June 8, 2022

Mr. Jason Booth and Mr. Bryan Vasser
On-Scene Coordinators
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Emergency Response Report**
Lakes Parkway Lithium Battery Fire
Lawrenceville, Gwinnett County, Georgia
EPA Contract No.: 68HE0519D0006
Task Order / Task Order Line Item No.: 68HE0419F0082 / 82-035

Dear Mr. Booth and Mr. Vasser:

The Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START) submits this emergency response (ER) letter report summarizing activities to address a lithium-ion battery fire at the Lakes Parkway Lithium Battery Fire site (the site) in Lawrenceville, Gwinnett County, Georgia from December 11, 2021 through March 8, 2022. This report includes six enclosures and two attachments. Enclosure 1 contains figures illustrating the site location, site layout, multimedia sampling locations, and air monitoring locations. Enclosure 2 includes multimedia sampling data summary tables. Enclosure 3 contains daily air monitoring data summary tables. Enclosure 4 contains the photographic log. Enclosure 5 contains the logbook notes. Enclosure 6 includes the Tetra Tech data validation reports. Attachment 1 contains National Response Center (NRC) Report #1324174. Attachment 2 contains the laboratory analytical data packages.

SITE BACKGROUND

On December 7, 2021, the Gwinnett County Fire Department (GCFD) responded to a fire inside the Recytech USA (Recytech) warehouse at 1665 Lakes Parkway, Suite 116, Lawrenceville, Gwinnett County, Georgia. The geographic coordinates of the site are 33.965963 degrees north and 84.055812 degrees west (see Figure 1 in Enclosure 1). The GCFD removed several pallets of smoldering and burning lithium-ion batteries (batteries) to the outside loading dock area at the rear of the building. GCFD spaced the pallets apart to prevent additional arcing between the batteries. Marion Environmental, Inc. (MEI) arrived on site to conduct cleanup activities but were turned away by the responsible party (RP), who assured GCFD they could remediate the problem themselves.

The site, which is in an industrial park, stores and ships electronic waste overseas. It is bordered to the north by residences and to the east, south, and west by commercial businesses (see Figure 2 in Enclosure 1).

On December 9, 2021, GCFD responded to another battery fire at the site. The GCFD notified the NRC (see Attachment 1) and the Georgia Environmental Protection Division (GAEPD). GAEPD notified EPA of the battery fires, which prompted EPA to mobilize On-Scene Coordinator (OSC) Jason Booth to the site.

On December 10, 2021, EPA arrived on site and met with GAEPD, GCFD, and the RP. MEI returned to the site but was unable to secure a contract with the RP. EPA presented a Notice of Federal Interest, a Notice of Federal Assumption, and an access agreement to the RP. After the RP signed the access agreement, EPA mobilized the Emergency Rapid Response Services contractor, Environmental

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Restoration, LLC (ER), to conduct emergency response cleanup activities. ER arrived on site later that afternoon and covered the batteries in the loading dock area with sand and plastic sheeting to prevent further reactivity and suppress smoke. Later that evening, EPA mobilized Tetra Tech START to collect soil and surface water samples from a retention pond impacted by runoff from firefighting activities during multiple responses.

EMERGENCY RESPONSE AND REMOVAL ACTIVITIES

On the morning of December 11, 2021, Tetra Tech START arrived on site and discussed emergency response activities with EPA. EPA and Tetra Tech START conducted a brief site walk and observed the batteries in the loading dock area covered with sand and plastic sheeting. Next to the staged batteries, EPA and Tetra Tech START observed a storm drain where runoff from firefighting activities emptied and deposited into the retention pond located southeast of the Rytech entrance on the eastern side of the site. EPA and Tetra Tech START inspected the retention pond and observed some standing water and minor quantities of fire suppressant pellets. EPA tasked Tetra Tech START to collect soil and surface water samples from the retention pond, including a background sample. Tetra Tech START collected six soil samples and three surface water samples, including quality control samples, from the following locations (see Figure 3 in Enclosure 1):

- Soil sample LLB-SS-L01-121121 and surface water sample LLB-SW-L01-121121, including duplicate samples LLB-SS-L01-121121-DUP and LLB-SW-L01-121121-DUP were collected from an area northeast of the southwestern outfall.
- Soil sample LLB-SS-L02-121121, including a matrix spike and a matrix spike duplicate (MS/MSD) sample, was collected approximately 25 feet west of soil samples LLB-SS-L01-121121 and LLB-SS-L01-121121-DUP.
- Surface water sample LLB-SW-L02-121121, including a matrix spike and a matrix spike duplicate sample, was collected at the southwestern outfall.
- Soil sample LLB-SS-L03-121121 was collected approximately 10 feet north of the southwestern outfall.
- Soil sample LLB-SS-L04-121121 was a background sample collected uphill from the southwestern outfall near the northwestern corner of the 1655 Lakes Parkway loading dock parking area.
- Soil sample LLB-SS-L05-121121 was collected near the southeastern outfall servicing 1655 Lakes Parkway. Tetra Tech START collected the sample from just above the water line after a flash thunderstorm filled the outfall area with water.

On December 13, 2021, ER began placing the individual batteries into plastic bags and stacking the bagged batteries between layers of fire suppressant pellets within 55-gallon steel drums. The drums were sealed and secured inside a conex storage container. EPA requested Tetra Tech START return to the site to collect a 5-point composite sample (LLB-SS-L06-121321) from the sand covering the batteries for disposal purposes (see Figure 3 in Enclosure 1).

On December 14, 2021, ER continued packing the batteries into 55-gallon drums in the same manner as the previous day until the batteries self-ignited in the drums on two separate occasions. After the GCFD extinguished the fires, EPA suspended battery packing operations and decided to pack batteries individually in Department of Transportation (DOT) Packing Group 1 rated pails (DOT pails) to prevent self-ignition and allow for safe transport.

On December 14, 2021, EPA mobilized Tetra Tech START to conduct perimeter air monitoring around the battery packing operation. Tetra Tech START arrived on site and deployed Viper, a remote telemetry system with Honeywell AreaRAE Pros (AreaRAE Pro), at four locations to determine if the smoke contained combustion byproducts that could threaten nearby residents and employees. Each AreaRAE Pro contained sensors to detect carbon monoxide (CO), hydrogen sulfide (H_2S), oxygen (O_2), lower explosive limit (LEL), and gamma radiation, as well as a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs).

Based on proximity to battery packing operations, Tetra Tech START identified and placed an AreaRAE Pro at each of the following locations (see Figure 4 of Enclosure 1):

- Location 1 – Approximately 55 feet north of the loading dock area at the northern fence line of the facility near a residential area
- Location 2 – Northwestern side of operations at the loading dock stairwell of 1675 Lakes Parkway, Suite 101
- Location 3 – Western side of operations at the loading dock stairwell of 1675 Lakes Parkway, Suite 105
- Location 4 – Southwestern side of operations at the loading dock stairwell of 1665 Lakes Parkway, Suite 112

From December 15 through 19, 2021, ER conducted battery packing operations using the DOT pails. ER placed one battery into a plastic bag, placed the bagged battery into a pail, and surrounded it with fire suppressant pellets. ER inventoried, weighed, and labeled each DOT pail with the following information: DOT Class 9 Lithium Battery labels, Dangerous Goods Lithium Battery labels with UN3480 identifier, a Lithium-Ion label, a Damaged/Defective Lithium-Ion Battery label, and an inventory identification label. ER secured the DOT pails inside a conex storage container each day. In addition, ER contracted a group to erect a tent over the batteries covered in sand in the loading dock area to minimize their exposure to the weather.

On December 19, 2021, some of the DOT pails staged in the conex storage container self-ignited and GCFD mobilized to the site to extinguish the fire. EPA and ER suspended battery packing operations.

On December 20, 2021, EPA and ER met with representatives from several battery recycling facilities. Based on those meetings, EPA decided to submerge the batteries in a 0.5 percent sodium chloride brine solution (brine solution) to de-energize them prior to disposal. ER prepared a test brine solution in a 55-gallon steel drum and placed batteries in the solution. EPA requested Tetra Tech START move the AreaRAE Pro from Location 4 to monitor gases potentially released from the test drum during the de-energizing process. Tetra Tech START moved the AreaRAE Pro to the southwestern portion of the battery staging area on the western side of the stationary tractor trailer (Location 5) (see Figure 4 in Enclosure 1).

From December 21 through 23, 2021, ER submerged all batteries at the site into two roll-off containers filled with the brine solution. EPA and Tetra Tech START observed bubbles coming from the batteries in the solution as they were submerged. EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to near the roll-offs to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro south of the battery staging area near the center of the stationary tractor trailer (Location 6) and the other AreaRAE Pro southwest of the battery staging area at the loading dock stairwell of 1665 Lakes Parkway, Suites 114 and 116 (Location 7) (see Figure 4 in Enclosure 1). EPA installed a nitric oxide (NO) sensor in the AreaRAE Pro at Location 6 and a sulfur dioxide (SO_2) and chlorine (Cl_2) sensor in the AreaRAE Pro at Location 7. Also, ER tested

the voltage of select batteries submerged for longer than 12 hours and found that some still carried a charge. EPA and ER decided the batteries would need more time to de-energize in the brine solution. On December 22, 2021, EPA tasked Tetra Tech START to collect a grab wastewater sample (LP-LB-WW-01) of the brine solution for disposal purposes.

On December 23, 2021, EPA tasked Tetra Tech START to monitor for hydrogen chloride (HCl) and hydrogen fluoride (HF) gases using Honeywell SPM Flexes (SPM Flex) fitted with Honeywell SPM Flex mineral acid chemcassette tapes (mineral acid tapes). Tetra Tech START conducted HCl and HF air monitoring on the eastern side of the roll off containers (Location 8) (see Figure 4 in Enclosure 1). EPA, Tetra Tech START, and ER demobilized from the site.

From December 24, 2021 through February 21, 2022, the batteries remained submerged in the two roll-offs. Tetra Tech START continued air monitoring activities at Locations 1, 6, 7, and 8; conducted visual inspections of the roll-offs; and briefed EPA on site changes, as necessary. During this time, EPA applied for and received an Emergency Special Permit from DOT for battery disposal, and ER procured contracts for the disposal of all site wastes, including the batteries. On January 11, 2022, EPA tasked Tetra Tech START to collect a composite wastewater sample (LPLBF-WW-L01-011122) of the brine solution from the two roll-off containers for disposal purposes.

On February 18, 2022, Tetra Tech START moved both SPM Flexes from Location 8 to Location 6 to continue HCl and HF monitoring during battery disposal activities. Location 8 was in front of the roll-off access doors and would have impeded ER from draining and accessing the roll-off container.

From February 22 through March 4, 2022, EPA and ER mobilized to the site to package and dispose of the de-energized batteries. ER pumped the brine solution into 330-gallon intermediate bulk container (IBC) totes to access the batteries for disposal activities. ER randomly selected batteries and tested the voltages of the batteries. The voltages ranged from 0.0 to 0.1 volts across accessible electrodes. ER packaged the batteries pursuant to DOT Special Permits SP-16532 for small batteries and SP-21329 medium and large batteries. ER placed each small battery into individual plastic bags and placed them between layers of fire suppressant pellets in plastic-lined 55-gallon drums. ER placed the medium to large batteries between layers of fire suppressant pellets in fire suppressant-lined 55-gallon drums. A total of 13,414 pounds of batteries were packaged for shipment and disposal. On February 25, 2022, EPA tasked Tetra Tech START to collect a composite waste sample (LPLBF-SL-L01-022522) from the sludge in the northern roll off container for disposal purposes.

On March 4, 2022, Clean Harbors, Inc. (Clean Harbors) arrived on site and removed approximately 6,300 gallons of brine solution from the totes and roll-off containers for transport and disposal as non-hazardous waste. Tetra Tech START completed air monitoring, packed up the air monitoring equipment, and returned it to EPA. On March 8 and March 16, 2022, the batteries were transported to Retriev Technologies, Inc. (RTI) in Lancaster, Ohio for disposal.

MULTIMEDIA SAMPLING AND RESULTS

From December 11, 2021 through February 25, 2022, Tetra Tech START collected soil and surface water samples from a retention pond impacted by runoff from firefighting activities, a waste sample from the sand used to cover the batteries, wastewater samples from the brine solution used to de-energize the batteries, and a waste sludge sample from a roll-off container, including quality control duplicate and MS/MSD samples. Tetra Tech START collected the samples in accordance with EPA Region 4 Laboratory Services and Applied Sciences Division (LSASD) Field Branches Quality System and Technical Procedures (FBQSTP) for *Soil Sampling* (LSASDPROC-300-R4), June 2020, *Surface Water*

Sampling (LSASDPROC-201-R5), December 2021, and *Waste Sampling* (LSASDPROC-302-R4), May 2020.

Tetra Tech START submitted the samples to Analytical Environmental Services, Inc. (AES), in Atlanta, Georgia, for the following analyses:

- Target compound list (TCL) VOCs via EPA SW-846-Method 8260D, *Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)*, for all matrices, except waste sand, and toxic characteristic leaching procedure (TCLP) VOCs via SW-846 Method 1311, *TCLP*, for waste sludge
- TCL semivolatile compounds (SVOCs) via EPA SW-846 Method 8270E, *Semivolatile Organic Compounds by GC/MS*, for all matrices, except waste sand, and TCLP SVOCs via SW-846 Method 1311, for waste sludge
- Total metals via SW-846 Method 6010D, *Inductively Coupled Plasma-Atomic Emission Spectrometry*, for all matrices, and TCLP metals via SW-846 Method 1311 for waste sand and sludge samples
- Total mercury via SW-846 Method 7470A, *Mercury in Liquid Waste (Manual Cold-Vapor Technique)*, for all matrices, except soil and waste sand samples, SW-846 Method 7471B, *Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)*, for wastewater samples, and SW-846 Method 7473, *Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry*, for soil and waste sand samples, and TCLP mercury via SW-846 Method 1311 for waste sand and sludge samples
- Reactive cyanide and reactive sulfide via SW-846 Method 7.3, *Reactivity*, for wastewater samples
- pH via Standard Method (SM) 4500H+B, *pH in Water by Potentiometry*, and SW-846 Method 9045D, *Soil and Waste pH*, for wastewater samples
- Chloride and fluoride ion scan via SW-846 Method 9056A, *Determination of Inorganic Anions by Ion Chromatography*, for wastewater samples
- Flashpoint via SW-846 Method 1010B, *Test Methods for Flash Point by Pensky-Martens Closed Cup Tester*, for wastewater samples
- Total solids via Standard Method SM2540B, *Total Solids Dried at 103-105 degrees Celsius (°C)*, and total suspended solids via SM2540D, *Total Solids Dried at 103-105 °C*, for wastewater samples
- Percent fixed solids and percent total solids via SM2540G, *Total, Fixed, and Volatile Solids in Solid and Semisolid Samples*, for wastewater samples

Tetra Tech conducted a Stage 3 validation of the soil and surface water sampling analytical results and a Stage 2A validation of the waste sampling analytical results. The Tetra Tech data validation reports are contained in Enclosure 6, and the laboratory analytical data packages are contained in Attachment 2.

Tetra Tech START compared the soil and waste sand sampling results to the EPA Removal Management Levels (RMLs) for Chemicals for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022, and the waste sand and sludge results to regulatory levels listed in Title 40 Code of Federal Regulation (CFR) Part 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic, Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 CFR 261.24, Table 1). Comparison criteria for the analytical results

associated with the surface water and wastewater samples was not available. The analytical results are summarized as follows:

- Analytical results for the soil samples detected the presence of TCL VOCs, TCL SVOCs, and total metals, but the results did not exceed the EPA RMLs for industrial soil (see Table 1 in Enclosure 2).
- Analytical results for the surface water samples detected the presence of TCL VOCs and total metals (see Table 2 in Enclosure 2).
- Analytical results for the waste sand samples detected the presence of total and TCLP metals, but the results did not exceed the EPA RMLs for industrial soil or the regulatory levels listed in 40 CFR 261.24, Table 1 (see Table 3 in Enclosure 2).
- Analytical results for the wastewater samples detected the presence of TCL VOCs, TCL SVOCs, and total metals, as well as values for pH, chloride, fluoride, ignitability, percent fixed solids, percent total solids, total suspended solids, and total solids (see Table 4 in Enclosure 2).
- Analytical results of the waste sludge samples detected the presence of TCLP SVOCs and TCLP metals, but the results did not exceed regulatory levels listed in 40 CFR 261.24, Table 1 (see Table 5 in Enclosure 2).

AIR MONITORING RESULTS

From December 14, 2021 through March 4, 2022, Tetra Tech START conducted 24-hour stationary air monitoring at eight locations around the site (see Figure 4 in Enclosure 2) and provided EPA a daily summary table of the air monitoring data. Tetra Tech START compared the air monitoring data to the following criteria:

- Temporary Emergency Exposure Limits (TEELs) representing VOC concentrations for benzene associated with no effects (TEEL-0) over a 15-minute time-weighted average (TWA). TEELs estimate the concentrations at which most people will begin to experience health effects if they are exposed to a hazardous airborne chemical for a given duration.
- EPA Acute Exposure Guideline Levels (AEGL), Level 1 (AEGL-1), 1-hour action levels for Cl_2, HCl, and HF and 8-hour action levels for H_2S and SO_2 refers to the airborne concentration of a substance above which the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic non-sensory effects; however, Level 1 effects are not disabling and are transient and reversible upon cessation of exposure.
- AEGL, Level 2 (AEGL-2), 8-hour action level for CO refers to the airborne concentration of a substance above which the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.
- Protective Action Criteria, Level 1 (PAC-1), 1-hour action levels for NO refers to mild, transient health effects associated with uncontrolled releases of hazardous chemicals.

Summaries of the daily air monitoring data indicated the following (see Enclosure 3):

- VOC concentrations were below the TEEL-0, 15-minute TWA period average for benzene (1,000 parts per billion) during monitoring activities.

- The following analytes were below their respective AEGL-1 and AEGL-2 period average concentrations during monitoring activities: CO (27 ppm), H_2S (0.33 ppm), SO_2 (0.2 ppm), HCl (1.8 ppm), and HF (1 ppm).
- Concentrations of NO at Location 6 were below the PAC-1 period average action level [0.5 parts per million (ppm)], except on December 25 through 31, 2021 (0.7 ppm to 1.3 ppm); January 1, 2022 (1.7 ppm); February 10 through February 12 (0.5 ppm to 0.7 ppm); February 16 (0.6 ppm); February 18 (1.3 ppm); February 23 (0.8 ppm); February 24 (0.9 ppm); February 26 (0.5 ppm); February 28 (1.1 ppm); and March 1 through 3 (0.9 ppm to 1.0 ppm).

Tetra Tech START compared stationary ambient air quality readings for O_2 and LEL to benchmarks specified in the U.S. Department of Labor (DOL), Occupational Safety and Health Administration (OSHA), 29 CFR 1910.146, Permit-required Confined Spaces.

SUMMARY OF RESPONSE ACTIVITIES

From December 10, 2021 through March 18, 2022, EPA and ER conducted emergency response, removal, and disposal activities associated with the lithium-ion battery fire at the Recytech facility in Lawrenceville, Georgia. ER packed the batteries between layers of fire suppressant pellets in 55-gallon drums and DOT pails, but the batteries self-ignited. ER de-energized the batteries in a brine solution from December 21, 2021 through February 22, 2022 and packaged the batteries pursuant to DOT Special Permits SP-16532 for small batteries and SP-21329 medium and large batteries. ER disposed of 6,300 gallons of brine solution as non-hazardous waste via Clean Harbors and 13,414 pounds of batteries via RTI.

From December 11, 2021 through March 4, 2022, Tetra Tech START collected soil and surface water samples from a retention pond impacted by runoff from firefighting activities, collected waste samples (sand, wastewater, and sludge) generated during emergency response and removal activities, and conducted 24-hour air monitoring during emergency response and removal activities. Analytical results indicated the detection of various analytes, but none exceeded the EPA RMLs for industrial soil or regulatory levels listed in 40 CFR 261.24, Table 1. Summaries of air monitoring data indicated an exceedance of the PAC-1 period average action level for NO on 18 occasions, but no analytes exceeded their respective TEEL-0, 15-minute TWA, AEGL-1, and AEGL-2, period average concentrations.

On March 4, 2022, Tetra Tech START demobilized from the site. On March 18, 2022, EPA and ER completed all site activities and demobilized from the site.

If you have any questions or need additional copies of this letter report, please contact me at 678-775-3106.

Sincerely,

Paul E. Prys II
START V Project Manager

Andrew F. Johnson
START V Program Manager

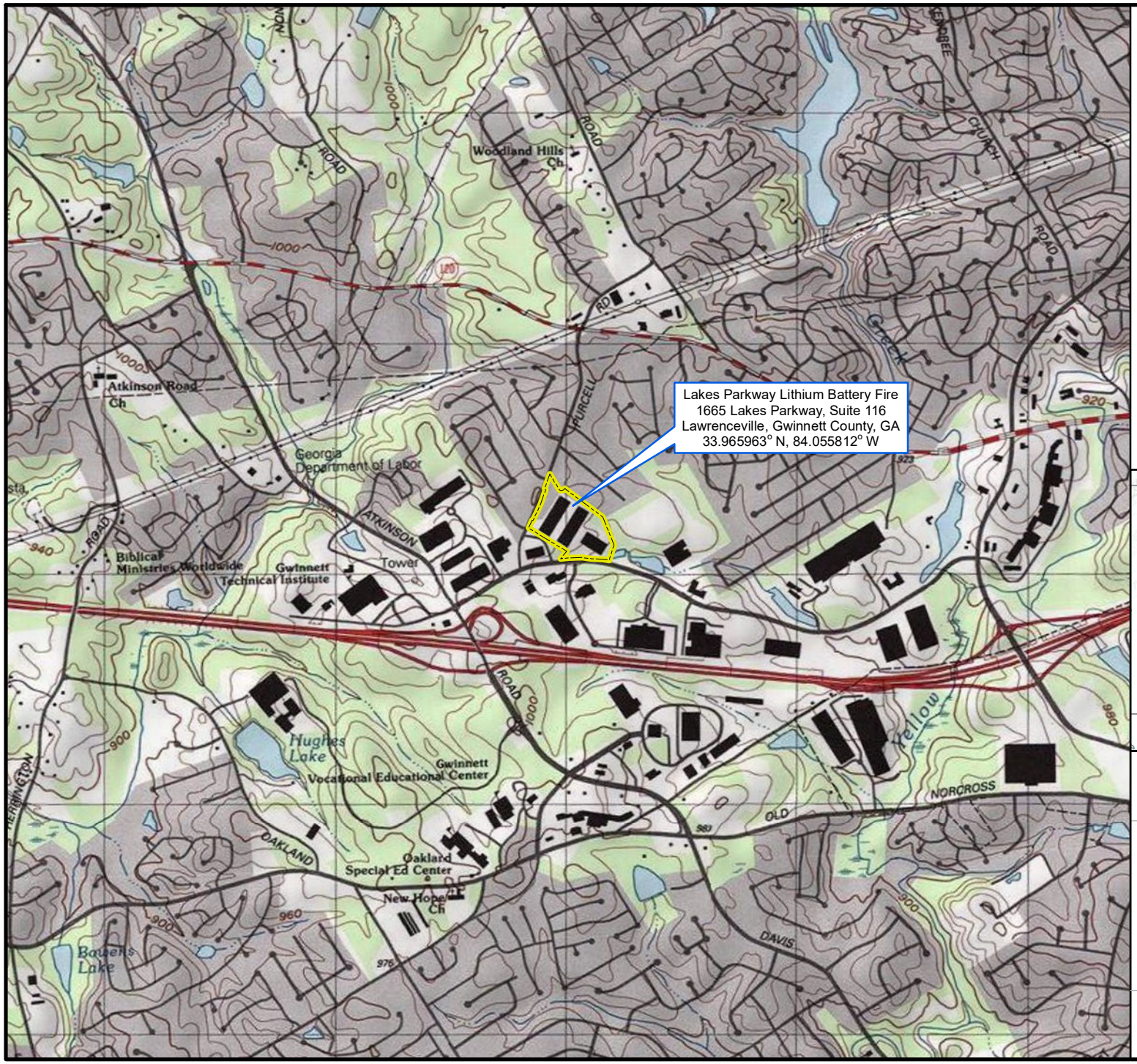
Enclosures (6)
Attachment (2)

cc: Katrina Jones, EPA Project Officer
Angel Reed, START V Document Control Coordinator

ENCLOSURE 1

FIGURES

(Four Pages)



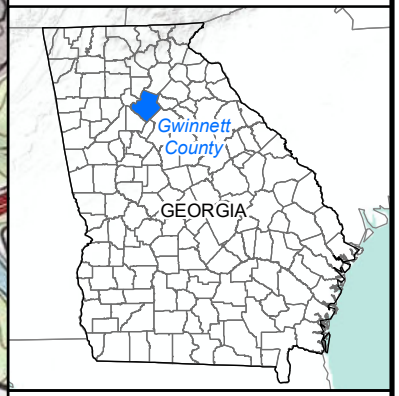
Legend

Site Location

N
W E
S

0 1,000 2,000
Feet

Map Sources:
Gwinnett County, GA GIS, 2022.
USGS 7.5 Minute Topographic Quadrangle Map: Luxomni, GA 1984.



United States Environmental Protection Agency Region 4

FIGURE 1

Site Location

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\site_location.mxd

Legend

- Fire Location
- Site Location / Parcel Boundary
- Stormwater Retention

N
W E
S

0 100 200
Feet

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 2

Site Layout

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\site_layout.mxd

Legend

- Fire Location
- Surface Soil Sample
- Surface Water Sample
- Waste Sample
- Site Location / Parcel Boundary
- Stormwater Retention

N
W E
S

0 40 80
Feet

Notes:
DUP - Duplicate
L## - Sample Location
LLB - Lakes Parkway Lithium Battery Fire
LPLBF - Lakes Parkway Lithium Battery Fire
LP-LB - Lakes Parkway Lithium Battery Fire
SL - Waste sludge
SS - Soil sample
SW - Soil water
WW- Wastewater

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 3

Multimedia Sampling Locations

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/31/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\multimedia_sampling.mxd

Legend

- Air Monitoring Location
- Fire Location
- Site Location / Parcel Boundary

N
W E
S

0 40 80
Feet

Map Sources:
Gwinnett County, GA GIS, 2022,
ESRI Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 4

FIGURE 4

Air Monitoring Locations

Site Name: Lakes Parkway Lithium Battery Fire

TOLIN No.: 82-035

City:	County:	State:
Lawrenceville	Gwinnett	Georgia

TETRA TECH

Date: 5/25/2022
Analyst: dale.vonbusch

File: C:\START_V\82-035_Lakes_Parkway_Lithium_Battery_Fire\mxd\air_monitoring.mxd

ENCLOSURE 2

MULTIMEDIA SAMPLING DATA SUMMARY TABLES

(Seven Pages)

TABLE 1
STAGE 3 VALIDATED ANALYTICAL RESULTS - SOIL SAMPLES

ANALYTE	EPA RML for Industrial Soil	LLB-SS-L01-121121	LLB-SS-L01-121121-DUP	LLB-SS-L02-121121	LLB-SS-L03-121121	LLB-SS-L04-121121	LLB-SS-L05-121121
Total Metals (mg/Kg)							
Aluminum	3,400,000	**6,970**	**10,100**	**3,860**	**4,580**	**4,320**	**8,480**
Antimony	1,400	**22.5**	**13**	**2.54**	**3.83**	0.545 U	0.469 U
Arsenic	300	0.803 U	**1.08 J**	0.451 U	**0.713 J**	0.701 U	**1.5 J**
Barium	650,000	**94.3**	**86.6**	**40.3**	**32.6**	**63.3**	**43.7**
Cadmium	300	**0.238 J**	**0.362 J**	**0.114 J**	0.0958 U	**0.206 J**	**0.209 J**
Calcium	NL	**2,920**	**2,580**	**992**	**636**	**3,860**	**1,370**
Chromium	5,300,000	**12**	**15.3**	**8.79**	**7.99**	**8.54**	**9.19**
Cobalt	1,000	**384**	**110**	**28.1**	**26.1**	**0.941 J**	**1.75 J**
Copper	140,000	**54.1**	**49.9**	**16.3**	**18.1**	**6.01**	**12.8**
Iron	2,500,000	**9,630**	**12,000**	**8,320**	**10,500**	**5,030**	**9,400**
Lead	800	**14.1**	**15.8**	**4.4 J**	**8.08**	**6.26 J**	**12**
Magnesium	NL	**2,790**	**2,910**	**1,180**	**1,180**	**651**	**1,000**
Manganese	77,000	**390**	**298**	**155**	**122**	**582**	**196**
Mercury	140	0.0894 U	0.0867 U	**0.0575 J**	0.0515 U	**0.12 J**	0.0657 U
Nickel	67,000	**158**	**117**	**44.4**	**43.4**	**4.22 J**	**6.44**
Potassium	NL	**2,070**	**1,970**	**1,050**	**894**	**904**	**1210**
Selenium	18,000	**1.35 J**	**1.49 J**	**0.914 J**	**0.504 J**	**1.49 J**	**1.33 J**
Silver	18,000	**0.115 J**	**0.0868 J**	0.0165 U	0.0166 U	**0.0456 J**	0.0221 U
Sodium	NL	**277**	**259**	**130**	**110**	**157**	**127**
Vanadium	17,000	**19.7**	**25.6**	**12.1**	**19.8**	**9.28**	**24.7**
Zinc	1,100,000	**553**	**579**	**241**	**281**	**58.9**	**213**
TCL Volatile Organic Compounds (µg/Kg)							
1,2-Dichloroethane	200,000	7.3 U	**48**	2.3 U	3.4 U	8.9 U	3.8 U
2-Butanone	580,000,000	16 U	13 U	5 U	**26 J**	19 U	8.3 U
4-Methyl-2-pentanone	NL	**20 J**	**17 J**	3 U	**7.7 J**	11 U	4.9 U
Acetone	3,200,000,000	**170 J**	**420**	19 U	**240**	**1300**	**84 J**
Benzene	510,000	**17**	**31**	2.2 U	3.2 U	8.6 U	3.7 U
Carbon disulfide	10,000,000	15 U	**21 J**	4.8 U	6.9 U	18 U	7.8 U
Chloroethane	NL	10 U	**19 J**	3.2 U	4.7 U	12 U	5.3 U
Chloromethane	1,400,000	8.8 U	**29**	2.8 U	4 U	11 U	4.6 U
Ethylbenzene	2,500,000	**17**	**30**	2.1 U	**7.8**	8 U	3.4 U
Isopropylbenzene	NL	7.2 U	**8.2 J**	2.3 U	3.3 U	8.8 U	3.8 U
Methyl acetate	3,500,000,000	**34**	**28**	3.4 U	4.9 U	13 U	5.6 U
Methyl tert-butyl ether	21,000,000	7.1 U	6 U	2.3 U	**16**	8.7 U	3.7 U
o-Xylene	8,400,000	**14 J**	**15**	2.1 U	**6.3 J**	7.9 U	3.4 U
Styrene	100,000,000	**75**	**130**	2 U	**89**	7.6 U	3.2 U
Toluene	140,000,000	**29**	**46**	2.2 U	**4.6 J**	8.3 U	3.6 U

TABLE 1
STAGE 3 VALIDATED ANALYTICAL RESULTS - SOIL SAMPLES

ANALYTE	EPA RML for Industrial Soil	LLB-SS-L01-121121	LLB-SS-L01-121121-DUP	LLB-SS-L02-121121	LLB-SS-L03-121121	LLB-SS-L04-121121	LLB-SS-L05-121121
TCL Semivolatile Organic Compounds (µg/Kg)							
Acenaphthene	140,000,000	110 U	110 U	**140 J**	64 U	90 U	82 U
Anthracene	680,000,000	290 U	**310 J**	**600**	**210 J**	240 U	210 U
Benz(a)anthracene	2,100,000	**2500**	**3300**	**5000**	**2400**	**670**	**1000**
Benzo(a)pyrene	210,000	**4100**	**5400**	**6000**	**2800**	**940**	**1800**
Benzo(b)fluoranthene	2,100,000	**9100**	**10000**	**12000**	**5500**	**2200**	**4500**
Benzo(g,h,i)perylene	NL	**3700**	**4800**	**3300**	**1700**	**640**	**1400**
Benzo(k)fluoranthene	21,000,000	290 U	**2600**	**2500**	170 U	240 U	220 U
Bis(2-ethylhexyl)phthalate	16,000,000	**1400**	**1200**	**250 J**	**99 J**	140 U	**170 J**
Butyl benzyl phthalate	120,000,000	140 U	140 U	82 U	83 U	**1700**	110 U
Caprolactam	1,200,000,000	300 U	**820**	170 U	170 U	240 U	220 U
Carbazole	NL	**510 J**	**730 J**	**930**	**430 J**	290 U	260 U
Chrysene	210,000,000	**5600**	**6700**	**6900**	**3500**	**1200**	**2300**
Dibenz(a,h)anthracene	210,000	**740 J**	**920**	**1000**	**520**	220 U	**380 J**
Fluoranthene	90,000,000	**7100**	**9100**	**14000**	**6100**	**2100**	**3000**
Fluorene	90,000,000	220 U	220 U	**190 J**	130 U	180 U	160 U
Indeno(1,2,3-cd)pyrene	2,100,000	**3200**	**4600**	**2900**	**1800**	**560 J**	**1300**
Naphthalene	860,000	120 U	**220 J**	70 U	71 U	100 U	91 U
Phenanthrene	NL	**2000**	**2600**	**4300**	**1800**	**530 J**	**720**
Phenol	740,000,000	140 U	**1000**	80 U	81 U	110 U	100 U
Pyrene	68,000,000	**6000**	**6800**	**10000**	**4400**	**1500**	**2300**

Notes:

Bold: Indicates analyte was positively identified at the associated value
DUP: Duplicate
EPA: U.S. Environmental Protection Agency
J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
L##: Sample location
LLB: Lakes Parkway Lithium Battery Fire
µg/Kg: Micrograms per kilogram
mg/Kg: Milligrams per kilogram
mmddyy: Month, day, year
NL: Not listed
RML: EPA Removal Management Levels for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022.
SS: Soil sample
TCL: Target compound list
U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

TABLE 2
STAGE 3 VALIDATED ANALYTICAL RESULTS - SURFACE WATER

ANALYTE	LLB-SW-L01-121121	LLB-SW-L01-121121-DUP	LLB-SW-L02-121121
Total Metals (mg/L)			
Aluminum	**0.733**	**0.971**	**1.32**
Antimony	**0.403**	**0.402**	**0.264**
Barium	**0.074**	**0.0761**	**0.0313**
Calcium	**8.49**	**8.51**	**6.12**
Chromium	0.0067 U	**0.0135**	0.0067 U
Cobalt	**1.03**	**1.06**	**0.152**
Copper	**0.0664**	**0.0751**	**0.0501**
Iron	**0.74**	**1.02**	**1.58**
Magnesium	**2.92**	**2.95**	**2.29**
Manganese	**1.6**	**1.6**	**0.261**
Nickel	**0.929**	**0.986**	**0.119**
Potassium	**3.5**	**3.51**	**2.57**
Sodium	**6**	**5.98**	**6.62**
Vanadium	**0.0023 J**	**0.0024 J**	**0.0045 J**
Zinc	**0.294**	**0.307**	**0.2**
TCL Volatile Organic Compounds (µg/L)			
Acetone	**26 J**	**24 J**	**23 J**
Benzene	**0.8 J**	**0.79 J**	0.24 U
Ethylbenzene	**1.3 J**	**1.2 J**	0.24 U
Styrene	**15**	**14**	**1.5 J**
Toluene	**1.7 J**	**1.6 J**	0.66 U
TCL Semivolatile Organic Compounds (µg/L)	ND	ND	ND

Notes:

Bold: Indicates analyte was positively identified at the associated value
DUP: Duplicate
J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
L##: Sample location
LLB: Lakes Parkway Lithium Battery Fire
µg/Kg: Micrograms per kilogram
mg/Kg: Milligrams per kilogram
mmddyy: Month, day, year
ND: Not detected
SW: Soil water
TCL: Target compound list
U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

TABLE 3
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTE SAND

ANALYTE	EPA RML for Industrial Soil	TCLP[1]	LLB-SS-L06-121321
TCLP Metals (mg/L)			
Barium	NA	100	**0.0538 J**
Selenium	NA	1.0	**0.0468 J**
Total Metals (mg/Kg)			
Aluminum	3,400,000	NA	**107**
Antimony	1,400	NA	**1.16 J**
Arsenic	300	NA	**0.546 J**
Barium	650,000	NA	**0.558 J**
Calcium	NL	NA	**22.5 J**
Chromium	5,300,000	NA	**0.764 J**
Cobalt	1,000	NA	**4.79**
Copper	140,000	NA	**1.15 J**
Iron	2,500,000	NA	**315**
Magnesium	NL	NA	**4.42 J**
Manganese	77,000	NA	**4.08**
Nickel	67,000	NA	**11.7**
Potassium	NL	NA	**10.4 J**
Vanadium	17,000	NA	**0.9 J**
Zinc	1,100,000	NA	**0.639 J**

Notes:

Bold: Indicates analyte was positively identified at the associated value

[1]: Analytical results are compared to the regulatory levels listed in Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic, of 40 CFR 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic.

CFR: Code of Federal Regulation

EPA: U.S. Environmental Protection Agency

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

L##: Sample location

LLB: Lakes Parkway Lithium Battery Fire

mg/Kg: Milligrams per kilogram

mg/L: Milligrams per liter

mmddyy: Month, day, year

NA: Not applicable

NL: Not listed

RML: EPA Removal Management Levels for 10^{-4} Risk Level for Carcinogens or a Hazard Quotient of 3 for Non-Carcinogens Management Levels, dated May 2022.

SS: Waste sample

TCLP: Toxicity characteristic leaching procedure

TABLE 4
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTEWATER

ANALYTE	LP-LB-WW-01	LPLBF-WW-L01-011122
TCL Volatile Organic Compounds (µg/Kg & µg/L)[1]		
1,2-Dibromoethane	2500 U	**2.6 J**
2-Butanone	25000 U	**95**
2-Hexanone	5000 U	**4.3 J**
Acetone	25000 U	**200**
Benzene	2500 U	**460**
Bromomethane	2500 U	**130**
Chlorobenzene	2500 U	**2.0 J**
Chloroethane	5000 U	**4.8 J**
Chloroform	2500 U	**3.7 J**
Chloromethane	5000 U	**65**
Ethylbenzene	2500 U	**300**
Isopropylbenzene	2500 U	**20**
m,p-Xylene	2500 U	**20**
o-Xylene	2500 U	**15 J+**
Styrene	2500 U	**2400 J+**
Toluene	2500 U	**480**
TCL Semivolatile Organic Compounds (µg/Kg & µg/L)[1]		
1,1´-Biphenyl	4.6 U	**9.5 J**
2,4-Dimethylphenol	4.6 U	**15 J+**
2-Chlorophenol	100 U	**37 J+**
2-Methylnaphthalene	100 U	**4.6 J**
2-Methylphenol	100 U	**70 J+**
4-Methylphenol	670 U	**490 J+**
Acenaphthylene	100 U	**5.9 J**
Acetophenone	100 U	**100**
Bis(2-ethylhexyl)phthalate	100 U	**11**
Caprolactam	100 U	**72**
Fluorene	100 U	**3.1 J**
Naphthalene	100 U	**41**
Phenanthrene	100 U	**4.5 J**
Phenol	100 U	**3200 J+**
Total Metals (mg/Kg & mg/L)[2]		
Barium	100 U	**0.615**
Cadmium	100 U	**0.0035 J**
Chromium	500 U	**0.304**
Lead	100 U	**0.145**
Silver	100 U	**0.0423**
pH	**8.06 J**	**10.7 J**
Sulfide, Reactive (mg/Kg)	100 U	100 U
Cyanide, Reactive (mg/Kg)	0.980 U	1.00 U
Chloride (mg/L)	**2700**	**2600**
Fluoride (mg/L)	200 U	**90**
Ignitability (°F)	**180 >**	**180 >**
% Fixed Solids (wt%)	**93.2**	NA
% Total Solids (wt%)	**0.430**	NA
Total Suspended Solids (mg/L)	NA	**737**
Total Solids (wt%)	NA	**0.710**

TABLE 4
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTEWATER

Notes:

BOLD

[1]: Analytical units are in ug/Kg for LP-LB-WW-01 and ug/L for LPLBF-WW-L01-011122.

[2]: Analytical units are in mg/Kg for LP-LB-WW-01 and mg/L for LPLBF-WW-L01-011122.

>: Greater than

°F: Degrees Fahrenheit

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

L##: Sample location

LBLPF: Lakes Parkway Lithium Battery Fire

LP-LB: Lakes Parkway Lithium Battery Fire

µg/Kg: Micrograms per kilogram

µg/L: Micrograms per liter

mg/Kg: Milligrams per kilogram

mg/L: Milligrams per liter

NA: Not analyzed

TCL: Target compound list

U: The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

WW: Wastewater

wt%: Percent weight

TABLE 5
STAGE 2A VALIDATED ANALYTICAL RESULTS - WASTE SLUDGE

ANALYTE	TCLP[1]	LPLBF-SL-L01-022522
TCLP Volatile Organic Compounds (mg/L)	**NA**	ND
TCLP Semivolatile Organic Compounds (mg/L)		
m,p-Cresol	200	**0.016 J**
TCLP Metals (mg/L)		
Barium	100	**2.10**
Chromium	5.0	**0.0356 J**
Lead	5.0	**0.266**
Silver	5.0	**0.00345 J**

Notes:

Bold: Indicates analyte was positively identified at the associated value

[1]: Analytical results are compared to the regulatory levels listed in Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic, of 40 CFR 261.24, Identification and Listing of Hazardous Waste, Toxicity Characteristic.

