E0845			51/ 0 **	1 20							ND	ND				
LWWPS-U3-DR01A         LWWPS-U3-DR01A-20201217.3         E9847           S13          ND         ND          ND		12/17/2020	108	LVWPS-U3-DR01A-20201217-1	E9846			515.5 **	3.51			ND	ND			ND	ND			ND	
12/17/2020         108         LVWPS-U3-DR01A-20201217-4         E9848          514.7*         0.559          ND         ND          ND <t< td=""><td>LVWPS-U3-DR01A</td><td>12/17/2020</td><td>108</td><td>LVWPS-U3-DR01A-20201217-3</td><td>E9847</td><td></td><td></td><td>514.9 **</td><td>3.53</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td></t<>	LVWPS-U3-DR01A	12/17/2020	108	LVWPS-U3-DR01A-20201217-3	E9847			514.9 **	3.53			ND	ND			ND	ND			ND	ND
1229/202         108         LVWPS-U3-DR01A-INU         E9919           507.1         1.57          IND         ND         IND         IND<		12/17/2020	108	LVWPS-U3-DR01A-20201217-4	E9848			514.7 **	0.559			ND	ND			ND	ND			ND	ND
9/28/2020         144.1         LWWPS-U3-DR01B-8L04         E7741           ND         ND          ND         ND          ND         ND         ND          ND	LVWPS-U2-MW04 LVWPS-U2-MW05 LVWPS-U2-MW06 LVWPS-U2-MW08 LVWPS-U2-MW09 LVWPS-U2-MW12 LVWPS-U2-MW14 LVWPS-U2-MW14 LVWPS-U2-MW17 LVWPS-U2-MW18 LVWPS-U3-DR01A	12/29/2020	108	LVWPS-U3-DR01A-INJ	E9919			507.1	1.57			ND	ND			ND	ND			ND	ND
12/16/202         144.1         LVWPS-U3-DR01B-20201216-1         E9925          ND         ND          ND         ND          ND </td <td></td> <td>9/28/2020</td> <td>144.1</td> <td>LVWPS-U3-DR01B-BL04</td> <td>E7741</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		9/28/2020	144.1	LVWPS-U3-DR01B-BL04	E7741			ND	ND			ND	ND								
12/16/202         144.1         LVWPS-U3-DR018-20201216-2         E9826          515.1**         155          ND         ND          ND         ND          ND         ND         ND          ND         ND          ND         ND         ND          ND         ND          ND         ND          ND         ND         ND          ND		12/16/2020	144.1	LVWPS-U3-DR01B-20201216-1	E9825			ND	ND			ND	ND			ND	ND			ND	ND
12/16/202         144.1         LVWPS-U3-DR01B-202012163         E9827          515.7**         135          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND		12/16/2020	144.1	LVWPS-U3-DR01B-20201216-2	E9826			514.1 **	155			ND	ND			ND	ND			ND	ND
LWPS-U3-DR01B         12/16/202         14.1         LWWPS-U3-DR01B-202012164         E9828          515.1**         7.32          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND         ND          ND         ND         ND         ND          ND         ND         ND         ND          ND         ND         ND         ND         ND         ND          ND         ND         ND         ND          ND         ND         ND         ND         ND         ND          ND         ND         ND         ND         ND         IA         IA         ND         IA         IA         IA         ND         ND         IA         IA         ND         ND         IA         IA         ND         ND         IA         IA         IA         ND         ND         IA         IA         IA         IA         IA         IA         ND <th< td=""><td></td><td>12/16/2020</td><td>144.1</td><td>LVWPS-U3-DR01B-20201216-3</td><td>E9827</td><td></td><td></td><td>515.7 **</td><td>135</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td></th<>		12/16/2020	144.1	LVWPS-U3-DR01B-20201216-3	E9827			515.7 **	135			ND	ND			ND	ND			ND	ND
12/17/2020         144.1         LWWPS-U3-DR01B-20201217-1         E9859           515.4**         407          ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND         ND           ND <t< td=""><td>LVWPS-U3-DR01B</td><td>12/16/2020</td><td>144.1</td><td>LVWPS-U3-DR01B-20201216-4</td><td>E9828</td><td></td><td></td><td>515.1 **</td><td>7.32</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td><td></td><td></td><td>ND</td><td>ND</td></t<>	LVWPS-U3-DR01B	12/16/2020	144.1	LVWPS-U3-DR01B-20201216-4	E9828			515.1 **	7.32			ND	ND			ND	ND			ND	ND
12/17/202       144.1       LWWPS-U3-DR01B-20201217-2       E9850         515.7**       209        ND       ND       ND       ND       ND        ND       ND       ND         ND       ND       ND         ND       ND       ND       ND         ND       ND       ND         ND       ND       ND         ND       ND       ND         ND       ND		12/17/2020	144.1	LVWPS-U3-DR01B-20201217-1	E9849			515.4 **	407			ND	ND			ND	ND			ND	ND
12/11/202         144.1         LVWPS-U3-DR01B-20201217-3         E9851          515.7 <sup>++</sup> 210          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND         ND         ND          ND         ND         ND          ND         ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND          ND         ND          ND         ND          ND         ND         ND          ND         ND          ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         <		12/17/2020	144.1	LVWPS-U3-DR01B-20201217-2	E9850			515.7 **	209			ND ND	ND			ND	ND			ND	ND
I2/17/202         144.1         LVWPS-03-DR01B-20201217-4         E992           S15.1 <sup>-+</sup> 39.1          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND          ND		12/17/2020	144.1	LVWPS-U3-DR01B-20201217-3	E9851			515./**	210			ND	ND			ND	ND			ND	ND
1212912020         144.1         LVWPS-03-DR01D-INJ         E9921          31.0         30.9          ND         ND          ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND         ND           9/28/202         98.6         LVWPS-U3-DR02A-BL04         E7742          ND         ND          ND         ND                   ND         ND           ND         ND               ND         ND           ND         ND           ND         ND           ND         ND           ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND          ND         ND        <		12/17/2020	144.1		E9852			515.1 **	39.1			ND	ND			ND	ND			ND	
Bill of 2020         Sold         LVWPS-U3-DR02A-20201216-1         E1742          IND		0/28/2020	08.6		E3921			010.0	30.9							ND	UND			UND	UN
Iz/10/220         90.0         EVVID-000-ENV2A-2201210-1         E900          01.0         000         ND         ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND          ND         ND         ND         ND          ND         ND         ND         ND          ND         ND         ND           ND         ND         ND         ND           ND         ND         ND           ND         ND          ND         ND           ND         ND         ND           ND         ND          ND         ND          ND         ND          ND         ND          ND         ND         ND           ND         ND         ND           ND         ND         ND          ND         ND         <		3/20/2020	90.0 08 6		E1142 E0830			NU 515.2.**	26.0												
Line         Obs         Line         Obs         Obs </td <td></td> <td>12/16/2020</td> <td>90.0</td> <td>I VWPS-U3-DR02A-20201210-1</td> <td>E9030</td> <td></td> <td></td> <td>513.8 **</td> <td>11/</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ND</td> <td>ND</td> <td></td> <td></td> <td></td> <td></td>		12/16/2020	90.0	I VWPS-U3-DR02A-20201210-1	E9030			513.8 **	11/							ND	ND				
LVWPS-U3-DR02A       12/16/2020       98.6       LVWPS-U3-DR02A-20201216-4       E9833         515.7 **       125        ND       ND        ND       ND        ND		12/16/2020	98.6	I VWPS-U3-DR02A-20201216-3	E9832			515.6 **	2.37			ND	ND			ND	ND			ND	ND
12/17/2020       98.6       LVWPS-U3-DR02A-20201217-4-FD       E9866         515.6 **       83.2        ND       ND        ND       ND        ND       N	LVWPS-U3-DR02A	12/16/2020	98.6	LVWPS-U3-DR02A-20201216-4	E9833			515.7 **	125			ND	ND			ND	ND			ND	ND
12/30/2020 98.6 LVWPS-U3-DR02A-INJ E9959 515.1 ** 73.5 ND		12/17/2020	98.6	LVWPS-U3-DR02A-20201217-4-FD	E9866			515.6 **	83.2			ND	ND			ND	ND			ND	ND
		12/30/2020	98.6	LVWPS-U3-DR02A-INJ	E9959			515.1 **	73.5			ND	ND			ND	ND			ND	ND
12/30/2020 98.6 LVWPS-U3-DR02A-INJ E9961 516.0 ** 67.5 ND ND ND ND ND ND ND ND ND		12/30/2020	98.6	LVWPS-U3-DR02A-INJ	E9961			516.0 **	67.5			ND	ND			ND	ND			ND	ND