J: The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

L##: Sample location

LPLBF: Lakes Parkway Lithium Battery Fire

mg/L: Milligrams per liter

mmddyy: Month, day, year

NA: Not applicable

NL: Not listed

SL: Waste sludge

TCLP: Toxicity characteristic leaching procedure

ENCLOSURE 3

DAILY AIR MONITORING DATA SUMMARY TABLES

(83 Pages)

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/14/21 5:47 PM** ***To:*** ***12/15/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	23583	22374	0 - 74 ppb	21.3 ppb	1000 ppb
	CO	No	23583	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23583	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23583	23583	20.3 - 20.9 %	20.5 %	<19.5 or >23 %
	LEL	No	23583	0	0 - 0 %	0 %	10 %
	γ	No	23583	23583	1 - 16 µrem/h	3.8 µrem/h	12 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	23585	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	23585	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23585	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	23585	23585	18.5 - 20.9 %	19.2 %	<19.5 or >23 %
	LEL	No	23585	0	0 - 0 %	0 %	10 %
	γ	No	23585	23585	1 - 21 µrem/h	6.5 µrem/h	12 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	23583	23582	6 - 132 ppb	33.1 ppb	1000 ppb
	CO	No	23583	114	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	23583	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23583	23583	19.6 - 20.9 %	20 %	<19.5 or >23 %
	LEL	No	23583	0	0 - 0 %	0 %	10 %
	γ	No	23583	23583	1 - 21 µrem/h	6.8 µrem/h	12 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	23578	4397	0 - 51 ppb	2 ppb	1000 ppb
	CO	No	23578	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	23578	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	23578	23578	19.6 - 20.9 %	20 %	<19.5 or >23 %
	LEL	No	23578	0	0 - 0 %	0 %	10 %
	γ	No	23578	23578	1 - 23 µrem/h	8.2 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/15/21 7:00 AM** ***To:*** ***12/16/21 12:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	29970	368	0 - 199 ppb	0.1 ppb	1000 ppb
	CO	No	29970	19	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	29970	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29970	29970	20.3 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	29970	0	0 - 0 %	0 %	10 %
	γ	No	29970	29970	1 - 16 µrem/h	3.6 µrem/h	12 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	Yes	29976	56	0 - 5203 ppb	1 ppb	1000 ppb
	CO	Yes	29976	5095	0 - 34 ppm	0.8 ppm	27 ppm
	H_2S	Yes	29976	10	0 - 5.8 ppm	0 ppm	0.33 ppm
	O_2	Yes	29976	29976	18.5 - 22.2 %	20.4 %	<19.5 or >23 %
	LEL	Yes	29976	10	0 - 38 %	0 %	10 %
	γ	No	29976	29976	1 - 20 µrem/h	6.3 µrem/h	12 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	29923	10322	0 - 678 ppb	3.8 ppb	1000 ppb
	CO	Yes	29923	3733	0 - 44 ppm	0.7 ppm	27 ppm
	H_2S	No	29923	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29923	29923	19.5 - 21.7 %	20.7 %	<19.5 or >23 %
	LEL	No	29923	0	0 - 0 %	0 %	10 %
	γ	No	29923	29923	1 - 20 µrem/h	6.6 µrem/h	12 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	29968	239	0 - 867 ppb	0.6 ppb	1000 ppb
	CO	No	29968	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	29968	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	29968	29968	19.6 - 20.7 %	20.2 %	<19.5 or >23 %
	LEL	No	29968	0	0 - 0 %	0 %	10 %
	γ	No	29968	29968	1 - 23 µrem/h	8.2 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/16/21 12:00 AM** ***To:*** ***12/16/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	12481	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	12481	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12481	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12481	12481	20.4 - 20.5 %	20.4 %	<19.5 or >23 %
	LEL	No	12481	0	0 - 0 %	0 %	10 %
	γ	No	12481	12481	2 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	12483	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	12483	35	0 - 14 ppm	0 ppm	27 ppm
	H_2S	No	12483	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12483	12483	19.6 - 19.8 %	19.7 %	<19.5 or >23 %
	LEL	No	12483	0	0 - 0 %	0 %	10 %
	γ	No	12483	12483	1 - 17 µrem/h	6.2 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	12480	319	0 - 51 ppb	0.2 ppb	1000 ppb
	CO	No	12480	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12480	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12480	12480	20.4 - 20.4 %	20.4 %	<19.5 or >23 %
	LEL	No	12480	0	0 - 0 %	0 %	10 %
	γ	No	12480	12480	1 - 20 µrem/h	6.9 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	12480	13	0 - 117 ppb	0 ppb	1000 ppb
	CO	No	12480	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	12480	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	12480	12480	20.2 - 20.3 %	20.2 %	<19.5 or >23 %
	LEL	No	12480	0	0 - 0 %	0 %	10 %
	γ	No	12480	12480	1 - 23 µrem/h	8.2 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/16/21 12:43 PM** ***To:*** ***12/17/21 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2072	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2072	4	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	2072	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2072	2072	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2072	0	0 - 0 %	0 %	10 %
	γ	No	2072	2072	1 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	2205	8	0 - 519 ppb	0.8 ppb	1000 ppb
	CO	Yes	2205	327	0 - 48 ppm	1.4 ppm	27 ppm
	H_2S	No	2205	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2205	2205	20.1 - 21.2 %	20.4 %	<19.5 or >23 %
	LEL	No	2205	2	0 - 2 %	0 %	10 %
	γ	No	2205	2205	2 - 20 µrem/h	6.2 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	2200	17	0 - 122 ppb	0.3 ppb	1000 ppb
	CO	Yes	2200	180	0 - 44 ppm	0.8 ppm	27 ppm
	H_2S	No	2200	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2200	2200	20.5 - 20.9 %	20.7 %	<19.5 or >23 %
	LEL	No	2200	0	0 - 0 %	0 %	10 %
	γ	No	2200	2200	1 - 20 µrem/h	6.8 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	2205	27	0 - 666 ppb	1.7 ppb	1000 ppb
	CO	No	2205	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2205	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2205	2205	20.4 - 20.9 %	20.6 %	<19.5 or >23 %
	LEL	No	2205	0	0 - 0 %	0 %	10 %
	γ	No	2205	2205	1 - 14 µrem/h	8.1 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/17/21 7:00 AM** ***To:*** ***12/18/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2251	3	0 - 798 ppb	0.4 ppb	1000 ppb
	CO	Yes	2255	8	0 - 29 ppm	0 ppm	27 ppm
	H_2S	Yes	2255	3	0 - 8.4 ppm	0 ppm	0.33 ppm
	O_2	Yes	2255	2255	18.3 - 20.9 %	20.5 %	<19.5 or >23 %
	LEL	Yes	2255	37	0 - 19 %	0 %	10 %
	γ	No	2255	2255	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	2745	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	2745	722	0 - 44 ppm	2 ppm	27 ppm
	H_2S	No	2745	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2745	2745	20.1 - 22 %	20.9 %	<19.5 or >23 %
	LEL	No	2745	0	0 - 0 %	0 %	10 %
	γ	No	2745	2745	1 - 12 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	2735	2	0 - 104 ppb	0 ppb	1000 ppb
	CO	Yes	2735	434	0 - 154 ppm	1.4 ppm	27 ppm
	H_2S	Yes	2735	1	0 - 0.6 ppm	0 ppm	0.33 ppm
	O_2	No	2735	2735	20.4 - 21.5 %	20.9 %	<19.5 or >23 %
	LEL	No	2735	0	0 - 0 %	0 %	10 %
	γ	No	2735	2735	1 - 17 µrem/h	6.5 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	Yes	2752	65	0 - 1535 ppb	11.1 ppb	1000 ppb
	CO	No	2752	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2752	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2752	2752	20.4 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	2752	0	0 - 0 %	0 %	10 %
	γ	No	2752	2752	2 - 14 µrem/h	8 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/18/21 7:00 AM** ***To:*** ***12/19/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2949	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2949	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2949	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2949	2949	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2949	478	0 - 2 %	0.3 %	10 %
	γ	No	2949	2949	2 - 14 µrem/h	3 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	Yes	2956	29	0 - 2855 ppb	5.6 ppb	1000 ppb
	CO	Yes	2956	432	0 - 51 ppm	1.3 ppm	27 ppm
	H_2S	No	2956	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2956	2956	20.4 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	2956	0	0 - 0 %	0 %	10 %
	γ	No	2956	2956	1 - 18 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	Yes	2956	18	0 - 3827 ppb	5.1 ppb	1000 ppb
	CO	Yes	2956	334	0 - 45 ppm	1 ppm	27 ppm
	H_2S	No	2956	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2956	2956	20.6 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	2956	2275	0 - 3 %	1.5 %	10 %
	γ	No	2956	2956	1 - 19 µrem/h	6.7 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	2951	2	0 - 716 ppb	0.3 ppb	1000 ppb
	CO	No	2951	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2951	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2951	2951	20.5 - 20.9 %	20.7 %	<19.5 or >23 %
	LEL	No	2951	0	0 - 0 %	0 %	10 %
	γ	No	2951	2951	3 - 12 µrem/h	8.1 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/19/21 7:00 AM** ***To:*** ***12/20/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2959	6	0 - 443 ppb	0.4 ppb	1000 ppb
	CO	No	2959	4	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	2959	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2959	2959	20.2 - 20.5 %	20.4 %	<19.5 or >23 %
	LEL	No	2959	0	0 - 0 %	0 %	10 %
	γ	No	2959	2959	2 - 9 µrem/h	3.4 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	2934	1	0 - 23 ppb	0 ppb	1000 ppb
	CO	Yes	2934	570	0 - 36 ppm	1.4 ppm	27 ppm
	H_2S	No	2934	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2934	2934	18.7 - 21.6 %	19.9 %	<19.5 or >23 %
	LEL	No	2934	0	0 - 0 %	0 %	10 %
	γ	No	2934	2934	2 - 12 µrem/h	6.1 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	2772	22	0 - 470 ppb	0.9 ppb	1000 ppb
	CO	Yes	2772	455	0 - 50 ppm	1.4 ppm	27 ppm
	H_2S	Yes	2772	3	0 - 10.4 ppm	0 ppm	0.33 ppm
	O_2	Yes	2772	2772	17.4 - 20.9 %	20 %	<19.5 or >23 %
	LEL	Yes	234	43	0 - 12 %	0.5 %	10 %
	γ	No	2772	2772	1 - 12 µrem/h	6.6 µrem/h	9 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	2957	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2957	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2957	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2957	2957	19.7 - 20.5 %	20.1 %	<19.5 or >23 %
	LEL	No	2957	0	0 - 0 %	0 %	10 %
	γ	No	2957	2957	1 - 10 µrem/h	8 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 1-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/20/21 7:00 AM** ***To:*** ***12/21/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2951	1	0 - 102 ppb	0 ppb	1000 ppb
	CO	No	2951	2	0 - 11 ppm	0 ppm	27 ppm
	H_2S	Yes	2951	1	0 - 0.4 ppm	0 ppm	0.33 ppm
	O_2	No	2951	2951	20 - 20.4 %	20.2 %	<19.5 or >23 %
	LEL	No	2951	1	0 - 2 %	0 %	10 %
	γ	No	2951	2951	2 - 14 µrem/h	2.6 µrem/h	6 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	2812	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	2812	501	0 - 42 ppm	1.4 ppm	27 ppm
	H_2S	No	2812	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2812	2812	18.6 - 28 %	20.4 %	<19.5 or >23 %
	LEL	No	2812	0	0 - 0 %	0 %	10 %
	γ	Yes	2812	2812	2 - 12 µrem/h	6.1 µrem/h	6 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	2983	18	0 - 968 ppb	1.1 ppb	1000 ppb
	CO	Yes	2983	268	0 - 34 ppm	0.5 ppm	27 ppm
	H_2S	No	2983	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2983	2983	19.3 - 20.4 %	19.7 %	<19.5 or >23 %
	LEL	No	0	0	0 - 0 %	%	10 %
	γ	Yes	2983	2983	1 - 15 µrem/h	6.4 µrem/h	6 µrem/h

Location 4 - Southwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	No	868	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	868	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	868	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	868	868	19.6 - 20.2 %	19.8 %	<19.5 or >23 %
	LEL	No	868	0	0 - 0 %	0 %	10 %
	γ	Yes	868	868	6 - 13 µrem/h	8 µrem/h	6 µrem/h

Location 5 - Southwest of Staging Area on Western Side of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 5	VOC	No	4198	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2099	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	4198	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2099	2099	19.7 - 20.4 %	19.9 %	<19.5 or >23 %
	LEL	No	2099	0	0 - 0 %	0 %	10 %
	γ	Yes	2099	2099	2 - 9 µrem/h	4.6 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/21/21 7:00 AM** ***To:*** ***12/22/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	2945	1	0 - 47 ppb	0 ppb	1000 ppb
	CO	No	2945	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2945	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2945	2945	20.1 - 20.2 %	20.2 %	<19.5 or >23 %
	LEL	No	2945	0	0 - 0 %	0 %	10 %
	γ	No	2945	2945	2 - 3 µrem/h	2.6 µrem/h	9 µrem/h

Location 2 - Northwestern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	570	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	Yes	570	102	0 - 32 ppm	1.3 ppm	27 ppm
	H_2S	No	570	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	570	570	19.1 - 26 %	22.2 %	<19.5 or >23 %
	LEL	No	570	0	0 - 0 %	0 %	10 %
	γ	No	570	570	2 - 9 µrem/h	5.9 µrem/h	9 µrem/h

Location 3 - Western Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	Yes	624	16	0 - 1822 ppb	4 ppb	1000 ppb
	CO	Yes	624	70	0 - 34 ppm	1.3 ppm	27 ppm
	H_2S	No	624	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	624	624	19.4 - 23.1 %	21.6 %	<19.5 or >23 %
	γ	No	624	624	1 - 10 µrem/h	6.4 µrem/h	9 µrem/h

Location 5 - Southwest of Staging Area on Western Side of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 5	VOC	No	2260	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1130	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2260	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1130	1130	19.7 - 20 %	19.8 %	<19.5 or >23 %
	LEL	No	1130	0	0 - 0 %	0 %	10 %
	γ	Yes	1130	1130	4 - 10 µrem/h	4.8 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 6	VOC	Yes	6282	2198	0 - 1656 ppb	4.2 ppb	1000 ppb
	CO	No	3141	5	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	6282	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3141	3141	7.1 - 21.8 %	21.2 %	<19.5 or >23 %
	LEL	No	3141	0	0 - 0 %	0 %	10 %
	NO	Yes	3141	40	0 - 15.4 ppm	0 ppm	0.5 ppm
	γ	Yes	3141	3141	2 - 9 µrem/h	6.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 7	VOC	No	4590	4250	0 - 630 ppb	14 ppb	1000 ppb
	CO	No	2295	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	Yes	4590	8	0 - 0.9 ppm	0 ppm	0.33 ppm
	O_2	Yes	2295	2280	0 - 22.7 %	20.4 %	<19.5 or >23 %
	SO_2	Yes	2295	16	0 - 5 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2295	370	0 - 10.8 ppm	0 ppm	0.5 ppm
	γ	No	2295	2295	2 - 7 µrem/h	5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/22/21 7:00 AM** ***To:*** ***12/23/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	3069	2	0 - 158 ppb	0.1 ppb	1000 ppb
	CO	No	3069	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3069	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3069	3069	19.9 - 20.6 %	20.2 %	<19.5 or >23 %
	LEL	No	3069	0	0 - 0 %	0 %	10 %
	γ	No	3069	3069	2 - 8 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 6	VOC	No	6118	66	0 - 281 ppb	0.3 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	6118	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3059	3059	19.1 - 22.3 %	20.8 %	<19.5 or >23 %
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	No	3059	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	2 - 11 µrem/h	6.5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 7	VOC	No	6152	4240	0 - 72 ppb	6.3 ppb	1000 ppb
	CO	No	3076	9	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	6152	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	3076	3076	17.5 - 40.9 %	21.5 %	<19.5 or >23 %
	SO_2	Yes	3076	1610	0 - 0.4 ppm	0.1 ppm	0.2 ppm
	Cl_2	No	3076	2345	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3076	3076	2 - 6 µrem/h	5 µrem/h	12 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/23/21 7:00 AM** ***To:*** ***12/24/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3053	8	0 - 513 ppb	0.3 ppb	1000 ppb
	CO	No	3053	31	0 - 12 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3053	3053	20 - 20.7 %	20.3 %	<19.5 or >23 %
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	γ	No	3053	3053	3 - 16 µrem/h	3.9 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	1709	0 - 620 ppb	9 ppb	1000 ppb
	CO	No	3039	3	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	525	525	10.2 - 30 %	21.7 %	<19.5 or >23 %
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	1094	0 - 0.8 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	2 - 21 µrem/h	6.9 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3050	2162	0 - 66 ppb	27.1 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	538	538	17.3 - 22.5 %	20.7 %	<19.5 or >23 %
	SO_2	No	3050	230	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3050	1107	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3050	3050	3 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	19548	120	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4321	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/24/21 7:00 AM** ***To:*** ***12/25/21 6:57 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3055	1	0 - 22 ppb	0 ppb	1000 ppb
	CO	No	3055	10	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3055	3055	20 - 20.7 %	20.4 %	<19.5 or >23 %
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	γ	No	3055	3055	2 - 4 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3047	1946	0 - 55 ppb	9.9 ppb	1000 ppb
	CO	No	3047	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3047	0	0 - 0 %	0 %	10 %
	NO	Yes	3047	2113	0 - 1.1 ppm	0.3 ppm	0.5 ppm
	γ	No	3047	3047	1 - 10 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3059	3059	16 - 133 ppb	45 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3059	194	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3059	527	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	4 - 12 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26350	51	0 - 0.2 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	2189	175	0 - 0.3 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/25/21 7:00 AM** ***To:*** ***12/26/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	1	0 - 3 ppb	0 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	3041	0	0 - 0 %	0 %	10 %
	γ	No	3041	3041	2 - 9 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3035	1922	0 - 1802 ppb	8 ppb	1000 ppb
	CO	No	3035	1	0 - 12 ppm	0 ppm	27 ppm
	H_2S	No	3035	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3035	0	0 - 0 %	0 %	10 %
	NO	Yes	3035	3021	0 - 1.7 ppm	0.9 ppm	0.5 ppm
	γ	No	3035	3035	2 - 14 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	3049	9 - 145 ppb	28.4 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	199	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	2	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	4 - 12 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	25577	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	13013	72	0 - 0.1 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/26/21 7:00 AM** ***To:*** ***12/27/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2935	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2935	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2935	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2935	2935	20.4 - 20.7 %	20.5 %	<19.5 or >23 %
	LEL	No	580	0	0 - 0 %	0 %	10 %
	γ	No	2935	2935	1 - 4 µrem/h	3.2 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2930	2103	0 - 445 ppb	20.2 ppb	1000 ppb
	CO	No	2930	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2930	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2930	0	0 - 0 %	0 %	10 %
	NO	Yes	2930	2876	0 - 1.8 ppm	0.7 ppm	0.5 ppm
	γ	No	2930	2930	1 - 22 µrem/h	6.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2909	1958	0 - 65 ppb	19.4 ppb	1000 ppb
	CO	No	2909	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2909	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2909	194	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2863	4	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	2909	2909	1 - 18 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	4577	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	1324	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/27/21 7:00 AM** ***To:*** ***12/28/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3011	1	0 - 11 ppb	0 ppb	1000 ppb
	CO	No	3011	4	0 - 25 ppm	0 ppm	27 ppm
	H_2S	No	3011	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3011	3011	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	2557	0	0 - 0 %	0 %	10 %
	γ	No	3011	3011	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3040	1478	0 - 37 ppb	5.3 ppb	1000 ppb
	CO	No	3040	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3040	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3040	0	0 - 0 %	0 %	10 %
	NO	Yes	3040	3040	0.1 - 2.7 ppm	1.2 ppm	0.5 ppm
	γ	No	3040	3040	2 - 21 µrem/h	6.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2993	80	0 - 33 ppb	0.2 ppb	1000 ppb
	CO	No	2993	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2993	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2993	9	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2993	7	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2993	2993	4 - 18 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	20055	26	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	1457	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 8-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 8-hr
HF	Hydrogen Flouride	AEGL-1, 8-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/28/21 7:00 AM** ***To:*** ***12/29/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.5 - 20.6 %	20.5 %	<19.5 or >23 %
	LEL	No	3051	0	0 - 0 %	0 %	10 %
	γ	No	3051	3051	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	1425	0 - 52 ppb	5.4 ppb	1000 ppb
	CO	No	3056	5	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	3056	0.3 - 2.5 ppm	1.3 ppm	0.5 ppm
	γ	No	3056	3056	1 - 18 µrem/h	6.7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3048	19	0 - 13 ppb	0 ppb	1000 ppb
	CO	No	3048	206	0 - 18 ppm	0.3 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3048	4	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3048	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3048	3048	2 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26446	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	402	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/29/21 7:00 AM** ***To:*** ***12/30/21 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	983	0 - 25 ppb	1.8 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	LEL	No	3041	1	0 - 2 %	0 %	10 %
	γ	No	3041	3041	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	805	0 - 241 ppb	1 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	3056	0.4 - 2.5 ppm	1.3 ppm	0.5 ppm
	γ	No	3056	3056	2 - 11 µrem/h	6.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3029	2	0 - 33 ppb	0 ppb	1000 ppb
	CO	No	3029	60	0 - 18 ppm	0.1 ppm	27 ppm
	H_2S	No	3029	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3029	19	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3029	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3029	3029	4 - 9 µrem/h	5.2 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	19543	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	16	8	0 - 0.5 ppm	0.1 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/30/21 7:00 AM** ***To:*** ***12/31/21 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3080	2919	0 - 91 ppb	15.1 ppb	1000 ppb
	CO	No	3080	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3080	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3080	3080	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	3080	0	0 - 0 %	0 %	10 %
	γ	No	3080	3080	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3071	933	0 - 302 ppb	2.5 ppb	1000 ppb
	CO	No	3071	2	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3071	0	0 - 0 %	0 %	10 %
	NO	Yes	3071	3062	0 - 1.3 ppm	0.8 ppm	0.5 ppm
	γ	No	3071	3071	1 - 11 µrem/h	7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3085	165	0 - 186 ppb	0.6 ppb	1000 ppb
	CO	No	3085	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3085	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3085	37	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3085	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3085	3085	3 - 10 µrem/h	5.3 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	21843	21	0 - 0.1 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	6836	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **12/31/21 7:00 AM** ***To:*** ***1/1/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	336	0 - 59 ppb	3.5 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	3041	0	0 - 0 %	0 %	10 %
	γ	No	3041	3041	2 - 3 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3055	1458	0 - 491 ppb	9.9 ppb	1000 ppb
	CO	No	3055	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	NO	Yes	3055	3050	0 - 1.6 ppm	1 ppm	0.5 ppm
	γ	No	3055	3055	1 - 10 µrem/h	6.5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3046	86	0 - 275 ppb	1.7 ppb	1000 ppb
	CO	No	3046	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3046	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3046	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3046	1	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3046	3046	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26248	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15527	344	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/1/22 7:00 AM** ***To:*** ***1/2/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3059	2	0 - 75 ppb	0 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3059	3059	20.9 - 21.3 %	21.1 %	<19.5 or >23 %
	LEL	No	1239	0	0 - 0 %	0 %	10 %
	γ	No	3059	3059	2 - 14 µrem/h	2.6 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3053	1825	0 - 18242 ppb	17.6 ppb	1000 ppb
	CO	Yes	3053	7	0 - 57 ppm	0.1 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	3053	0.6 - 3.5 ppm	1.7 ppm	0.5 ppm
	γ	No	3053	3053	1 - 11 µrem/h	6.3 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3054	2	0 - 61 ppb	0 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3054	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3054	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3054	3054	5 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26294	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15910	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/2/22 7:00 AM** ***To:*** ***1/3/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3057	1174	0 - 44 ppb	8.3 ppb	1000 ppb
	CO	No	3057	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3057	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3057	3057	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3057	3057	2 - 6 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3053	713	0 - 129 ppb	3.5 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	707	0 - 1.7 ppm	0.2 ppm	0.5 ppm
	γ	No	3053	3053	3 - 11 µrem/h	7.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3054	475	0 - 11 ppb	0.6 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3054	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3054	899	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3054	3054	1 - 10 µrem/h	5.4 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	331	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	20824	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/3/22 7:00 AM** ***To:*** ***1/4/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3027	2341	0 - 128 ppb	19.8 ppb	1000 ppb
	CO	No	3027	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3027	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3027	3027	20.4 - 20.9 %	20.7 %	<19.5 or >23 %
	γ	No	3027	3027	1 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3022	451	0 - 16 ppb	0.4 ppb	1000 ppb
	CO	No	3022	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3022	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3022	0	0 - 0 %	0 %	10 %
	NO	Yes	3022	268	0 - 0.8 ppm	0 ppm	0.5 ppm
	γ	No	3022	3022	1 - 21 µrem/h	6.4 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3016	112	0 - 9 ppb	0.1 ppb	1000 ppb
	CO	No	3016	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3016	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3016	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3016	1947	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3016	3016	3 - 9 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	45	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	11993	0	0 - 0 ppm	0 ppm	1 ppm
SPM Flex 6	HCl	No	1087	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/4/22 7:00 AM** ***To:*** ***1/5/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3053	2000	0 - 125 ppb	9.9 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3053	3053	20.4 - 21.3 %	20.9 %	<19.5 or >23 %
	γ	No	3053	3053	2 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3049	214	0 - 20 ppb	0.1 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3049	0	0 - 0 %	0 %	10 %
	NO	No	3049	2	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	1 - 18 µrem/h	6.3 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3063	1	0 - 5 ppb	0 ppb	1000 ppb
	CO	No	3063	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3063	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3063	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3063	604	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3063	3063	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1515	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	3918	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/5/22 7:00 AM** ***To:*** ***1/6/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	1884	0 - 427 ppb	12 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.9 - 21.4 %	21 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	2954	0 - 58 ppb	15.7 ppb	1000 ppb
	CO	No	3039	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	835	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	2 - 17 µrem/h	5.4 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3030	7	0 - 21 ppb	0 ppb	1000 ppb
	CO	No	3030	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3030	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3030	35	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3030	79	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3030	3030	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1507	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14899	318	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/6/22 7:00 AM** ***To:*** ***1/7/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3071	2301	0 - 129 ppb	14 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3071	3071	20.3 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3071	3071	2 - 7 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3058	2041	0 - 47 ppb	6.2 ppb	1000 ppb
	CO	No	3058	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3058	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3058	0	0 - 0 %	0 %	10 %
	NO	Yes	3058	899	0 - 0.5 ppm	0.1 ppm	0.5 ppm
	γ	No	3058	3058	3 - 8 µrem/h	5.1 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3074	9	0 - 25 ppb	0 ppb	1000 ppb
	CO	No	3074	2	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3074	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3074	10	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3074	503	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3074	3074	3 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1510	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14439	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/7/22 7:00 AM** ***To:*** ***1/8/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	1784	0 - 117 ppb	5.9 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.1 - 21.3 %	20.7 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 7 µrem/h	3.7 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	9	0 - 165 ppb	0.1 ppb	1000 ppb
	CO	No	3056	4	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	No	3056	158	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3056	3056	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3042	1	0 - 13 ppb	0 ppb	1000 ppb
	CO	No	3042	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3042	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3042	3	0 - 0.4 ppm	0 ppm	0.2 ppm
	Cl_2	No	3042	765	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3042	3042	4 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1505	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	19248	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/8/22 7:00 AM** ***To:*** ***1/9/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3061	1728	0 - 123 ppb	5.2 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3061	3061	20.4 - 21.4 %	20.9 %	<19.5 or >23 %
	γ	No	3061	3061	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3051	2073	0 - 23 ppb	8.9 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3051	0	0 - 0 %	0 %	10 %
	NO	Yes	3051	523	0 - 0.9 ppm	0.1 ppm	0.5 ppm
	γ	No	3051	3051	3 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3071	2	0 - 526 ppb	0.2 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3071	3	0 - 0.6 ppm	0 ppm	0.2 ppm
	Cl_2	No	3071	200	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	3071	3071	3 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1494	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	9760	223	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/9/22 7:00 AM** ***To:*** ***1/10/22 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3071	2020	0 - 249 ppb	7.4 ppb	1000 ppb
	CO	No	3071	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3071	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3071	3071	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3071	3071	2 - 6 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3068	3018	0 - 62 ppb	17.6 ppb	1000 ppb
	CO	No	3068	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3068	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3068	0	0 - 0 %	0 %	10 %
	NO	Yes	3068	1160	0 - 0.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3068	3068	1 - 7 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3078	1	0 - 5 ppb	0 ppb	1000 ppb
	CO	No	3078	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3078	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3078	23	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3078	73	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3078	3078	2 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	21815	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/10/22 7:00 AM** ***To:*** ***1/11/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2983	1005	0 - 141 ppb	2.4 ppb	1000 ppb
	CO	No	2983	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2983	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2983	2983	20.7 - 21.6 %	21 %	<19.5 or >23 %
	γ	No	2983	2983	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2995	790	0 - 62 ppb	1.6 ppb	1000 ppb
	CO	No	2995	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2995	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2995	0	0 - 0 %	0 %	10 %
	NO	Yes	2995	647	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2995	2995	2 - 6 µrem/h	4.4 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2961	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2961	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2961	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2961	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2961	192	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2961	2961	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1510	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4249	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/11/22 7:00 AM** ***To:*** ***1/12/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	1765	0 - 78 ppb	11.2 ppb	1000 ppb
	CO	No	3050	1	0 - 3 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 21.5 %	20.9 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3054	2551	0 - 50 ppb	13.8 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3054	0	0 - 0 %	0 %	10 %
	NO	Yes	3054	574	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3054	3054	4 - 10 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	1	0 - 37 ppb	0 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3049	1	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	180	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27317	1862	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/12/22 7:00 AM** ***To:*** ***1/13/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3047	1912	0 - 164 ppb	14.5 ppb	1000 ppb
	CO	No	3047	7	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3047	3047	20.4 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	3047	3047	2 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3038	2664	0 - 49 ppb	22.9 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3038	0	0 - 0 %	0 %	10 %
	NO	Yes	3038	770	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	3038	3038	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3043	1	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	3043	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3043	2	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3043	140	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3043	3043	3 - 17 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27457	8	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/13/22 7:00 AM** ***To:*** ***1/14/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	3025	1740	0 - 76 ppb	10.6 ppb	1000 ppb
	CO	No	3025	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3025	3025	20.5 - 21.3 %	20.9 %	<19.5 or >23 %
	γ	No	3025	3025	1 - 4 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	3025	3025	14 - 81 ppb	35.1 ppb	1000 ppb
	CO	No	3025	17	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3025	0	0 - 0 %	0 %	10 %
	NO	Yes	3025	1023	0 - 1.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3025	3025	5 - 11 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	3028	5	0 - 32 ppb	0 ppb	1000 ppb
	CO	No	3028	10	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3028	3	0 - 0.3 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	98	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	4 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 4	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	17084	233	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/14/22 7:00 AM** ***To:*** ***1/15/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2052	1703	0 - 39 ppb	21.4 ppb	1000 ppb
	CO	No	2052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2052	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2052	2052	20.9 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	2052	2052	2 - 4 µrem/h	3.6 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2051	2051	12 - 59 ppb	32.4 ppb	1000 ppb
	CO	No	2051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2051	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2051	0	0 - 0 %	0 %	10 %
	NO	No	2051	180	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2051	2051	5 - 14 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2057	661	0 - 11 ppb	1.3 ppb	1000 ppb
	CO	No	2057	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2057	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2057	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2057	30	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2057	2057	4 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1505	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	3559	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/15/22 7:00 AM** ***To:*** ***1/16/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3062	3052	0 - 203 ppb	20.8 ppb	1000 ppb
	CO	No	3062	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3062	3062	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3062	3062	1 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3059	3059	5 - 38 ppb	23.8 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	No	3059	56	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3059	3059	2 - 15 µrem/h	5.2 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3033	959	0 - 26 ppb	4 ppb	1000 ppb
	CO	No	3033	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3033	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3033	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3033	94	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3033	3033	3 - 12 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1509	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	12583	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/16/22 7:00 AM** ***To:*** ***1/17/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3031	3031	7 - 47 ppb	26.6 ppb	1000 ppb
	CO	No	3031	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3031	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3031	3031	20.4 - 20.5 %	20.4 %	<19.5 or >23 %
	γ	No	3031	3031	1 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3031	3031	1 - 23 ppb	14.7 ppb	1000 ppb
	CO	No	3031	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3031	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3031	0	0 - 0 %	0 %	10 %
	NO	No	3031	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3031	3031	1 - 8 µrem/h	5.3 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3028	2905	0 - 27 ppb	10.4 ppb	1000 ppb
	CO	No	3028	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3028	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	126	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	2 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1407	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/17/22 7:00 AM** ***To:*** ***1/18/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3049	1508	0 - 147 ppb	3.7 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3049	3049	20.4 - 20.6 %	20.5 %	<19.5 or >23 %
	γ	No	3049	3049	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3052	391	0 - 49 ppb	0.8 ppb	1000 ppb
	CO	No	3052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3052	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3052	0	0 - 0 %	0 %	10 %
	NO	No	3052	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3052	3052	4 - 17 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3028	399	0 - 8 ppb	0.3 ppb	1000 ppb
	CO	No	3028	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3028	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3028	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3028	556	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3028	3028	4 - 5 µrem/h	4.8 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26560	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/18/22 7:00 AM** ***To:*** ***1/19/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3038	1592	0 - 28 ppb	7.7 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3038	3038	20.4 - 21.5 %	20.9 %	<19.5 or >23 %
	γ	No	3038	3038	1 - 10 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3038	1369	0 - 65 ppb	7.9 ppb	1000 ppb
	CO	No	3038	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3038	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3038	0	0 - 0 %	0 %	10 %
	NO	Yes	3038	658	0 - 1.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3038	3038	3 - 10 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3025	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3025	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3025	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3025	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3025	431	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3025	3025	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1519	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14500	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/19/22 7:00 AM** ***To:*** ***1/20/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	816	0 - 27 ppb	2.9 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 21.5 %	21 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3059	2340	0 - 99 ppb	31.9 ppb	1000 ppb
	CO	No	3059	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3059	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3059	0	0 - 0 %	0 %	10 %
	NO	Yes	3059	1133	0 - 2.3 ppm	0.3 ppm	0.5 ppm
	γ	No	3059	3059	3 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3048	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3048	11	0 - 8 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3048	2	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3048	18	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3048	3048	4 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1496	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27252	42	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/20/22 7:00 AM** ***To:*** ***1/21/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	3019	0 - 33 ppb	12.5 ppb	1000 ppb
	CO	No	3041	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 5 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3026	3019	0 - 113 ppb	41 ppb	1000 ppb
	CO	No	3026	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3026	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3026	0	0 - 0 %	0 %	10 %
	NO	No	3026	7	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3026	3026	3 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3016	1755	0 - 49 ppb	24.3 ppb	1000 ppb
	CO	No	3016	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3016	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3016	1738	0 - 0.2 ppm	0.1 ppm	0.2 ppm
	Cl_2	No	3016	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3016	3016	4 - 6 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	12542	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/21/22 7:00 AM** ***To:*** ***1/22/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	Yes	3044	676	0 - 2411 ppb	13.3 ppb	1000 ppb
	CO	Yes	3044	41	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	Yes	3044	4	0 - 11.1 ppm	0 ppm	0.33 ppm
	O_2	Yes	3044	3042	0 - 22.1 %	20.9 %	<19.5 or >23 %
	γ	No	3044	3044	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2996	579	0 - 980 ppb	4.3 ppb	1000 ppb
	CO	Yes	2996	6	0 - 50 ppm	0 ppm	27 ppm
	H_2S	Yes	2996	4	0 - 10.1 ppm	0 ppm	0.33 ppm
	LEL	Yes	2996	5	0 - 50 %	0 %	10 %
	NO	Yes	2996	181	0 - 1.4 ppm	0 ppm	0.5 ppm
	γ	No	2996	2996	4 - 17 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2965	389	0 - 313 ppb	5.3 ppb	1000 ppb
	CO	Yes	2965	11	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	Yes	2965	14	0 - 11.7 ppm	0 ppm	0.33 ppm
	SO_2	Yes	2965	274	0 - 8 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2965	2369	0 - 10.1 ppm	0.1 ppm	0.5 ppm
	γ	No	2965	2965	3 - 6 µrem/h	4.9 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	2524	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	4395	46	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/22/22 7:00 AM** ***To:*** ***1/23/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3062	17	0 - 226 ppb	0.1 ppb	1000 ppb
	CO	No	3062	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3062	3062	20.9 - 21.7 %	21.1 %	<19.5 or >23 %
	γ	No	3062	3062	1 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2825	21	0 - 607 ppb	0.5 ppb	1000 ppb
	CO	No	2825	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2825	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2825	0	0 - 0 %	0 %	10 %
	NO	No	2825	152	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	2825	2825	4 - 7 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2810	1	0 - 28 ppb	0 ppb	1000 ppb
	CO	No	2810	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2810	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2810	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2810	2676	0 - 0.3 ppm	0.2 ppm	0.5 ppm
	γ	No	2810	2810	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	25926	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	11770	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/23/22 7:00 AM** ***To:*** ***1/24/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	8	0 - 209 ppb	0.1 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.9 - 21.7 %	21.2 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 5 µrem/h	3.4 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3061	7	0 - 1568 ppb	0.8 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3061	0	0 - 0 %	0 %	10 %
	NO	Yes	3061	145	0 - 0.9 ppm	0 ppm	0.5 ppm
	γ	No	3061	3061	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3052	3	0 - 164 ppb	0.1 ppb	1000 ppb
	CO	No	3052	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3052	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	Yes	3052	2	0 - 0.2 ppm	0 ppm	0.2 ppm
	Cl_2	No	3052	2136	0 - 0.3 ppm	0.1 ppm	0.5 ppm
	γ	No	3052	3052	4 - 12 µrem/h	4.9 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26566	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	14030	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/24/22 7:00 AM** ***To:*** ***1/25/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3048	207	0 - 422 ppb	1.2 ppb	1000 ppb
	CO	No	3048	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3048	3048	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3048	3048	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	2090	0 - 598 ppb	39.6 ppb	1000 ppb
	CO	No	3039	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3039	0	0 - 0 %	0 %	10 %
	NO	Yes	3039	269	0 - 2.7 ppm	0.1 ppm	0.5 ppm
	γ	No	3039	3039	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3037	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3037	3	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	3037	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3037	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3037	667	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3037	3037	4 - 5 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26564	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	15690	102	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/25/22 7:00 AM** ***To:*** ***1/26/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3039	139	0 - 427 ppb	0.5 ppb	1000 ppb
	CO	No	3039	1	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3039	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3039	3039	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3039	3039	2 - 15 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3056	2714	0 - 358 ppb	48.7 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3056	0	0 - 0 %	0 %	10 %
	NO	Yes	3056	371	0 - 1.8 ppm	0.1 ppm	0.5 ppm
	γ	No	3056	3056	2 - 8 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3036	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3036	9	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3036	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3036	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3036	455	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3036	3036	2 - 14 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	26561	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	16461	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/26/22 7:00 AM** ***To:*** ***1/27/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3074	176	0 - 334 ppb	0.5 ppb	1000 ppb
	CO	No	3074	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3074	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3074	3074	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3074	3074	2 - 4 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3073	413	0 - 501 ppb	1.1 ppb	1000 ppb
	CO	No	3073	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3073	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3073	0	0 - 0 %	0 %	10 %
	NO	Yes	3073	209	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3073	3073	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2121	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2121	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2121	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2121	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2121	1139	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	γ	No	2121	2121	2 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	16954	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	8034	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/27/22 7:00 AM** ***To:*** ***1/28/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3056	343	0 - 253 ppb	0.7 ppb	1000 ppb
	CO	No	3056	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3056	3056	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3056	3056	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3047	1981	0 - 486 ppb	15.8 ppb	1000 ppb
	CO	No	3047	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3047	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3047	0	0 - 0 %	0 %	10 %
	NO	Yes	3047	183	0 - 1.1 ppm	0 ppm	0.5 ppm
	γ	No	3047	3047	2 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3049	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	731	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	3 - 5 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1183	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	25998	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/28/22 7:00 AM** ***To:*** ***1/29/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2926	274	0 - 204 ppb	0.5 ppb	1000 ppb
	CO	No	2926	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2926	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2926	2926	20.9 - 21.5 %	21.2 %	<19.5 or >23 %
	γ	No	2926	2926	2 - 5 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2924	781	0 - 387 ppb	3.3 ppb	1000 ppb
	CO	No	2924	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2924	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2924	0	0 - 0 %	0 %	10 %
	NO	No	2924	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	2924	2924	4 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2930	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2930	46	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	2930	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2930	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2930	1428	0 - 0.2 ppm	0.1 ppm	0.5 ppm
	γ	No	2930	2930	4 - 8 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26235	13	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/29/22 7:00 AM** ***To:*** ***1/30/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3088	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3088	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3088	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3088	3088	20.9 - 21.6 %	21.1 %	<19.5 or >23 %
	γ	No	3088	3088	3 - 19 µrem/h	3.7 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3073	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3073	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3073	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3073	0	0 - 0 %	0 %	10 %
	NO	No	3073	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3073	3073	4 - 8 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3105	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3105	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3105	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3105	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3105	3105	0.1 - 0.3 ppm	0.2 ppm	0.5 ppm
	γ	No	3105	3105	3 - 9 µrem/h	4.7 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1507	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	26906	103	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/30/22 7:00 AM** ***To:*** ***1/31/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3069	456	0 - 77 ppb	0.8 ppb	1000 ppb
	CO	No	3069	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3069	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3069	3069	20.9 - 21.7 %	21.3 %	<19.5 or >23 %
	γ	No	3069	3069	2 - 5 µrem/h	3.8 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3065	2037	0 - 540 ppb	21.3 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3065	0	0 - 0 %	0 %	10 %
	NO	Yes	3065	184	0 - 1 ppm	0 ppm	0.5 ppm
	γ	No	3065	3065	4 - 12 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3051	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3051	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3051	717	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3051	3051	3 - 7 µrem/h	4.9 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27394	210	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **1/31/22 7:00 AM** ***To:*** ***2/1/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	113	0 - 21 ppb	0.3 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.9 - 21.6 %	21.3 %	<19.5 or >23 %
	γ	No	3051	3051	2 - 7 µrem/h	3.8 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3050	2279	0 - 71 ppb	15.9 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3050	0	0 - 0 %	0 %	10 %
	NO	No	3050	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3050	3050	5 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3049	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3049	20	0 - 8 ppm	0 ppm	27 ppm
	H_2S	No	3049	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3049	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3049	186	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3049	3049	4 - 7 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1492	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27303	746	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/1/22 7:00 AM** ***To:*** ***2/2/22 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3048	240	0 - 146 ppb	0.4 ppb	1000 ppb
	CO	No	3048	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3048	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3048	3048	21.1 - 21.7 %	21.4 %	<19.5 or >23 %
	γ	No	3048	3048	2 - 4 µrem/h	3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3039	1264	0 - 91 ppb	13.7 ppb	1000 ppb
	CO	No	3039	2	0 - 4 ppm	0 ppm	27 ppm
	H_2S	Yes	3039	2	0 - 0.4 ppm	0 ppm	0.33 ppm
	LEL	No	3039	2	0 - 3 %	0 %	10 %
	NO	Yes	3039	354	0 - 3.1 ppm	0.2 ppm	0.5 ppm
	γ	No	3039	3039	2 - 11 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3032	6	0 - 60 ppb	0.1 ppb	1000 ppb
	CO	No	3032	139	0 - 14 ppm	0.2 ppm	27 ppm
	H_2S	No	3032	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3032	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	3032	14	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	3032	3032	4 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1496	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27314	1	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/2/22 7:00 AM** ***To:*** ***2/3/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3051	1103	0 - 34 ppb	4.2 ppb	1000 ppb
	CO	No	3051	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3051	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3051	3051	20.9 - 21.5 %	21.3 %	<19.5 or >23 %
	γ	No	3051	3051	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3061	486	0 - 30 ppb	1.8 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3061	0	0 - 0 %	0 %	10 %
	NO	No	3061	324	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	3061	3061	3 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3053	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3053	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3053	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	3053	3053	3 - 7 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27322	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/3/22 7:00 AM** ***To:*** ***2/4/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3043	81	0 - 165 ppb	0.2 ppb	1000 ppb
	CO	No	3043	1	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3043	3043	21.3 - 21.5 %	21.4 %	<19.5 or >23 %
	γ	No	3043	3043	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3029	10	0 - 350 ppb	0.3 ppb	1000 ppb
	CO	No	3029	28	0 - 11 ppm	0 ppm	27 ppm
	H_2S	No	3029	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3029	0	0 - 0 %	0 %	10 %
	NO	Yes	3029	98	0 - 1.1 ppm	0 ppm	0.5 ppm
	γ	No	3029	3029	4 - 8 µrem/h	5.2 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3041	1	0 - 19 ppb	0 ppb	1000 ppb
	CO	No	3041	229	0 - 16 ppm	0.4 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3041	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3041	91	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	3041	3041	2 - 6 µrem/h	5 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1502	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27334	217	0 - 0.1 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/4/22 7:00 AM** ***To:*** ***2/5/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3077	52	0 - 8 ppb	0 ppb	1000 ppb
	CO	No	3077	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3077	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3077	3077	20.9 - 21.5 %	21.2 %	<19.5 or >23 %
	γ	No	3077	3077	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	1	0 - 6 ppb	0 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	No	3044	11	0 - 0.2 ppm	0 ppm	0.5 ppm
	γ	No	3044	3044	4 - 9 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3067	971	0 - 23 ppb	1.3 ppb	1000 ppb
	CO	No	3067	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3067	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3067	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3067	2919	0 - 0.6 ppm	0.3 ppm	0.5 ppm
	γ	No	3067	3067	1 - 13 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1494	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27359	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/5/22 7:00 AM** ***To:*** ***2/6/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3068	2	0 - 308 ppb	0.1 ppb	1000 ppb
	CO	No	3068	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3068	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3068	3068	20.9 - 21.6 %	21.1 %	<19.5 or >23 %
	γ	No	3068	3068	2 - 4 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3055	9	0 - 334 ppb	0.3 ppb	1000 ppb
	CO	No	3055	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3055	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3055	0	0 - 0 %	0 %	10 %
	NO	Yes	3055	514	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3055	3055	4 - 17 µrem/h	4.9 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3056	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3056	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3056	3056	0.2 - 0.6 ppm	0.4 ppm	0.5 ppm
	γ	No	3056	3056	3 - 5 µrem/h	4.4 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1512	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27214	856	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/6/22 7:00 AM** ***To:*** ***2/7/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3056	1	0 - 17 ppb	0 ppb	1000 ppb
	CO	No	3056	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3056	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3056	3056	20.9 - 21.6 %	21.2 %	<19.5 or >23 %
	γ	No	3056	3056	2 - 4 µrem/h	2.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3045	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3045	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3045	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3045	0	0 - 0 %	0 %	10 %
	NO	Yes	3045	635	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3045	3045	4 - 17 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3061	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3061	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3061	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3061	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3061	3061	0.2 - 0.5 ppm	0.3 ppm	0.5 ppm
	γ	No	3061	3061	1 - 10 µrem/h	4.6 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1497	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/7/22 7:00 AM** ***To:*** ***2/8/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3044	3	0 - 229 ppb	0.1 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3044	3044	21.1 - 21.4 %	21.3 %	<19.5 or >23 %
	γ	No	3044	3044	2 - 4 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	29	0 - 239 ppb	0.2 ppb	1000 ppb
	CO	No	3044	1	0 - 2 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	Yes	3044	82	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	3044	3044	2 - 7 µrem/h	5 µrem/h	6 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3018	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3018	4	0 - 9 ppm	0 ppm	27 ppm
	H_2S	No	3018	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3018	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3018	2989	0 - 0.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3018	3018	4 - 10 µrem/h	4.8 µrem/h	6 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1479	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	23441	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/8/22 7:00 AM** ***To:*** ***2/9/22 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3065	628	0 - 27 ppb	1.4 ppb	1000 ppb
	CO	No	3065	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3065	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3065	3065	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3065	3065	2 - 4 µrem/h	3.1 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3053	1	0 - 9 ppb	0 ppb	1000 ppb
	CO	No	3053	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3053	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3053	0	0 - 0 %	0 %	10 %
	NO	Yes	3053	712	0 - 3.2 ppm	0.3 ppm	0.5 ppm
	γ	No	3053	3053	4 - 17 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3062	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3062	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	3062	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3062	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3062	2999	0 - 0.4 ppm	0.2 ppm	0.5 ppm
	γ	No	3062	3062	4 - 9 µrem/h	4.8 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1487	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27423	409	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/9/22 7:00 AM** ***To:*** ***2/10/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3103	972	0 - 167 ppb	3.6 ppb	1000 ppb
	CO	No	3103	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3103	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3103	3103	20.9 - 21.8 %	21.3 %	<19.5 or >23 %
	γ	No	3103	3103	2 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	3095	85	0 - 1300 ppb	1.2 ppb	1000 ppb
	CO	No	3095	1	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	3095	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3095	0	0 - 0 %	0 %	10 %
	NO	Yes	3095	787	0 - 3.5 ppm	0.4 ppm	0.5 ppm
	γ	No	3095	3095	2 - 12 µrem/h	5.3 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	1635	3	0 - 17 ppb	0 ppb	1000 ppb
	CO	No	1635	56	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	1635	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1635	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	1635	1104	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	1635	1635	3 - 6 µrem/h	4.8 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1514	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27401	124	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/10/22 7:00 AM** ***To:*** ***2/11/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3174	968	0 - 68 ppb	3.4 ppb	1000 ppb
	CO	No	3174	15	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3174	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3174	3174	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3174	3174	2 - 5 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3170	401	0 - 27 ppb	0.9 ppb	1000 ppb
	CO	No	3170	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3170	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3170	0	0 - 0 %	0 %	10 %
	NO	Yes	3170	909	0 - 4 ppm	0.5 ppm	0.5 ppm
	γ	No	3170	3170	1 - 17 µrem/h	5.6 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	0	0	0 - 0 ppb	ppb	1000 ppb
	CO	No	0	0	0 - 0 ppm	ppm	27 ppm
	H_2S	No	0	0	0 - 0 ppm	ppm	0.33 ppm
	SO_2	No	0	0	0 - 0 ppm	ppm	0.2 ppm
	Cl_2	No	0	0	0 - 0 ppm	ppm	0.5 ppm
	γ	Yes	0	0	0 - 0 µrem/h	µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1504	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27330	787	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/11/22 7:00 AM** ***To:*** ***2/12/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3161	1341	0 - 61 ppb	6.1 ppb	1000 ppb
	CO	No	3161	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3161	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3161	3161	20.9 - 21.8 %	21.4 %	<19.5 or >23 %
	γ	No	3161	3161	2 - 15 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3161	1995	0 - 135 ppb	23.4 ppb	1000 ppb
	CO	No	3161	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3161	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3161	0	0 - 0 %	0 %	10 %
	NO	Yes	3161	948	0 - 4.6 ppm	0.5 ppm	0.5 ppm
	γ	No	3161	3161	4 - 31 µrem/h	6.3 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1491	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27348	7	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/12/22 7:00 AM** ***To:*** ***2/13/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3037	1355	0 - 44 ppb	3.9 ppb	1000 ppb
	CO	No	3037	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3037	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3037	3037	20.6 - 21.2 %	20.9 %	<19.5 or >23 %
	γ	No	3037	3037	2 - 12 µrem/h	3.9 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3077	2849	0 - 249 ppb	60.8 ppb	1000 ppb
	CO	No	3077	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3077	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3077	0	0 - 0 %	0 %	10 %
	NO	Yes	3077	933	0 - 8.7 ppm	0.7 ppm	0.5 ppm
	γ	No	3077	3077	2 - 14 µrem/h	5.1 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2538	9	0 - 4 ppb	0 ppb	1000 ppb
	CO	No	2538	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2538	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2538	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2538	1968	0 - 1.1 ppm	0.2 ppm	0.5 ppm
	γ	No	2538	2538	1 - 5 µrem/h	5 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1498	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27379	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/13/22 7:00 AM** ***To:*** ***2/14/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3041	779	0 - 57 ppb	2 ppb	1000 ppb
	CO	No	3041	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3041	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3041	3041	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3041	3041	2 - 5 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3044	1379	0 - 141 ppb	11.8 ppb	1000 ppb
	CO	No	3044	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3044	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3044	0	0 - 0 %	0 %	10 %
	NO	Yes	3044	523	0 - 4.4 ppm	0.3 ppm	0.5 ppm
	γ	No	3044	3044	3 - 7 µrem/h	4.8 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3040	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3040	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3040	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3040	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3040	3040	0.2 - 0.5 ppm	0.3 ppm	0.5 ppm
	γ	No	3040	3040	2 - 6 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1512	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27374	48	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/14/22 7:00 AM** ***To:*** ***2/15/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3050	1124	0 - 104 ppb	9.1 ppb	1000 ppb
	CO	No	3050	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3050	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3050	3050	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3050	3050	2 - 6 µrem/h	3.5 µrem/h	12 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3043	2165	0 - 541 ppb	45.2 ppb	1000 ppb
	CO	No	3043	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3043	0	0 - 0 %	0 %	10 %
	NO	Yes	3043	630	0 - 5.8 ppm	0.4 ppm	0.5 ppm
	γ	No	3043	3043	4 - 12 µrem/h	4.8 µrem/h	12 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3043	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3043	47	0 - 14 ppm	0.1 ppm	27 ppm
	H_2S	No	3043	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3043	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3043	3043	0.1 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	3043	3043	1 - 6 µrem/h	4.8 µrem/h	12 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1509	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27301	103	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/15/22 7:00 AM** ***To:*** ***2/16/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3054	1118	0 - 59 ppb	4.2 ppb	1000 ppb
	CO	No	3054	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3054	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	3054	3054	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	3054	3054	2 - 6 µrem/h	3.2 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3067	2207	0 - 124 ppb	33.8 ppb	1000 ppb
	CO	No	3067	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3067	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3067	0	0 - 0 %	0 %	10 %
	NO	Yes	3067	785	0 - 5.4 ppm	0.4 ppm	0.5 ppm
	γ	No	3067	3067	4 - 14 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	3066	1	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	3066	13	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	3066	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3066	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	3066	2288	0 - 0.4 ppm	0.1 ppm	0.5 ppm
	γ	No	3066	3066	4 - 5 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27296	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/16/22 7:00 AM** ***To:*** ***2/17/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	1651	515	0 - 226 ppb	6.3 ppb	1000 ppb
	CO	No	1651	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1651	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1651	1651	20.7 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	1651	1651	2 - 4 µrem/h	2.6 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	1639	1639	15 - 242 ppb	98.4 ppb	1000 ppb
	CO	No	1639	3	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	1639	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1639	0	0 - 0 %	0 %	10 %
	NO	Yes	1639	928	0 - 2.4 ppm	0.6 ppm	0.5 ppm
	γ	No	1639	1639	3 - 16 µrem/h	4.7 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	1650	2	0 - 1 ppb	0 ppb	1000 ppb
	CO	No	1650	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1650	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1650	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	1650	532	0 - 0.7 ppm	0 ppm	0.5 ppm
	γ	No	1650	1650	1 - 12 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1487	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	24725	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/17/22 7:00 AM** ***To:*** ***2/18/22 6:58 AM***

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1497	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	27361	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/18/22 7:00 AM** ***To:*** ***2/19/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	398	0	0 - 208 ppb	42.1 ppb	1000 ppb
	CO	No	398	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	398	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	398	398	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	398	398	3 - 4 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	404	0	17 - 169 ppb	83 ppb	1000 ppb
	CO	No	404	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	404	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	404	0	0 - 0 %	0 %	10 %
	NO	Yes	404	269	0 - 6.8 ppm	1.3 ppm	0.5 ppm
	γ	No	404	404	4 - 7 µrem/h	5 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	402	0	0 - 6 ppb	0.5 ppb	1000 ppb
	CO	No	402	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	402	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	402	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	402	402	0.2 - 0.4 ppm	0.3 ppm	0.5 ppm
	γ	No	402	402	4 - 8 µrem/h	4.7 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1362	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	Yes	19093	66	0 - 20 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/19/22 7:00 AM** ***To:*** ***2/20/22 6:58 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 1	VOC	No	1881	0	0 - 41 ppb	8 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	1881	1881	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	1881	1881	2 - 6 µrem/h	3.4 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 2	VOC	No	1881	0	9 - 460 ppb	74 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1881	0	0 - 0 %	0 %	10 %
	NO	Yes	1881	304	0 - 9 ppm	0.3 ppm	0.5 ppm
	γ	No	1881	1881	4 - 21 µrem/h	5.2 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 3	VOC	No	1881	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1881	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1881	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	1881	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	1881	1881	0.1 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	1881	1881	4 - 9 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 4	HCl	No	1493	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	Yes	9069	52	0 - 20 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/20/22 7:00 AM** ***To:*** ***2/21/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2874	0	0 - 316 ppb	3.6 ppb	1000 ppb
	CO	No	2874	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2874	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2874	2874	20.5 - 20.9 %	20.8 %	<19.5 or >23 %
	γ	No	2874	2874	2 - 14 µrem/h	3.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2870	0	0 - 1117 ppb	63.5 ppb	1000 ppb
	CO	No	2870	1	0 - 12 ppm	0 ppm	27 ppm
	H_2S	Yes	2870	0	0 - 1.1 ppm	0 ppm	0.33 ppm
	LEL	No	2870	1	0 - 6 %	0 %	10 %
	NO	Yes	2870	763	0 - 4.8 ppm	0.4 ppm	0.5 ppm
	γ	No	2870	2870	3 - 18 µrem/h	5.4 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2867	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2867	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2867	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2867	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2867	2474	0 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	No	2867	2867	4 - 18 µrem/h	4.7 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	514	0	0 - 0 ppm	0 ppm	1.8 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/21/22 7:00 AM** ***To:*** ***2/22/22 7:00 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2875	0	0 - 25 ppb	1.1 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2875	2875	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	2875	2875	1 - 6 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2875	0	46 - 261 ppb	149.3 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2875	0	0 - 0 %	0 %	10 %
	NO	No	2875	327	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2875	2875	3 - 6 µrem/h	5.1 µrem/h	9 µrem/h

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 3	VOC	No	2875	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2875	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2875	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2875	720	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2875	2875	1 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
SPM Flex 4	HCl	No	1490	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 5	HF	No	867	0	0 - 0 ppm	0 ppm	1 ppm

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/22/22 7:00 AM** ***To:*** ***2/23/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2868	0	0 - 65 ppb	0 ppb	1000 ppb
	CO	No	2868	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2868	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	2868	2868	20.7 - 20.9 %	20.9 %	<19.5 or >23 %
	γ	No	2868	2868	2 - 14 µrem/h	2.5 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2863	0	69 - 206 ppb	144.2 ppb	1000 ppb
	CO	No	2863	47	0 - 9 ppm	0.1 ppm	27 ppm
	H_2S	No	2863	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2863	0	0 - 0 %	0 %	10 %
	NO	Yes	2863	1029	0 - 0.9 ppm	0.2 ppm	0.5 ppm
	γ	No	2863	2863	4 - 6 µrem/h	5 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1479	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2866	0	0 - 6 ppb	0 ppb	1000 ppb
	CO	Yes	2866	48	0 - 50 ppm	0.1 ppm	27 ppm
	H_2S	No	2866	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2866	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	No	2866	143	0 - 0.3 ppm	0 ppm	0.5 ppm
	γ	No	2866	2866	4 - 5 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/23/22 7:00 AM** ***To:*** ***2/24/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	697	0	0 - 316 ppb	1.6 ppb	1000 ppb
	CO	Yes	697	8	0 - 50 ppm	0.3 ppm	27 ppm
	H_2S	No	624	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	697	697	18 - 20.9 %	20.6 %	<19.5 or >23 %
	γ	No	697	697	2 - 6 µrem/h	2.9 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2857	0	23 - 1451 ppb	191.6 ppb	1000 ppb
	CO	No	2857	34	0 - 11 ppm	0 ppm	27 ppm
	H_2S	No	2857	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2857	0	0 - 0 %	0 %	10 %
	NO	Yes	2857	1434	0 - 8.9 ppm	0.8 ppm	0.5 ppm
	γ	No	2857	2857	3 - 28 µrem/h	5.6 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1504	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2848	0	0 - 67 ppb	0.1 ppb	1000 ppb
	CO	No	2848	61	0 - 11 ppm	0.1 ppm	27 ppm
	H_2S	No	2848	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2848	2	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2848	164	0 - 0.4 ppm	0 ppm	0.5 ppm
	γ	No	2848	2848	4 - 6 µrem/h	4.9 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/24/22 7:00 AM** ***To:*** ***2/25/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	No	24	24	20.2 - 22.5 %	21.2 %	<19.5 or >23 %
	LEL	No	24	5	0 - 3 %	0.5 %	10 %
	γ	No	24	24	2 - 5 µrem/h	2.5 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2862	0	0 - 7598 ppb	218.1 ppb	1000 ppb
	CO	No	2862	6	0 - 15 ppm	0 ppm	27 ppm
	H_2S	No	2862	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2862	0	0 - 0 %	0 %	10 %
	NO	Yes	2862	1593	0 - 7.9 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2862	2862	4 - 40 µrem/h	6.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1495	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1498	1	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2854	0	0 - 435 ppb	0.6 ppb	1000 ppb
	CO	No	2854	77	0 - 7 ppm	0.1 ppm	27 ppm
	H_2S	No	2854	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2854	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2854	748	0 - 1 ppm	0 ppm	0.5 ppm
	γ	No	2854	2854	3 - 17 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/25/22 7:00 AM** ***To:*** ***2/26/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	24	24	18.7 - 22.4 %	20.4 %	<19.5 or >23 %
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2867	0	0 - 472 ppb	39.9 ppb	1000 ppb
	CO	No	2867	5	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	2867	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2867	0	0 - 0 %	0 %	10 %
	NO	Yes	2867	766	0 - 2.4 ppm	0.2 ppm	0.5 ppm
	γ	No	2867	2867	3 - 9 µrem/h	5.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1506	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	1491	0	0 - 0 ppm	0 ppm	1 ppm

Location 7 - Southwest of Staging Area at Suites 114 & 116 Loading Dock Stairwell							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2854	0	0 - 301 ppb	1.5 ppb	1000 ppb
	CO	No	2854	5	0 - 5 ppm	0 ppm	27 ppm
	H_2S	No	2854	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2854	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2854	1719	0 - 1.4 ppm	0.1 ppm	0.5 ppm
	γ	No	2854	2854	4 - 6 µrem/h	5 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/26/22 7:00 AM** ***To:*** ***2/27/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	O_2	Yes	2	2	18.7 - 19.1 %	18.9 %	<19.5 or >23 %
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2873	0	0 - 5875 ppb	23.7 ppb	1000 ppb
	CO	No	2873	13	0 - 16 ppm	0 ppm	27 ppm
	H_2S	No	2873	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	805	0 - 4.2 ppm	0.5 ppm	0.5 ppm
	γ	No	2873	2873	4 - 13 µrem/h	5.3 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	1473	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	528	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2870	0	0 - 971 ppb	2.6 ppb	1000 ppb
	CO	No	2870	7	0 - 18 ppm	0 ppm	27 ppm
	H_2S	No	2870	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2870	5	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2870	691	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2870	2870	4 - 18 µrem/h	5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/27/22 7:00 AM** ***To:*** ***2/28/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	24	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	24	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	24	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	24	0	0 - 0 %	0 %	10 %
	γ	No	24	24	2 - 3 µrem/h	2.4 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2877	0	0 - 70 ppb	10 ppb	1000 ppb
	CO	No	2877	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2877	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2877	0	0 - 0 %	0 %	10 %
	NO	No	2877	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	2877	2877	2 - 10 µrem/h	5.1 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1499	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	305	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2876	0	0 - 6 ppb	2.7 ppb	1000 ppb
	CO	No	2876	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2876	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2876	3	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	No	2876	990	0 - 0.1 ppm	0 ppm	0.5 ppm
	γ	No	2876	2876	4 - 5 µrem/h	4.9 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **2/28/22 7:00 AM** ***To:*** ***3/1/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	1956	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	1956	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	1956	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	1956	0	0 - 0 %	0 %	10 %
	γ	No	1956	1956	2 - 4 µrem/h	2.2 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2872	0	0 - 3690 ppb	44 ppb	1000 ppb
	CO	No	2872	1	0 - 4 ppm	0 ppm	27 ppm
	H_2S	No	2872	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2872	0	0 - 0 %	0 %	10 %
	NO	Yes	2872	859	0 - 13.4 ppm	1.1 ppm	0.5 ppm
	γ	Yes	2872	2872	4 - 80 µrem/h	7 µrem/h	6 µrem/h
SPM Flex 2	HCl	No	1490	0	0 - 0 ppm	0 ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2851	0	0 - 435 ppb	3.6 ppb	1000 ppb
	CO	No	2851	5	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	2851	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2851	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2851	1794	0 - 1.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2851	2851	3 - 17 µrem/h	4.8 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/1/22 7:00 AM** ***To:*** ***3/2/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2875	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2875	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	Yes	2875	0	0 - 0.5 ppm	0 ppm	0.33 ppm
	LEL	No	2875	0	0 - 0 %	0 %	10 %
	γ	No	2875	2875	2 - 5 µrem/h	2.3 µrem/h	6 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	2873	0	0 - 611 ppb	40.7 ppb	1000 ppb
	CO	No	2873	152	0 - 5 ppm	0.2 ppm	27 ppm
	H_2S	Yes	2873	0	0 - 0.4 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	798	0 - 11.3 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2873	2873	2 - 72 µrem/h	8.6 µrem/h	6 µrem/h
SPM Flex 2	HCl	Yes	2069	66	0 - 20 ppm	0.3 ppm	1.8 ppm
SPM Flex 3	HF	No	902	0	0 - 0 ppm	0 ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2869	0	0 - 219 ppb	0.6 ppb	1000 ppb
	CO	No	2869	9	0 - 6 ppm	0 ppm	27 ppm
	H_2S	No	2869	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2869	1	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2869	1489	0 - 0.5 ppm	0.1 ppm	0.5 ppm
	γ	No	2869	2869	4 - 6 µrem/h	4.7 µrem/h	6 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/2/22 7:00 AM** ***To:*** ***3/3/22 6:59 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	2876	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	2876	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	2876	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2876	0	0 - 0 %	0 %	10 %
	γ	No	2876	2876	2 - 41 µrem/h	3.3 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	Yes	2873	0	0 - 4675 ppb	105.4 ppb	1000 ppb
	CO	No	2873	129	0 - 8 ppm	0.1 ppm	27 ppm
	H_2S	No	2873	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	2873	0	0 - 0 %	0 %	10 %
	NO	Yes	2873	916	0 - 9.7 ppm	0.9 ppm	0.5 ppm
	γ	Yes	2873	2873	2 - 92 µrem/h	11.1 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	0	0	0 - 0 ppm	ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	2864	0	0 - 235 ppb	0.7 ppb	1000 ppb
	CO	Yes	2864	168	0 - 27 ppm	0.3 ppm	27 ppm
	H_2S	No	2864	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	2864	0	0 - 0 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	2864	512	0 - 0.5 ppm	0 ppm	0.5 ppm
	γ	No	2864	2864	4 - 7 µrem/h	4.7 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: **Lakes Parkway Lithium Battery Fire**

From: **3/3/22 7:00 AM** ***To:*** ***3/4/22 10:02 AM***

Location 1 - Northern Side of Battery Storage Area							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 1	VOC	No	3222	0	0 - 0 ppb	0 ppb	1000 ppb
	CO	No	3222	0	0 - 0 ppm	0 ppm	27 ppm
	H_2S	No	3222	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3222	0	0 - 0 %	0 %	10 %
	γ	No	3222	3222	1 - 40 µrem/h	3.5 µrem/h	9 µrem/h

Location 6 - South of Staging Area Near Center of Tractor Trailer							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 2	VOC	No	3186	0	0 - 630 ppb	130.8 ppb	1000 ppb
	CO	No	3186	195	0 - 6 ppm	0.2 ppm	27 ppm
	H_2S	No	3186	0	0 - 0 ppm	0 ppm	0.33 ppm
	LEL	No	3186	0	0 - 0 %	0 %	10 %
	NO	Yes	3186	971	0 - 11.3 ppm	1 ppm	0.5 ppm
	γ	Yes	3186	3186	1 - 139 µrem/h	14.2 µrem/h	9 µrem/h
SPM Flex 2	HCl	No	0	0	0 - 0 ppm	ppm	1.8 ppm
SPM Flex 3	HF	No	0	0	0 - 0 ppm	ppm	1 ppm

Location 8 - Eastern Side of Northern Roll-Off Battery Box							
Instrument	**Analyte**	**Action Level Exceedance?**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**	**Action Level**
AreaRAE 4	VOC	No	3171	0	0 - 61 ppb	0.7 ppb	1000 ppb
	CO	No	3171	10	0 - 7 ppm	0 ppm	27 ppm
	H_2S	No	3171	0	0 - 0 ppm	0 ppm	0.33 ppm
	SO_2	No	3171	5	0 - 0.1 ppm	0 ppm	0.2 ppm
	Cl_2	Yes	3171	315	0 - 0.6 ppm	0 ppm	0.5 ppm
	γ	No	3171	3171	4 - 6 µrem/h	4.5 µrem/h	9 µrem/h

Notes:

%	Percent
<	Less than
>	Greater than
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals
CFR	Code of Federal Regulation
hr	Hour
ppb	Parts per billion
ppm	Parts per million
TEEL	Temporary Emergency Exposure Limit
TWA	Time-weighted average
µrem/h	Microrem per hour
γ	Gamma-wave radiation

Analyte	Definition	Action Level Reference
VOC	Volatile Organic Compounds	TEEL-0, 15-minute TWA for Benzene
CO	Carbon Monoxide	AEGL-2, 8-hr
H2S	Hydrogen Sulfide	AEGL-1, 8-hr
O2	Oxygen	29 CFR 1910.146, Confined Spaces
LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
SO2	Sulfur Dioxide	AEGL-1, 8-hr
Cl2	Chlorine	AEGL-1, 1-hr
NO	Nitric Oxide	PAC-1 (compare Cl2 and H2S PAC-1 to AEGL-1)
γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
HCl	Hydrogen Chloride	AEGL-1, 1-hr
HF	Hydrogen Flouride	AEGL-1, 1-hr

ENCLOSURE 4

PHOTOGRAPHIC LOG

(23 Pages)

OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	East	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START)	**Witness:**	Jason Booth, U.S. Environmental Protection Agency (EPA)

Subject: On December 10, 2021, U.S Environmental Protection Agency (EPA) mobilized to Rytech USA (the site) in response to lithium-ion battery fires at the site. EPA mobilized the Emergency Rapid Response Services contractor, Environmental Restoration, LLC (ER), to the site to conduct emergency response activities. ER arrived on site later that afternoon and covered the batteries in the loading dock area with sand and plastic sheeting to prevent further reactivity and suppress smoke.

OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	North	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: Runoff from firefighting activities flowed into a storm drain located next to the staged batteries and emptied into the retention pond located southeast of the Rytech USA entrance on the eastern side of the site. ER covered the storm drain with plastic sheeting to prevent runoff from the battery storage area from emptying into the retention pond.

OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	North	**Date:**	December 11, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 11, 2021, Tetra Tech START mobilized to the site to collect soil and surface water samples from the retention pond impacted by runoff during firefighting activities. EPA and Tetra Tech START inspected the retention pond and observed some standing water and minor quantities of fire suppressant pellets. Tetra Tech START collected soil and surface water samples from the retention pond, including a background sample and quality control samples.

OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 17, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Laura Lawrence, Tetra Tech START

Subject: On December 13, 2021, ER placed individual batteries into plastic bags and stacked the bagged batteries between layers of fire suppressant pellets within 55-gallon steel drums. The drums were sealed and secured inside of a conex storage container.

OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 14, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 14, 2021, the individual batteries packed into 55-gallon drums self-ignited inside of the drums. After the Gwinnett County Fire Department (GCFD) extinguished the fires, EPA suspended battery packing operations and decided ER should pack batteries individually into Department of Transportation (DOT) Packing Group 1 rated pails (DOT pails) to prevent self-ignition and allow safe transport.

OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 14, 2021
\			
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER placed fire suppression pellets in each bucket to prevent the batteries from self-igniting and to allow for safe transport.

OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 17, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Not applicable

Subject: ER inventoried, weighed, and labeled each DOT pail with the following information: DOT Class 9 Lithium Battery labels, Dangerous Goods Lithium Battery labels with UN3480 identifier, a Lithium Ion label, a Damaged/Defective Lithium Ion Battery label, and an inventory identification label.

OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 14, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Chris Jones, Tetra Tech START

Subject: On December 14, 2021, EPA mobilized Tetra Tech START to conduct perimeter air monitoring around the battery packing operation. Tetra Tech START deployed Viper, a remote telemetry system with Honeywell AreaRAE Pros (AreaRAE Pro), at four locations to determine if the smoke contained combustion byproducts that could threaten nearby residents and employees. Each AreaRAE Pro contained sensors to detect carbon monoxide (CO), hydrogen sulfide (H_2S), oxygen (O_2), lower explosive limit (LEL), and gamma radiation, as well as a photoionization detector (PID) with a 10.6 electron volt (eV) bulb to detect volatile organic compounds (VOCs).

OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 16, 2021
Photographer:	Paul Prys, Tetra Tech START	**Witness:**	Donovan Godbee, Tetra Tech START

Subject: ER contracted a group to erect a tent over the batteries covered in sand in the loading dock area to minimize their exposure to the weather.

OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 19, 2021
Photographer:	Laura Lawrence, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 19, 2021, some of the DOT pails staged in the conex storage container self-ignited and GCFD mobilized to the site to extinguish the fire. EPA and ER suspended battery packing operations.

OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 19, 2021
Photographer:	Laura Lawrence, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: After the fires were extinguished, GCFD removed the DOT pails from the conex storage container and staged them near the battery storage area for inspection.

OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 20, 2021, EPA and ER met with representatives from several battery recycling facilities. Based on those meetings, EPA decided to submerge the batteries in a 0.5 percent sodium chloride brine solution (brine solution) to de-energize them prior to disposal.

OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: From December 21 through 23, 2021, ER submerged all batteries into two roll-off containers filled with the brine solution. EPA and Tetra Tech START observed bubbles coming from the batteries in the solution as they were submerged. EPA tasked Tetra Tech START to monitor for gases potentially released during the de-energizing process.

OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

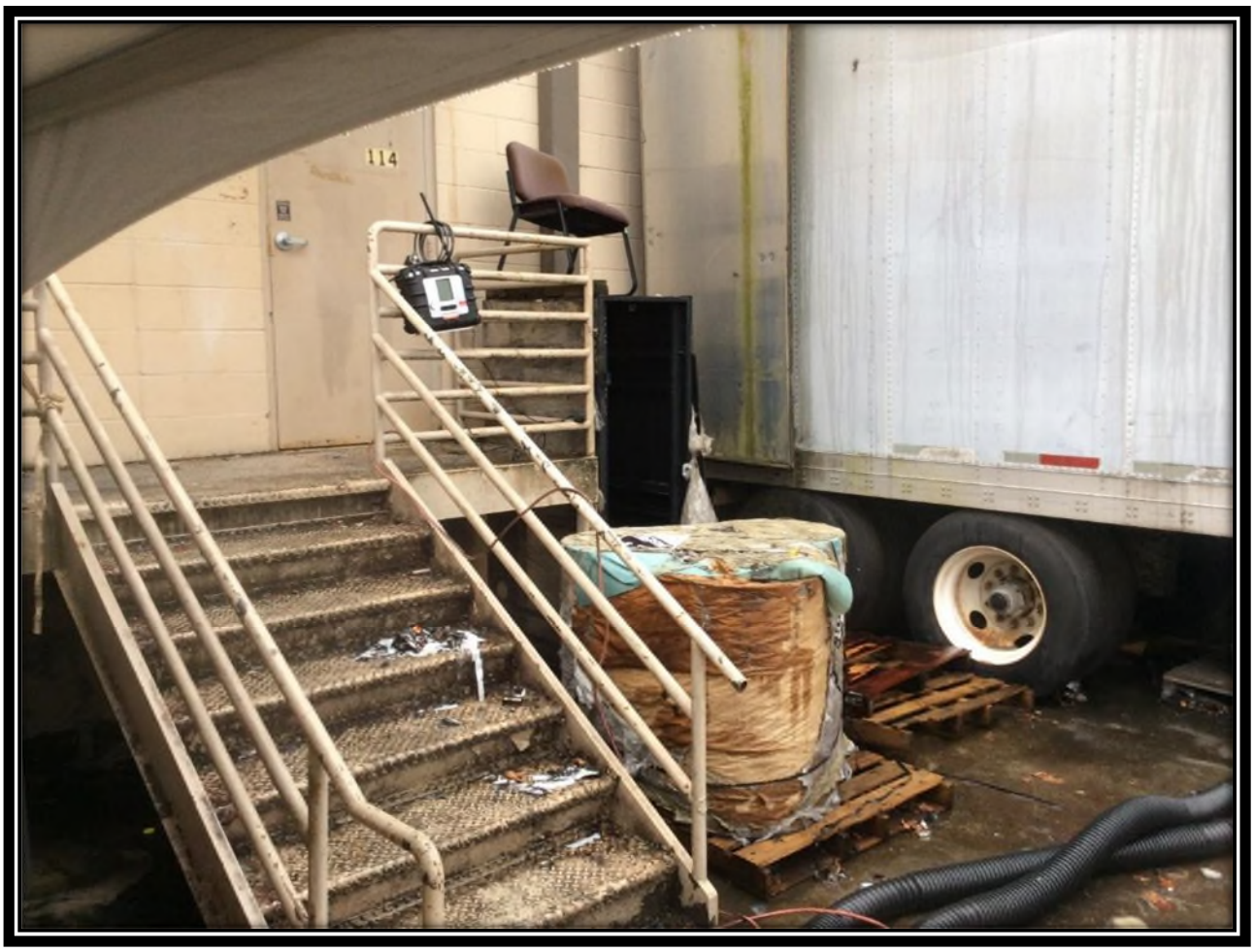
TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	December 23, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: ER tested the voltage of select batteries submerged for longer than 12 hours and found that some still carried a charge. EPA and ER decided the batteries would need more time to de-energize in the brine solution. From December 24, 2021 through February 21, 2022, the batteries remained submerged in the two roll-offs.

OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	West	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 21, 2021, EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro south of the battery staging area near the center of the stationary tractor trailer (Location 6) to monitor for nitrogen oxide.



OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	South	**Date:**	December 21, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On December 21, 2021, EPA requested Tetra Tech START move the AreaRAE Pros from Locations 2 and 3 to monitor for gases potentially released during the de-energizing process. Tetra Tech START placed one AreaRAE Pro southwest of the battery staging area at the loading dock stairwell of 1665 Lakes Parkway, Suites 114 and 116 (Location 7), to monitor for sulfur dioxide and chlorine.

OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southwest	**Date:**	December 23, 2021
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jordan Garrard, EPA

Subject: On December 23, 2021, EPA tasked Tetra Tech START to monitor for hydrogen chloride (HCl) and hydrogen fluoride (HF) gases using Honeywell SPM Flexes (SPM Flex) fitted with Honeywell SPM Flex mineral acid chemcassette tapes (mineral acid tapes). Tetra Tech START conducted HCl and HF air monitoring next to the roll-off containers (Location 8).

OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Southeast	**Date:**	February 22, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: On February 22, 2022, EPA and ER mobilized to the site to package and dispose of the de-energized batteries. ER pumped the brine solution into 330-gallon intermediate bulk container (IBC) totes to access the batteries for disposal activities.

OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 22, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: After removing the brine solution from the roll off containers, ER accessed the de-energized batteries for packaging and disposal.

OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 25, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Paul Prys, Tetra Tech START

Subject: On February 25, 2022, Tetra Tech START collected a composite waste sample from the sludge in the northern roll-off container for disposal purposes.

OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	March 3, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER randomly selected batteries and tested the voltages of the batteries. The voltages ranged from 0.0 to 0.1 volts across accessible electrodes.

OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 24, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER placed each small battery into individual plastic bags and packaged them between layers of fire suppressant pellets in plastic-lined 55-gallon drums pursuant to DOT Special Permit SP-16532 for small batteries.

OFFICIAL PHOTOGRAPH NO. 23
U.S. ENVIRONMENTAL PROTECTION AGENCY

TOLIN:	82-035	**Location:**	1665 Lakes Parkway, Lawrenceville, Gwinnett County, Georgia
Orientation:	Not applicable	**Date:**	February 24, 2022
Photographer:	Emily Jones, Tetra Tech START	**Witness:**	Jason Booth, EPA

Subject: ER packaged the medium to large batteries between layers of fire suppressant pellets in fire suppressant-lined 55-gallon drums pursuant to DOT Special Permit SP-21329 medium and large batteries.

ENCLOSURE 5

TETRA TECH FIELD LOGBOOK NOTES

(52 Pages)

TOLIN 82-035

LAKES PARKWAY LITHIUM BATTERY FIRE

Rite in the Rain.
ALL-WEATHER
UNIVERSAL
Nº 371FX

Logbook 1 of 2

DECEMBER 11, 2021

to

January 12, 2022

MADE IN TACOMA — SINCE 1916 —

Rite in the Rain

— DEFYING MOTHER NATURE —

Name Tetra Tech, Inc.

Address 1955 Evergreen Blvd, Suite 300
Duluth, GA 30096

Phone

Project TOLIN 82-035
Lakes Parkway Lithium Battery Fire
1665 Lakes Parkway
Lawrenceville, GA

RiteintheRain.com

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	EPA OSC Jason Booth	
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	Readiness Cordinator	

December 11, 2021 Prys

Weather: High of 73°F, 100% chance of rain, winds from west at 10-15mph

0900 Start Prys on site and met with EPA OSC Jason Booth and ER. The fire occurred in the loading dock area of 1665 Lakes Parkway, Suite 116, Lawrenceville, GA. The lithium batteries were staged in the loading dock area and covered with sand and plastic sheeting. GPS coordinates: 33.965963, -84.055812 (PP)

OSC Booth tasked Start Prys with collecting water and soil samples from the outfall area located northwest of 1665 Lakes Parkway and north of 1655 Lakes Parkway. A stream drain located in the loading dock of the site empties into the area. Name of business at this location is Recytech USA. Runoff generated during fire fighting activities conducted on Dec 7 and Dec 9 emptied into this area. Samples will be analyzed for target compound list VOCs, TCL SVOCs, and TAL metals and Hg.

Scale: 1 square =

December 11, 2021 Prys

0945 Start Prys prepared bottle sets.

Surface water samples with be collected using the following:

TCL VOCs: 3, 40-ml VOAs preserved w/ HCl

TCL SVOCs: 2, 1-liter amber bottle w/o preservatives. (PP)

TAL metals + Hg: 2, 250-ml HDPE bottles preserved with HNO_3 (PP)

Soil samples with be collected with a stainless-steel spoon using the following: (PP)

TCL VOCs: 1 terracore with 2, 40-ml VOA vials preserved with methanol, 1, 40-ml VOA vial preserved w/ sodium bisulfate, and 2, 40-ml VOA vials with DI water, OR a terracore kit with 4, 40-ml VOA vials unpreserved, or terracore kit that are a mixture of the two kits.

TCL SVOCs: 1, 4-oz amber jar (PP)

TAL metals + Hg: 1, 4-oz clear jar.

Note: Both jars have teflon-lined lids. (PP)

1100 Collected surface water sample LLB-SW-L01-121121 from the outfall

Scale: 1 square =

Rite in the Rain

1100 AREA Northeast of the southwestern outfall. (33.965346, -84.054914) (Location 1)

1110 Collected duplicate surface water sample LLB-SW-L01-121121-DUP from Location 1.

1120 Collected surface water sample LLB-SW-L02-121121 from Location 2 (33.965365, -84.055085), at southwestern outfall, included ms/msd.

1200 Collected surface soil sample from Soil Location 1, LLB-SS-L01-121121 (33.965283, -84.054952), northeast of the southwestern outfall. Sample contains bits of "cell block" that entered the storm drain during fire fighting activities. (PP)

1212 Collected duplicate surface soil sample ~~LLB-SS-L01-DUP~~ (PP) from Soil Location 1. Soil sample ID is LLB-SS-L01-121121-DUP. Sample also contains pieces of "cell block".

1225 Collected surface soil sample LLB-SS-L02-121121 from Soil Location 2 from approx 20-25 ft west of Location 1. Sample included ms/msd.

1250 Collected surface soil sample

Scale: 1 square = Paul E [illegible]

1250 LLB-SS-L03-121121 from soil Location 3 (33.965364, -84.055178) near southwestern outfall. Note: Sample LLB-SS-L03-121121 coordinates are 33.965301, -84.055111.