	Sample Date	Depth (ft bgs)		Lab Sample	Fluorescein					Rhodamin	e WT (RWT)			Eos			Sulforhodar	hine B (SRB)		
Location			Sample ID		Cha	rcoal	Groun	dwater	Cha	Charcoal		Groundwater		rcoal	Groundwater		Charcoal		Groundwater	
				ID	nm	daa	nm	daa	nm	daa	nm	daa	nm	daa	nm	daa	nm	daa	nm	daa
	9/28/2020	130	LVWPS-U3-DR02B-BL04	E7743			ND	ND			ND	ND								
I VWPS-U3-DR02B	12/16/2020	130	LVWPS-U3-DR02B-20201216-1	E9834			515.7 **	144			ND	ND			ND	ND			ND	ND
	12/16/2020	130	LVWPS-U3-DR02B-20201216-2	E9835			515.3 **	14.1			ND	ND			ND	ND			ND	ND
	12/16/2020	130	LVWPS-U3-DR02B-20201216-3	E9836			515.7 **	154			ND	ND			ND	ND			ND	ND
	12/16/2020	130	LVWPS-U3-DR02B-20201216-4	E9837			515.3 **	26.1			ND	ND			ND	ND			ND	ND
	12/17/2020	130	LVWPS-U3-DR02B-20201217-1	E9857			515.8 **	224			ND	ND			ND	ND			ND	ND
	12/17/2020	130	LVWPS-U3-DR02B-20201217-2	E0858			515.4 **	12.3			ND	ND			ND	ND			ND	ND
	12/17/2020	130	LVW/DS-U3-DR02B-20201217-2	E0850			515.2 **	27.3			ND	ND			ND	ND			ND	ND
	12/17/2020	130		E0961			515.5 **	55.7			ND	ND			ND	ND				ND
	0/28/2020	161 5		E3001				55.7			ND	ND			ND	ND			ND	ND
	9/20/2020	161.5		E1144			507.1	0.227			ND								 ND	
	12/16/2020	101.0	LVWPS-03-DR02C-20201210-1	E9030			507.1	0.337			ND	ND			ND	ND			ND	ND
	12/10/2020	101.5	LVWPS-03-DR02C-20201216-2	E9639			507.0	0.400			ND	ND			ND	ND			ND	ND
	12/16/2020	101.5	LVWPS-U3-DR02C-20201216-3	E9841			507.1	1.10			ND	ND			ND	ND			ND	ND
	12/16/2020	161.5	LVWPS-U3-DR02C-20201216-3-FL	E9843			507.0	0.346			ND	ND			ND	ND			ND	ND
LVWPS-03-DR02C	12/16/2020	161.5	LVWPS-U3-DR02C-20201216-4	E9842			507.1	0.943			ND	ND			ND	ND			ND	ND
	12/17/2020	161.5	LVWPS-U3-DR02C-20201217-1	E9862			507.9	0.490			ND	ND			ND	ND			ND	ND
	12/17/2020	161.5	LVWPS-U3-DR02C-20201217-2	E9863			507.2	0.879			ND	ND			ND	ND			ND	ND
	12/17/2020	161.5	LVWPS-U3-DR02C-20201217-3	E9864			507.3	0.909			ND	ND			ND	ND			ND	ND
	12/17/2020	161.5	LVWPS-U3-DR02C-20201217-4	E9865			515.3 **	6.41			ND	ND			ND	ND			ND	ND
	12/30/2020	161.5	LVWPS-U3-DR02C-INJ	E9962			516.4 **	51.2			ND	ND			ND	ND			ND	ND
LVWPS-U3-MW01B	10/5/2020	93.5	LVWPS-U3-MW01B-BL04	E7819			ND	ND			ND	ND								
1.\/\//DS_113_M\\//02A	10/5/2020	89.4	LVWPS-U3-MW02A-BL04	E7824			ND	ND			ND	ND								
LVWI 3-03-101002A	12/30/2020	89.4	LVWPS-U3-MW02A-INJ	E9761	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW02B	10/5/2020	112.5	LVWPS-U3-MW02B-BL04	E7825			ND	ND			ND	ND								
	12/30/2020	112.5	LVWPS-U3-MW02B-INJ	E9762	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03A	10/2/2020	98.6	LVWPS-U3-MW03A-BL04	E7805			ND	ND			ND	ND								
	10/2/2020	98.6	LVWPS-U3-MW03A-BL04-FD	E7806			ND	ND			ND	ND								