1330 OSC Booth requested start collect surface soil samples from a background location and the southeastern outfall servicing building at 1655 Lakes Parkway.

1440 Collected surface soil sample LLB-SS-L04-121121 (33.965364, -84.055113) from near northwestern corner of 1655 Lakes Parkway parking lot uphill from ~~southwestern~~ (PP) southwestern ~~southeastern~~ (PP) outfall. (Soil Location 4)

1415 Heavy rains moved into the area.

1435 Collected surface soil sample LLB-SS-L05-121121 from surface soil Location 5 (33.965127, -84.054689) near southeastern outfall. Outfall area filled with water. Sample collected just above water line. (PP)

1500 START PRYS off-site. (PP)

Scale: 1 square = Paul E [illegible] 11 DEC 2021

Rain in the Rain

December 13, 2021 Prys

Weather: High of 63°F, Sunny, Winds from southwest up to 5 mph

1330 Start Prys on site to collect a composite sample from the sand used to cover the waste lithium batteries staged in the loading dock area.

1355 Collected a 5-pt composite sample LLB-SS-L06-121321 from the loading dock area (Location 6: 33.965944 -84.055821). Note: 3 aliquots collected from waste sand in contact with batteries and 2 aliquots from sand covering the batteries. Sample was collected using a stainless-steel spoon and disposable aluminum pan, thoroughly homogenized, placed into 3, 4-oz jars with teflon-lined lids for TAL metals + Hg and TCLP metals analysis. (PP)

1430 Start Prys off site. (PP)

[signature] 13 Dec 2021

December 14, 2021 Prys, Jones

Weather: High of 70°F, Sunny, Winds from southwest up to 5 mph

1445 Start Chris Jones on site. Discussed site activities with OSC Booth.

1500 Start Prys on site. Discussed site activities with Start Jones and OSC Booth. Gwinnett County Fire Dept (GCFD) on site and getting ready to demobilize after putting out second fire of the day. (PP)

1600 Start began setting up air monitoring stations using AREARAEs to be connected to the Viper telemetry system. The monitoring locations are as follows: (PP)

- Location 1: Northern side of Battery Storage area at fenceline. (33.966123, -84.055867) AREARAE Unit 9 (B10341, S/N 1807)
- Location 2: Northwestern side of battery storage area at the loading dock stairwell of 1675 Lakes Pkwy, Suite 101 (33.966096, -84.056126) AREARAE Unit 11 (B10343, S/N 1809)
- Location 3: Western side of Battery

[signature]

December 14, 2021 Prys, Jones

1600 - Location 3: storage area at the loading dock stairwell of 1675 Lakes Pkwy, Suite 105 (33.966007, -84.056149) AreaRAE Unit 12 (B10344, S/N 1810) (PP)

- Location 4: Southwestern side of battery storage area at the loading dock stairwell of 1665 Lakes Pkwy Suite 112 (33.965737, -84.055946) AreaRAE Unit 10 (B10342, S/N 1808)

Note: start calibrated AreaRAEs prior to deployment. (PP)

1700 Start began setting up VIPER to ~~[illegible]~~ (PP) log air monitoring data.

1845 Start off site. (PP)

[signature] 14 Dec 2021

December 15, 2021 Prys

Weather: High of 58°F, Partly cloudy, Wind from East at 5-10 mph.

0745 Start Prys onsite. ER onsite preparing to continue packing batteries into individual 5-gal buckets filled with "cell block".

0800 Start Prys connected AreaRAEs at Locations 2 and 3 to Honda generators. AreaRAEs at Locations 1 and 4 were connected to shore power.

0900 Start Prys offsite to Walmart to get bike locks to secure the generators. (PP)

1000 ER continued placing batteries into individual buckets with "cell block", documenting weight of each bucket, placing a DOT placard on each bucket, and staging the buckets along the loading dock ramp. The buckets will eventually be placed in the connex box at the southwestern portion of the loading dock area for storage. (Note: ER has a person on site at night as a fire watch.)

 [signature]

Rite in the Rain

DECEMBER 15, 2021 PRYS

1300 START BEGINS TROUBLESHOOTING AIR monitoring summary tables. Air monitoring results for VOC and H_2S are reported as 1-hr and 8-hr TWAs. (PP)

1345 START CONDUCTED A bump check of the AREA RAEs. All units passed. (NOTE: START DIDN'T turn off the AREARAE at Location 2 before. Apply calibration cocktail gas. Gas was connected for approx. 5 seconds prior to being disconnected, at approx 1355.) (PP)

1500 ER continued battery removal activities. (PP)

1700 START PRYS ~~REMOVED~~ (PP) turned off and secured generators at locations 2 and 3. AREARAEs ran on battery power. (PP)

1745 START PRYS offsite. (PP)

15 DEC 2021

DECEMBER 16, 2021 PRYS

WEATHER: High of 62°F, cloudy, 10% chance of rain, winds light and variable

0745 START PRYS onsite. ER prepared to packing batteries into individual 5-gallon buckets filled with cell block for disposal. (PP)

0800 START PRYS connected generators to AREARAEs at locations 2 and 3 and conducted bump checks at all locations. AREARAEs passed bump check.

1000 Discussed site coverage with OSC Booth. He requested START remain on site over the weekend to conduct air monitoring and to troubleshoot VIPER in case there are issues. Also discussed labeling on buckets. Each bucket contains (PP) DOT LABEL #9 (Lithium Battery), DOT LABEL UN3480 (Ion Battery), a yellow sticker stating "Defective Lithium Ion Battery", ER inventory number, and a label with the bucket weight.

1130 Discussed the air monitoring data and data summary tables with ERT.

1300 START PRYS offsite to pickup

DECEMBER 16, 2021 PRYS

1300 supplies to cover smart gateway, RAE Link 1, and power cords at Location 1. Rain is forecasted for late Friday and Saturday.

1415 ER continued battery disposal activities. Start Prys covered equipment at Location 1. (PP)

1600 Bump checked AREARAEs at all locations and all AREARAEs passed.

1700 Removed and secured generators from Locations 2 and 3. (PP)

1745 Start Prys offsite. (PP)

16 DEC 2021

Scale: 1 square = _____

DECEMBER 17, 2021 LAWRENCE, PRYS

Weather: High of 67°F, cloudy, 10% chance of rain, winds light and variable. (PP)

0730 Start Prys onsite. ER prepared to continue battery disposal activities. Note: Yesterday afternoon ER had a tent delivered and erected onsite to cover the batteries in the loading dock area and a small roll off delivered for site trash. (PP)

0745 Connected AREARAEs at Locations 2 and 3 to generators. (PP)

0930 Start Lawrence onsite. Began site orientation. (PP)

1000 Reviewed results for sample LLB-SS-LOL-121321 and compared the unvalidated data to the EPA RMLs and TCLP tables. No exceedances were observed. (PP)

1030 Conducted bump check of AREARAEs with all passing the check. Continued site orientation. (PP)

1215 Start offsite to pick up rental vehicle and to drop off current vehicle.

Scale: 1 square = _____

Rite in the Rain

1330 - START Lawrence onsite.
1400 - AreaRAE unit 9 located at station 1 power off. smart Gateway power and extension cord lights were on so not a power supply issue.
1415 - Confirmed no data being transfered so screen was not the problem either. START located an ~~un-~~ disconnected power cord inside the bag. Will allow AreaRAE to charge for 30 minutes and then attempt to power back on.
1500 - AreaRAE unit 9, location 1 back online.
1520 - Truck arrives to load out sand.
1915 - START bump tests all AreaRAEs all locations online.
1800 - START offsite.

LL

Weather - 43/71°F rain 0.25 inches last night. cloudy, overcast, 99% humidity. 90% chance of rain today. winds SSW at 5-10 m.ph.
0730 - START Lawrence onsite. All locations online with no outages last night.
0800 - START conducts bump test at all four locations. All pass. Locations 2 and 3 placed on charger to re-charge batteries.
0830 - ER ~~begins~~ resumes cleanup activities.
0900 - EPA OSC Booth onsite. Disposal activities resumed.
1600 - disposal activities done for the day. START bump tested all locations. All pass. START will remain on site until night watch arrives.
1840 - START Lawrence offsite.

LL 12/18/21

Rite in the Rain

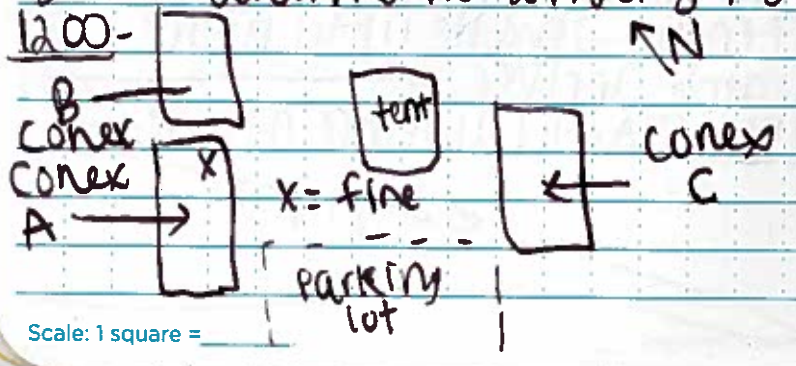
Weather - 35/59°F. Overcast, cloudy. 90% chance of rain. Currently raining. Winds NW 10-15 mph —

0745 - START onsite and discusses site activities for the day. OSC Vasser on site. —

0845 - START conducts bump test at all four locations. All pass. LEL alarms at location 3. 3%. START re-bumped AreaRAE. Alarm still going off. Cocktail gas inserted. CO, H_2S, OXY readings all correct. LEL 13% which is incorrect. Per START Jones instructing START Lawrence turned LEL sensor off due to sensor potentially going bad. —

0930 - Filter replaced at location 3. CO alarms no longer going off.

1200 -



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conex box A storing packed batteries caught fire. Back top right. Wind N, NE, and SE. Fire department responded and extinguished the fire. —

1406 - One of the packed buckets temporarily stayed under the tent caught fire. ER used fire extinguisher to to put out fire.

1410 - A ~~[illegible]~~ packed bucket in the back right corner of conex C caught fire. Fire department called and extinguished fire. All buckets and batteries were brought out from conex boxes and under neath tent and staged outside. None are considered safe/ready for transfer/disposal. DOT will be on site tomorrow to discuss how to package. —

1715 - Bump test all locations. Replaced filter at location 3. —

1830 - START offsite. —

12/19/21

Scale: 1 square =

Rite in the Rain

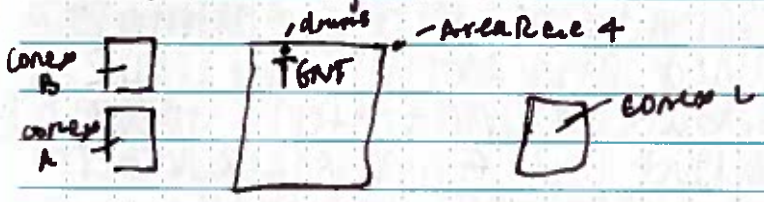
 12/20/22 LAWRENCE, Jones

Weather - 36/48° F, cloudy, no chance of rain, winds 10-15 mph East.

0830 - START Lawrence and Jones onsite. Conduct bump test at locations 1, 3 and 4. Location 2 needs charge before bumptest.

1200 - START Lawrence offsite. — EJ

1400 - Moved AREARAE 4 to be closer to drum of water & batteries to monitor off gassing as requested by Vasser.



1500 - ERs moving stored batteries to make room for roll off bins. Plan as of today is to put batteries in salt water to demagnetize.

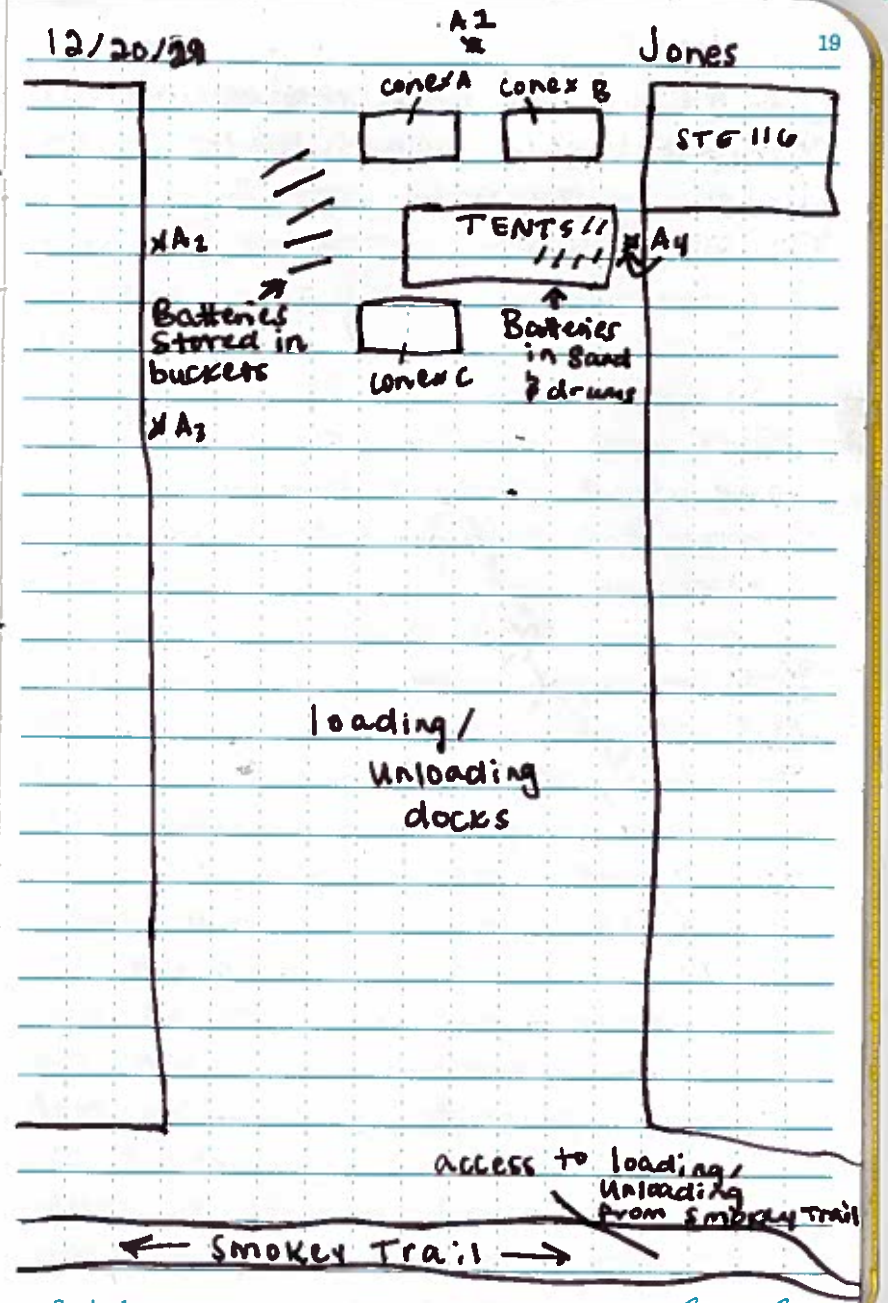
1615 - Moved AREARAE 4 again to salt water test location in front of conex C. — EJ

1630 - Roll off bins delivered on site. — EJ

1700 - Huyser's truck was parked in front of AreaRAE 3 for about 4 hours — EJ

1715 - Bumper test on A1, 3, & 4 pass. Used wrong cal gas on 2. Passed w/ 100ppm gas

Scale: 1 square = _____



Scale: 1 square = _____

Rite in the Rain

12/20/21 Jones

1730- A4 will stay near test drums overnight. Vasser wants to do air sampling tomorrow. —— ES

1830- START offsite. —— ES

Emily Jones 12/20/21

Scale: 1 square =_____

12/21/21 Jones

0730- START Jones on site

0800- Discuss plan for the day and participate in tailgate H&S meeting. Today ERs will be putting batteries that are in buckets into salt water in 2 roll offs. —— ES

WEATHER: 45°/38° 50% chance of rain until 1300. Cloudy. Wind SW@6mph

0830- Bump test AreaRAEs & all pass. Locations 2 & 3 needed a fresh air cal due to low oxygen readings. ERs moving buckets to prepare for salt water soak. —— ES

0930- changed moisture probe on A2. Kept getting high O2 readings.

0940- loading occuring at site.

1030- DSC Booth on-site. ——

1050- Each roll off will get 10 batteries which will sit for 10-30 min. depending on how much they are off gassing. Gwinnett county fire dept. is onsite. Shipping trucks will be coming in & out & will be requated. ER moved front tent in preperation for battery dump. —— ES

Emily Jones

Scale: 1 square =_____

 12/21/19 Jones

1110- Mike onsite to swap out sensors on AreaRAE 2 & 4

1115- Begin putting batteries in roll of bins. no immediate reaction. — ES

1145- Some bubbles coming off of batteries in water. No rolling or smoking yet. Throwing damaged batteries from sand into roll off.

1215- set up AreaRAE 10 near roll off bin (S/SW) w/ NO_2 sensor. AreaRAE 2 had to go back to warehouse due to an issue w/ the pump. — ES

1330- AreaRAE 10 (AC) reading NEG for NO_2 sensor. Another trailer is coming in to recieve a shipment. Operations will stop until they're done.

1400- Conducted a fresh air cal on AC. Passed. No alarm off now.

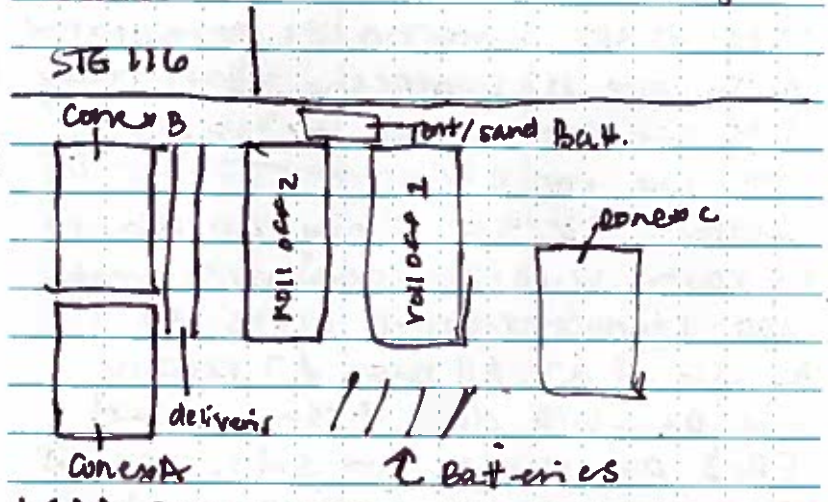
1430- Truck loaded. Preparing to drop in more batteries. — ES

1435- Dropping 40 in each roll off.

1436- Orange battery in roll off bin 2 (see drawing) began smoking. — ES

ES

Scale: 1 square = _____ Emily Jones



1444- Smoke coming off both roll offs. Not a lot, little wafts every new batch.

1518- Moved buckets near roll off to prepare for dumping them. — ES

1630- Moved buckets close to roll offs. opening buckets & putting batteries in roll offs.

1700- Conducted bump test on all 3 AreaRAEs & all passed. — ES

1745- START off site. — ES

Emily Jones 12/21/19

Scale: 1 square = _____

12/22/21 Jones

0730 - START Jones onsite. Participated in tailgate H&S meeting. Plan today is to get the rest of the batteries into the roll offs. —— EJ

Weather: 33°/53° Sunny, no chance of rain Wind east/southeast @ 8 mph.

0800 - Conducted bump tests on A1, A6, & A7. All pass. A7 reading low O_2. Will do a fresh air cal. ERs & OSC vasser on site. —— EJ

0841 - Testing voltage of batteries that have been in salt water for ~~~24 hrs~~ ~12 hrs EJ & ones that have been in the sand. Some still have a charge, therefore the batteries will need much longer to deenergize in salt water brine.

0900 - Running a test on battery 1. Battery has ~42 volt charge. Placed in salt water brine to sit for about an hour, then will recheck voltage. One battery that was in a drum for about 12 hours has < 2 volts. ↳ (saltwater)

0935 - ERs dumping batteries in salt water brine since 0800. No smoke or flare ups so far. —— EJ

Scale: 1 square = _____ Emily Jones

12/22/21 Battery 1 Test Jones

Voltage	Time
40.53V	08:58
40.06V	10:23
29.29V	11.28
18.69V	12:42
2.14V	14:40
0.06V	13:40 12/23/21

1030 - Truck arrives to recieve shipment. ERs breaks from dumping batteries.

1040 - START C. Jones onsite. —— EJ

1124 - Truck arrives for a shipment.

1203 - loading buckets of cell block into cones C. Truck arrives for shipment.

1245 - 13.14V read on a battery from drum —— EJ

1300 - ERs crew resumes placing batteries in salt water brine. —— EJ

1437 - Testing Battery 1 voltage letting battery sit out for an hour —— EJ

Scale: 1 square = _____ Emily Jones

Rite in the Rain

12/22/21 Jones

1505 - Collected 4 waste water samples using water from each roll off. — EJ
LP-LB-WW-01; LP-LB-WW-02;
LP-LB-WW-03; LP-LB-WW-04
Will collect four more samples after the water has sat for 10 days with all of the batteries in it. — EJ

1530 - Removing sand from behind the roll bin. — EJ

1700 - Conducted bump test on all AreaRAGs all pass. — EJ

1730 - START offsite to drop WW samples at AES. — EJ

Emily Jones

Scale: 1 square = _____

12/23/21 Jones

0730 - START Jones, OSC Jordan & ERC on site. Plan is to get the batteries from drums to slag box & burnt buckets open. Will move AreaRAGs again today to be closer to slag boxes — EJ

Weather: 31°/59° sunny all day with little to no wind. — EJ

0800 - Conducted bump tests on all AreaRAGs. All pass. A6 & A7 reading low oxy. Conducted fresh air cal and they are now ok. — EJ

0810 - ERs continues dumping batteries from drums. — EJ

0840 - A6 reading high oxy. due to cold weather. Fresh air cal fixed it.

0930 - Set up SPM Flex (1 HCl & 1 HF) right next to roll off 2 after battery began smoking. — EJ

0958 - Changed moisture filter on A16 & did a fresh air cal (reading low oxy) Now says oxy needs a cal. — EJ

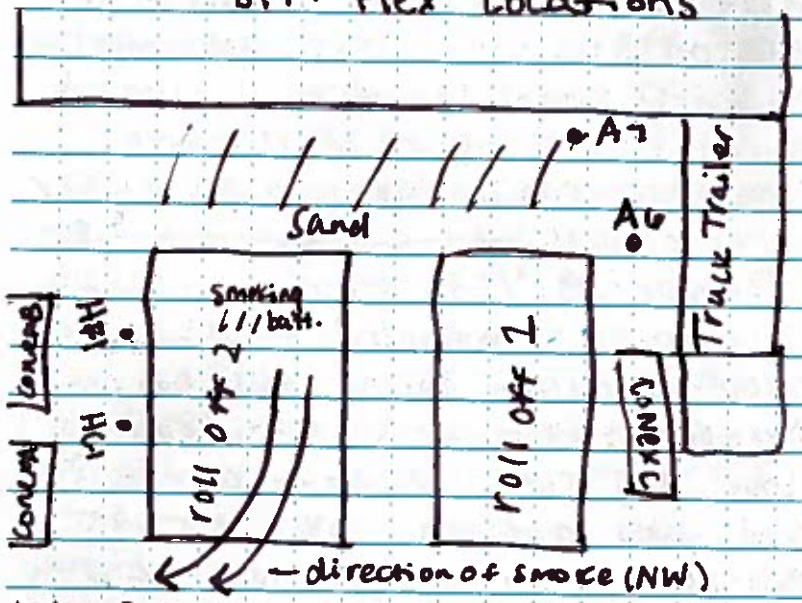
1000 - ERs using a saw to get tops off of burnt buckets. — EJ

1008 - last battery goes in brine. begin 24hr monitor

Scale: 1 square = _____ Emily Jones Rite in the Rain

 12/23/21 Jones

SPM Flex Locations



1012 - Battery off opposing. SPM Flex Climbing HCl 0.093 highest reading HF - 0.099; 0.11; 0.129 —— ES

HCl - 0.096; 0.245 —— ES

1014 - HF alarm going off.

1020 - Smoke going down on roll off 2 HCl reading 0.245 & HF 0.129. HF got up to 0.5 ppm No exact readings due to smoke. —— ES

1040 - HF alarm still going off. Smoke has died down. —— ES

1100 - ERS continues clean up. —— ES

Scale: 1 square = _____ Emily Jones

12/23/21 Jones

1120 - Used multiRAE pro to confirm that the oxygen sensors in A6 & A7 are reading incorrectly. MultiRAE Oxy was 20.9% & A6 29.9% A7 19.1%. Disabled Oxygen sensors on A6 & A7. —— EJ

1140 - Truck arrives for unloading.

~~1406 - EJ~~ —— ES

1230 - Set up viper runs w/ SPM Flex 158 & SPM Flex 159 on gateway 350(159) and 351(158) using direct connect. Will plug in & waterproof once ERs is done with clean up. —— ES

1406 - ERs dumping additional drums of batteries. —— ES

1500 - ERs off site. All SPMs & Area RAEs on short power. —— ES

1530 - START Jones & OSC Jordan Offsite. ——

Emily Jones 12/23/21

Scale: 1 square = _____

12/24/21 Jones

0900- START onsite to bump Area RAEs. All pass. 8PM Flex 158 disconnected from viper last night. Got it reconnected. HF Alarm was going off when START arrived due to offgassing overnight Flex got a reading of 1.562 ppm at 20:06. ——— EJ

1000- START off site. ——— EJ

Emily Jones 12/24/21

Scale: 1 square =_____

12/25/21 Jones

0930- START Jones onsite. Reconnected HF Flex to viper. No exceedance alarms going off. Conducted bump test on all AreaRAEs. All pass. TWA alarm on Area RAE 3 Cl2 Sensor. ——— EJ

1000- START offsite. ——— EJ

Emily Jones 12/25/21

Scale: 1 square =_____

Rite in the Rain

 12/26/21 Jones

1100- START onsite. 107 comm failure alarm going off on HCl Flex. Needs new tape. Will replace on Monday. Reconnected HF Flex to viper. ——— EJ

1118- Collected water samples from both roll offs to test water quality at a later date.

1130- Conducted bump test on Alpha area RAEs. All pass except LEL on AreaRAE 1. Cl2 sensor still giving TWA alarm of location 7. ——— EJ

1200- START Jones off site.

Emily Jones 12/26/21

12/27/21 Jones

0930- START Jones onsite. Bumped all AreaRAEs. All pass. ——— EJ

1030- Troubleshooting VIPER for SPM Flex 158. Not communicating to remote desktop. ——— EJ

1130- Reset 107 Alarm fault on SPM 159. Monitoring back up.

1200- Waterproof all equipment in anticipation for rain tomorrow.

1300- Calibrated Cl2 sensor on AreaRAE 7. Reading correctly now.

1500- Went to warehouse to get Hex kit for gateway. Reset gateway and got remote connection going. Unable to get Flex 158 to communicate with gateway.

1630- START off site. ——— EJ

Emily Jones 12/27/21

Rite in the Rain

 12/29/21 Jones

0930- START onsite to troubleshoot SPM Viper issues & bump AreaRAEs. — EJ

1000- Flex needs to be replaced. Took down 159 to take back to warehouse. — EJ

1030- Bump test AreaRAEs LEL on location 1 fails, probably due to rain. — EJ

1045- All other locations pass bump test. — EJ

1130- going to warehouse to get new flex. START off site.

1230- START onsite. Set up SPM 160 to monitor for HF. Water proofed station. — EJ

Weather- 63°/72° 97% chance of rain. Wind NE @ 8mph (variable).

1300- START offsite

Emily Jones 12/29/21

12/30/21 Jones

1100- START onsite.

Weather- 100% chance of rain / thunderstorms. Flood warning. 69°/60°. Wind 7mph N.

1115- roll off 2 smoking. No HF Alarm, high HCl readings. Reconnected flex 159

1130- Bump test all AreaRAEs A2 LEL fails (rain?) A6 passes all. A7 fails SO2 & Cl.

1145- Trouble shooting viper for Flex 160. Switched gateways. Same issue. ERT logs in to help.

1300- Switched gateway back to 351. — EJ

1400- ERT able to get 351 working on viper. — EJ

1430- Water proof set up.

1500- START off site. — EJ

Emily Jones 12/30/21

Rite in the Rain

12/31/21 Jones

0900- START onsite. Conducted bump tests on A1, A6, A7. A6 passes all. A1 LEL fails. A7 SO_2 & Cl fail. ——— EJ

0915- Fire dept. onsite to check what's been happening.

Weather: 55/69. Cloudy w/ ~40%. Chance of rain at 1300. Variable/no wind. ——— EJ

1000- Troubleshooting Viper for flex 160. Restart gateway, got run going again.

1030- START offsite. ——— EJ

Emily Jones 12/31/21

01/01/2022 Jones

Weather- 75°/62° scattered showers. 6-18 mph wind S/SW

1600- START onsite. Conducted bump tests on all AreaRAEs. A1 LEL fails- disabled sensors. A1 sensors pass. A6 passes all. A7 SO_2 & Cl fail. All others pass. Changed power cord to ER 351. Viper running again.

1700- START off site. ——— EJ

01/01/2022 Emily Jones

Rite in the Rain

~~12~~ ET 01/02/2022 Jones

1200: START onsite. Flex 159 down. Fault 105 - high background levels. Reset alarms. Doesn't work. Optics need to be cleaned.
1230 - Conduct bump test. A1 pass; A6 passes; A7 SO_2 & Cl fail, all others pass. Will clean optics on Flex 159 tomorrow w/ compressed air. Will get new SO_2 & Cl sensors for A7. Weather - 71°/60°, scattered showers. Wind 6-10 mph S/SW.
1320 - START offsite. — ET

01/02/2022
Emily Jones

01/03/2022 Jones

0900 - START onsite with OSC Vasser & Lane w/ ERS. Discuss site activities for the upcoming weeks. — ET
1000 - Conducted bump test on A1, all pass. Tried cleaning Flex 159. Optics test passed. Still not collecting readings.
1030 - START PRGS onsite. Discuss issues w/ Flex 159 & A6/A7 sensors. Performed zero cal & span cal on A6. No sensor & A7 SO_2/Cl_2 sensors. Now passing & working. — ET
1130 - Reconnected SPM 160 to viper. DTIS coming to swap SPM 159 cassette. — ET
1200 - Changed SPM 159 to 162 & set up a new run on viper.
1300 - START offsite — ET

Emily Jones
1/3/22

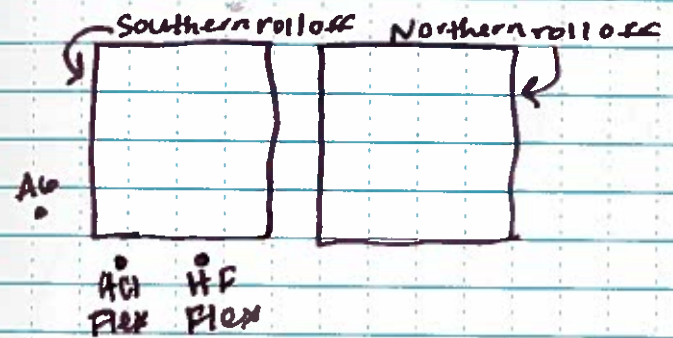
01/04/2022 Jones

1000 - START onsite.
Weather - 49°/26° Sunny with light wind 7mph West. — EJ
1020 - Conducted bump test on All AreaRAEs. All pass. Reconnecting SPM 160 to Viper. — EJ
1100 - SPM 160 back on Viper.
START offsite. — EJ

Emily Jones
1/4/22

1/5/2022 Jones

0900 - START onsite.
0905 - conducted bump test on all AreaRAEs. All pass.
NO TWA Alarm on A6.
0930 - Reconnecting SPM Flex 160 to Viper. — EJ
Weather - 37°/54°, Partly cloudy in morning & sunny afternoon. Wind N/NW 3-5mph. — EJ
1000 - SPM 160 reconnected to viper.
1400 - START onsite to move equipment for ERS. Moved AreaRAE 1 closer to southern most rolloff & SPMs to southern most rolloff



1500 - START offsite. — EJ

1/5/22
Emily Jones

 01/06/22 Jones

Weather- 55°/23° 90% chance of rain in the afternoon Wind SW@6mph. — EJ

0900- ~~Bump~~ START onsite. Conducted bump tests on all AreaRAEs all pass.

0930- Reconnected SPM Flex 160 to viper. — EJ

1000- START offsite. — EJ

01/06/22
Emily Jones

01/07/22 Jones

0930- START onsite. — EJ

0940- Conducted bump test on all AreaRAEs. All pass. — EJ

1000- Reconnect SPM 160 to viper — EJ

1030- START offsite. — EJ

Weather- 27°/40° Sunny Wind WNW@ 8mph.- Wind gusts up to 18mph. — EJ

1/7/22
Emily Jones

Rite in the Rain.

 01/08/22 Jones

Weather: 27/50. Sunny
Wind: W @ 9-10 mph. —— ES
0800: START onsite. Conduct bump test on all AreaRAEs all pass. —— ES
0845 - Reconnecting Flex 160 to viper. —— ES
0900 - START offsite —— ES

11/08/22
Emily Jones

Scale: 1 square = _____

01/09/22 Jones

1130: START onsite.
Weather: 39°/58° 100% chance of rain at 1800. Scattered storms prior.
Wind WNW @ 5 mph. —— ES
1200 - Conducted bump test on all areaREAs; all pass. Reconnecting Flex 160 to viper. —— ES
1230 START Offsite —— ES

01/09/22
Emily Jones

Scale: 1 square = _____

Rite in the Rain

 01/10/22 Jones

1000 - START onsite. Conducted bump test on All Area RAEs. All pass.

1030 - Reconnecting SPM Flex 160 to Viper. ——— ET

1100 - START Offsite ——— ET

Weather - 33°/52° Sunny all day. Wind NW @ 7mph ——— ET

11/10/22
Emily Jones

01/11/22 Jones

Weather - 28°/48° Sunny Wind E @ 5mph

0915 - START onsite. Conducted bump test on all Area RAEs. All pass. Reconnect SPM 160 to Viper. ——— ET

0915 - Brian Vasser & Steve Drueke onsite. ——— ET

0920 - START offsite. ——— ET

01/11/22
Emily Jones

Rite in the Rain

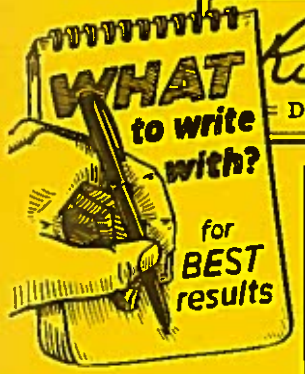
 01/12/22 Jones

0830 START onsite conducted bump test on all AreaRAGs. All pass. ——— EJ

0920 - START offsite. ——— EJ

01/12/22 Emily Jones

Scale: 1 square =_____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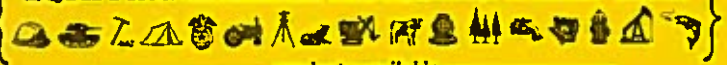

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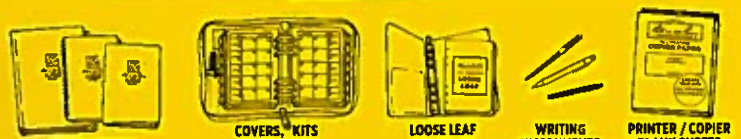
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Logbook 2 of 2

January 13, 2022

TO

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	EPA OSC Bryan Vasser	
	Tt START Paul Prys	
	Tt START Emily Jones	

2 01/13/22 Jones

0830 - START onsite. Conducted bump test on all AreaRAEs. All pass. — EJ

0915 - START offsite. — EJ

01/13/22
Emily Jones

01/14/22 Jones 3

0900 - START onsite. Conducted bump test on all AreaRAEs. AreaRAE by stairwell fails VOC. Took to fresh air & did fresh air cal & bump. passes. All others pass.

0930 - Reconnect SPM flex 160 to viper. — EJ

0945 - START offsite. — EJ

01/14/22
Emily Jones

Rite in the Rain

1/15/22 Prys

Weather: High of 50°F, Cloudy, Winds from East at 10-15 mph. (PP)

0830 Start Prys on-site. Conducted bump check of all 3 AREARAES and rebooted EPAERT 351 to continue HF monitoring of SPM Flex 160. All AREARAES passed the bump check and EPAERT successfully rebooted. (PP)

0930 Start Prys was offsite.

1800 Start Prys on site. SPM Flex 160 was down. Rebooted EPAERT 351 and SPM Flex 160 was reconnected.

1900 Start Prys was offsite. (PP)

Late Note: Start Prys collected a composite water sample from the 2 roll offs with the submerged batteries. Sample LPLBF-WW-L01-011122 was collected at 1340 on 1/11/22 using a bailer and the volume collected was split between the 2 roll offs. Originally, OSC Vasser requested a water sample be collected from the southern roll off and a sludge sample be collected from the bottom of the northern

[signature]

1/15/22 Prys

Late Note: Rolloff. Start Prys was unable to collect the sludge sample due to the number of batteries in the bottom of the roll off. OSC Vasser requested the sample to be collected as a composite. The sample was analyzed for the following:

- VOCs collected in 3, 40-ml unpreserved VOA vials
- SVOCs collected in 2, 1-liter unpreserved amber bottles.
- RCRA 8 metals collected in a 500-ml HDPE bottle preserved with nitric acid.
- pH, flashpoint, reactive cyanide/sulfide, TSS, % solid, % water, chlorine, fluoride collected in 2, 1-liter amber bottles, unpreserved.

Samples were delivered to AES for analysis. (PP)

[signature] 1/15/22

Rite in the Rain

1/17/22 Prys

WEATHER: High of 36°F, Cloudy, Winds from West at 10-20 mph. (PP)

1000 START Prys on site. Conducted bump check of the AREARAES AND REBOOTED EPAERT 351 to continue HF monitoring of SPM FLEX 160. All AREARAES PASSED the bump check AND EPAERT 351 successfully rebooted. (PP)

1200 START Prys offsite. (PP)

LATE NOTE: AREARAES WERE not bump checked AND EPAERT 351 WAS not REBOOTED on 1/16/22 DUE to SNOW AND FREEZING RAIN IN the AREA. (PP)

17 JAN 2022

1/18/22 Prys

WEATHER: High of 53°F, Partly Cloudy, Winds light AND VARIABLE. (PP)

0830 START Prys on site. Conducted bump check of all 3 AREARAES. All AREARAES PASSED the bump checks. (PP)

0900 START Prys offsite. (PP)

18 JAN 2022

Rite in the Rain

1/19/22 Prys

WEATHER: High of 62°F, cloudy, winds from south up to 10 mph (PF)

0830 START PRYS on site. Conducted bump test of all 3 AREARAES AND REBOOTED EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed bump check and EPAERT 351 was successfully rebooted.

0930 START PRYS offsite. (PF)

19 JAN 2022

1/20/22 Prys

WEATHER: High of 51°F, 95% chance of RAIN, winds from northwest at 10-15 mph (PF)

1630 START PRYS on site. Conducted bump check of all 3 AREARAES. All AREARAES passed bump check.

1700 START PRYS offsite. (PF)

20 JAN 2022

Rite in the Rain

1/21/22 Prys

WEATHER: High of 38°F, Cloudy, Winds from northwest at 5-15 mph

0900 START PRYS onsite. Bump checked all 3 AREARAES AND REbooted EPAERT 351 to continue HF monitoring with SPM FLEX 381 (PP) 160. Successfully rebooted EPAERT 351 after 2 attempts. AREARAES DID not pass bump checks AND NEEDED NEW filters. START PRYS contacted EPA Basha for assistance. EPA Basha said they would calibrate the equipment and change out the filters. (PP)

1000 START PRYS WAS offsite. (PP)

LATE NOTE: EPA Basha arrived onsite later in the morning and calibrated the equipment and changed out the filters for the AREARAES. (PP)

21 JAN 2022

1/22/22 Prys

WEATHER: High of 45°F, Sunny, Winds from northwest at 5-10 mph.

1145 START PRYS onsite. Conducted bump check of all 3 AREARAES AND REbooted EPAERT 351 to continue HF monitoring with SPM FLEX 160. START PRYS HAD ISSUES BUMP CHECKING THE AREARAES, POSSIBLY DUE to cold calibration gases. EVENTUALLY all AREARAES PASSED the bump check. EPAERT 351 successfully rebooted after 3 attempts. (PP)

1445 START PRYS offsite. (PP)

22 JAN 2022

Rite in the Rain

1/23/22 Prys

WEATHER: High of 51°F, Sunny, Winds from west northwest at 10-15 mph.

1030 START PRYS onsite. Conducted bump test of all 3 AREARAES and rebooted EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed the bump test and EPAERT 351 successfully rebooted after 3 attempts.

1130 START PRYS was offsite. (PP)

23 Jan 2022

1/24/22 Prys

WEATHER: High of 51°F, Sunny, Winds from west at 5-10 mph. (PP)

1030 START PRYS onsite. Conducted bump check of all 3 AREARAES and rebooted EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed bump tests and EPAERT 351 successfully rebooted after 2 attempts.. (PP)

1140 START PRYS offsite. (PP)

24 Jan 2022

Rite in the Rain

1/25/22 PRYS

WEATHER: High of 58°F, Cloudy, winds from west northwest at 5-10 mph

0835 START PRYS onsite. Conducted bump check of all 3 AREARAES and rebooted EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed the bump test and EPAERT 351 successfully rebooted. (PP)

0915 START PRYS was offsite. (PP)

25 JAN 2022

1/26/22 PRYS

WEATHER: High 53°F, Sunny, winds from North Northwest at 5-10 mph

0750 START PRYS on site. Conducted bump test of all 3 AREARAES and rebooted EPAERT 351 to continue HF monitoring with SPM FLEX 160. All AREARAES passed the bump test and EPAERT 351 successfully rebooted.

0825 START PRYS offsite. (PP)

1330 START PRYS on site. Picked up EPAERT 350, EPAERT 351, and SPM FLEXES 160 and 162 to take to the EPA warehouse. Will return EPAERT 351 and 354 for a new smart gateway. Connected SPM FLEX 160 to EPAERT 350 via line 160 (SPM line) and began a new Viper Run. (PP)

1530 Returned to site and set up SPM FLEXES in their same locations. SPM FLEX 162 was operating, but SPM FLEX 160 was not. Contacted EPA Basha for assistance. Began a new run but ~~sit~~ (PP) SPM FLEX 160 was still not working. START PRYS

1/26/22 Prys

1530 went into the master apps for SPM Flexes 160 and 162 and opened the data input settings for each. There was a difference in the "separate line" and "~~default~~" (PP) "GPS default" IP addresses. Changed those IP addresses to match SPM Flex 162 IP addresses, closed SPM Flex 160 app, and it connected after rebooting.

1650 start Prys offsite. (PP)

26 Jan 2022

1/27/22 Prys

Weather: High of 52°F, Sunny, winds light and variable (PP)

1125 start Prys on site. HCl chemcassette for SPM Flex 162 ran out early in the morning. Replaced HCl chemcassette and resumed HCl monitoring using SPM Flex 162. Conducted bump check of all apparatus and all passed. (PP)

1225 start Prys offsite. (PP)

27 Jan 2022

Rite in the Rain

1/28/22 Prys

WEATHER: High of 47°F, Cloudy, Winds from west northwest at 10-20 mph

1315 START PRYS on site. Conducted bump check on all 3 AREARAES AND all 3 passed. — PC

1345 START PRYS offsite. — PC

28 JAN 2022

1/30/22 Jones

Weather: 29°/54°, Sunny, Wind WSW at 7mph w/ windgusts up to 21mph.

1200 - START Jones onsite. Conducted bump test on all 3 AreaRAEs and all 3 passed. — EJ

1230 - START Jones offsite. — EJ

01/30/22
Emily Jones

Rite in the Rain

02/01/22 Jones

Weather: 29°/51° Clear. Wind W @ 6mph

~~06~~ 1830 - START onsite. Conducted bump test on all AreaRAEs. Location 2 & ~~7~~ 6 pass. Location 7 failed H2S & CO cal. Performed fresh air cal & span cal. Both pass. — EJ

1914 - START offsite — EJ

02/01/22
Emily Jones

02/03/22 Jones

~~1745~~ - EJ Weather - 44°/64°. Light rain all day. Wind s/se at 3-12mph.

1745 - START Jones onsite. Conducted bump test on all 3 AreaRAEs. Location 2 & 7 pass. Location 6 H2S & CO fail. START will troubleshoot tomorrow when it's not raining. — EJ

1830 - START Jones offsite. — EJ

02/03/22
Emily Jones

Rite in the Rain

02/04/22 Jones

~~1230~~ Weather - 27°/48° Scattered showers, Wind WNW @ 9mph. ——— EJ

1230 - START Jones onsite. Take location 6 AreaRAE to fresh air & perform fresh air cal. All sensors pass. Conducted VOC bump test which passes. NO bump passes. H2S & CO span cal & bump test pass. ——— EJ

1320 - START offsite. ——— EJ

02/04/22
Emily Jones

02/05/22 Jones

Weather - ~~38°/21°~~ EJ 31°/51°, Sunny Wind east/northeast 8-14mph.

1830 - START Jones onsite. Conducted bump test on all AreaRAEs. Locations 1 & 7 pass. Location 6 CO fails due to cold gas. ——— EJ

1900 - START offsite. ——— EJ

02/05/22
Emily Jones

Rite in the Rain

24 02/07/22 Jones

Weather - 50°/32°, Mixed sun & clouds. Wind NW @ 5mph. ——— EJ

1000 - START Jones and Prys onsite. Changed empty chemcassette on SPM 160 to 90-day tape Conducted bump test on all AreaRAEs. All pass.

1040 - START offsite. ——— EJ

02/07/22
Emily Jones

02/09/22 Jones

Weather - 33°/61°. Sunny. Wind E @ 10mph.

0930 - START Jones & Godbee onsite Conducted bump test on all AreaRAEs. all pass. Conducted span cal for VOC at location 7, passes. ——— EJ

1000 - START Offsite. ——— EJ

2/9/22
Emily Jones

Rite in the Rain

2/12/22 Prys

Weather: High of 70°F, Sunny, Winds from west southwest at 5-10mph

0920 START Prys on-site. Conducted bump check of AreaRAE Pros. AreaRAE at Location 3 was off due to the extension cord being slightly detached from the unit, and the battery ran out. START Prys reattached the connection and let the battery recharge for 30 min. The AreaRAEs had minor issues passing the bump checks. START Prys ~~ka~~ returned to the office to get new filters for the units. After changing the filters, the AreaRAEs passed the bump checks. No data was collected at Location 3 from 2/11/22 to 2/12/22.

1120 START Prys offsite.

[signature] 12 Feb 2022

2/14/22 Jones

~~1600 - START~~ OJ Weather - 30°/48° wind NW @ 8 mph. Sunny. ——— EJ

1600 - START onsite. Conducted bump test on all AreaRAEs. All pass.

1630 - START offsite. ——— EJ

Emily Jones 2/14/22

Rite in the Rain

~~1000~~ Weather - 41°/65°. Cloudy. Wind NW 7mph.

1000 - START onsite. Conducted bump test on all AreaRAEs. All pass. ERs onsite draining water from southern most roll off to Northern roll off to prepare for rain.

1030 - START offsite. ——— EJ

1230 - SPM 160 down due to high background fault. ——— EJ

1400 - START Jones & START Prys onsite to troubleshoot SPM issues & give Basha a tray from ~~one of the~~ 2J AreaRAE location 7. ——— EJ

~~1500~~ 1415 - Reset SPM fault & reconnected to viper. ——— EJ

1420 - START offsite ——— EJ

Emily Jones
2/16/22

~~0900~~ Weather - 33°/62° Sunny with cloudy conditions in the afternoon. Wind S/SE at 7-12mph.

0900 - START Jones & Prys onsite.

AreaRAE location 1 down due to power disconnection. Reconnected & let charge. Conducted bump tests on locations 6 & 7. & both pass. Stopped SPM run on viper & moved both SPMs to one tray next to the southern roll off and AreaRAE location 6. Reconfigured extention cords to reduce tripping hazard and connected all instruments to short power. Set up SPM 160 & 162 run on Viper. Bump tested AreaRAE location 1, passes. Basha updating EPA ERT 350, will set up run when done.

1130 - START offsite. ——— EJ

2/18/22
Emily Jones

Rite in the Rain

Weather- 57°/28°. Sunny. Wind ESE 2-8mph.

1100- START onsite. Conducted bump test on all AreaRAEs. All pass. SPM Flex 160 displaying 105- High background fault. Reset alarm and used compressed air to clean optics. Conducted optics verification and it passes. ——— EJ

1145- START offsite. ——— EJ

1440- START onsite due to SPM Flex 160 disconnecting from viper. Started new run to re-register run to Lakes Parkway Deployment. Restarted run and linc. 160. SPM Flex 160 now communicating w/ viper.

1530- START offsite. ——— EJ

Emily Jones 2/20/22

Weather- 38°/58°. Cloudy. 50% chance of rain at 1500. Wind W 8 mph.

1000- START onsite to troubleshoot SPM Flex 160 high background fault. Cleaned optics lens and slightly advanced tape. SPM 160 now back in monitoring mode. ——— EJ

1030- START offsite ——— EJ

Emily Jones 2/21/22

Rite in the Rain

 2/22/22 Jones

Weather- 51°/74° Cloudy. Wind W/NW 6mph. —— EJ

0730- START onsite. Conducted bump test on all AreaRAEs. All pass. Flex 160 down due to high background fault. Reset.

1000- OSC Booth onsite. —— EJ

1100- ERS (STEVE & LANE) onsite. Plan for the day is to pump water out of the rolloffs. Water will be disposed of as non-hazardous waste. —— EJ

1330- ER begins pumping water from southern roll off into ~~IBC totes~~ ~~EJ~~ totes. —— EJ

1345- Placed corrosive filter onto SPM Flex 160 —— EJ

1530- ER filled 4 totes w/waste water.

1540- START offsite. —— EJ

2/22/21
Emily Jones

2/23/22 Jones

0830- START, OSC Booth, & ER onsite. Weather- 71°/58°. Rain in the morning. Cloudy in the afternoon. Wind NE 8-10mph. —— EJ

0930- ER pumping water from rolloff to IBC totes. —— EJ

1030- ER finished pumping water into totes. Will begin packing batteries after lunch. START conducted bump test on all AreaRAEs. Locations 6 & 7 pass. Location 1 failed H2S bump. Changed moisture filter, did fresh air cal and span cal. Passed the fresh air, but failed span cal. Turned sensor off for the time being. —— EJ

1230- Basha onsite to trouble shoot AreaRAE 1 H2S sensor. Water got into the sensor, so Basha will have to take it back to the warehouse. AreaRAE 11 will replace.

1340- Set up AreaRAE 11 on Viper & started a new run. —— EJ

1400- ER bagging batteries.

Emily Jones

Rite in the Rain

2/23/22 Jones

1615 - ER stops packing batteries and prepares to leave. Batteries that were packaged in bags (1 batt. per bag) and then put into ~~totes~~ 6 gal. buckets are being stored in the northern most conex box. ER closed the rollout and covered it. ——— EJ

1700 - START offsite. ——— EJ

2/23/22
Emily Jones

2/24/22 Jones

Weather - 57°/73°. Cloudy. Wind 3-5mph East. ——— EJ

0830 - Jones and Jin onsite

0900 - Conducted bump test on all AreaRAEs. Location 1 passed. Location 6 H_2S span cal passed. 3 all sensors passed bump. Location 7 Cl_2 failed bump; Passed span then passed bump. All other sensors passed bump. ——— EJ

ER, OSC Krull & OSC Vasser onsite.

0930 - ER continues bagging batteries.

1030 - ER packing loose batteries in drums w/ ~3" layers of cell block between each layer of batteries. ER recording weights. OSC Vasser offsite. START Jin offsite. ——— EJ

1130 - ER now has 5 crew members onsite to assist w/ packing. ——— EJ

1300 - ERs continues packing batteries. Placing larger batteries into 6 gal buckets before putting them in drums.

1330 - For large batteries ER is placing a 3" layer of cell block

Emily Jones

Rite in the Rain

cellblock lined

into a 55gal drum & layering batteries between 2" of cell block then topping off w/ 3" of cell block. Smaller bagged batteries go into a plastic lined drum and follow the same layering procedure. —— EJ

1600- ERs packed 87 drums (4 small battery, plastic lined and 3 cellblock lined, big battery). —— EJ

1630- ER staging packed batteries in the north western corner of the parking lot.

1700- START offsite. —— EJ

2/24/22
Emily Jones

0815- START Jones, ER, & OSC Geoie onsite. Conducted bump test on all AreaRAEs. Location 67 needed span cal for Cl_2 sensor. All others pass. ER continues w/ activities from yesterday. Weighing batteries, bagging small ones and putting in cellblock layered drums w/ plastic lining. Large batteries in cellblock lined drums w/ cellblock layers between each battery. —— EJ

1000- ER staging drums in northern most Conex box. Truck arrived for loading & ER had to stop activities.

1200- TOOK AreaRAE location 7 into fresh air bc NO TWA alarm is going off. Passed fresh air cal. Will leave out till lunch is over. —— EJ

1220- did fresh air cal on location 6 & put out in fresh air during lunch.

1430- ERs continues bagging batteries. Set up AreaRAE locations 6 & 7. TWA alarms would not turn off. —— EJ

1620- START Prys collected samples from sandy sludge at the bottom of

Emily Jones

Rite in the Rain

2/25/22 Jones

Northern rolloff. Analysis: TCLP VOCs in 2 2-ounce jars, TCLP SVOCs in 1 4-ounce jar, TCLP metals in 1, 4-ounce jar. Will be taken to AES this evening. —— EJ

1630 - ERs staging drums in northern most conex. Total of 20 drums packed so far. 7 cold recycle drums (cell block lined) 6 standard drums (plastic lined) packed today (13 daily total; 20 overall). —— EJ

1700 - START OFFSITE. —— EJ

2/25/22
Emily Jones

2/26/22 K Jones

Weather - 36°/62°. Mostly cloudy. Wind South 4-6 mph. —— EJ

0830 - START. ERs. & OSC Booth onsite. Conducted bump tests on all AreaRAEs. All pass. Location 1 Oxy sensor reading low. Turned it off. Probably due to the cold weather. ERs cutting plastic around a big battery so it will fit in a drum. —— EJ

1100 - ERs packed 4 drums so far. START offsite. —— EJ

2/26/22
Emily Jones

Rite in the Rain

 2/27/22 Jones

Weather - 75°/37°. Rainy in the morning. Wind W@8mph
1600 - START onsite to reconnect SPM 160 to Viper. Put back in Monitor mode. STAND OFFSITE

2/27/22
Emily Jones

2/28/22 Jones

Weather - 60°/41°. Cloudy. Wind W@ 4-6mph ——— EJ
0830 - START Jones, ERs, & DSC Booth onsite. SPM Flex 160 down due to high background fault. Reset & put back in monitor mode. Conducted bump tests on all AreaRAEs Location 7 Cl2 failed bump. passed span cal. All others pass. ERs continues packing drums following the same protocol. So far 8 plastic lined drums & 27 cellblock lined drums (35 total) have been packed & stored in Conex. ——— EJ
1230 - SPM Flex 162: 104-Tape advance failure fault. Manually advanced tape. ——— EJ
1445 - SPM Flex 162: 104 tape Advance failure again. Manually advanced tape. May need to replace tape due to continuous faulting. Had to stop AreaRAE run on viper b/c Location 1 was only taking 1 reading/hour. Reconfigured to take a reading

Emily Jones

Rite in the Rain

every 30 seconds & started new run. SPM Flex 160 105 high background fault. Reset & put back in monitor mode. —— EJ

1714- 18 drums packed today. START offsite. —— EJ

2/28/22
Emily Jones

Weather- 35°/67°. Mostly sunny. High fire danger due to low relative humidity. Wind N/NW 5-10mph.

0830- START onsite, ER onsite, OSC Booth onsite. Conducted bump test on all AreaRAEs. All pass. SPM 160 105 high background fault. Had to reset & put back in monitor mode.

0930- ERs continues packing drums following same protocol as previous days. —— EJ

1400- ERs moving last large battery from northern rolloff using excavator. HF & HU monitors recieved hits of 20.00ppm once they removed the tarp from southern roll off to start draining water. —— EJ

1430- Replaced SPM Flex 160 & 162 Chemcassette tapes, due to constant high background faults. ERs begins transfering water from southern rolloff to northern roll off. ERs taking buckets from southern Conex & loading into trailer and cleaning up around the

Emily Jones

Rain in the Rain

2/ER 3/1/22 Jones

packaging area. — ET

1630 - SPM Flex 160 not recording data in viper despite being in monitor mode. Restarted linc 160 & meterapps. Now SPM Flex 160 communicating w/ VIPER.

1710 - Southern rolloff drained. Leaving the door cracked overnight. START offsite.

3/1/22
Emily Jones

3/2/22 Jones

Weather - 41°/76°. Low relative humidity. Wind E @ 5-10 mph.

0830 - START. ER. & OSC Booth onsite. Conducted bump test on all Area RAE's & all pass. ER now packing drums w/ batteries from southern rolloff. Mostly medium-large batteries.

1130 - Truck loading at STG.116 takes about an hour so ER had to stop working for that time. Work resumed.

1330 - SPM flex 160 detected 20.00 ppm HCl at 1317. Readings went down in 2 seconds. Informed OSC Booth. 15 drums packed so far. — ES

1430 - OSC Booth offsite. — ES

1530 - Both SPM Flexes have 105 high background fault. ER had a fan blowing towards the Flexes, reset fault & asked ER to move fan. — ES

1630 - ER cleaning up for the day. Staging drums in conex boxes & next to sand/dumpters. 23 batteries packed today.

3/2/22
Emily Jones

3/3/22 Jones

Weather - 44°/78°. Sunny. low relative humidity, Wind E @ 4mph. —— EJ

0800- START & ERs onsite. Conducted bump tests on all AreaRAEs. All pass. OSC Vasser & Krull onsite. —— EJ

0830- ER continues packing drums following same protocol as previous days, Working out of Southern rolloff.

1000- ER STEVE measures voltage of a large battery. Measured 0.129 V.

1330- Breaking apart large battery to seperate individual cells.

1500- ER bagging small batteries. All large batteries in drums.

1700- START offsite. —— EJ

3/3/22
Emily Jones

3/4/22 Jones

Weather - 48°/73° Sunny Wind N 1-5mph.

0830- START & ERs onsite. Will finish packing batteries today. Basha coming out 11 to pick up air monitoring.

1000- Stopped Viper runs & packed all equipment. Ready for pickup from Basha. —— CO

1100- Clean Harbors vac truck onsite to pump water from totes/rolloff

1115- ~~otis~~ ~~co~~ Basha otis picked up equipment. —— EJ

1145- START Collected LBLBF-SL-L02-080922 at 1135 from southern rolloff.

1300- ER swept out southern rolloff. Leaving door open over the weekend. Finished bagging batteries & now cleaning site, staged unused CTR drums under tents. —— CO

1600- START & ER offsite.

3/4/22
Emily Jones

Rite in the Rain

3/8/22 Jones

1100- START onsite. ER preparing to ship drums. Sand shipped off earlier in the week along w/ rolloffs & water.
Batteries/drums leaving site today:
16 55G steel drums (no liner)
45 55g Steel C2R drums (cell block lined)
14 55g ~~steel~~ ER steel drums w/ no batteries.
75 drums total. ——— ER

3/8/22
Emily Jones

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ENCLOSURE 6

TETRA TECH STAGE 3 AND STAGE 2A DATA VALIDATION REPORTS

(84 Pages)

DATA VALIDATION CHECKLIST – STAGE 3
EPA REGION 4 START CONTRACT

Site Name	Lakes Parkway Lithium Battery Fire		**TO/TOLIN No.**	0082-035
Data Reviewer (signature and date)	Aaron L Smith March 23, 2022		**Technical Reviewer (signature and date)**	Harry N. Ellis III 28 March 2022
Laboratory Report No.	2112G62		**Laboratory**	Analytical Environmental Services – Atlanta, GA
Analyses	Volatile organic compounds (VOCs) by SW-846 Method 8260D; semi volatile organic compounds (SVOCs) by SW-846 Method 8270E; metals by SW-846 Methods 6010D, 7470A, and 7473; and toxicity characteristic leaching procedure (TCLP) metals by SW-846 Methods 1311/6010D and 1311/7470A			
Samples and Matrix	Seven soil samples (including one field duplicate), three surface water samples (including one field duplicate), and three field QC blank samples			
Collection Date(s)	December 11 and 13, 2021			
Field Duplicate Pairs	LLB-SW-L01-121121/LLB-SW-L01-121121-DUP and LLB-SS-L01-121121/LLB-SS-L01-121121-DUP			
Field QC Blanks	LLB-EB-121321, LLB-FB-121321, and LLB-TB-121321			

INTRODUCTION

This checklist summarizes the Stage 3 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan (QAPP), Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 2* (February 2021), the EPA National Functional Guidelines (NFGs) for Organic Superfund Methods Data Review (November 2020), and the EPA NFGs for Inorganic Superfund Methods Data Review (November 2020).

OVERALL EVALUATION

No rejection of results was required for this data package. The results may be used as qualified by this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	The chain of custody (COC) lists samples LLB-SW-L01-121121-DUP and LLB-SS-L01-121121-DUP; however, the laboratory logged the samples in as LLB-SW-L01-121121 (DUP) and LLB-SS-L01-121121 (DUP). The sample names were manually corrected in this checklist and the attached qualified summary table to match the COC. Sample containers preserved with sodium bisulfate in accordance with Method 5035 for VOC analysis were not received for samples LLB-SS-L02-121121, LLB-SS-L03-121121, LLB-SS-L04-121121, and LLB-SS-L05-121121. Preserved soil vials were prepared at the laboratory from the supplied unpreserved containers. These samples were received on ice at less than 6 degrees Celsius (°C) and were prepared within 72 hours of collection, which exceeded the 48-hour holding time. Therefore, the VOC results for these four samples were qualified as estimated (flagged J/UJ).

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	**ICP Metals**: The QAPP specifies that a blank and at least five standard solutions shall be used to calibrate the instrument; however, the laboratory utilized a blank and three standard solutions to calibrate the instrument. The correlation coefficient of 0.998 was met for all analytes. The calibration was shown to be accurate and precise throughout the analytical sequence using continuing calibration verification (CCV) standards. As a result, no qualifications were applied for this deviation.

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	**SVOCs, Inst. MS-9, 12/14/2021 at 10:53**: The CCV percent differences (%Ds) for 4,6-dinitro-2-methylphenol and pentachlorophenol were outside of acceptable limits; therefore, these non-detect results for LLB-SW-L01-121121, LLB-SW-L02-121121, and LLB-SS-L01-121121 were qualified as estimated (flagged UJ). **SVOCs, Inst. MS-10, 12/14/2021 at 09:52**: The CCV %Ds for 2,4-dinitrophenol and 2-nitrophenol were outside of acceptable limits; therefore, these non-detect results for LLB-SW-L01-121121-DUP, LLB-SS-L01-121121-DUP, LLB-SS-L02-121121, LLB-SS-L03-121121, LLB-SS-L04-121121, LLB-SS-L05-121121, LLB-EB-121321, and LLB-FB-121321 were qualified as estimated (flagged UJ). **VOCs, Inst. MS-16, 12/14/2021 at 09:48**: The CCV %Ds for tetrachloroethene and trichloroethene were outside of acceptable limits; therefore, these results for all water samples were qualified as estimated (flagged UJ). **VOCs, Inst. MS-12, 12/14/2021 at 09:26**: The CCV %D for dichlorodifluoromethane was outside of acceptable limits; therefore, these results for all soil samples were qualified as estimated (flagged UJ).

Calibration Verification:

Within Criteria	Exceedance/Notes
N	**SVOCs**: The initial calibration verification (ICV) %D for acetophenone was outside of acceptable limits in the ICVs associated with all project samples; therefore, the acetophenone non-detect results in all samples were qualified as estimated (flagged UJ).

Method blanks:

Within Criteria	Exceedance/Notes
N	**Metals, Batch 327304**: Arsenic was detected in the method blank at a level above the method detection limit (MDL) but below the reporting limit (RL). Therefore, the arsenic results in LLB-SS-L01-121121-DUP, LLB-SS-L03-121121, LLB-SS-L05-121121, and LLB-SS-L06-121121 were qualified as not detected (flagged U) and the values were raised to the RL.

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	**SVOCs**: The percent recoveries (%Rs) were below acceptable limits for the acid extractable surrogate phenol-d_5 in LLB-SS-L03-121121, LLB-SW-L01-121121-DUP, and LLB-SW-L02-121121, and for the acid extractable surrogate 2-fluorophenol in LLB-SW-L02-121121. Therefore, the acid extractable analytes in in these samples were qualified as estimated, potentially biased low (flagged J-/UJ). The %Rs for the base/neutral extractable surrogates 2-fluorobiphenyl and 4-terphenyl-d_{14} were below acceptance limits in LLB-SS-L03-121121. Therefore, the base/neutral extractable analytes in LLB-SS-L03-121121 were qualified as estimated, potentially biased low (flagged J-/UJ).

MS/MSDs:

Within Criteria	Exceedance/Notes
N	MS/MSDs performed on samples from other data packages were not evaluated. **LLB-SS-L02-121121 (VOCs)**: Only method-specified compounds were spiked into the MS/MSD and were therefore evaluated. The relative percent differences (RPDs) for benzene, toluene, and trichloroethene exceeded acceptance limits; however, no qualifications were applied because the associated results were non-detect. **LLB-SS-L02-121121 (SVOCs)**: A total of 23 SVOC compounds were not spiked into the MS/MSD and were therefore not evaluated. The %Rs were below the acceptance limits for 3,3-dichlorobenzidine, anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, dibenz(a,h)anthracene, dibenzofuran, di-n-octyl phthalate, fluoranthene, indeno(1,2,3-cd)pyrene, and phenanthrene. Therefore, the results for these analytes except anthracene in LLB-SS-L02-121121 were qualified as estimated, potentially biased low (flagged J-/UJ). No qualification was applied for anthracene because the average %R was within limits. Additionally, the relative percent difference for benzo(k)fluoranthene exceeded acceptance limits; however, no qualifications were applied because the associated result was previously qualified for %R exceedances. **LLB-SS-L02-121121 (metals)**: The %Rs and RPDs for aluminum, iron, and zinc were not evaluated because the parent sample results were greater than 4 times the spike added. No qualifications were applied. The %Rs for copper and potassium were above the acceptance limits: therefore, potassium in LLB-SS-L02-121121 was qualified as estimated, potentially biased high (flagged J+). No qualification was applied for copper because the average %R was within limits. Calcium yielded an MSD %R below limits and MS %R and RPD above limits; therefore, calcium in LLB-SS-L02-121121 was qualified as estimated (flagged J). **LLB-SW-L02-121121 (SVOCs):** A total of 30 SVOC compounds were not spiked into the MS/MSD and were therefore not evaluated. The MSD %R for acenaphthene was above the acceptance limits; however, no qualification was necessary because the average %R was within the acceptance limits. **LLB-SW-L02-121121 (metals):** The average %R for mercury was below the acceptance limits; therefore, mercury in LLB-SW-L02-121121 was qualified as estimated, potentially biased low (flagged UJ).

Post digestion spikes:

Within Criteria	Exceedance/Notes
Y	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	**LLB-SS-L01-121121/LLB-SS-L01-121121-DUP**: The RPD or absolute difference between the parent and field duplicate sample were greater than the acceptable limits for cobalt, VOC 1,2-dichloroethane, and SVOC benzo(k)fluoranthene. Therefore, these results were qualified as estimated (flagged J/UJ) in both the parent and field duplicate samples.

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	**VOCs, Batches 327330 and 327367**: Only method-specified compounds were spiked into the aqueous LCSs and were therefore evaluated. **VOCs, Batch 327330**: The soil LCS %R for dichlorodifluoromethane was above acceptance limits; however, no qualifications were applied because the associated results were non-detect. **SVOCs, Batches 327248 and 327269**: A total of 29 SVOC compounds were not spiked into the LCS and were therefore not evaluated.

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	The following samples were analyzed at a dilution due to concentrations exceeding the calibration range of the instrument. MDLs and RLs were adjusted accordingly. The sample-specific MDLs and RLs are presented in the attached qualified summary table. • A dilution of 10-fold for benzo(b)fluoranthene, fluoranthene, and pyrene in LLB-SS-L02-121121. • A dilution of 20-fold for iron in all soil samples except LLB-SS-L06-121321.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
N	The %R for internal standard compound 1,4-dichlorobenzene-d_5 was below acceptable limits in LLB-SS-L01-121121, LLB-SS-L01-121121-DUP, LLB-SS-L03-121121, LLB-SS-L04-121121, and LLB-SS-L05-121121. Therefore, the detected result for isopropylbenzene in LLB-SS-L01-121121-DUP was qualified as estimated, potentially biased high (flagged J+). No additional qualifications were necessary as the remaining associated target analytes in these samples were not detected. In addition, the %R for internal standard compound chlorobenzene-d_5 was below acceptable limits in LLB-SS-L04-121121. However, qualifications were not necessary as the associated target analytes were not detected.

Target analyte identification:

Within Criteria	Exceedance/Notes
Y	

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Results between the MDL and the RL were qualified as estimated, (flagged J) by the laboratory.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8260D VOCs

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)	Check
Initial Calibration	Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required).	ICAL on 11/8/2021 on Inst. MS-16	See I-cal recalculation spreadsheet for response factors and RSD recalcs	√
	Confirm (in raw data) that an initial calibration occurs at the required frequency.			√
	Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.	Pages 590-618, Benzene Datafile V1636151.D, 10 ppm Ical std 11/8/2021 at 11:48	Reported RF: 0.758 (231878*50 ugl)/(1528606*10 ugl) = 0.758	√
		Page(s) 590 Benzene Method file MS-16_VW_LOW_110821.M, 11/9/2021 11:06	Reported $\overline{RRF}$: Benzene = 0.810 (0.768+0.785+0.752+0.805+0.758+0.967+0.810+0.824+0.819+0.812))/10 = 0.810	√
		Page(s) 590 Benzene Method file MS-16_VW_LOW_110821.M, 11/9/2021 11:06	Reported Benzene RSD = 7.52% (0.061/0.810)*100 = 7.53% (rounding)	√

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8260D VOCs

Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.

SHOW ALL WORK FOR RECALCULATIONS

Tune	Confirm BFB Percent Relative Abundance	Page 589, Datafile: V1636151.D 11/8/2021 at 11:48	m/z 75 = 49.1% (241813/492672)*100 = 49.1%	√
ICV	Check result	Page 660, Datafile: V1636179.D 11/8/2021 at 11:00	Benzene = 21.03 ugl (526099*50 ugl)/(1544078*0.81) = 21.03 ugl	√
	Recalculate one RRF	NA - ICV RRFs not provided		
	Recalculate one %R	Page 616, Datafile: V1636179.D 11/8/2021 at 11:00	Benzene %D = 5.2% (abs(20 ugl-21.03 ugl)/20 ugl) * 100 = 5.2%	√
A CCV applicable to our samples	Check result	Page 558, Datafile: V1637453.D 12/14/2021 at 09:48	Benzene = 23.04 ugl (386679*50 ugl)/(1035957*0.810) = 23.04 (rounding)	√
	Recalculate one RRF	NA - ICV RRFs not provided		
	Recalculate one %D	Page 558, Datafile: V1637453.D 12/14/2021 at 09:48	Benzene %D = 15.2% (abs(20 ugl-23.04 ugl)/20 ugl) * 100 = 15.2%	√
Method Blank	Check result	NA - No detections		√
Surrogate	Recalculate one %R	Page 573, datafile: V1637464.D 12/14/2021 at 13:44	4-Bromofluorobenzene = 96.44% (48.22 ugl/50.0 ugl)*100 = 96.44%	√
MS	Check result	Page 576, datafile: V1637465.D 12/14/2021 at 14:06	Benzene = 24.04 ugl (361245*50 ugl)/(927652*0.810) = 24.04 ugl	√
	Recalculate one %R	Page 112, 2112G62-003AMS 12/14/2021 at 14:06	Benzene = 120% (24.04 ugl/20 ugl)*100 = 71.0 %	√
MSD	Check result	Page 579 datafile: V1637466.D 12/14/2021 at 14:27	Benzene = 23.14 ugl (361170*50 ugl)/(963293*0.810) = 23.14 ugl (rounding)	√
	Recalculate one %R	Page 114, LLB-SW-L02-121121 12/14/2021 at 14:27	Benzene = 116% (23.14 ugl/20 ugl)*100 = 115.7 %	√
	Recalculate one RPD value between MS and MSD	Page 114, LLB-SW-L02-121121 12/14/2021 at 14:27	Benzene = 3.82% (abs(24.04-23.14)/((24.04-23.14)/2))*100 = 3.82 %	√

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8260D VOCs

LCS	Check result	CCV was used as the blank spike/LCS sample. See CCV recalcs above	See CCV recalcs	√
	Recalculate one %R	CCV was used as the blank spike/LCS sample. See CCV recalcs above	See CCV recalcs	√
LCSD	Check result	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√
	Recalculate one %R	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√
	Recalculate one RPD value between LCS and LCSD	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√
Internal Standards	Recalculate one %R	IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV	LLB-SW-L01-121121	√
	Recalculate one delta RT	IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV	LLB-SW-L01-121121	√
Sample Result for LLB-SW-L01-121121	Check result	Page 7, 573, datafile: V1637464.D 12/14/2021 at 13:44	Benzene = 0.80 ugl (12413* 50 ugl)/(961792*0.810) = 0.80 ugl	√
MDL for LLB-SS-L01-121121	Check result	Page 19, Sample ID LLB-SS-L01-121121 12/14/2021 at 13:26	Benzene MDL = 7.0 ug/kg-dry (2.1 ug/kg)/((100%-57%)/100) * (5/3.54 [prep factor]) = 6.9 ug/kg-dry (rounding)	√
RL for LLB-SS-L01-121121	Check result	Page 19, Sample ID LLB-SS-L01-121121 12/14/2021 at 13:26	Benzene RL = 16 ug/kg-dry (5.0 ug/kg)/((100%-57%)/100) * (5/3.54 [prep factor]) = 16.4 ug/kg-dry (rounding)	√
Convert µg/m^3 to ppbV (air only) for	Check result	NA	NA	NA

Formulas:

* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

** Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

*** %R = [(Measured Value) / (True Value)] x 100

**** %R = {(Spike sample result) - (Sample result)} / (Spike added)} x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

Report No: 2112G62

VOC - Initial Calibration 11/8/2021

GC-MS Instrument MS-16 Benzene Page(s): 590-650

Level	1	2	3	4	5	6	7	8	9	10
Concentration, ppm (ug/L)	0.5	1	2	5	10	20	50	100	150	200
Benzene Response	11660	23515	45693	121306	231878	596006	1220195	2583158	3711729	4941640
1,4-Difluorobenzene, ppm (ug/L)	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
1,4-Difluorobenzene Response	1518724	1497368	1519522	1506305	1528606	1540656	1506003	1568278	1510362	1520945
RF	0.768	0.785	0.752	0.805	0.758	0.967	0.810	0.824	0.819	0.812

√

Std Dev	0.061		
Mean Rf	0.810	Page(s): 590	√
%RSD	7.52	Page(s): 590	√

Level 5: 10 ppm (ug/L) RF Check	Response		Concentration	Units		Page(s):
Benzene =	231878		10.0	µg/L		618
1,4-Difluorobenzene (IS)* =	1528606		50.0	µg/L		618

231878	x	is conc	50	=	0.758	0.758	Page(s): 590
1528606	x	target conc	10				

√

ICV 20 ppm (ug/l) RF Check

526099	x	50	=	0.852	0.852	Page(s): 660
1544078	x	20				

√

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8270E SVOCs

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)	Check
Initial Calibration	Confirm (in raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required).	ICAL on 4/2/2021 on Inst. MS-9	See I-cal recalculation spreadsheet for response factors, RSDs and linear regression recalulations	√
	Confirm (in raw data) that an initial calibration occurs at the required frequency.			√
	Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.	Pages 443-465 Benzo(a)pyrene Datafile S21040213.D, 40 ppt Ical std 4/2/21 at 15:56	Reported RF: 1.262 (133402*40 ng)/(105734*40 ng) = 1.262	√
		Page(s) 465 Benzo(a)pyrene Datafile S21040213.D, 40 ppt Ical std 4/2/21 at 15:56	Reported $\overline{RRF}$: Benzo(a)pyrene = 1.249 (1.177+1.177+1.262+1.289+1.221+1.29+1.325)/7 = 1.249	√
		Page(s) 465 Benzo(a)pyrene Datafile S21040213.D, 40 ppt Ical std 4/2/21 at 15:56	Reported RSD = 4.65% (0.058/1.249)*100 = 4.64% (rounding)	√

Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.

SHOW ALL WORK FOR RECALCULATIONS

Tune	Confirm DFTPP Percent Relative Abundance	Page 426, Datafile: S21040210.D 4/2/2021 at 14:37	m/z 69 = 47.6% (83069/174464)*100 = 47.61%	√
	Check result	Page 481-483, Datafile: S21040628.D 4/6/2021 at 17:31	Benzo(a)pyrene = 32.16 ng (123523*40 ng)/(123033*1.249) = 32.153 (rounding)	√

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8270E SVOCs

ICV	Recalculate one RRF	Page 480-483, Datafile: S21040628.D 4/6/2021 at 17:31	Benzo(a)pyrene ICV RRF = 1.004 (123523*40 ng)/(123033*40 ng) = 1.004	√
	Recalculate one %R	Page 477, Datafile: S21040628.D 4/6/2021 at 17:31	Benzo(a)pyrene %D = 19.6% ((40 ng - 32.16 ng)/40 ng) * 100 = 19.6%	√
A CCV applicable to our samples	Check result	Page 362-364, Datafile: S21121405.D 12/14/2021 at 10:53	Benzo(a)pyrene = 60.539 ng (255782*40 ng)/(135350*1.249) = 60.52 (rounding)	√
	Recalculate one RRF	Page 347-349, Datafile: S21121405.D 12/14/2021 at 10:53	Benzo(a)pyrene CCV RRF = 1.260 (255782*40 ng)/(135350*60 ng) = 1.260	√
	Recalculate one %D	Page 346, Datafile: S21121405.D 12/14/2021 at 10:53	Benzo(a)pyrene %D = 0.9% ((60 ng - 60.54 ng)/60 ng) * 100 = 0.9%	√
Method Blank	Check result	NA - No detections		√
Surrogate	Recalculate one %R	Page 37, LLB-SS-L05-121121 12/14/2021 at 14:30	4-Terphenyl-d14 = 71% (35.5 ng/50.0 ng)*100 = 71%	
MS	Check result	Page 382-384, datafile: S21121459.D 12/14/2021 at 20:21	Benzo(a)pyrene = 35.51 ng (249746*40 ng)/(225325*1.249) = 35.5	√
	Recalculate one %R	Page 59, LLB-SW-L02-121121 12/14/2021 at 20:21	Benzo(a)pyrene = 71.0% (35.51 ng/50 ng)*100 = 71.0 %	√
MSD	Check result	Page 386-388, datafile: S21121460.D 12/14/2021 at 20:47	Benzo(a)pyrene = 39.00 ng (233548*40 ng)/(191849*1.249) = 38.99 (rounding)	√
	Recalculate one %R	Page 62, LLB-SW-L02-121121 12/14/2021 at 20:47	Benzo(a)pyrene = 78.0% (39.00 ng/50 ng)*100 = 78.0 %	√
	Recalculate one RPD value between MS and MSD	Page 62, LLB-SW-L02-121121 12/14/2021 at 20:47	Benzo(a)pyrene = 9.37% (abs(39.00-35.51)/((39.00+35.51)/2))*100 = 9.37 %	√
LCS	Check result	Page 374-376, Datafile: S21121457.D 12/14/2021 at 15:08	Benzo(a)pyrene = 43.1 ng (208315*40 ng)/(154824*1.249) = 43.1 ng	√
	Recalculate one %R	Page 65, Sample ID LCS-327248 12/14/2021 at 15:08	Benzo(a)pyrene = 86.2% (43.1 ng/50 ng)*100 = 86.2 %	√
LCSD	Check result	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√
	Recalculate one %R	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√

STAGE 3/4 DATA VALIDATION ORGANICS CHECKLIST FOR RECALCULATIONS

Data Package Number: 2112G62 Method: 8270E SVOCs

	Recalculate one RPD value between LCS and LCSD	NA - No LCSD. Analytical precision assessed with MS/MSD	NA	√
Internal Standards	Recalculate one %R	IS %Rs were not calculated in data package. IS recoveries were evaluated and within 50%-200% of CCV	LLB-SW-L01-121121	√
	Recalculate one delta RT	IS delta RTs were not calculated in data package. IS RTs were evaluated and within + or - 10 seconds of CCV		√
Sample Result for LLB-SS-L01-121121	Check result	Page 20, 687-689, datafile: S21121455.D 12/14/2021 at 13:27	Benzo(a)pyrene = 4,100 ug/kg-dry (273077* 40 ng)/(165871*1.249) = 52.72 ng (rounding) ((52.74 ng/0.001 L)*(0.001 L/30 g)*1000)/((100%-57%)/100) = 4088 ug/kg-dry	√
MDL for LLB-SS-L01-121121	Check result	Page 17, Sample ID LLB-SS-L01-121121 12/14/2021 at 13:27	Benzo(a)pyrene = 240 ug/kg-dry (100 ug/kg)/((100%-57%)/100) = 232.5 ug/kg-dry (rounding)	√
RL for TR-IA-01-12202021	Check result	Page 17, Sample ID LLB-SS-L01-121121 12/14/2021 at 13:27	Benzo(a)pyrene = 770 ug/kg-dry (330 ug/kg)/((100%-57%)/100) = 767.4 ug/kg-dry (rounding)	√
Convert µg/m^3 to ppbV (air only) for	Check result	NA	NA	NA

Formulas:

* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

** Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

*** %R = [(Measured Value) / (True Value)] x 100

**** %R = {(Spike sample result) - (Sample result)} / (Spike added)} x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

Report No: 2112G62

SVOC - Initial Calibration 4/2/2021

GC-MS Instrument MS-9 Benzo(a)pyrene Page(s): 432-465

Level	1	2	3	4	5	6	7	8
Concentration, ppt (ng/L)	5	10	20	40	60	80	120	160
Benzo(a)pyrene Response	NA	31059	64202	133402	201726	287804	429833	565513
perylene-d12, ppt (ng/L)	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
perylene-d12 Response	NA	105518	109094	105734	104371	117846	111057	106727
RF	NA	1.177	1.177	1.262	1.289	1.221	1.290	1.325

√

Std Dev	0.058		
Mean Rf	1.249	Page(s): 465	√
%RSD	4.65	Page(s): 465	√

Level 4: 40 ppt (ng/L) RF Check	Response	Concentratic	Units	Page(s):
Benzo(a)pyrene =	133402	40.0	µg/L	445
perylene-d12 (IS)* =	105734	40.0	µg/L	443