	12/30/2020	98.6	LVWPS-U3-MW03A-INJ	E9750	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03B	10/2/2020	163	LVWPS-U3-MW03B-BL04	F7804			ND	ND			ND	ND								
	12/30/2020	163	I VWPS-U3-MW03B-INJ	E9751	515 7	116			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW03B	12/30/2020	163	LVWPS-U3-MW03B-INJ	E9963			508.2	0.226			ND	ND			ND	ND			ND	ND
	10/1/2020	129.9	LVWPS-U3-MW03C-BL04	E7793			ND	ND			ND	ND								
I WWPS-U3-MW03C	12/30/2020	120.0		E1750	515 5	8.21			ND	ND	110	110	ND	ND			ND	ND		
	12/30/2020	120.0		E9762	010.0	0.21	ND	ND			ND	ND			ND	ND			ND	ND
1.\/\//PS_113_M\//04B	10/2/2020	87.7		E7807			ND	ND			ND	ND			ND	ND			ND	ND
LVWI S-03-WW04D	10/2/2020	01.0		E7007			ND	ND			ND	ND								
LVVF3-03-1010000	10/2/2020	102.6		E7000			ND	ND			ND	ND								
LVWPS-U3-MW06A	10/3/2020	102.0		E/02/			ND	ND	ND		IND	ND								
	12/30/2020	102.0		E9754	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW06B	10/7/2020	137.3		E6213			ND	ND			ND	ND								
	12/30/2020	137.3	LVWPS-U3-MW06B-INJ	E9755	ND	ND			ND	ND			ND	ND			ND	ND		
LVWPS-U3-MW07A	10/9/2020	89.9	LVWPS-03-MW07A-BL04	E8221			ND	ND			ND	ND								
	12/30/2020	89.9	LVWPS-U3-MW0/A-INJ	E9/65	ND	ND			DND	ND			DND	ND			ND	ND		
LVWPS-U3-MW07B	10/9/2020	114.3	LVWPS-U3-MW07B-BL04	E8222			ND	ND			ND	ND								
	12/30/2020	114.3	LVWPS-U3-MW07B-INJ	E9766	ND	ND			ND	ND			ND	ND			ND	ND		
	10/8/2020	130	LVWPS-U3-MW08A-BL04	E8234			ND	ND			ND	ND								
LVWPS-03-MW08A	12/30/2020	130	LVWPS-U3-MW08A-INJ	E9768	514.1	0.439			ND	ND			ND	ND			ND	ND		
	12/30/2020	130	LVWPS-U3-MW08A-INJ	F0193			ND	ND			ND	ND			ND	ND			ND	ND
I VWPS-U3-MW08B	10/8/2020	161.2	LVWPS-U3-MW08B-BL04	E8224			ND	ND			ND	ND								
	12/30/2020	161.2	LVWPS-U3-MW08B-INJ	E9769	ND	ND			ND	ND			ND	ND			ND	ND		
	10/7/2020	97.8	LVWPS-U3-MW09-BL04	E8219			ND	ND			ND	ND								
LVWPS-U3-MW09	12/30/2020	97.8	LVWPS-U3-MW09-INJ	E9763	515.4	22.8			ND	ND			ND	ND			ND	ND		
	12/30/2020	97.8	LVWPS-U3-MW09-INJ	E9967			515.4 **	2.51			ND	ND			ND	ND			ND	ND
LVWPS-U3-MW10A	10/5/2020	89.9	LVWPS-U3-MW10A-BL04	E7829			ND	ND			ND	ND								
LVWPS-U3-MW10B	10/5/2020	111.1	LVWPS-U3-MW10B-BL04	E7830			ND	ND			ND	ND								
LVWPS-U3-MW11A	10/7/2020	96.2	LVWPS-U3-MW11A-BL04	E8215			ND	ND			ND	ND								
LVWPS-U3-MW11B	10/7/2020	124.8	LVWPS-U3-MW11B-BI 04	E8216			ND	ND			ND	ND								
I VWPS-U3-MW11C	10/8/2020	153.1	I VWPS-U3-MW11C-BL04	F8223			ND	ND			ND	ND								
LVWPS-113-MW/124	10/6/2020	98	I VWPS-U3-MW/12A-BL04	F8193				ND			ND	ND								
	10/6/2020	125.5		E810/			ND					ND								
LVVVI 3-03-IVIVV IZD	10/0/2020	109.5		E0194																
LVWPS-U3-MW13A	12/20/2020	100.0		E0217																
	12/30/2020	108.5	LVVVPS-U3-IVIVV13A-INJ	E9/00	UND	UND								UND			UND	UND		

#### Table 13 Groundwater Dye Analytical Results Las Vegas Wash Bioremediation Pilot Study

Location		Donth		Lab Sampla	Fluorescein				Rhodamine WT (RWT)				Eosine				Sulforhodamine B (SRB)			)
	Sample Date	(ft bac)	Sample ID		Charcoal		Groundwater		Charcoal		Groundwater		Charcoal		Groundwater		Charcoal		Groundwater	
		(it bys)			nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb	nm	ppb
LVWPS-U3-MW13B	10/7/2020	140.1	LVWPS-U3-MW13B-BL04	E8218			ND	ND			ND	ND								
	12/30/2020	140.1	LVWPS-U3-MW13B-INJ	E9757	515.3	77.9			ND	ND			ND	ND			ND	ND		
	12/30/2020	140.1	LVWPS-U3-MW13B-INJ	E9965			507.0	0.133			ND	ND			ND	ND			ND	ND
	12/30/2020	140.1	LVWPS-U3-MW13B-INJ-FD	E9758	515.3	87.3			ND	ND			ND	ND			ND	ND		
	12/30/2020	140.1	LVWPS-U3-MW13B-INJ-FD	E9966			507.3	0.299			ND	ND			ND	ND			ND	ND

Notes:

nm - nanometers

conc - concentration

ppb - parts per billion

\*\*A fluorescence peak

--- Not tested

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.

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.