133402	x	40	=	1.262	Page(s): 465
105734	x	40			

√

ICV 40 ppt (ng/l) RF Check

123523	x	40	=	1.004	Page(s): 480
123033	x	40			

√

Report No: 2112G62

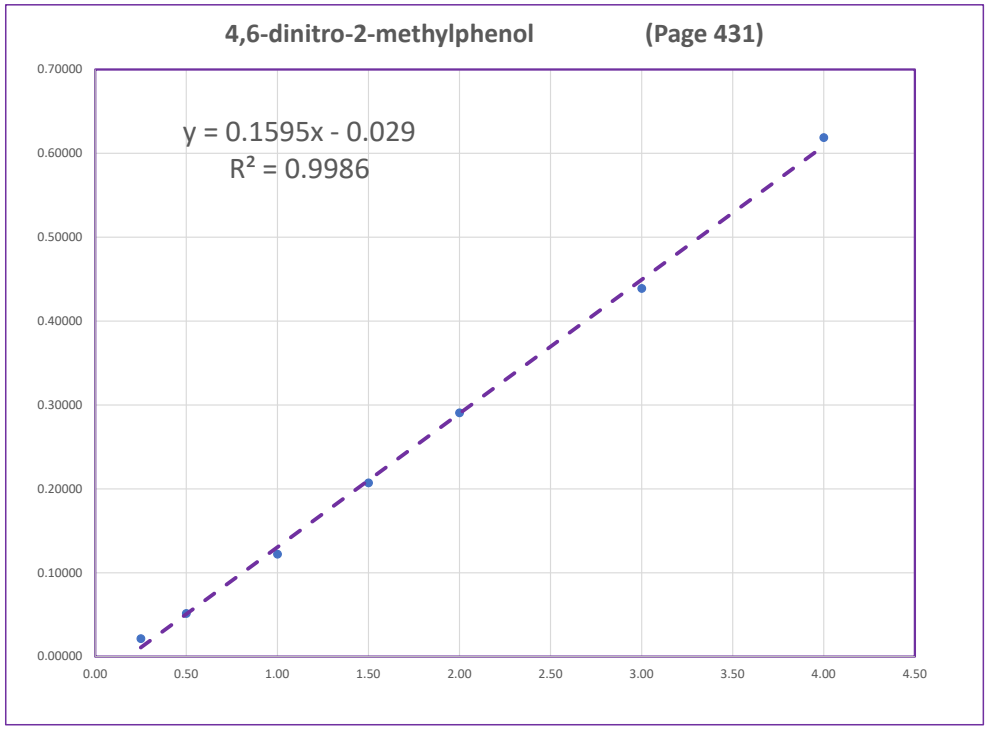
SVOC - Initial Calibration 4/2/2021

GC-MS Instrument MS-9 **4,6-dinitro-2-methylphenol** **Linear Regression** Page(s): 431-465

$C(ng/L)_x$	$C(ng/L)_{IS}$	Conc. Ratio (C_x/C_{IS})	A_x	A_{IS}	Resp. Ratio (A_x/A_{IS})
10	40	0.25	3242	151727	0.02137
20	40	0.50	7741	150745	0.05135
40	40	1.00	18606	152460	0.12204
60	40	1.50	30581	147635	0.20714
80	40	2.00	45109	155250	0.29056
120	40	3.00	69527	158395	0.43895
160	40	4.00	93500	151096	0.61881

Slope:	0.1595	0.1595
Intercept:	-0.0290	-0.0290
r:	0.99929	0.99929
r^2:	0.99859	0.99859

*(X) = target analyte
*(IS) = internal standard



STAGE 3/4 DATA VALIDATION INORGANIC CHECKLIST FOR RECALCULATIONS
Data Package Number: 2112G62 Method: 6010D

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)	Check
Initial Calibration	Confirm (in ICP raw data) that an initial calibration begins each analytical sequence, before all QC or env. samples are analyzed, using the correct number of standards (and calibration blank, if required).	Inst. OES-2 Method 6010D 12/14/2021	See Linear Regression recalculation at end of metals recalcs below	√
	Confirm (in ICP raw data) that an initial calibration occurs at the required frequency.		Daily calibration	√
	Confirm that initial calibration criteria are met. Spot-recalculate initial calibration results.		R-values > 0.998, see linear regression reproduction below.	√
Recalculate at least one result (and %R or %D values, as appropriate) from each of the following QC samples and environmental samples, and compare your calculated results with the results the laboratory reports on their summary forms found earlier in the data package. They should agree. If they do not, then there may be problems with the package and further review is required. Note that for some QC samples, your comparison may mean simply confirming that the result reported in the summary form matches the result in the raw data – there may not be any calculation.				
			SHOW ALL WORK FOR RECALCULATIONS	
ICV	Check result	Page 211, 12/14/2021 at 15:19	Unadj. Arsenic Conc. = 0.51267 mg/l (126.03111-2.76432)/240.4399 = 0.51267 mg/l	√
	Recalculate one %R	Page 131 12/14/2021 at 15:19	Reported Arsenic %R = 103% (0.5127 mg/l/0.5 mg/l)*100 = 102.54%	√
ICB	Check result	Page 211, 12/14/2021 at 15:26	Unadj. Arsenic Conc. = 0.00795 mg/l (4.67573-2.76432)/240.4399 = 0.00795 mg/l	√
CRDL Check Standard	Check result	Page 212 12/14/2021 at 15:59	Unadj. Arsenic Conc. = 0.05203 mg/l (15.27536-2.76432)/240.4399 = 0.05203 mg/l	√
	Recalculate one %R	Page 214 12/14/2021 at 15:59	Reported Arsenic %R = 104% (0.05203 mg/l/0.05 mg/l)*100 = 104.06%	√

STAGE 3/4 DATA VALIDATION INORGANIC CHECKLIST FOR RECALCULATIONS
Data Package Number: 2112G62 Method: 6010D

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)	Check
An opening CCV applicable to our samples	Check result	Page 267 12/14/2021 at 16:56	Arsenic Conc. = 0.98648 mg/l ((239.95339-2.76432)/240.4399) = 0.98648 mg/l	√
	Recalculate one %R	Page 123 12/14/2021 at 16:56	Reported Arsenic %R = 98.6% (0.98648 mg/kg/1.0 mg/kg)*100 = 98.6%	√
A closing CCV applicable to our samples	Check result	Page 274 12/14/2021 at 17:58	Arsenic Conc. = 1.02371 mg/l ((248.90459-2.76432)/240.4399) = 1.02371 mg/l	√
	Recalculate one %R	Page 124 12/14/2021 at 17:58	Reported Arsenic %R = 102% (1.02371 mg/l/1.0 mg/l)*100 = 102.3%	√
An opening CCB applicable to our samples	Check result	Page 267 12/14/2021 at 16:59	Arsenic Conc. = 0.00987 mg/l ((5.13801-2.76432)/240.4399) = 0.00987 mg/l (< MDL = ND)	√
A closing CCB applicable to our samples	Check result	Page 274 12/14/2021 at 18:01	Arsenic Conc. = 0.00835 mg/l ((4.77112-2.76432)/240.4399) = 0.00835 mg/l (< MDL = ND)	√
Method blank	Check result	Page 83, 218, MB-327304, 12/14/2021 at 16:50	Arsenic Conc. = 0.5380 mg/l ((5.35177-2.76432)/240.4399) * 5 = 0.5380 mg/l	√
ICSA sample	Check result	Page 259 12/14/2021 at 15:46	Calcium Conc. = 225.2 mg/kg ((596949.79099-70.836)/2650.8229) = 225.22 mg/kg	√
	Recalculate one %R	Page 129 12/14/2021 at 15:46	Reported Calcium %R = 90.1% (225 mg/kg/250 mg/kg)*100 = 90.% (rounding)	√
ICSAB sample	Check result	Page 260 12/14/2021 at 15:46	Calcium Conc. = 247.7 mg/kg ((656558.61486-70.836)/2650.8229) = 247.7 mg/kg	√
	Recalculate one %R	Page 130 12/14/2021 at 15:46	Reported Calcium %R = 97.1% (247.7 mg/kg/255 mg/kg)*100 = 97.1% (rounding)	√
MS	Check result	Page 85 and 268, 2112G62-006EMS, 12/14/2021 at 17:06	Unadj. Calcium Conc. = 40.72905 mg/kg (page 268) (((107894.67274-70.836)/2650.8229) *34.66 [prep factor]) / 0.75663 [solids] = 1864 mg/kg-dry (rounding, page 85)	√
	Recalculate one %R	Page 85, 2112G62-006EMS, 12/14/2021 at 17:06	Reported %R for calcium = 191% ((1866 mg/kg - 991.5 mg/kg)/458 mg/kg)*100 = 191%	√

STAGE 3/4 DATA VALIDATION INORGANIC CHECKLIST FOR RECALCULATIONS
Data Package Number: 2112G62 Method: 6010D

Validation Element	Objective	Sample ID, Run Date, and Run Time	Results (include units) and Notes (Use check mark to indicate correct result; include hand-calculated result if performed)	Check
MSD	Check result	Page 86 and 269, 2112G62-006EMSD, 12/14/2021 at 17:09	Unadj. Calcium Conc. = 25.63854 mg/kg (page 269) (((67892.38274-70.836)/2650.8229) *34.679 [prep factor]) / 0.75663 [solids] = 1173 mg/kg-dry (rounding, page 86)	√
	Recalculate one %R	Page 86, 2112G62-006EMSD, 12/14/2021 at 17:09	Reported %R for calcium = 40% ((1175 mg/kg - 991.5 mg/kg)/458 mg/kg)*100 = 40%	√
	Recalculate one RPD value between MS and MSD	Page 86, 2112G62-006EMSD, 12/14/2021 at 17:09	Reported RPD for calcium = 45.4% (1866 mg/kg-1175 mg/kg)/((1866 mg/kg+1175 mg/kg)/2)*100 = 45.4%	√
Post-digestion spike	Check result	Page 87 and 270, 2112G62-006EPDS, 12/14/2021 at 17:36	Unadj. Calcium Conc. = 57.6472 mg/kg (page 269) (((152741.67524-70.836)/2650.8229) *34.657 [prep factor]) / 0.75663 [solids] * 2 = 5276 mg/kg-dry (rounding, page 87)	√
	Recalculate one %R	Page 87, 2112G62-006EPDS, 12/14/2021 at 17:36	Reported %R for calcium = 93.6% ((5281 mg/kg -991.5 mg/kg) /4580 mg/kg)*100 = 93.6%	√
LCS	Check result	Page 84, 266, LCS-327304, 12/14/2021 at 14:53	Arsenic Conc. = 0.95053 mg/l ((231.31025-2.76432)/240.4399) = 0.95053 mg/l = 0.95053 * 50 ml = 47.53 mg/l	√
	Recalculate one %R	Page 84, 266, LCS-327304, 12/14/2021 at 14:53	Reported %R for Arsenic = 94.0% ((47.53 mg/kg - 0.538)/50 mg/kg)*100 = 94.0%	√
Serial Dilution	Check result	NA - No SD performed.	Calculated result:**	√
	Recalculate one percent difference value	NA - No SD performed.	Calculated result:	√
Sample result for LLB-SS-L01-121121	Check result	Page 20 and 270, LLB-SS-L01-121121, 12/14/2021 at 17:39	Unadj. Calcium Conc. = 35.77951 mg/kg (page 270) (((94774.32124-70.836)/2650.8229) *35.073 [prep factor]) / 0.429534 [solids] = 2917 mg/kg-dry (rounding, page 20)	√
MDL for LLB-SS-L01-121121	Check result	Page 20, 83, 234, 283 LLB-SS-L01-121121, 12/14/2021 at 17:39	Reported Manganese MDL = 0.260 mg/kg-dry (0.159 mg/kg / 0.429534 solids)*(35.073 samp. prep factor/50 MB factor) = 0.260 mg/kg-dry	√
RL for LLB-SS-L01-121121	Check result	Page 20, 83, 234, 283 LLB-SS-L01-121121, 12/14/2021 at 17:39	Reported Manganese RL = 8.17 mg/kg-dry (5.00 mg/kg / 0.429534 solids)*(35.073 samp. prep factor/50 MB factor) = 8.17 mg/kg-dry	√

Formulas:

* Conc. (mg/kg) = {(Raw Conc. in ug/L) x (Vol. in L) x DF} / {(Sample mass in kg) x (fractional solids) x (1000)}

** Serial dilution conc. (ug/L) = (Raw Conc. in ug/L) x (DF, typically 5)

*** %R = [(Measured Value) / (True Value)] x 100

**** %R = {(Spike sample result) - (Sample result)} / (Spike added)} x 100

RPD = [(A-B) / {(A + B)/2}] x 100

Percent difference = [(Original Result - Diluted Result) / Original Result] x 100

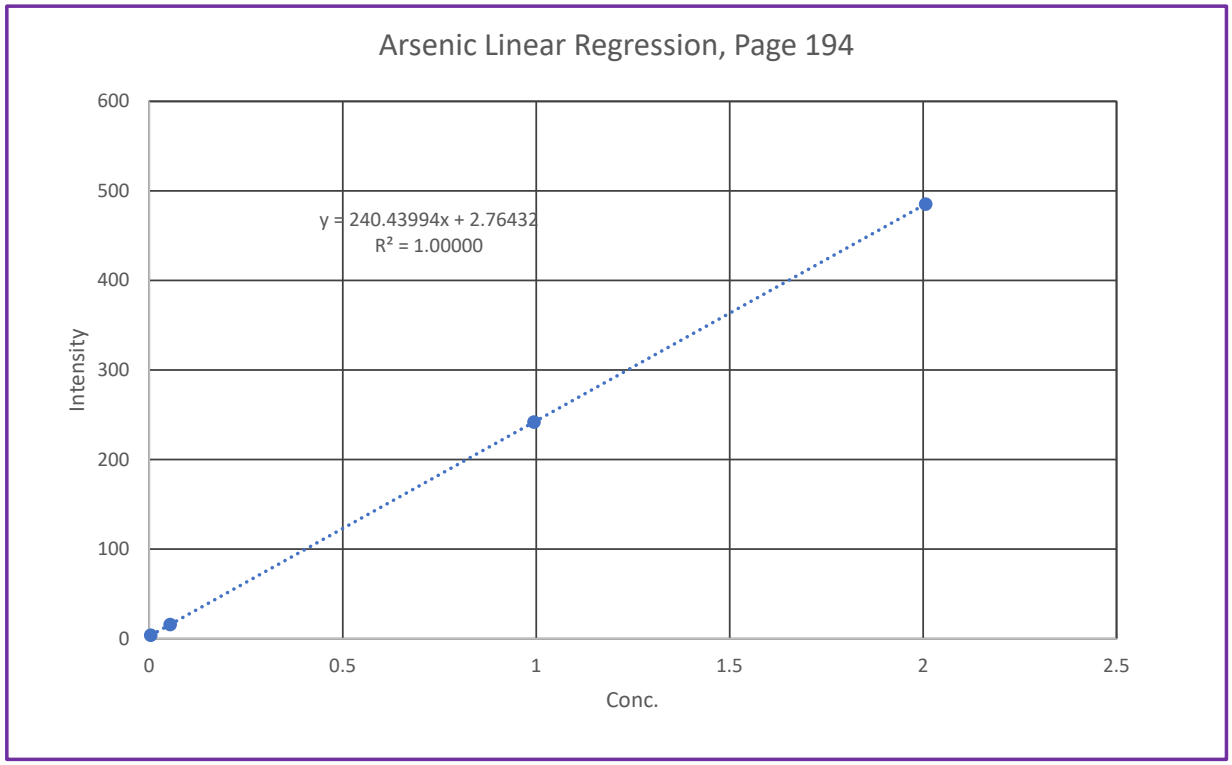
Report No: 2112G62

ICP - Initial Calibration 12/14/2021 Page 194

Arsenic Linear Calibration Page 194

Standards	Calculated Conc.	Intensity	Method Conc.
Blank	0.00416	3.76487	0
Ical 1	0.05438	15.83923	0.05
Ical 2	0.99461	241.90807	1
Ical 3	2.00691	485.30576	2

Slope:	240.4399
Intercept:	2.7643
r:	1.00000
r^2:	1.00000



LAKES PARKWAY LITHIUM BATTERY FIRE SOIL AND SURFACE WATER ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES REPORT NO. 2112G62

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121	SW6010D	Aluminum	6970		12.7	81.7	mg/Kg-dry	6970	
LLB-SS-L01-121121	SW6010D	Antimony	22.5		0.624	4.08	mg/Kg-dry	22.5	
LLB-SS-L01-121121	SW6010D	Arsenic	0.803	U	0.803	4.08	mg/Kg-dry	4.08	U
LLB-SS-L01-121121	SW6010D	Barium	94.3		0.279	8.17	mg/Kg-dry	94.3	
LLB-SS-L01-121121	SW6010D	Beryllium	0.273	U	0.273	4.08	mg/Kg-dry	4.08	U
LLB-SS-L01-121121	SW6010D	Cadmium	0.238	J	0.17	4.08	mg/Kg-dry	0.238	J
LLB-SS-L01-121121	SW6010D	Calcium	2920		8.48	81.7	mg/Kg-dry	2920	
LLB-SS-L01-121121	SW6010D	Chromium	12		0.284	4.08	mg/Kg-dry	12.0	
LLB-SS-L01-121121	SW6010D	Cobalt	384		0.214	4.08	mg/Kg-dry	384	J
LLB-SS-L01-121121	SW6010D	Copper	54.1		0.255	4.08	mg/Kg-dry	54.1	
LLB-SS-L01-121121	SW6010D	Iron	9630		275	1630	mg/Kg-dry	9630	
LLB-SS-L01-121121	SW6010D	Lead	14.1		0.733	8.17	mg/Kg-dry	14.1	
LLB-SS-L01-121121	SW6010D	Magnesium	2790		7.89	81.7	mg/Kg-dry	2790	
LLB-SS-L01-121121	SW6010D	Manganese	390		0.26	8.17	mg/Kg-dry	390	
LLB-SS-L01-121121	SW6010D	Nickel	158		0.381	8.17	mg/Kg-dry	158	
LLB-SS-L01-121121	SW6010D	Potassium	2070		16.8	163	mg/Kg-dry	2070	
LLB-SS-L01-121121	SW6010D	Selenium	1.35	J	0.661	5.72	mg/Kg-dry	1.35	J
LLB-SS-L01-121121	SW6010D	Silver	0.115	J	0.0294	4.08	mg/Kg-dry	0.115	J
LLB-SS-L01-121121	SW6010D	Sodium	277		31	163	mg/Kg-dry	277	
LLB-SS-L01-121121	SW6010D	Thallium	0.733	U	0.733	1.63	mg/Kg-dry	1.63	U
LLB-SS-L01-121121	SW6010D	Vanadium	19.7		0.255	8.17	mg/Kg-dry	19.7	
LLB-SS-L01-121121	SW6010D	Zinc	553		1.27	8.17	mg/Kg-dry	553	
LLB-SS-L01-121121	SW7473	Mercury	0.0894	U	0.0894	0.233	mg/Kg-dry	0.233	U
LLB-SS-L01-121121	SW8260D	1,1,1-Trichloroethane	12	U	12	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,1,2,2-Tetrachloroethane	6.1	U	6.1	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,1,2-Trichloroethane	6	U	6	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,1-Dichloroethane	7.2	U	7.2	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,1-Dichloroethene	7.9	U	7.9	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,2,4-Trichlorobenzene	5.7	U	5.7	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,2-Dibromo-3-chloropropane	9.7	U	9.7	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,2-Dibromoethane	4.8	U	4.8	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,2-Dichlorobenzene	6.2	U	6.2	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,2-Dichloroethane	7.3	U	7.3	16	ug/Kg-dry	16	UJ
LLB-SS-L01-121121	SW8260D	1,2-Dichloropropane	6.4	U	6.4	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,3-Dichlorobenzene	5.3	U	5.3	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	1,4-Dichlorobenzene	5.1	U	5.1	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	2-Butanone	16	U	16	160	ug/Kg-dry	160	U
LLB-SS-L01-121121	SW8260D	2-Hexanone	12	U	12	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8260D	4-Methyl-2-pentanone	20	J	9.4	33	ug/Kg-dry	20	J
LLB-SS-L01-121121	SW8260D	Acetone	170	J	59	330	ug/Kg-dry	170	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121	SW8260D	Benzene	17		7	16	ug/Kg-dry	17	
LLB-SS-L01-121121	SW8260D	Bromodichloromethane	7.5	U	7.5	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Bromoform	6.4	U	6.4	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Bromomethane	13	U	13	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Carbon disulfide	15	U	15	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8260D	Carbon tetrachloride	7.7	U	7.7	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Chlorobenzene	5.8	U	5.8	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Chloroethane	10	U	10	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8260D	Chloroform	10	U	10	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Chloromethane	8.8	U	8.8	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8260D	cis-1,2-Dichloroethene	8.8	U	8.8	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	cis-1,3-Dichloropropene	7.3	U	7.3	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Cyclohexane	11	U	11	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Dibromochloromethane	6.1	U	6.1	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Dichlorodifluoromethane	7.2	U	7.2	33	ug/Kg-dry	33	UJ
LLB-SS-L01-121121	SW8260D	Ethylbenzene	17		6.6	16	ug/Kg-dry	17	
LLB-SS-L01-121121	SW8260D	Freon-113	6.2	U	6.2	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8260D	Isopropylbenzene	7.2	U	7.2	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	m,p-Xylene	13	U	13	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Methyl acetate	34		11	16	ug/Kg-dry	34	
LLB-SS-L01-121121	SW8260D	Methyl tert-butyl ether	7.1	U	7.1	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Methylcyclohexane	6.7	U	6.7	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Methylene chloride	11	U	11	66	ug/Kg-dry	66	U
LLB-SS-L01-121121	SW8260D	o-Xylene	14	J	6.5	16	ug/Kg-dry	14	J
LLB-SS-L01-121121	SW8260D	Styrene	75		6.2	16	ug/Kg-dry	75	
LLB-SS-L01-121121	SW8260D	Tetrachloroethene	7.5	U	7.5	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Toluene	29		6.8	16	ug/Kg-dry	29	
LLB-SS-L01-121121	SW8260D	trans-1,2-Dichloroethene	9.5	U	9.5	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	trans-1,3-Dichloropropene	7.8	U	7.8	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Trichloroethene	7.2	U	7.2	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Trichlorofluoromethane	6.7	U	6.7	16	ug/Kg-dry	16	U
LLB-SS-L01-121121	SW8260D	Vinyl chloride	8.2	U	8.2	33	ug/Kg-dry	33	U
LLB-SS-L01-121121	SW8270E	1,1´-Biphenyl	280	U	280	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2,4,5-Trichlorophenol	170	U	170	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	2,4,6-Trichlorophenol	160	U	160	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2,4-Dichlorophenol	170	U	170	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2,4-Dimethylphenol	190	U	190	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2,4-Dinitrophenol	2200	U	2200	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	2,4-Dinitrotoluene	510	U	510	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2,6-Dinitrotoluene	410	U	410	770	ug/Kg-dry	770	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121	SW8270E	2-Chloronaphthalene	200	U	200	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2-Chlorophenol	130	U	130	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2-Methylnaphthalene	140	U	140	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2-Methylphenol	150	U	150	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	2-Nitroaniline	230	U	230	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	2-Nitrophenol	210	U	210	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	3,3´-Dichlorobenzidine	230	U	230	1600	ug/Kg-dry	1600	U
LLB-SS-L01-121121	SW8270E	3-Nitroaniline	180	U	180	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	4,6-Dinitro-2-methylphenol	1900	U	1900	4000	ug/Kg-dry	4000	UJ
LLB-SS-L01-121121	SW8270E	4-Bromophenyl phenyl ether	190	U	190	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	4-Chloro-3-methylphenol	160	U	160	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	4-Chloroaniline	220	U	220	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	4-Chlorophenyl phenyl ether	170	U	170	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	4-Methylphenol	190	U	190	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	4-Nitroaniline	230	U	230	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	4-Nitrophenol	410	U	410	4000	ug/Kg-dry	4000	U
LLB-SS-L01-121121	SW8270E	Acenaphthene	110	U	110	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Acenaphthylene	580	U	580	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Acetophenone	360	U	360	770	ug/Kg-dry	770	UJ
LLB-SS-L01-121121	SW8270E	Anthracene	290	U	290	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Atrazine	470	U	470	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Benz(a)anthracene	2500		150	770	ug/Kg-dry	2500	
LLB-SS-L01-121121	SW8270E	Benzaldehyde	540	U	540	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Benzo(a)pyrene	4100		240	770	ug/Kg-dry	4100	
LLB-SS-L01-121121	SW8270E	Benzo(b)fluoranthene	9100		250	770	ug/Kg-dry	9100	
LLB-SS-L01-121121	SW8270E	Benzo(g,h,i)perylene	3700		710	770	ug/Kg-dry	3700	
LLB-SS-L01-121121	SW8270E	Benzo(k)fluoranthene	290	U	290	770	ug/Kg-dry	770	UJ
LLB-SS-L01-121121	SW8270E	Bis(2-chloroethoxy)methane	160	U	160	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Bis(2-chloroethyl)ether	180	U	180	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Bis(2-chloroisopropyl)ether	230	U	230	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Bis(2-ethylhexyl)phthalate	1400		170	770	ug/Kg-dry	1400	
LLB-SS-L01-121121	SW8270E	Butyl benzyl phthalate	140	U	140	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Caprolactam	300	U	300	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Carbazole	510	J	360	770	ug/Kg-dry	510	J
LLB-SS-L01-121121	SW8270E	Chrysene	5600		160	770	ug/Kg-dry	5600	
LLB-SS-L01-121121	SW8270E	Dibenz(a,h)anthracene	740	J	280	770	ug/Kg-dry	740	J
LLB-SS-L01-121121	SW8270E	Dibenzofuran	140	U	140	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Diethyl phthalate	140	U	140	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Dimethyl phthalate	110	U	110	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Di-n-butyl phthalate	630	U	630	770	ug/Kg-dry	770	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121	SW8270E	Di-n-octyl phthalate	640	U	640	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Fluoranthene	7100		170	770	ug/Kg-dry	7100	
LLB-SS-L01-121121	SW8270E	Fluorene	220	U	220	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Hexachlorobenzene	220	U	220	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Hexachlorobutadiene	210	U	210	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Hexachlorocyclopentadiene	1500	U	1500	1500	ug/Kg-dry	1500	U
LLB-SS-L01-121121	SW8270E	Hexachloroethane	200	U	200	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Indeno(1,2,3-cd)pyrene	3200		320	770	ug/Kg-dry	3200	
LLB-SS-L01-121121	SW8270E	Isophorone	240	U	240	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Naphthalene	120	U	120	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Nitrobenzene	150	U	150	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	N-Nitrosodi-n-propylamine	170	U	170	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	N-Nitrosodiphenylamine	110	U	110	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Pentachlorophenol	470	U	470	4000	ug/Kg-dry	4000	UJ
LLB-SS-L01-121121	SW8270E	Phenanthrene	2000		150	770	ug/Kg-dry	2000	
LLB-SS-L01-121121	SW8270E	Phenol	140	U	140	770	ug/Kg-dry	770	U
LLB-SS-L01-121121	SW8270E	Pyrene	6000		300	770	ug/Kg-dry	6000	
LLB-SS-L01-121121-DUP	SW6010D	Aluminum	10100		12	77.5	mg/Kg-dry	10100	
LLB-SS-L01-121121-DUP	SW6010D	Antimony	13		0.592	3.88	mg/Kg-dry	13.0	
LLB-SS-L01-121121-DUP	SW6010D	Arsenic	1.08	J	0.763	3.88	mg/Kg-dry	3.88	U
LLB-SS-L01-121121-DUP	SW6010D	Barium	86.6		0.265	7.75	mg/Kg-dry	86.6	
LLB-SS-L01-121121-DUP	SW6010D	Beryllium	0.259	U	0.259	3.88	mg/Kg-dry	3.88	U
LLB-SS-L01-121121-DUP	SW6010D	Cadmium	0.362	J	0.161	3.88	mg/Kg-dry	0.362	J
LLB-SS-L01-121121-DUP	SW6010D	Calcium	2580		8.05	77.5	mg/Kg-dry	2580	
LLB-SS-L01-121121-DUP	SW6010D	Chromium	15.3		0.27	3.88	mg/Kg-dry	15.3	
LLB-SS-L01-121121-DUP	SW6010D	Cobalt	110		0.203	3.88	mg/Kg-dry	110	J
LLB-SS-L01-121121-DUP	SW6010D	Copper	49.9		0.242	3.88	mg/Kg-dry	49.9	
LLB-SS-L01-121121-DUP	SW6010D	Iron	12000		261	1550	mg/Kg-dry	12000	
LLB-SS-L01-121121-DUP	SW6010D	Lead	15.8		0.696	7.75	mg/Kg-dry	15.8	
LLB-SS-L01-121121-DUP	SW6010D	Magnesium	2910		7.49	77.5	mg/Kg-dry	2910	
LLB-SS-L01-121121-DUP	SW6010D	Manganese	298		0.247	7.75	mg/Kg-dry	298	
LLB-SS-L01-121121-DUP	SW6010D	Nickel	117		0.361	7.75	mg/Kg-dry	117	
LLB-SS-L01-121121-DUP	SW6010D	Potassium	1970		16	155	mg/Kg-dry	1970	
LLB-SS-L01-121121-DUP	SW6010D	Selenium	1.49	J	0.628	5.43	mg/Kg-dry	1.49	J
LLB-SS-L01-121121-DUP	SW6010D	Silver	0.0868	J	0.0279	3.88	mg/Kg-dry	0.0868	J
LLB-SS-L01-121121-DUP	SW6010D	Sodium	259		29.5	155	mg/Kg-dry	259	
LLB-SS-L01-121121-DUP	SW6010D	Thallium	0.696	U	0.696	1.55	mg/Kg-dry	1.55	U
LLB-SS-L01-121121-DUP	SW6010D	Vanadium	25.6		0.242	7.75	mg/Kg-dry	25.6	
LLB-SS-L01-121121-DUP	SW6010D	Zinc	579		1.2	7.75	mg/Kg-dry	579	
LLB-SS-L01-121121-DUP	SW7473	Mercury	0.0867	U	0.0867	0.226	mg/Kg-dry	0.226	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121-DUP	SW8260D	1,1,1-Trichloroethane	9.8	U	9.8	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,1,2,2-Tetrachloroethane	5.1	U	5.1	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,1,2-Trichloroethane	5	U	5	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,1-Dichloroethane	6.1	U	6.1	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,1-Dichloroethene	6.6	U	6.6	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,2,4-Trichlorobenzene	4.8	U	4.8	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,2-Dibromo-3-chloropropane	8.2	U	8.2	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,2-Dibromoethane	4	U	4	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,2-Dichlorobenzene	5.2	U	5.2	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,2-Dichloroethane	48		6.1	14	ug/Kg-dry	48	J
LLB-SS-L01-121121-DUP	SW8260D	1,2-Dichloropropane	5.4	U	5.4	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,3-Dichlorobenzene	4.5	U	4.5	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	1,4-Dichlorobenzene	4.3	U	4.3	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	2-Butanone	13	U	13	140	ug/Kg-dry	140	U
LLB-SS-L01-121121-DUP	SW8260D	2-Hexanone	10	U	10	28	ug/Kg-dry	28	U
LLB-SS-L01-121121-DUP	SW8260D	4-Methyl-2-pentanone	17	J	7.8	28	ug/Kg-dry	17	J
LLB-SS-L01-121121-DUP	SW8260D	Acetone	420		49	280	ug/Kg-dry	420	
LLB-SS-L01-121121-DUP	SW8260D	Benzene	31		5.9	14	ug/Kg-dry	31	
LLB-SS-L01-121121-DUP	SW8260D	Bromodichloromethane	6.3	U	6.3	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Bromoform	5.4	U	5.4	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Bromomethane	11	U	11	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Carbon disulfide	21	J	13	28	ug/Kg-dry	21	J
LLB-SS-L01-121121-DUP	SW8260D	Carbon tetrachloride	6.5	U	6.5	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Chlorobenzene	4.9	U	4.9	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Chloroethane	19	J	8.6	28	ug/Kg-dry	19	J
LLB-SS-L01-121121-DUP	SW8260D	Chloroform	8.7	U	8.7	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Chloromethane	29		7.4	28	ug/Kg-dry	29	
LLB-SS-L01-121121-DUP	SW8260D	cis-1,2-Dichloroethene	7.4	U	7.4	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	cis-1,3-Dichloropropene	6.1	U	6.1	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Cyclohexane	9.3	U	9.3	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Dibromochloromethane	5.1	U	5.1	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Dichlorodifluoromethane	6	U	6	28	ug/Kg-dry	28	UJ
LLB-SS-L01-121121-DUP	SW8260D	Ethylbenzene	30		5.5	14	ug/Kg-dry	30	
LLB-SS-L01-121121-DUP	SW8260D	Freon-113	5.2	U	5.2	28	ug/Kg-dry	28	U
LLB-SS-L01-121121-DUP	SW8260D	Isopropylbenzene	8.2	J	6	14	ug/Kg-dry	8.2	J+
LLB-SS-L01-121121-DUP	SW8260D	m,p-Xylene	11	U	11	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Methyl acetate	28		8.9	14	ug/Kg-dry	28	
LLB-SS-L01-121121-DUP	SW8260D	Methyl tert-butyl ether	6	U	6	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Methylcyclohexane	5.6	U	5.6	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Methylene chloride	8.9	U	8.9	55	ug/Kg-dry	55	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121-DUP	SW8260D	o-Xylene	15		5.5	14	ug/Kg-dry	15	
LLB-SS-L01-121121-DUP	SW8260D	Styrene	130		5.2	14	ug/Kg-dry	130	
LLB-SS-L01-121121-DUP	SW8260D	Tetrachloroethene	6.3	U	6.3	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Toluene	46		5.7	14	ug/Kg-dry	46	
LLB-SS-L01-121121-DUP	SW8260D	trans-1,2-Dichloroethene	8	U	8	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	trans-1,3-Dichloropropene	6.5	U	6.5	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Trichloroethene	6.1	U	6.1	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Trichlorofluoromethane	5.6	U	5.6	14	ug/Kg-dry	14	U
LLB-SS-L01-121121-DUP	SW8260D	Vinyl chloride	6.9	U	6.9	28	ug/Kg-dry	28	U
LLB-SS-L01-121121-DUP	SW8270E	1,1´-Biphenyl	270	U	270	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2,4,5-Trichlorophenol	160	U	160	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	2,4,6-Trichlorophenol	160	U	160	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2,4-Dichlorophenol	170	U	170	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2,4-Dimethylphenol	180	U	180	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2,4-Dinitrophenol	2100	U	2100	3800	ug/Kg-dry	3800	UJ
LLB-SS-L01-121121-DUP	SW8270E	2,4-Dinitrotoluene	490	U	490	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2,6-Dinitrotoluene	390	U	390	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2-Chloronaphthalene	200	U	200	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2-Chlorophenol	130	U	130	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2-Methylnaphthalene	140	U	140	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2-Methylphenol	140	U	140	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	2-Nitroaniline	220	U	220	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	2-Nitrophenol	210	U	210	750	ug/Kg-dry	750	UJ
LLB-SS-L01-121121-DUP	SW8270E	3,3´-Dichlorobenzidine	220	U	220	1500	ug/Kg-dry	1500	U
LLB-SS-L01-121121-DUP	SW8270E	3-Nitroaniline	170	U	170	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	4,6-Dinitro-2-methylphenol	1900	U	1900	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	4-Bromophenyl phenyl ether	190	U	190	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	4-Chloro-3-methylphenol	160	U	160	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	4-Chloroaniline	220	U	220	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	4-Chlorophenyl phenyl ether	160	U	160	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	4-Methylphenol	190	U	190	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	4-Nitroaniline	220	U	220	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	4-Nitrophenol	400	U	400	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	Acenaphthene	110	U	110	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Acenaphthylene	560	U	560	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Acetophenone	350	U	350	750	ug/Kg-dry	750	UJ
LLB-SS-L01-121121-DUP	SW8270E	Anthracene	310	J	280	750	ug/Kg-dry	310	J
LLB-SS-L01-121121-DUP	SW8270E	Atrazine	450	U	450	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Benz(a)anthracene	3300		140	750	ug/Kg-dry	3300	
LLB-SS-L01-121121-DUP	SW8270E	Benzaldehyde	530	U	530	750	ug/Kg-dry	750	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L01-121121-DUP	SW8270E	Benzo(a)pyrene	5400		230	750	ug/Kg-dry	5400	
LLB-SS-L01-121121-DUP	SW8270E	Benzo(b)fluoranthene	10000		240	750	ug/Kg-dry	10000	
LLB-SS-L01-121121-DUP	SW8270E	Benzo(g,h,i)perylene	4800		690	750	ug/Kg-dry	4800	
LLB-SS-L01-121121-DUP	SW8270E	Benzo(k)fluoranthene	2600		280	750	ug/Kg-dry	2600	J
LLB-SS-L01-121121-DUP	SW8270E	Bis(2-chloroethoxy)methane	160	U	160	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Bis(2-chloroethyl)ether	180	U	180	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Bis(2-chloroisopropyl)ether	220	U	220	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Bis(2-ethylhexyl)phthalate	1200		160	750	ug/Kg-dry	1200	
LLB-SS-L01-121121-DUP	SW8270E	Butyl benzyl phthalate	140	U	140	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Caprolactam	820		290	750	ug/Kg-dry	820	
LLB-SS-L01-121121-DUP	SW8270E	Carbazole	730	J	350	750	ug/Kg-dry	730	J
LLB-SS-L01-121121-DUP	SW8270E	Chrysene	6700		150	750	ug/Kg-dry	6700	
LLB-SS-L01-121121-DUP	SW8270E	Dibenz(a,h)anthracene	920		270	750	ug/Kg-dry	920	
LLB-SS-L01-121121-DUP	SW8270E	Dibenzofuran	130	U	130	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Diethyl phthalate	130	U	130	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Dimethyl phthalate	110	U	110	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Di-n-butyl phthalate	610	U	610	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Di-n-octyl phthalate	620	U	620	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Fluoranthene	9100		160	750	ug/Kg-dry	9100	
LLB-SS-L01-121121-DUP	SW8270E	Fluorene	220	U	220	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Hexachlorobenzene	210	U	210	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Hexachlorobutadiene	200	U	200	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Hexachlorocyclopentadiene	1400	U	1400	1500	ug/Kg-dry	1500	U
LLB-SS-L01-121121-DUP	SW8270E	Hexachloroethane	200	U	200	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Indeno(1,2,3-cd)pyrene	4600		310	750	ug/Kg-dry	4600	
LLB-SS-L01-121121-DUP	SW8270E	Isophorone	240	U	240	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Naphthalene	220	J	120	750	ug/Kg-dry	220	J
LLB-SS-L01-121121-DUP	SW8270E	Nitrobenzene	140	U	140	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	N-Nitrosodi-n-propylamine	170	U	170	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	N-Nitrosodiphenylamine	110	U	110	750	ug/Kg-dry	750	U
LLB-SS-L01-121121-DUP	SW8270E	Pentachlorophenol	460	U	460	3800	ug/Kg-dry	3800	U
LLB-SS-L01-121121-DUP	SW8270E	Phenanthrene	2600		140	750	ug/Kg-dry	2600	
LLB-SS-L01-121121-DUP	SW8270E	Phenol	1000		140	750	ug/Kg-dry	1000	
LLB-SS-L01-121121-DUP	SW8270E	Pyrene	6800		290	750	ug/Kg-dry	6800	
LLB-SS-L02-121121	SW6010D	Aluminum	3860		7.1	45.8	mg/Kg-dry	3860	
LLB-SS-L02-121121	SW6010D	Antimony	2.54		0.35	2.29	mg/Kg-dry	2.54	
LLB-SS-L02-121121	SW6010D	Arsenic	0.451	U	0.451	2.29	mg/Kg-dry	2.29	U
LLB-SS-L02-121121	SW6010D	Barium	40.3		0.157	4.58	mg/Kg-dry	40.3	
LLB-SS-L02-121121	SW6010D	Beryllium	0.153	U	0.153	2.29	mg/Kg-dry	2.29	U
LLB-SS-L02-121121	SW6010D	Cadmium	0.114	J	0.0953	2.29	mg/Kg-dry	0.114	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L02-121121	SW6010D	Calcium	992		4.75	45.8	mg/Kg-dry	992	J
LLB-SS-L02-121121	SW6010D	Chromium	8.79		0.159	2.29	mg/Kg-dry	8.79	
LLB-SS-L02-121121	SW6010D	Cobalt	28.1		0.12	2.29	mg/Kg-dry	28.1	
LLB-SS-L02-121121	SW6010D	Copper	16.3		0.143	2.29	mg/Kg-dry	16.3	
LLB-SS-L02-121121	SW6010D	Iron	8320		154	916	mg/Kg-dry	8320	
LLB-SS-L02-121121	SW6010D	Lead	4.4	J	0.411	4.58	mg/Kg-dry	4.40	J
LLB-SS-L02-121121	SW6010D	Magnesium	1180		4.42	45.8	mg/Kg-dry	1180	
LLB-SS-L02-121121	SW6010D	Manganese	155		0.146	4.58	mg/Kg-dry	155	
LLB-SS-L02-121121	SW6010D	Nickel	44.4		0.213	4.58	mg/Kg-dry	44.4	
LLB-SS-L02-121121	SW6010D	Potassium	1050		9.44	91.6	mg/Kg-dry	1050	J+
LLB-SS-L02-121121	SW6010D	Selenium	0.914	J	0.371	3.21	mg/Kg-dry	0.914	J
LLB-SS-L02-121121	SW6010D	Silver	0.0165	U	0.0165	2.29	mg/Kg-dry	2.29	U
LLB-SS-L02-121121	SW6010D	Sodium	130		17.4	91.6	mg/Kg-dry	130	
LLB-SS-L02-121121	SW6010D	Thallium	0.411	U	0.411	0.916	mg/Kg-dry	0.916	U
LLB-SS-L02-121121	SW6010D	Vanadium	12.1		0.143	4.58	mg/Kg-dry	12.1	
LLB-SS-L02-121121	SW6010D	Zinc	241		0.71	4.58	mg/Kg-dry	241	
LLB-SS-L02-121121	SW7473	Mercury	0.0575	J	0.0507	0.132	mg/Kg-dry	0.0575	J
LLB-SS-L02-121121	SW8260D	1,1,1-Trichloroethane	3.7	U	3.7	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,1,2,2-Tetrachloroethane	1.9	U	1.9	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,1,2-Trichloroethane	1.9	U	1.9	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,1-Dichloroethane	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,1-Dichloroethene	2.5	U	2.5	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2,4-Trichlorobenzene	1.8	U	1.8	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2-Dibromo-3-chloropropane	3.1	U	3.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2-Dibromoethane	1.5	U	1.5	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2-Dichlorobenzene	2	U	2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2-Dichloroethane	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,2-Dichloropropane	2	U	2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,3-Dichlorobenzene	1.7	U	1.7	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	1,4-Dichlorobenzene	1.6	U	1.6	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	2-Butanone	5	U	5	52	ug/Kg-dry	52	UJ
LLB-SS-L02-121121	SW8260D	2-Hexanone	3.9	U	3.9	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	4-Methyl-2-pentanone	3	U	3	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	Acetone	19	U	19	100	ug/Kg-dry	100	UJ
LLB-SS-L02-121121	SW8260D	Benzene	2.2	U	2.2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Bromodichloromethane	2.4	U	2.4	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Bromoform	2	U	2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Bromomethane	4.2	U	4.2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Carbon disulfide	4.8	U	4.8	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	Carbon tetrachloride	2.4	U	2.4	5.2	ug/Kg-dry	5.2	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L02-121121	SW8260D	Chlorobenzene	1.8	U	1.8	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Chloroethane	3.2	U	3.2	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	Chloroform	3.3	U	3.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Chloromethane	2.8	U	2.8	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	cis-1,2-Dichloroethene	2.8	U	2.8	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	cis-1,3-Dichloropropene	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Cyclohexane	3.5	U	3.5	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Dibromochloromethane	1.9	U	1.9	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Dichlorodifluoromethane	2.3	U	2.3	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	Ethylbenzene	2.1	U	2.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Freon-113	2	U	2	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8260D	Isopropylbenzene	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	m,p-Xylene	4.1	U	4.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Methyl acetate	3.4	U	3.4	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Methyl tert-butyl ether	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Methylcyclohexane	2.1	U	2.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Methylene chloride	3.4	U	3.4	21	ug/Kg-dry	21	UJ
LLB-SS-L02-121121	SW8260D	o-Xylene	2.1	U	2.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Styrene	2	U	2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Tetrachloroethene	2.4	U	2.4	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Toluene	2.2	U	2.2	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	trans-1,2-Dichloroethene	3	U	3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	trans-1,3-Dichloropropene	2.5	U	2.5	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Trichloroethene	2.3	U	2.3	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Trichlorofluoromethane	2.1	U	2.1	5.2	ug/Kg-dry	5.2	UJ
LLB-SS-L02-121121	SW8260D	Vinyl chloride	2.6	U	2.6	10	ug/Kg-dry	10	UJ
LLB-SS-L02-121121	SW8270E	1,1´-Biphenyl	160	U	160	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2,4,5-Trichlorophenol	94	U	94	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	2,4,6-Trichlorophenol	92	U	92	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2,4-Dichlorophenol	98	U	98	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2,4-Dimethylphenol	110	U	110	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2,4-Dinitrophenol	1200	U	1200	2200	ug/Kg-dry	2200	UJ
LLB-SS-L02-121121	SW8270E	2,4-Dinitrotoluene	290	U	290	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2,6-Dinitrotoluene	230	U	230	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2-Chloronaphthalene	110	U	110	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2-Chlorophenol	75	U	75	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2-Methylnaphthalene	79	U	79	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2-Methylphenol	83	U	83	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	2-Nitroaniline	130	U	130	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	2-Nitrophenol	120	U	120	440	ug/Kg-dry	440	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L02-121121	SW8270E	3,3´-Dichlorobenzidine	130	U	130	890	ug/Kg-dry	890	UJ
LLB-SS-L02-121121	SW8270E	3-Nitroaniline	100	U	100	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	4,6-Dinitro-2-methylphenol	1100	U	1100	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	4-Bromophenyl phenyl ether	110	U	110	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	4-Chloro-3-methylphenol	93	U	93	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	4-Chloroaniline	130	U	130	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	4-Chlorophenyl phenyl ether	95	U	95	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	4-Methylphenol	110	U	110	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	4-Nitroaniline	130	U	130	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	4-Nitrophenol	240	U	240	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	Acenaphthene	140	J	63	440	ug/Kg-dry	140	J
LLB-SS-L02-121121	SW8270E	Acenaphthylene	330	U	330	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Acetophenone	200	U	200	440	ug/Kg-dry	440	UJ
LLB-SS-L02-121121	SW8270E	Anthracene	600		170	440	ug/Kg-dry	600	
LLB-SS-L02-121121	SW8270E	Atrazine	260	U	260	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Benz(a)anthracene	5000		82	440	ug/Kg-dry	5000	
LLB-SS-L02-121121	SW8270E	Benzaldehyde	310	U	310	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Benzo(a)pyrene	6000		130	440	ug/Kg-dry	6000	J-
LLB-SS-L02-121121	SW8270E	Benzo(b)fluoranthene	12000		1400	4400	ug/Kg-dry	12000	J-
LLB-SS-L02-121121	SW8270E	Benzo(g,h,i)perylene	3300		400	440	ug/Kg-dry	3300	J-
LLB-SS-L02-121121	SW8270E	Benzo(k)fluoranthene	2500		170	440	ug/Kg-dry	2500	J-
LLB-SS-L02-121121	SW8270E	Bis(2-chloroethoxy)methane	92	U	92	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Bis(2-chloroethyl)ether	100	U	100	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Bis(2-chloroisopropyl)ether	130	U	130	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Bis(2-ethylhexyl)phthalate	250	J	95	440	ug/Kg-dry	250	J
LLB-SS-L02-121121	SW8270E	Butyl benzyl phthalate	82	U	82	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Caprolactam	170	U	170	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Carbazole	930		200	440	ug/Kg-dry	930	J-
LLB-SS-L02-121121	SW8270E	Chrysene	6900		90	440	ug/Kg-dry	6900	
LLB-SS-L02-121121	SW8270E	Dibenz(a,h)anthracene	1000		160	440	ug/Kg-dry	1000	J-
LLB-SS-L02-121121	SW8270E	Dibenzofuran	78	U	78	440	ug/Kg-dry	440	UJ
LLB-SS-L02-121121	SW8270E	Diethyl phthalate	77	U	77	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Dimethyl phthalate	63	U	63	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Di-n-butyl phthalate	360	U	360	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Di-n-octyl phthalate	360	U	360	440	ug/Kg-dry	440	UJ
LLB-SS-L02-121121	SW8270E	Fluoranthene	14000		960	4400	ug/Kg-dry	14000	J-
LLB-SS-L02-121121	SW8270E	Fluorene	190	J	130	440	ug/Kg-dry	190	J
LLB-SS-L02-121121	SW8270E	Hexachlorobenzene	120	U	120	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Hexachlorobutadiene	120	U	120	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Hexachlorocyclopentadiene	830	U	830	870	ug/Kg-dry	870	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L02-121121	SW8270E	Hexachloroethane	120	U	120	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Indeno(1,2,3-cd)pyrene	2900		180	440	ug/Kg-dry	2900	J-
LLB-SS-L02-121121	SW8270E	Isophorone	140	U	140	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Naphthalene	70	U	70	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Nitrobenzene	85	U	85	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	N-Nitrosodi-n-propylamine	97	U	97	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	N-Nitrosodiphenylamine	62	U	62	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Pentachlorophenol	270	U	270	2200	ug/Kg-dry	2200	U
LLB-SS-L02-121121	SW8270E	Phenanthrene	4300		83	440	ug/Kg-dry	4300	J-
LLB-SS-L02-121121	SW8270E	Phenol	80	U	80	440	ug/Kg-dry	440	U
LLB-SS-L02-121121	SW8270E	Pyrene	10000		1700	4400	ug/Kg-dry	10000	
LLB-SS-L03-121121	SW6010D	Aluminum	4580		7.14	46.1	mg/Kg-dry	4580	
LLB-SS-L03-121121	SW6010D	Antimony	3.83		0.352	2.3	mg/Kg-dry	3.83	
LLB-SS-L03-121121	SW6010D	Arsenic	0.713	J	0.453	2.3	mg/Kg-dry	2.30	U
LLB-SS-L03-121121	SW6010D	Barium	32.6		0.158	4.61	mg/Kg-dry	32.6	
LLB-SS-L03-121121	SW6010D	Beryllium	0.154	U	0.154	2.3	mg/Kg-dry	2.30	U
LLB-SS-L03-121121	SW6010D	Cadmium	0.0958	U	0.0958	2.3	mg/Kg-dry	2.30	U
LLB-SS-L03-121121	SW6010D	Calcium	636		4.78	46.1	mg/Kg-dry	636	
LLB-SS-L03-121121	SW6010D	Chromium	7.99		0.16	2.3	mg/Kg-dry	7.99	
LLB-SS-L03-121121	SW6010D	Cobalt	26.1		0.121	2.3	mg/Kg-dry	26.1	
LLB-SS-L03-121121	SW6010D	Copper	18.1		0.144	2.3	mg/Kg-dry	18.1	
LLB-SS-L03-121121	SW6010D	Iron	10500		155	921	mg/Kg-dry	10500	
LLB-SS-L03-121121	SW6010D	Lead	8.08		0.414	4.61	mg/Kg-dry	8.08	
LLB-SS-L03-121121	SW6010D	Magnesium	1180		4.45	46.1	mg/Kg-dry	1180	
LLB-SS-L03-121121	SW6010D	Manganese	122		0.146	4.61	mg/Kg-dry	122	
LLB-SS-L03-121121	SW6010D	Nickel	43.4		0.215	4.61	mg/Kg-dry	43.4	
LLB-SS-L03-121121	SW6010D	Potassium	894		9.49	92.1	mg/Kg-dry	894	
LLB-SS-L03-121121	SW6010D	Selenium	0.504	J	0.373	3.22	mg/Kg-dry	0.504	J
LLB-SS-L03-121121	SW6010D	Silver	0.0166	U	0.0166	2.3	mg/Kg-dry	2.30	U
LLB-SS-L03-121121	SW6010D	Sodium	110		17.5	92.1	mg/Kg-dry	110	
LLB-SS-L03-121121	SW6010D	Thallium	0.414	U	0.414	0.921	mg/Kg-dry	0.921	U
LLB-SS-L03-121121	SW6010D	Vanadium	19.8		0.144	4.61	mg/Kg-dry	19.8	
LLB-SS-L03-121121	SW6010D	Zinc	281		0.714	4.61	mg/Kg-dry	281	
LLB-SS-L03-121121	SW7473	Mercury	0.0515	U	0.0515	0.134	mg/Kg-dry	0.134	U
LLB-SS-L03-121121	SW8260D	1,1,1-Trichloroethane	5.4	U	5.4	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,1,2,2-Tetrachloroethane	2.8	U	2.8	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,1,2-Trichloroethane	2.7	U	2.7	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,1-Dichloroethane	3.3	U	3.3	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,1-Dichloroethene	3.6	U	3.6	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,2,4-Trichlorobenzene	2.6	U	2.6	7.6	ug/Kg-dry	7.6	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L03-121121	SW8260D	1,2-Dibromo-3-chloropropane	4.5	U	4.5	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,2-Dibromoethane	2.2	U	2.2	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,2-Dichlorobenzene	2.9	U	2.9	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,2-Dichloroethane	3.4	U	3.4	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,2-Dichloropropane	3	U	3	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,3-Dichlorobenzene	2.5	U	2.5	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	1,4-Dichlorobenzene	2.4	U	2.4	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	2-Butanone	26	J	7.3	76	ug/Kg-dry	26	J
LLB-SS-L03-121121	SW8260D	2-Hexanone	5.7	U	5.7	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	4-Methyl-2-pentanone	7.7	J	4.3	15	ug/Kg-dry	7.7	J
LLB-SS-L03-121121	SW8260D	Acetone	240		27	150	ug/Kg-dry	240	J
LLB-SS-L03-121121	SW8260D	Benzene	3.2	U	3.2	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Bromodichloromethane	3.5	U	3.5	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Bromoform	3	U	3	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Bromomethane	6.1	U	6.1	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Carbon disulfide	6.9	U	6.9	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	Carbon tetrachloride	3.6	U	3.6	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Chlorobenzene	2.7	U	2.7	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Chloroethane	4.7	U	4.7	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	Chloroform	4.8	U	4.8	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Chloromethane	4	U	4	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	cis-1,2-Dichloroethene	4.1	U	4.1	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	cis-1,3-Dichloropropene	3.4	U	3.4	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Cyclohexane	5.1	U	5.1	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Dibromochloromethane	2.8	U	2.8	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Dichlorodifluoromethane	3.3	U	3.3	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	Ethylbenzene	7.8		3	7.6	ug/Kg-dry	7.8	J
LLB-SS-L03-121121	SW8260D	Freon-113	2.9	U	2.9	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8260D	Isopropylbenzene	3.3	U	3.3	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	m,p-Xylene	6	U	6	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Methyl acetate	4.9	U	4.9	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Methyl tert-butyl ether	16		3.3	7.6	ug/Kg-dry	16	J
LLB-SS-L03-121121	SW8260D	Methylcyclohexane	3.1	U	3.1	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Methylene chloride	4.9	U	4.9	30	ug/Kg-dry	30	UJ
LLB-SS-L03-121121	SW8260D	o-Xylene	6.3	J	3	7.6	ug/Kg-dry	6.3	J
LLB-SS-L03-121121	SW8260D	Styrene	89		2.9	7.6	ug/Kg-dry	89	J
LLB-SS-L03-121121	SW8260D	Tetrachloroethene	3.5	U	3.5	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Toluene	4.6	J	3.2	7.6	ug/Kg-dry	4.6	J
LLB-SS-L03-121121	SW8260D	trans-1,2-Dichloroethene	4.4	U	4.4	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	trans-1,3-Dichloropropene	3.6	U	3.6	7.6	ug/Kg-dry	7.6	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L03-121121	SW8260D	Trichloroethene	3.3	U	3.3	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Trichlorofluoromethane	3.1	U	3.1	7.6	ug/Kg-dry	7.6	UJ
LLB-SS-L03-121121	SW8260D	Vinyl chloride	3.8	U	3.8	15	ug/Kg-dry	15	UJ
LLB-SS-L03-121121	SW8270E	1,1´-Biphenyl	160	U	160	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2,4,5-Trichlorophenol	96	U	96	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	2,4,6-Trichlorophenol	93	U	93	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2,4-Dichlorophenol	99	U	99	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2,4-Dimethylphenol	110	U	110	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2,4-Dinitrophenol	1300	U	1300	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	2,4-Dinitrotoluene	290	U	290	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2,6-Dinitrotoluene	230	U	230	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2-Chloronaphthalene	120	U	120	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2-Chlorophenol	77	U	77	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2-Methylnaphthalene	81	U	81	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2-Methylphenol	84	U	84	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	2-Nitroaniline	130	U	130	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	2-Nitrophenol	120	U	120	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	3,3´-Dichlorobenzidine	130	U	130	900	ug/Kg-dry	900	UJ
LLB-SS-L03-121121	SW8270E	3-Nitroaniline	100	U	100	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	4,6-Dinitro-2-methylphenol	1100	U	1100	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	4-Bromophenyl phenyl ether	110	U	110	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	4-Chloro-3-methylphenol	94	U	94	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	4-Chloroaniline	130	U	130	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	4-Chlorophenyl phenyl ether	96	U	96	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	4-Methylphenol	110	U	110	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	4-Nitroaniline	130	U	130	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	4-Nitrophenol	240	U	240	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	Acenaphthene	64	U	64	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Acenaphthylene	330	U	330	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Acetophenone	210	U	210	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Anthracene	210	J	170	440	ug/Kg-dry	210	J-
LLB-SS-L03-121121	SW8270E	Atrazine	270	U	270	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Benz(a)anthracene	2400		84	440	ug/Kg-dry	2400	J-
LLB-SS-L03-121121	SW8270E	Benzaldehyde	310	U	310	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Benzo(a)pyrene	2800		140	440	ug/Kg-dry	2800	J-
LLB-SS-L03-121121	SW8270E	Benzo(b)fluoranthene	5500		140	440	ug/Kg-dry	5500	J-
LLB-SS-L03-121121	SW8270E	Benzo(g,h,i)perylene	1700		410	440	ug/Kg-dry	1700	J-
LLB-SS-L03-121121	SW8270E	Benzo(k)fluoranthene	170	U	170	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Bis(2-chloroethoxy)methane	93	U	93	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Bis(2-chloroethyl)ether	100	U	100	440	ug/Kg-dry	440	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L03-121121	SW8270E	Bis(2-chloroisopropyl)ether	130	U	130	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Bis(2-ethylhexyl)phthalate	99	J	96	440	ug/Kg-dry	99	J-
LLB-SS-L03-121121	SW8270E	Butyl benzyl phthalate	83	U	83	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Caprolactam	170	U	170	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Carbazole	430	J	210	440	ug/Kg-dry	430	J-
LLB-SS-L03-121121	SW8270E	Chrysene	3500		91	440	ug/Kg-dry	3500	J-
LLB-SS-L03-121121	SW8270E	Dibenz(a,h)anthracene	520		160	440	ug/Kg-dry	520	J-
LLB-SS-L03-121121	SW8270E	Dibenzofuran	79	U	79	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Diethyl phthalate	79	U	79	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Dimethyl phthalate	64	U	64	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Di-n-butyl phthalate	360	U	360	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Di-n-octyl phthalate	370	U	370	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Fluoranthene	6100		98	440	ug/Kg-dry	6100	J-
LLB-SS-L03-121121	SW8270E	Fluorene	130	U	130	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Hexachlorobenzene	130	U	130	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Hexachlorobutadiene	120	U	120	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Hexachlorocyclopentadiene	840	U	840	880	ug/Kg-dry	880	UJ
LLB-SS-L03-121121	SW8270E	Hexachloroethane	120	U	120	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Indeno(1,2,3-cd)pyrene	1800		180	440	ug/Kg-dry	1800	J-
LLB-SS-L03-121121	SW8270E	Isophorone	140	U	140	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Naphthalene	71	U	71	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Nitrobenzene	86	U	86	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	N-Nitrosodi-n-propylamine	98	U	98	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	N-Nitrosodiphenylamine	63	U	63	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Pentachlorophenol	270	U	270	2300	ug/Kg-dry	2300	UJ
LLB-SS-L03-121121	SW8270E	Phenanthrene	1800		85	440	ug/Kg-dry	1800	J-
LLB-SS-L03-121121	SW8270E	Phenol	81	U	81	440	ug/Kg-dry	440	UJ
LLB-SS-L03-121121	SW8270E	Pyrene	4400		170	440	ug/Kg-dry	4400	J-
LLB-SS-L04-121121	SW6010D	Aluminum	4320		11	71.3	mg/Kg-dry	4320	
LLB-SS-L04-121121	SW6010D	Antimony	0.545	U	0.545	3.56	mg/Kg-dry	3.56	U
LLB-SS-L04-121121	SW6010D	Arsenic	0.701	U	0.701	3.56	mg/Kg-dry	3.56	U
LLB-SS-L04-121121	SW6010D	Barium	63.3		0.244	7.13	mg/Kg-dry	63.3	
LLB-SS-L04-121121	SW6010D	Beryllium	0.238	U	0.238	3.56	mg/Kg-dry	3.56	U
LLB-SS-L04-121121	SW6010D	Cadmium	0.206	J	0.148	3.56	mg/Kg-dry	0.206	J
LLB-SS-L04-121121	SW6010D	Calcium	3860		7.4	71.3	mg/Kg-dry	3860	
LLB-SS-L04-121121	SW6010D	Chromium	8.54		0.248	3.56	mg/Kg-dry	8.54	
LLB-SS-L04-121121	SW6010D	Cobalt	0.941	J	0.187	3.56	mg/Kg-dry	0.941	J
LLB-SS-L04-121121	SW6010D	Copper	6.01		0.222	3.56	mg/Kg-dry	6.01	
LLB-SS-L04-121121	SW6010D	Iron	5030		240	1430	mg/Kg-dry	5030	
LLB-SS-L04-121121	SW6010D	Lead	6.26	J	0.64	7.13	mg/Kg-dry	6.26	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L04-121121	SW6010D	Magnesium	651		6.88	71.3	mg/Kg-dry	651	
LLB-SS-L04-121121	SW6010D	Manganese	582		0.227	7.13	mg/Kg-dry	582	
LLB-SS-L04-121121	SW6010D	Nickel	4.22	J	0.332	7.13	mg/Kg-dry	4.22	J
LLB-SS-L04-121121	SW6010D	Potassium	904		14.7	143	mg/Kg-dry	904	
LLB-SS-L04-121121	SW6010D	Selenium	1.49	J	0.577	4.99	mg/Kg-dry	1.49	J
LLB-SS-L04-121121	SW6010D	Silver	0.0456	J	0.0257	3.56	mg/Kg-dry	0.0456	J
LLB-SS-L04-121121	SW6010D	Sodium	157		27.1	143	mg/Kg-dry	157	
LLB-SS-L04-121121	SW6010D	Thallium	0.64	U	0.64	1.43	mg/Kg-dry	1.43	U
LLB-SS-L04-121121	SW6010D	Vanadium	9.28		0.222	7.13	mg/Kg-dry	9.28	
LLB-SS-L04-121121	SW6010D	Zinc	58.9		1.1	7.13	mg/Kg-dry	58.9	
LLB-SS-L04-121121	SW7473	Mercury	0.12	J	0.0726	0.189	mg/Kg-dry	0.120	J
LLB-SS-L04-121121	SW8260D	1,1,1-Trichloroethane	14	U	14	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,1,2,2-Tetrachloroethane	7.4	U	7.4	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,1,2-Trichloroethane	7.2	U	7.2	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,1-Dichloroethane	8.8	U	8.8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,1-Dichloroethene	9.6	U	9.6	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2,4-Trichlorobenzene	6.9	U	6.9	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2-Dibromo-3-chloropropane	12	U	12	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2-Dibromoethane	5.8	U	5.8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2-Dichlorobenzene	7.6	U	7.6	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2-Dichloroethane	8.9	U	8.9	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,2-Dichloropropane	7.9	U	7.9	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,3-Dichlorobenzene	6.5	U	6.5	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	1,4-Dichlorobenzene	6.2	U	6.2	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	2-Butanone	19	U	19	200	ug/Kg-dry	200	UJ
LLB-SS-L04-121121	SW8260D	2-Hexanone	15	U	15	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	4-Methyl-2-pentanone	11	U	11	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	Acetone	1300		71	400	ug/Kg-dry	1300	J
LLB-SS-L04-121121	SW8260D	Benzene	8.6	U	8.6	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Bromodichloromethane	9.1	U	9.1	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Bromoform	7.8	U	7.8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Bromomethane	16	U	16	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Carbon disulfide	18	U	18	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	Carbon tetrachloride	9.4	U	9.4	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Chlorobenzene	7.1	U	7.1	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Chloroethane	12	U	12	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	Chloroform	13	U	13	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Chloromethane	11	U	11	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	cis-1,2-Dichloroethene	11	U	11	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	cis-1,3-Dichloropropene	8.9	U	8.9	20	ug/Kg-dry	20	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L04-121121	SW8260D	Cyclohexane	14	U	14	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Dibromochloromethane	7.4	U	7.4	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Dichlorodifluoromethane	8.8	U	8.8	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	Ethylbenzene	8	U	8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Freon-113	7.5	U	7.5	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8260D	Isopropylbenzene	8.8	U	8.8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	m,p-Xylene	16	U	16	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Methyl acetate	13	U	13	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Methyl tert-butyl ether	8.7	U	8.7	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Methylcyclohexane	8.2	U	8.2	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Methylene chloride	13	U	13	80	ug/Kg-dry	80	UJ
LLB-SS-L04-121121	SW8260D	o-Xylene	7.9	U	7.9	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Styrene	7.6	U	7.6	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Tetrachloroethene	9.2	U	9.2	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Toluene	8.3	U	8.3	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	trans-1,2-Dichloroethene	12	U	12	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	trans-1,3-Dichloropropene	9.5	U	9.5	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Trichloroethene	8.8	U	8.8	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Trichlorofluoromethane	8.1	U	8.1	20	ug/Kg-dry	20	UJ
LLB-SS-L04-121121	SW8260D	Vinyl chloride	10	U	10	40	ug/Kg-dry	40	UJ
LLB-SS-L04-121121	SW8270E	1,1´-Biphenyl	230	U	230	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2,4,5-Trichlorophenol	130	U	130	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	2,4,6-Trichlorophenol	130	U	130	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2,4-Dichlorophenol	140	U	140	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2,4-Dimethylphenol	150	U	150	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2,4-Dinitrophenol	1800	U	1800	3200	ug/Kg-dry	3200	UJ
LLB-SS-L04-121121	SW8270E	2,4-Dinitrotoluene	410	U	410	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2,6-Dinitrotoluene	330	U	330	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2-Chloronaphthalene	160	U	160	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2-Chlorophenol	110	U	110	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2-Methylnaphthalene	110	U	110	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2-Methylphenol	120	U	120	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	2-Nitroaniline	190	U	190	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	2-Nitrophenol	170	U	170	620	ug/Kg-dry	620	UJ
LLB-SS-L04-121121	SW8270E	3,3´-Dichlorobenzidine	180	U	180	1300	ug/Kg-dry	1300	U
LLB-SS-L04-121121	SW8270E	3-Nitroaniline	140	U	140	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	4,6-Dinitro-2-methylphenol	1600	U	1600	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	4-Bromophenyl phenyl ether	160	U	160	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	4-Chloro-3-methylphenol	130	U	130	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	4-Chloroaniline	180	U	180	620	ug/Kg-dry	620	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L04-121121	SW8270E	4-Chlorophenyl phenyl ether	140	U	140	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	4-Methylphenol	160	U	160	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	4-Nitroaniline	190	U	190	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	4-Nitrophenol	340	U	340	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	Acenaphthene	90	U	90	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Acenaphthylene	470	U	470	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Acetophenone	290	U	290	620	ug/Kg-dry	620	UJ
LLB-SS-L04-121121	SW8270E	Anthracene	240	U	240	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Atrazine	380	U	380	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Benz(a)anthracene	670		120	620	ug/Kg-dry	670	
LLB-SS-L04-121121	SW8270E	Benzaldehyde	440	U	440	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Benzo(a)pyrene	940		190	620	ug/Kg-dry	940	
LLB-SS-L04-121121	SW8270E	Benzo(b)fluoranthene	2200		200	620	ug/Kg-dry	2200	
LLB-SS-L04-121121	SW8270E	Benzo(g,h,i)perylene	640		580	620	ug/Kg-dry	640	
LLB-SS-L04-121121	SW8270E	Benzo(k)fluoranthene	240	U	240	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Bis(2-chloroethoxy)methane	130	U	130	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Bis(2-chloroethyl)ether	150	U	150	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Bis(2-chloroisopropyl)ether	190	U	190	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Bis(2-ethylhexyl)phthalate	140	U	140	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Butyl benzyl phthalate	1700		120	620	ug/Kg-dry	1700	
LLB-SS-L04-121121	SW8270E	Caprolactam	240	U	240	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Carbazole	290	U	290	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Chrysene	1200		130	620	ug/Kg-dry	1200	
LLB-SS-L04-121121	SW8270E	Dibenz(a,h)anthracene	220	U	220	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Dibenzofuran	110	U	110	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Diethyl phthalate	110	U	110	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Dimethyl phthalate	90	U	90	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Di-n-butyl phthalate	510	U	510	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Di-n-octyl phthalate	520	U	520	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Fluoranthene	2100		140	620	ug/Kg-dry	2100	
LLB-SS-L04-121121	SW8270E	Fluorene	180	U	180	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Hexachlorobenzene	180	U	180	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Hexachlorobutadiene	170	U	170	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Hexachlorocyclopentadiene	1200	U	1200	1200	ug/Kg-dry	1200	U
LLB-SS-L04-121121	SW8270E	Hexachloroethane	160	U	160	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Indeno(1,2,3-cd)pyrene	560	J	260	620	ug/Kg-dry	560	J
LLB-SS-L04-121121	SW8270E	Isophorone	200	U	200	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Naphthalene	100	U	100	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Nitrobenzene	120	U	120	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	N-Nitrosodi-n-propylamine	140	U	140	620	ug/Kg-dry	620	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L04-121121	SW8270E	N-Nitrosodiphenylamine	89	U	89	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Pentachlorophenol	380	U	380	3200	ug/Kg-dry	3200	U
LLB-SS-L04-121121	SW8270E	Phenanthrene	530	J	120	620	ug/Kg-dry	530	J
LLB-SS-L04-121121	SW8270E	Phenol	110	U	110	620	ug/Kg-dry	620	U
LLB-SS-L04-121121	SW8270E	Pyrene	1500		240	620	ug/Kg-dry	1500	
LLB-SS-L05-121121	SW6010D	Aluminum	8480		9.52	61.4	mg/Kg-dry	8480	
LLB-SS-L05-121121	SW6010D	Antimony	0.469	U	0.469	3.07	mg/Kg-dry	3.07	U
LLB-SS-L05-121121	SW6010D	Arsenic	1.5	J	0.604	3.07	mg/Kg-dry	3.07	U
LLB-SS-L05-121121	SW6010D	Barium	43.7		0.21	6.14	mg/Kg-dry	43.7	
LLB-SS-L05-121121	SW6010D	Beryllium	0.205	U	0.205	3.07	mg/Kg-dry	3.07	U
LLB-SS-L05-121121	SW6010D	Cadmium	0.209	J	0.128	3.07	mg/Kg-dry	0.209	J
LLB-SS-L05-121121	SW6010D	Calcium	1370		6.38	61.4	mg/Kg-dry	1370	
LLB-SS-L05-121121	SW6010D	Chromium	9.19		0.214	3.07	mg/Kg-dry	9.19	
LLB-SS-L05-121121	SW6010D	Cobalt	1.75	J	0.161	3.07	mg/Kg-dry	1.75	J
LLB-SS-L05-121121	SW6010D	Copper	12.8		0.192	3.07	mg/Kg-dry	12.8	
LLB-SS-L05-121121	SW6010D	Iron	9400		207	1230	mg/Kg-dry	9400	
LLB-SS-L05-121121	SW6010D	Lead	12		0.552	6.14	mg/Kg-dry	12.0	
LLB-SS-L05-121121	SW6010D	Magnesium	1000		5.93	61.4	mg/Kg-dry	1000	
LLB-SS-L05-121121	SW6010D	Manganese	196		0.195	6.14	mg/Kg-dry	196	
LLB-SS-L05-121121	SW6010D	Nickel	6.44		0.286	6.14	mg/Kg-dry	6.44	
LLB-SS-L05-121121	SW6010D	Potassium	1210		12.7	123	mg/Kg-dry	1210	
LLB-SS-L05-121121	SW6010D	Selenium	1.33	J	0.497	4.3	mg/Kg-dry	1.33	J
LLB-SS-L05-121121	SW6010D	Silver	0.0221	U	0.0221	3.07	mg/Kg-dry	3.07	U
LLB-SS-L05-121121	SW6010D	Sodium	127		23.3	123	mg/Kg-dry	127	
LLB-SS-L05-121121	SW6010D	Thallium	0.552	U	0.552	1.23	mg/Kg-dry	1.23	U
LLB-SS-L05-121121	SW6010D	Vanadium	24.7		0.192	6.14	mg/Kg-dry	24.7	
LLB-SS-L05-121121	SW6010D	Zinc	213		0.952	6.14	mg/Kg-dry	213	
LLB-SS-L05-121121	SW7473	Mercury	0.0657	U	0.0657	0.171	mg/Kg-dry	0.171	UJ
LLB-SS-L05-121121	SW8260D	1,1,1-Trichloroethane	6.1	U	6.1	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,1,2,2-Tetrachloroethane	3.2	U	3.2	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,1,2-Trichloroethane	3.1	U	3.1	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,1-Dichloroethane	3.8	U	3.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,1-Dichloroethene	4.1	U	4.1	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2,4-Trichlorobenzene	3	U	3	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2-Dibromo-3-chloropropane	5.1	U	5.1	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2-Dibromoethane	2.5	U	2.5	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2-Dichlorobenzene	3.3	U	3.3	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2-Dichloroethane	3.8	U	3.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,2-Dichloropropane	3.4	U	3.4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	1,3-Dichlorobenzene	2.8	U	2.8	8.6	ug/Kg-dry	8.6	UJ

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L05-121121	SW8260D	1,4-Dichlorobenzene	2.7	U	2.7	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	2-Butanone	8.3	U	8.3	86	ug/Kg-dry	86	UJ
LLB-SS-L05-121121	SW8260D	2-Hexanone	6.4	U	6.4	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	4-Methyl-2-pentanone	4.9	U	4.9	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	Acetone	84	J	30	170	ug/Kg-dry	84	J
LLB-SS-L05-121121	SW8260D	Benzene	3.7	U	3.7	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Bromodichloromethane	3.9	U	3.9	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Bromoform	3.3	U	3.3	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Bromomethane	6.9	U	6.9	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Carbon disulfide	7.8	U	7.8	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	Carbon tetrachloride	4	U	4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Chlorobenzene	3	U	3	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Chloroethane	5.3	U	5.3	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	Chloroform	5.4	U	5.4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Chloromethane	4.6	U	4.6	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	cis-1,2-Dichloroethene	4.6	U	4.6	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	cis-1,3-Dichloropropene	3.8	U	3.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Cyclohexane	5.8	U	5.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Dibromochloromethane	3.2	U	3.2	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Dichlorodifluoromethane	3.8	U	3.8	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	Ethylbenzene	3.4	U	3.4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Freon-113	3.2	U	3.2	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8260D	Isopropylbenzene	3.8	U	3.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	m,p-Xylene	6.8	U	6.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Methyl acetate	5.6	U	5.6	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Methyl tert-butyl ether	3.7	U	3.7	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Methylcyclohexane	3.5	U	3.5	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Methylene chloride	5.5	U	5.5	34	ug/Kg-dry	34	UJ
LLB-SS-L05-121121	SW8260D	o-Xylene	3.4	U	3.4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Styrene	3.2	U	3.2	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Tetrachloroethene	3.9	U	3.9	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Toluene	3.6	U	3.6	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	trans-1,2-Dichloroethene	5	U	5	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	trans-1,3-Dichloropropene	4	U	4	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Trichloroethene	3.8	U	3.8	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Trichlorofluoromethane	3.5	U	3.5	8.6	ug/Kg-dry	8.6	UJ
LLB-SS-L05-121121	SW8260D	Vinyl chloride	4.3	U	4.3	17	ug/Kg-dry	17	UJ
LLB-SS-L05-121121	SW8270E	1,1´-Biphenyl	210	U	210	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2,4,5-Trichlorophenol	120	U	120	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	2,4,6-Trichlorophenol	120	U	120	560	ug/Kg-dry	560	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L05-121121	SW8270E	2,4-Dichlorophenol	130	U	130	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2,4-Dimethylphenol	140	U	140	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2,4-Dinitrophenol	1600	U	1600	2900	ug/Kg-dry	2900	UJ
LLB-SS-L05-121121	SW8270E	2,4-Dinitrotoluene	370	U	370	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2,6-Dinitrotoluene	300	U	300	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2-Chloronaphthalene	150	U	150	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2-Chlorophenol	98	U	98	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2-Methylnaphthalene	100	U	100	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2-Methylphenol	110	U	110	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	2-Nitroaniline	170	U	170	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	2-Nitrophenol	160	U	160	560	ug/Kg-dry	560	UJ
LLB-SS-L05-121121	SW8270E	3,3´-Dichlorobenzidine	170	U	170	1100	ug/Kg-dry	1100	U
LLB-SS-L05-121121	SW8270E	3-Nitroaniline	130	U	130	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	4,6-Dinitro-2-methylphenol	1400	U	1400	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	4-Bromophenyl phenyl ether	140	U	140	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	4-Chloro-3-methylphenol	120	U	120	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	4-Chloroaniline	160	U	160	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	4-Chlorophenyl phenyl ether	120	U	120	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	4-Methylphenol	140	U	140	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	4-Nitroaniline	170	U	170	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	4-Nitrophenol	300	U	300	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	Acenaphthene	82	U	82	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Acenaphthylene	430	U	430	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Acetophenone	270	U	270	560	ug/Kg-dry	560	UJ
LLB-SS-L05-121121	SW8270E	Anthracene	210	U	210	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Atrazine	340	U	340	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Benz(a)anthracene	1000		110	560	ug/Kg-dry	1000	
LLB-SS-L05-121121	SW8270E	Benzaldehyde	400	U	400	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Benzo(a)pyrene	1800		170	560	ug/Kg-dry	1800	
LLB-SS-L05-121121	SW8270E	Benzo(b)fluoranthene	4500		180	560	ug/Kg-dry	4500	
LLB-SS-L05-121121	SW8270E	Benzo(g,h,i)perylene	1400		520	560	ug/Kg-dry	1400	
LLB-SS-L05-121121	SW8270E	Benzo(k)fluoranthene	220	U	220	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Bis(2-chloroethoxy)methane	120	U	120	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Bis(2-chloroethyl)ether	130	U	130	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Bis(2-chloroisopropyl)ether	170	U	170	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Bis(2-ethylhexyl)phthalate	170	J	120	560	ug/Kg-dry	170	J
LLB-SS-L05-121121	SW8270E	Butyl benzyl phthalate	110	U	110	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Caprolactam	220	U	220	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Carbazole	260	U	260	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Chrysene	2300		120	560	ug/Kg-dry	2300	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L05-121121	SW8270E	Dibenz(a,h)anthracene	380	J	200	560	ug/Kg-dry	380	J
LLB-SS-L05-121121	SW8270E	Dibenzofuran	100	U	100	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Diethyl phthalate	100	U	100	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Dimethyl phthalate	81	U	81	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Di-n-butyl phthalate	460	U	460	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Di-n-octyl phthalate	470	U	470	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Fluoranthene	3000		120	560	ug/Kg-dry	3000	
LLB-SS-L05-121121	SW8270E	Fluorene	160	U	160	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Hexachlorobenzene	160	U	160	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Hexachlorobutadiene	150	U	150	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Hexachlorocyclopentadiene	1100	U	1100	1100	ug/Kg-dry	1100	U
LLB-SS-L05-121121	SW8270E	Hexachloroethane	150	U	150	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Indeno(1,2,3-cd)pyrene	1300		230	560	ug/Kg-dry	1300	
LLB-SS-L05-121121	SW8270E	Isophorone	180	U	180	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Naphthalene	91	U	91	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Nitrobenzene	110	U	110	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	N-Nitrosodi-n-propylamine	130	U	130	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	N-Nitrosodiphenylamine	80	U	80	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Pentachlorophenol	350	U	350	2900	ug/Kg-dry	2900	U
LLB-SS-L05-121121	SW8270E	Phenanthrene	720		110	560	ug/Kg-dry	720	
LLB-SS-L05-121121	SW8270E	Phenol	100	U	100	560	ug/Kg-dry	560	U
LLB-SS-L05-121121	SW8270E	Pyrene	2300		220	560	ug/Kg-dry	2300	
LLB-SS-L06-121321	SW1311/6010D	TCLP Arsenic	0.052	U	0.052	0.25	mg/L	0.250	U
LLB-SS-L06-121321	SW1311/6010D	TCLP Barium	0.0538	J	0.0242	0.5	mg/L	0.0538	J
LLB-SS-L06-121321	SW1311/6010D	TCLP Cadmium	0.00785	U	0.00785	0.025	mg/L	0.0250	U
LLB-SS-L06-121321	SW1311/6010D	TCLP Chromium	0.0336	U	0.0336	0.05	mg/L	0.0500	U
LLB-SS-L06-121321	SW1311/6010D	TCLP Lead	0.0195	U	0.0195	0.05	mg/L	0.0500	U
LLB-SS-L06-121321	SW1311/6010D	TCLP Selenium	0.0468	J	0.0447	0.1	mg/L	0.0468	J
LLB-SS-L06-121321	SW1311/6010D	TCLP Silver	0.00895	U	0.00895	0.025	mg/L	0.0250	U
LLB-SS-L06-121321	SW1311/7470A	TCLP Mercury	0.00048	U	0.00048	0.004	mg/L	0.00400	U
LLB-SS-L06-121321	SW6010D	Aluminum	107		5.67	36.6	mg/Kg-dry	107	
LLB-SS-L06-121321	SW6010D	Antimony	1.16	J	0.279	1.83	mg/Kg-dry	1.16	J
LLB-SS-L06-121321	SW6010D	Arsenic	0.546	J	0.36	1.83	mg/Kg-dry	1.83	U
LLB-SS-L06-121321	SW6010D	Barium	0.558	J	0.125	3.66	mg/Kg-dry	0.558	J
LLB-SS-L06-121321	SW6010D	Beryllium	0.122	U	0.122	1.83	mg/Kg-dry	1.83	U
LLB-SS-L06-121321	SW6010D	Cadmium	0.0761	U	0.0761	1.83	mg/Kg-dry	1.83	U
LLB-SS-L06-121321	SW6010D	Calcium	22.5	J	3.8	36.6	mg/Kg-dry	22.5	J
LLB-SS-L06-121321	SW6010D	Chromium	0.764	J	0.127	1.83	mg/Kg-dry	0.764	J
LLB-SS-L06-121321	SW6010D	Cobalt	4.79		0.0958	1.83	mg/Kg-dry	4.79	
LLB-SS-L06-121321	SW6010D	Copper	1.15	J	0.114	1.83	mg/Kg-dry	1.15	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SS-L06-121321	SW6010D	Iron	315		6.16	36.6	mg/Kg-dry	315	
LLB-SS-L06-121321	SW6010D	Lead	0.328	U	0.328	3.66	mg/Kg-dry	3.66	U
LLB-SS-L06-121321	SW6010D	Magnesium	4.42	J	3.53	36.6	mg/Kg-dry	4.42	J
LLB-SS-L06-121321	SW6010D	Manganese	4.08		0.116	3.66	mg/Kg-dry	4.08	
LLB-SS-L06-121321	SW6010D	Nickel	11.7		0.17	3.66	mg/Kg-dry	11.7	
LLB-SS-L06-121321	SW6010D	Potassium	10.4	J	7.53	73.1	mg/Kg-dry	10.4	J
LLB-SS-L06-121321	SW6010D	Selenium	0.296	U	0.296	2.56	mg/Kg-dry	2.56	U
LLB-SS-L06-121321	SW6010D	Silver	0.0132	U	0.0132	1.83	mg/Kg-dry	1.83	U
LLB-SS-L06-121321	SW6010D	Sodium	13.9	U	13.9	73.1	mg/Kg-dry	73.1	U
LLB-SS-L06-121321	SW6010D	Thallium	0.328	U	0.328	0.731	mg/Kg-dry	0.731	U
LLB-SS-L06-121321	SW6010D	Vanadium	0.9	J	0.114	3.66	mg/Kg-dry	0.900	J
LLB-SS-L06-121321	SW6010D	Zinc	0.639	J	0.567	3.66	mg/Kg-dry	0.639	J
LLB-SS-L06-121321	SW7473	Mercury	0.0399	U	0.0399	0.104	mg/Kg-dry	0.104	U
LLB-SW-L01-121121	SW6010D	Aluminum	0.733		0.0581	0.2	mg/L	0.733	
LLB-SW-L01-121121	SW6010D	Antimony	0.403		0.0125	0.02	mg/L	0.403	
LLB-SW-L01-121121	SW6010D	Arsenic	0.0104	U	0.0104	0.05	mg/L	0.0500	U
LLB-SW-L01-121121	SW6010D	Barium	0.074		0.0048	0.02	mg/L	0.0740	
LLB-SW-L01-121121	SW6010D	Beryllium	0.0019	U	0.0019	0.01	mg/L	0.0100	U
LLB-SW-L01-121121	SW6010D	Cadmium	0.0016	U	0.0016	0.005	mg/L	0.00500	U
LLB-SW-L01-121121	SW6010D	Calcium	8.49		0.0513	0.1	mg/L	8.49	
LLB-SW-L01-121121	SW6010D	Chromium	0.0067	U	0.0067	0.01	mg/L	0.0100	U
LLB-SW-L01-121121	SW6010D	Cobalt	1.03		0.0019	0.02	mg/L	1.03	
LLB-SW-L01-121121	SW6010D	Copper	0.0664		0.0024	0.01	mg/L	0.0664	
LLB-SW-L01-121121	SW6010D	Iron	0.74		0.0362	0.1	mg/L	0.740	
LLB-SW-L01-121121	SW6010D	Lead	0.0039	U	0.0039	0.01	mg/L	0.0100	U
LLB-SW-L01-121121	SW6010D	Magnesium	2.92		0.0295	0.1	mg/L	2.92	
LLB-SW-L01-121121	SW6010D	Manganese	1.6		0.0101	0.015	mg/L	1.6	
LLB-SW-L01-121121	SW6010D	Nickel	0.929		0.0104	0.02	mg/L	0.929	
LLB-SW-L01-121121	SW6010D	Potassium	3.5		0.167	0.5	mg/L	3.5	
LLB-SW-L01-121121	SW6010D	Selenium	0.0089	U	0.0089	0.02	mg/L	0.0200	U
LLB-SW-L01-121121	SW6010D	Silver	0.0018	U	0.0018	0.01	mg/L	0.0100	U
LLB-SW-L01-121121	SW6010D	Sodium	6		0.391	1	mg/L	6	
LLB-SW-L01-121121	SW6010D	Thallium	0.0086	U	0.0086	0.02	mg/L	0.0200	U
LLB-SW-L01-121121	SW6010D	Vanadium	0.0023	J	0.0012	0.01	mg/L	0.0023	J
LLB-SW-L01-121121	SW6010D	Zinc	0.294		0.016	0.02	mg/L	0.294	
LLB-SW-L01-121121	SW7470A	Mercury	0.00014	U	0.00014	0.0002	mg/L	0.0002	U
LLB-SW-L01-121121	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-SW-L01-121121	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	Acetone	26	J	8.3	50	ug/L	26	J
LLB-SW-L01-121121	SW8260D	Benzene	0.8	J	0.24	5	ug/L	0.8	J
LLB-SW-L01-121121	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	Ethylbenzene	1.3	J	0.24	5	ug/L	1.3	J
LLB-SW-L01-121121	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-SW-L01-121121	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Styrene	15		0.29	5	ug/L	15	
LLB-SW-L01-121121	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-SW-L01-121121	SW8260D	Toluene	1.7	J	0.66	5	ug/L	1.7	J

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-SW-L01-121121	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-SW-L01-121121	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U
LLB-SW-L01-121121	SW8270E	1,1´-Biphenyl	4.1	U	4.1	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2,4,5-Trichlorophenol	3.9	U	3.9	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	2,4,6-Trichlorophenol	3.4	U	3.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2,4-Dichlorophenol	3.6	U	3.6	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2,4-Dimethylphenol	3.8	U	3.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2,4-Dinitrophenol	8.8	U	8.8	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	2,4-Dinitrotoluene	6	U	6	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2,6-Dinitrotoluene	5.3	U	5.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2-Chloronaphthalene	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2-Chlorophenol	2	U	2	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2-Methylnaphthalene	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2-Methylphenol	3.1	U	3.1	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	2-Nitroaniline	3.6	U	3.6	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	2-Nitrophenol	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	3,3´-Dichlorobenzidine	3.7	U	3.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	3-Nitroaniline	4.3	U	4.3	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	4,6-Dinitro-2-methylphenol	14	U	14	25	ug/L	25	UJ
LLB-SW-L01-121121	SW8270E	4-Bromophenyl phenyl ether	3.9	U	3.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	4-Chloro-3-methylphenol	4	U	4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	4-Chloroaniline	4.9	U	4.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	4-Chlorophenyl phenyl ether	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	4-Methylphenol	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	4-Nitroaniline	5.1	U	5.1	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	4-Nitrophenol	5.8	U	5.8	25	ug/L	25	U
LLB-SW-L01-121121	SW8270E	Acenaphthene	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Acenaphthylene	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Acetophenone	4	U	4	10	ug/L	10	UJ
LLB-SW-L01-121121	SW8270E	Anthracene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Atrazine	5.8	U	5.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benz(a)anthracene	2.8	U	2.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benzaldehyde	6.8	U	6.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benzo(a)pyrene	3.5	U	3.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benzo(b)fluoranthene	3.8	U	3.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benzo(g,h,i)perylene	4.2	U	4.2	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Benzo(k)fluoranthene	3.6	U	3.6	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121	SW8270E	Bis(2-chloroethoxy)methane	2.6	U	2.6	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Bis(2-chloroethyl)ether	2.4	U	2.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Bis(2-chloroisopropyl)ether	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Bis(2-ethylhexyl)phthalate	4.4	U	4.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Butyl benzyl phthalate	3.4	U	3.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Caprolactam	5	U	5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Carbazole	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Chrysene	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Dibenz(a,h)anthracene	4.5	U	4.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Dibenzofuran	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Diethyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Dimethyl phthalate	2.8	U	2.8	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Di-n-butyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Di-n-octyl phthalate	9.3	U	9.3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Fluoranthene	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Fluorene	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Hexachlorobenzene	3.9	U	3.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Hexachlorobutadiene	4.2	U	4.2	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Hexachlorocyclopentadiene	8.4	U	8.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Hexachloroethane	3.1	U	3.1	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Indeno(1,2,3-cd)pyrene	4.2	U	4.2	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Isophorone	3.5	U	3.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Naphthalene	2.1	U	2.1	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Nitrobenzene	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	N-Nitrosodi-n-propylamine	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	N-Nitrosodiphenylamine	2.4	U	2.4	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Pentachlorophenol	6.4	U	6.4	25	ug/L	25	UJ
LLB-SW-L01-121121	SW8270E	Phenanthrene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Phenol	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L01-121121	SW8270E	Pyrene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW6010D	Aluminum	0.971		0.0581	0.2	mg/L	0.971	
LLB-SW-L01-121121-DUP	SW6010D	Antimony	0.402		0.0125	0.02	mg/L	0.402	
LLB-SW-L01-121121-DUP	SW6010D	Arsenic	0.0104	U	0.0104	0.05	mg/L	0.0500	U
LLB-SW-L01-121121-DUP	SW6010D	Barium	0.0761		0.0048	0.02	mg/L	0.0761	
LLB-SW-L01-121121-DUP	SW6010D	Beryllium	0.0019	U	0.0019	0.01	mg/L	0.0100	U
LLB-SW-L01-121121-DUP	SW6010D	Cadmium	0.0016	U	0.0016	0.005	mg/L	0.00500	U
LLB-SW-L01-121121-DUP	SW6010D	Calcium	8.51		0.0513	0.1	mg/L	8.51	
LLB-SW-L01-121121-DUP	SW6010D	Chromium	0.0135		0.0067	0.01	mg/L	0.0135	
LLB-SW-L01-121121-DUP	SW6010D	Cobalt	1.06		0.0019	0.02	mg/L	1.06	
LLB-SW-L01-121121-DUP	SW6010D	Copper	0.0751		0.0024	0.01	mg/L	0.0751	

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121-DUP	SW6010D	Iron	1.02		0.0362	0.1	mg/L	1.02	
LLB-SW-L01-121121-DUP	SW6010D	Lead	0.0039	U	0.0039	0.01	mg/L	0.0100	U
LLB-SW-L01-121121-DUP	SW6010D	Magnesium	2.95		0.0295	0.1	mg/L	2.95	
LLB-SW-L01-121121-DUP	SW6010D	Manganese	1.6		0.0101	0.015	mg/L	1.6	
LLB-SW-L01-121121-DUP	SW6010D	Nickel	0.986		0.0104	0.02	mg/L	0.986	
LLB-SW-L01-121121-DUP	SW6010D	Potassium	3.51		0.167	0.5	mg/L	3.51	
LLB-SW-L01-121121-DUP	SW6010D	Selenium	0.0089	U	0.0089	0.02	mg/L	0.0200	U
LLB-SW-L01-121121-DUP	SW6010D	Silver	0.0018	U	0.0018	0.01	mg/L	0.0100	U
LLB-SW-L01-121121-DUP	SW6010D	Sodium	5.98		0.391	1	mg/L	5.98	
LLB-SW-L01-121121-DUP	SW6010D	Thallium	0.0086	U	0.0086	0.02	mg/L	0.0200	U
LLB-SW-L01-121121-DUP	SW6010D	Vanadium	0.0024	J	0.0012	0.01	mg/L	0.00240	J
LLB-SW-L01-121121-DUP	SW6010D	Zinc	0.307		0.016	0.02	mg/L	0.307	
LLB-SW-L01-121121-DUP	SW7470A	Mercury	0.00014	U	0.00014	0.0002	mg/L	0.000200	U
LLB-SW-L01-121121-DUP	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-SW-L01-121121-DUP	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8260D	Acetone	24	J	8.3	50	ug/L	24	J
LLB-SW-L01-121121-DUP	SW8260D	Benzene	0.79	J	0.24	5	ug/L	0.79	J
LLB-SW-L01-121121-DUP	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121-DUP	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8260D	Ethylbenzene	1.2	J	0.24	5	ug/L	1.2	J
LLB-SW-L01-121121-DUP	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Styrene	14		0.29	5	ug/L	14	
LLB-SW-L01-121121-DUP	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-SW-L01-121121-DUP	SW8260D	Toluene	1.6	J	0.66	5	ug/L	1.6	J
LLB-SW-L01-121121-DUP	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-SW-L01-121121-DUP	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-SW-L01-121121-DUP	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U
LLB-SW-L01-121121-DUP	SW8270E	1,1´-Biphenyl	4.1	U	4.1	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	2,4,5-Trichlorophenol	3.9	U	3.9	25	ug/L	25	UJ
LLB-SW-L01-121121-DUP	SW8270E	2,4,6-Trichlorophenol	3.4	U	3.4	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	2,4-Dichlorophenol	3.6	U	3.6	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	2,4-Dimethylphenol	3.8	U	3.8	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	2,4-Dinitrophenol	8.8	U	8.8	25	ug/L	25	UJ
LLB-SW-L01-121121-DUP	SW8270E	2,4-Dinitrotoluene	6	U	6	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	2,6-Dinitrotoluene	5.3	U	5.3	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	2-Chloronaphthalene	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	2-Chlorophenol	2	U	2	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	2-Methylnaphthalene	3	U	3	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	2-Methylphenol	3.1	U	3.1	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	2-Nitroaniline	3.6	U	3.6	25	ug/L	25	U
LLB-SW-L01-121121-DUP	SW8270E	2-Nitrophenol	2.5	U	2.5	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	3,3´-Dichlorobenzidine	3.7	U	3.7	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	3-Nitroaniline	4.3	U	4.3	25	ug/L	25	U
LLB-SW-L01-121121-DUP	SW8270E	4,6-Dinitro-2-methylphenol	14	U	14	25	ug/L	25	UJ
LLB-SW-L01-121121-DUP	SW8270E	4-Bromophenyl phenyl ether	3.9	U	3.9	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121-DUP	SW8270E	4-Chloro-3-methylphenol	4	U		4	10 ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	4-Chloroaniline	4.9	U		4.9	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	4-Chlorophenyl phenyl ether	3	U		3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	4-Methylphenol	3.3	U		3.3	10 ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	4-Nitroaniline	5.1	U		5.1	25 ug/L	25	U
LLB-SW-L01-121121-DUP	SW8270E	4-Nitrophenol	5.8	U		5.8	25 ug/L	25	UJ
LLB-SW-L01-121121-DUP	SW8270E	Acenaphthene	2.5	U		2.5	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Acenaphthylene	2.7	U		2.7	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Acetophenone	4	U		4	10 ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	Anthracene	2.9	U		2.9	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Atrazine	5.8	U		5.8	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benz(a)anthracene	2.8	U		2.8	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benzaldehyde	6.8	U		6.8	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benzo(a)pyrene	3.5	U		3.5	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benzo(b)fluoranthene	3.8	U		3.8	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benzo(g,h,i)perylene	4.2	U		4.2	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Benzo(k)fluoranthene	3.6	U		3.6	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Bis(2-chloroethoxy)methane	2.6	U		2.6	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Bis(2-chloroethyl)ether	2.4	U		2.4	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Bis(2-chloroisopropyl)ether	3	U		3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Bis(2-ethylhexyl)phthalate	4.4	U		4.4	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Butyl benzyl phthalate	3.4	U		3.4	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Caprolactam	5	U		5	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Carbazole	3.3	U		3.3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Chrysene	2.7	U		2.7	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Dibenz(a,h)anthracene	4.5	U		4.5	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Dibenzofuran	2.7	U		2.7	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Diethyl phthalate	3.3	U		3.3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Dimethyl phthalate	2.8	U		2.8	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Di-n-butyl phthalate	3.3	U		3.3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Di-n-octyl phthalate	9.3	U		9.3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Fluoranthene	3	U		3	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Fluorene	2.7	U		2.7	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Hexachlorobenzene	3.9	U		3.9	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Hexachlorobutadiene	4.2	U		4.2	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Hexachlorocyclopentadiene	8.4	U		8.4	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Hexachloroethane	3.1	U		3.1	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Indeno(1,2,3-cd)pyrene	4.2	U		4.2	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Isophorone	3.5	U		3.5	10 ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Naphthalene	2.1	U		2.1	10 ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L01-121121-DUP	SW8270E	Nitrobenzene	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	N-Nitrosodi-n-propylamine	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	N-Nitrosodiphenylamine	2.4	U	2.4	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Pentachlorophenol	6.4	U	6.4	25	ug/L	25	UJ
LLB-SW-L01-121121-DUP	SW8270E	Phenanthrene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L01-121121-DUP	SW8270E	Phenol	2.9	U	2.9	10	ug/L	10	UJ
LLB-SW-L01-121121-DUP	SW8270E	Pyrene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L02-121121	SW6010D	Aluminum	1.32		0.0581	0.2	mg/L	1.32	
LLB-SW-L02-121121	SW6010D	Antimony	0.264		0.0125	0.02	mg/L	0.264	
LLB-SW-L02-121121	SW6010D	Arsenic	0.0104	U	0.0104	0.05	mg/L	0.0500	U
LLB-SW-L02-121121	SW6010D	Barium	0.0313		0.0048	0.02	mg/L	0.0313	
LLB-SW-L02-121121	SW6010D	Beryllium	0.0019	U	0.0019	0.01	mg/L	0.0100	U
LLB-SW-L02-121121	SW6010D	Cadmium	0.0016	U	0.0016	0.005	mg/L	0.00500	U
LLB-SW-L02-121121	SW6010D	Calcium	6.12		0.0513	0.1	mg/L	6.12	
LLB-SW-L02-121121	SW6010D	Chromium	0.0067	U	0.0067	0.01	mg/L	0.0100	U
LLB-SW-L02-121121	SW6010D	Cobalt	0.152		0.0019	0.02	mg/L	0.152	
LLB-SW-L02-121121	SW6010D	Copper	0.0501		0.0024	0.01	mg/L	0.0501	
LLB-SW-L02-121121	SW6010D	Iron	1.58		0.0362	0.1	mg/L	1.58	
LLB-SW-L02-121121	SW6010D	Lead	0.0039	U	0.0039	0.01	mg/L	0.0100	U
LLB-SW-L02-121121	SW6010D	Magnesium	2.29		0.0295	0.1	mg/L	2.29	
LLB-SW-L02-121121	SW6010D	Manganese	0.261		0.0101	0.015	mg/L	0.261	
LLB-SW-L02-121121	SW6010D	Nickel	0.119		0.0104	0.02	mg/L	0.119	
LLB-SW-L02-121121	SW6010D	Potassium	2.57		0.167	0.5	mg/L	2.57	
LLB-SW-L02-121121	SW6010D	Selenium	0.0089	U	0.0089	0.02	mg/L	0.0200	U
LLB-SW-L02-121121	SW6010D	Silver	0.0018	U	0.0018	0.01	mg/L	0.0100	U
LLB-SW-L02-121121	SW6010D	Sodium	6.62		0.391	1	mg/L	6.62	
LLB-SW-L02-121121	SW6010D	Thallium	0.0086	U	0.0086	0.02	mg/L	0.0200	U
LLB-SW-L02-121121	SW6010D	Vanadium	0.0045	J	0.0012	0.01	mg/L	0.00450	J
LLB-SW-L02-121121	SW6010D	Zinc	0.2		0.016	0.02	mg/L	0.200	
LLB-SW-L02-121121	SW7470A	Mercury	0.00014	U	0.00014	0.0002	mg/L	0.000200	UJ
LLB-SW-L02-121121	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L02-121121	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-SW-L02-121121	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	Acetone	23	J	8.3	50	ug/L	23	J
LLB-SW-L02-121121	SW8260D	Benzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	Ethylbenzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-SW-L02-121121	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Styrene	1.5	J	0.29	5	ug/L	1.5	J
LLB-SW-L02-121121	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-SW-L02-121121	SW8260D	Toluene	0.66	U	0.66	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-SW-L02-121121	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-SW-L02-121121	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U
LLB-SW-L02-121121	SW8270E	1,1´-Biphenyl	4.1	U	4.1	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L02-121121	SW8270E	2,4,5-Trichlorophenol	3.9	U		3.9	25 ug/L	25	UJ
LLB-SW-L02-121121	SW8270E	2,4,6-Trichlorophenol	3.4	U		3.4	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	2,4-Dichlorophenol	3.6	U		3.6	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	2,4-Dimethylphenol	3.8	U		3.8	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	2,4-Dinitrophenol	8.8	U		8.8	25 ug/L	25	UJ
LLB-SW-L02-121121	SW8270E	2,4-Dinitrotoluene	6	U		6	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	2,6-Dinitrotoluene	5.3	U		5.3	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	2-Chloronaphthalene	3	U		3	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	2-Chlorophenol	2	U		2	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	2-Methylnaphthalene	3	U		3	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	2-Methylphenol	3.1	U		3.1	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	2-Nitroaniline	3.6	U		3.6	25 ug/L	25	U
LLB-SW-L02-121121	SW8270E	2-Nitrophenol	2.5	U		2.5	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	3,3´-Dichlorobenzidine	3.7	U		3.7	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	3-Nitroaniline	4.3	U		4.3	25 ug/L	25	U
LLB-SW-L02-121121	SW8270E	4,6-Dinitro-2-methylphenol	14	U		14	25 ug/L	25	UJ
LLB-SW-L02-121121	SW8270E	4-Bromophenyl phenyl ether	3.9	U		3.9	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	4-Chloro-3-methylphenol	4	U		4	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	4-Chloroaniline	4.9	U		4.9	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	4-Chlorophenyl phenyl ether	3	U		3	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	4-Methylphenol	3.3	U		3.3	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	4-Nitroaniline	5.1	U		5.1	25 ug/L	25	U
LLB-SW-L02-121121	SW8270E	4-Nitrophenol	5.8	U		5.8	25 ug/L	25	UJ
LLB-SW-L02-121121	SW8270E	Acenaphthene	2.5	U		2.5	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Acenaphthylene	2.7	U		2.7	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Acetophenone	4	U		4	10 ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	Anthracene	2.9	U		2.9	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Atrazine	5.8	U		5.8	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benz(a)anthracene	2.8	U		2.8	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benzaldehyde	6.8	U		6.8	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benzo(a)pyrene	3.5	U		3.5	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benzo(b)fluoranthene	3.8	U		3.8	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benzo(g,h,i)perylene	4.2	U		4.2	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Benzo(k)fluoranthene	3.6	U		3.6	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Bis(2-chloroethoxy)methane	2.6	U		2.6	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Bis(2-chloroethyl)ether	2.4	U		2.4	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Bis(2-chloroisopropyl)ether	3	U		3	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Bis(2-ethylhexyl)phthalate	4.4	U		4.4	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Butyl benzyl phthalate	3.4	U		3.4	10 ug/L	10	U
LLB-SW-L02-121121	SW8270E	Caprolactam	5	U		5	10 ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-SW-L02-121121	SW8270E	Carbazole	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Chrysene	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Dibenz(a,h)anthracene	4.5	U	4.5	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Dibenzofuran	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Diethyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Dimethyl phthalate	2.8	U	2.8	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Di-n-butyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Di-n-octyl phthalate	9.3	U	9.3	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Fluoranthene	3	U	3	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Fluorene	2.7	U	2.7	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Hexachlorobenzene	3.9	U	3.9	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Hexachlorobutadiene	4.2	U	4.2	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Hexachlorocyclopentadiene	8.4	U	8.4	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Hexachloroethane	3.1	U	3.1	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Indeno(1,2,3-cd)pyrene	4.2	U	4.2	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Isophorone	3.5	U	3.5	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Naphthalene	2.1	U	2.1	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Nitrobenzene	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	N-Nitrosodi-n-propylamine	2.5	U	2.5	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	N-Nitrosodiphenylamine	2.4	U	2.4	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Pentachlorophenol	6.4	U	6.4	25	ug/L	25	UJ
LLB-SW-L02-121121	SW8270E	Phenanthrene	2.9	U	2.9	10	ug/L	10	U
LLB-SW-L02-121121	SW8270E	Phenol	2.9	U	2.9	10	ug/L	10	UJ
LLB-SW-L02-121121	SW8270E	Pyrene	2.9	U	2.9	10	ug/L	10	U
LLB-EB-121321	SW6010D	Aluminum	0.0581	U	0.0581	0.2	mg/L	0.200	U
LLB-EB-121321	SW6010D	Antimony	0.0125	U	0.0125	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Arsenic	0.0104	U	0.0104	0.05	mg/L	0.0500	U
LLB-EB-121321	SW6010D	Barium	0.0048	U	0.0048	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Beryllium	0.0019	U	0.0019	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Cadmium	0.0016	U	0.0016	0.005	mg/L	0.00500	U
LLB-EB-121321	SW6010D	Calcium	0.0513	U	0.0513	0.1	mg/L	0.100	U
LLB-EB-121321	SW6010D	Chromium	0.0067	U	0.0067	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Cobalt	0.0019	U	0.0019	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Copper	0.0024	U	0.0024	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Iron	0.0362	U	0.0362	0.1	mg/L	0.100	U
LLB-EB-121321	SW6010D	Lead	0.0039	U	0.0039	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Magnesium	0.0295	U	0.0295	0.1	mg/L	0.100	U
LLB-EB-121321	SW6010D	Manganese	0.0101	U	0.0101	0.015	mg/L	0.0150	U
LLB-EB-121321	SW6010D	Nickel	0.0104	U	0.0104	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Potassium	0.167	U	0.167	0.5	mg/L	0.500	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-EB-121321	SW6010D	Selenium	0.0089	U	0.0089	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Silver	0.0018	U	0.0018	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Sodium	0.391	U	0.391	1	mg/L	1.00	U
LLB-EB-121321	SW6010D	Thallium	0.0086	U	0.0086	0.02	mg/L	0.0200	U
LLB-EB-121321	SW6010D	Vanadium	0.0012	U	0.0012	0.01	mg/L	0.0100	U
LLB-EB-121321	SW6010D	Zinc	0.016	U	0.016	0.02	mg/L	0.0200	U
LLB-EB-121321	SW7470A	Mercury	0.00014	U	0.00014	0.0002	mg/L	0.000200	U
LLB-EB-121321	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-EB-121321	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-EB-121321	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U
LLB-EB-121321	SW8260D	Acetone	8.3	U	8.3	50	ug/L	50	U
LLB-EB-121321	SW8260D	Benzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-EB-121321	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U
LLB-EB-121321	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-EB-121321	SW8260D	Ethylbenzene	0.24	U	0.24	5	ug/L	5.0	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-EB-121321	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-EB-121321	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Styrene	0.29	U	0.29	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-EB-121321	SW8260D	Toluene	0.66	U	0.66	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-EB-121321	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-EB-121321	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U
LLB-EB-121321	SW8270E	1,1´-Biphenyl	4.1	U	4.1	10	ug/L	10	U
LLB-EB-121321	SW8270E	2,4,5-Trichlorophenol	3.9	U	3.9	25	ug/L	25	U
LLB-EB-121321	SW8270E	2,4,6-Trichlorophenol	3.4	U	3.4	10	ug/L	10	U
LLB-EB-121321	SW8270E	2,4-Dichlorophenol	3.6	U	3.6	10	ug/L	10	U
LLB-EB-121321	SW8270E	2,4-Dimethylphenol	3.8	U	3.8	10	ug/L	10	U
LLB-EB-121321	SW8270E	2,4-Dinitrophenol	8.8	U	8.8	25	ug/L	25	UJ
LLB-EB-121321	SW8270E	2,4-Dinitrotoluene	6	U	6	10	ug/L	10	U
LLB-EB-121321	SW8270E	2,6-Dinitrotoluene	5.3	U	5.3	10	ug/L	10	U
LLB-EB-121321	SW8270E	2-Chloronaphthalene	3	U	3	10	ug/L	10	U
LLB-EB-121321	SW8270E	2-Chlorophenol	2	U	2	10	ug/L	10	U
LLB-EB-121321	SW8270E	2-Methylnaphthalene	3	U	3	10	ug/L	10	U
LLB-EB-121321	SW8270E	2-Methylphenol	3.1	U	3.1	10	ug/L	10	U
LLB-EB-121321	SW8270E	2-Nitroaniline	3.6	U	3.6	25	ug/L	25	U
LLB-EB-121321	SW8270E	2-Nitrophenol	2.5	U	2.5	10	ug/L	10	UJ
LLB-EB-121321	SW8270E	3,3´-Dichlorobenzidine	3.7	U	3.7	10	ug/L	10	U
LLB-EB-121321	SW8270E	3-Nitroaniline	4.3	U	4.3	25	ug/L	25	U
LLB-EB-121321	SW8270E	4,6-Dinitro-2-methylphenol	14	U	14	25	ug/L	25	U
LLB-EB-121321	SW8270E	4-Bromophenyl phenyl ether	3.9	U	3.9	10	ug/L	10	U
LLB-EB-121321	SW8270E	4-Chloro-3-methylphenol	4	U	4	10	ug/L	10	U
LLB-EB-121321	SW8270E	4-Chloroaniline	4.9	U	4.9	10	ug/L	10	U
LLB-EB-121321	SW8270E	4-Chlorophenyl phenyl ether	3	U	3	10	ug/L	10	U
LLB-EB-121321	SW8270E	4-Methylphenol	3.3	U	3.3	10	ug/L	10	U
LLB-EB-121321	SW8270E	4-Nitroaniline	5.1	U	5.1	25	ug/L	25	U
LLB-EB-121321	SW8270E	4-Nitrophenol	5.8	U	5.8	25	ug/L	25	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-EB-121321	SW8270E	Acenaphthene	2.5	U		2.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	Acenaphthylene	2.7	U		2.7	10 ug/L	10	U
LLB-EB-121321	SW8270E	Acetophenone	4	U		4	10 ug/L	10	UJ
LLB-EB-121321	SW8270E	Anthracene	2.9	U		2.9	10 ug/L	10	U
LLB-EB-121321	SW8270E	Atrazine	5.8	U		5.8	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benz(a)anthracene	2.8	U		2.8	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benzaldehyde	6.8	U		6.8	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benzo(a)pyrene	3.5	U		3.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benzo(b)fluoranthene	3.8	U		3.8	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benzo(g,h,i)perylene	4.2	U		4.2	10 ug/L	10	U
LLB-EB-121321	SW8270E	Benzo(k)fluoranthene	3.6	U		3.6	10 ug/L	10	U
LLB-EB-121321	SW8270E	Bis(2-chloroethoxy)methane	2.6	U		2.6	10 ug/L	10	U
LLB-EB-121321	SW8270E	Bis(2-chloroethyl)ether	2.4	U		2.4	10 ug/L	10	U
LLB-EB-121321	SW8270E	Bis(2-chloroisopropyl)ether	3	U		3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Bis(2-ethylhexyl)phthalate	4.4	U		4.4	10 ug/L	10	U
LLB-EB-121321	SW8270E	Butyl benzyl phthalate	3.4	U		3.4	10 ug/L	10	U
LLB-EB-121321	SW8270E	Caprolactam	5	U		5	10 ug/L	10	U
LLB-EB-121321	SW8270E	Carbazole	3.3	U		3.3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Chrysene	2.7	U		2.7	10 ug/L	10	U
LLB-EB-121321	SW8270E	Dibenz(a,h)anthracene	4.5	U		4.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	Dibenzofuran	2.7	U		2.7	10 ug/L	10	U
LLB-EB-121321	SW8270E	Diethyl phthalate	3.3	U		3.3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Dimethyl phthalate	2.8	U		2.8	10 ug/L	10	U
LLB-EB-121321	SW8270E	Di-n-butyl phthalate	3.3	U		3.3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Di-n-octyl phthalate	9.3	U		9.3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Fluoranthene	3	U		3	10 ug/L	10	U
LLB-EB-121321	SW8270E	Fluorene	2.7	U		2.7	10 ug/L	10	U
LLB-EB-121321	SW8270E	Hexachlorobenzene	3.9	U		3.9	10 ug/L	10	U
LLB-EB-121321	SW8270E	Hexachlorobutadiene	4.2	U		4.2	10 ug/L	10	U
LLB-EB-121321	SW8270E	Hexachlorocyclopentadiene	8.4	U		8.4	10 ug/L	10	U
LLB-EB-121321	SW8270E	Hexachloroethane	3.1	U		3.1	10 ug/L	10	U
LLB-EB-121321	SW8270E	Indeno(1,2,3-cd)pyrene	4.2	U		4.2	10 ug/L	10	U
LLB-EB-121321	SW8270E	Isophorone	3.5	U		3.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	Naphthalene	2.1	U		2.1	10 ug/L	10	U
LLB-EB-121321	SW8270E	Nitrobenzene	2.5	U		2.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	N-Nitrosodi-n-propylamine	2.5	U		2.5	10 ug/L	10	U
LLB-EB-121321	SW8270E	N-Nitrosodiphenylamine	2.4	U		2.4	10 ug/L	10	U
LLB-EB-121321	SW8270E	Pentachlorophenol	6.4	U		6.4	25 ug/L	25	U
LLB-EB-121321	SW8270E	Phenanthrene	2.9	U		2.9	10 ug/L	10	U
LLB-EB-121321	SW8270E	Phenol	2.9	U		2.9	10 ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-EB-121321	SW8270E	Pyrene	2.9	U	2.9	10	ug/L	10	U
LLB-FB-121321	SW6010D	Aluminum	0.0581	U	0.0581	0.2	mg/L	0.200	U
LLB-FB-121321	SW6010D	Antimony	0.0125	U	0.0125	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Arsenic	0.0104	U	0.0104	0.05	mg/L	0.0500	U
LLB-FB-121321	SW6010D	Barium	0.0048	U	0.0048	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Beryllium	0.0019	U	0.0019	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Cadmium	0.0016	U	0.0016	0.005	mg/L	0.005	U
LLB-FB-121321	SW6010D	Calcium	0.0513	U	0.0513	0.1	mg/L	0.100	U
LLB-FB-121321	SW6010D	Chromium	0.0067	U	0.0067	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Cobalt	0.0019	U	0.0019	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Copper	0.0024	U	0.0024	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Iron	0.0362	U	0.0362	0.1	mg/L	0.100	U
LLB-FB-121321	SW6010D	Lead	0.0039	U	0.0039	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Magnesium	0.0295	U	0.0295	0.1	mg/L	0.100	U
LLB-FB-121321	SW6010D	Manganese	0.0101	U	0.0101	0.015	mg/L	0.0150	U
LLB-FB-121321	SW6010D	Nickel	0.0104	U	0.0104	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Potassium	0.167	U	0.167	0.5	mg/L	0.500	U
LLB-FB-121321	SW6010D	Selenium	0.0089	U	0.0089	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Silver	0.0018	U	0.0018	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Sodium	0.391	U	0.391	1	mg/L	1.00	U
LLB-FB-121321	SW6010D	Thallium	0.0086	U	0.0086	0.02	mg/L	0.0200	U
LLB-FB-121321	SW6010D	Vanadium	0.0012	U	0.0012	0.01	mg/L	0.0100	U
LLB-FB-121321	SW6010D	Zinc	0.016	U	0.016	0.02	mg/L	0.0200	U
LLB-FB-121321	SW7470A	Mercury	0.00014	U	0.00014	0.0002	mg/L	0.000200	U
LLB-FB-121321	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-FB-121321	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-FB-121321	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-FB-121321	SW8260D	Acetone	8.3	U	8.3	50	ug/L	50	U
LLB-FB-121321	SW8260D	Benzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-FB-121321	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U
LLB-FB-121321	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-FB-121321	SW8260D	Ethylbenzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-FB-121321	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Styrene	0.29	U	0.29	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-FB-121321	SW8260D	Toluene	0.66	U	0.66	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-FB-121321	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-FB-121321	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U
LLB-FB-121321	SW8270E	1,1´-Biphenyl	4.1	U	4.1	10	ug/L	10	U
LLB-FB-121321	SW8270E	2,4,5-Trichlorophenol	3.9	U	3.9	25	ug/L	25	U
LLB-FB-121321	SW8270E	2,4,6-Trichlorophenol	3.4	U	3.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	2,4-Dichlorophenol	3.6	U	3.6	10	ug/L	10	U
LLB-FB-121321	SW8270E	2,4-Dimethylphenol	3.8	U	3.8	10	ug/L	10	U
LLB-FB-121321	SW8270E	2,4-Dinitrophenol	8.8	U	8.8	25	ug/L	25	UJ
LLB-FB-121321	SW8270E	2,4-Dinitrotoluene	6	U	6	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-FB-121321	SW8270E	2,6-Dinitrotoluene	5.3	U	5.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	2-Chloronaphthalene	3	U	3	10	ug/L	10	U
LLB-FB-121321	SW8270E	2-Chlorophenol	2	U	2	10	ug/L	10	U
LLB-FB-121321	SW8270E	2-Methylnaphthalene	3	U	3	10	ug/L	10	U
LLB-FB-121321	SW8270E	2-Methylphenol	3.1	U	3.1	10	ug/L	10	U
LLB-FB-121321	SW8270E	2-Nitroaniline	3.6	U	3.6	25	ug/L	25	U
LLB-FB-121321	SW8270E	2-Nitrophenol	2.5	U	2.5	10	ug/L	10	UJ
LLB-FB-121321	SW8270E	3,3´-Dichlorobenzidine	3.7	U	3.7	10	ug/L	10	U
LLB-FB-121321	SW8270E	3-Nitroaniline	4.3	U	4.3	25	ug/L	25	U
LLB-FB-121321	SW8270E	4,6-Dinitro-2-methylphenol	14	U	14	25	ug/L	25	U
LLB-FB-121321	SW8270E	4-Bromophenyl phenyl ether	3.9	U	3.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	4-Chloro-3-methylphenol	4	U	4	10	ug/L	10	U
LLB-FB-121321	SW8270E	4-Chloroaniline	4.9	U	4.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	4-Chlorophenyl phenyl ether	3	U	3	10	ug/L	10	U
LLB-FB-121321	SW8270E	4-Methylphenol	3.3	U	3.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	4-Nitroaniline	5.1	U	5.1	25	ug/L	25	U
LLB-FB-121321	SW8270E	4-Nitrophenol	5.8	U	5.8	25	ug/L	25	U
LLB-FB-121321	SW8270E	Acenaphthene	2.5	U	2.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	Acenaphthylene	2.7	U	2.7	10	ug/L	10	U
LLB-FB-121321	SW8270E	Acetophenone	4	U	4	10	ug/L	10	UJ
LLB-FB-121321	SW8270E	Anthracene	2.9	U	2.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	Atrazine	5.8	U	5.8	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benz(a)anthracene	2.8	U	2.8	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benzaldehyde	6.8	U	6.8	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benzo(a)pyrene	3.5	U	3.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benzo(b)fluoranthene	3.8	U	3.8	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benzo(g,h,i)perylene	4.2	U	4.2	10	ug/L	10	U
LLB-FB-121321	SW8270E	Benzo(k)fluoranthene	3.6	U	3.6	10	ug/L	10	U
LLB-FB-121321	SW8270E	Bis(2-chloroethoxy)methane	2.6	U	2.6	10	ug/L	10	U
LLB-FB-121321	SW8270E	Bis(2-chloroethyl)ether	2.4	U	2.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	Bis(2-chloroisopropyl)ether	3	U	3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Bis(2-ethylhexyl)phthalate	4.4	U	4.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	Butyl benzyl phthalate	3.4	U	3.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	Caprolactam	5	U	5	10	ug/L	10	U
LLB-FB-121321	SW8270E	Carbazole	3.3	U	3.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Chrysene	2.7	U	2.7	10	ug/L	10	U
LLB-FB-121321	SW8270E	Dibenz(a,h)anthracene	4.5	U	4.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	Dibenzofuran	2.7	U	2.7	10	ug/L	10	U
LLB-FB-121321	SW8270E	Diethyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Dimethyl phthalate	2.8	U	2.8	10	ug/L	10	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-FB-121321	SW8270E	Di-n-butyl phthalate	3.3	U	3.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Di-n-octyl phthalate	9.3	U	9.3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Fluoranthene	3	U	3	10	ug/L	10	U
LLB-FB-121321	SW8270E	Fluorene	2.7	U	2.7	10	ug/L	10	U
LLB-FB-121321	SW8270E	Hexachlorobenzene	3.9	U	3.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	Hexachlorobutadiene	4.2	U	4.2	10	ug/L	10	U
LLB-FB-121321	SW8270E	Hexachlorocyclopentadiene	8.4	U	8.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	Hexachloroethane	3.1	U	3.1	10	ug/L	10	U
LLB-FB-121321	SW8270E	Indeno(1,2,3-cd)pyrene	4.2	U	4.2	10	ug/L	10	U
LLB-FB-121321	SW8270E	Isophorone	3.5	U	3.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	Naphthalene	2.1	U	2.1	10	ug/L	10	U
LLB-FB-121321	SW8270E	Nitrobenzene	2.5	U	2.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	N-Nitrosodi-n-propylamine	2.5	U	2.5	10	ug/L	10	U
LLB-FB-121321	SW8270E	N-Nitrosodiphenylamine	2.4	U	2.4	10	ug/L	10	U
LLB-FB-121321	SW8270E	Pentachlorophenol	6.4	U	6.4	25	ug/L	25	U
LLB-FB-121321	SW8270E	Phenanthrene	2.9	U	2.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	Phenol	2.9	U	2.9	10	ug/L	10	U
LLB-FB-121321	SW8270E	Pyrene	2.9	U	2.9	10	ug/L	10	U
LLB-TB-121321	SW8260D	1,1,1-Trichloroethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,1,2,2-Tetrachloroethane	0.25	U	0.25	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,1,2-Trichloroethane	0.23	U	0.23	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,1-Dichloroethane	0.29	U	0.29	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,1-Dichloroethene	0.32	U	0.32	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2,4-Trichlorobenzene	0.68	U	0.68	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2-Dibromo-3-chloropropane	0.61	U	0.61	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2-Dibromoethane	0.2	U	0.2	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2-Dichlorobenzene	0.22	U	0.22	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2-Dichloroethane	0.19	U	0.19	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,2-Dichloropropane	0.23	U	0.23	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,3-Dichlorobenzene	0.23	U	0.23	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	1,4-Dichlorobenzene	0.57	U	0.57	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	2-Butanone	5	U	5	50	ug/L	50	U
LLB-TB-121321	SW8260D	2-Hexanone	2.7	U	2.7	10	ug/L	10	U
LLB-TB-121321	SW8260D	4-Methyl-2-pentanone	2.7	U	2.7	10	ug/L	10	U
LLB-TB-121321	SW8260D	Acetone	8.3	U	8.3	50	ug/L	50	U
LLB-TB-121321	SW8260D	Benzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Bromodichloromethane	0.26	U	0.26	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Bromoform	0.48	U	0.48	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Bromomethane	0.73	U	0.73	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Carbon disulfide	0.98	U	0.98	5	ug/L	5.0	U

Sample ID	Method	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
LLB-TB-121321	SW8260D	Carbon tetrachloride	0.28	U	0.28	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Chlorobenzene	0.47	U	0.47	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Chloroethane	0.45	U	0.45	10	ug/L	10	U
LLB-TB-121321	SW8260D	Chloroform	0.23	U	0.23	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Chloromethane	0.44	U	0.44	10	ug/L	10	U
LLB-TB-121321	SW8260D	cis-1,2-Dichloroethene	0.5	U	0.5	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	cis-1,3-Dichloropropene	0.3	U	0.3	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Cyclohexane	1	U	1	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Dibromochloromethane	0.4	U	0.4	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Dichlorodifluoromethane	0.47	U	0.47	10	ug/L	10	U
LLB-TB-121321	SW8260D	Ethylbenzene	0.24	U	0.24	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Freon-113	0.33	U	0.33	10	ug/L	10	U
LLB-TB-121321	SW8260D	Isopropylbenzene	0.29	U	0.29	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	m,p-Xylene	0.51	U	0.51	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Methyl acetate	0.57	U	0.57	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Methyl tert-butyl ether	0.24	U	0.24	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Methylcyclohexane	0.24	U	0.24	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Methylene chloride	4.8	U	4.8	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	o-Xylene	0.27	U	0.27	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Styrene	0.29	U	0.29	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Tetrachloroethene	0.3	U	0.3	5	ug/L	5.0	UJ
LLB-TB-121321	SW8260D	Toluene	0.66	U	0.66	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	trans-1,2-Dichloroethene	0.29	U	0.29	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	trans-1,3-Dichloropropene	0.81	U	0.81	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Trichloroethene	0.21	U	0.21	5	ug/L	5.0	UJ
LLB-TB-121321	SW8260D	Trichlorofluoromethane	0.43	U	0.43	5	ug/L	5.0	U
LLB-TB-121321	SW8260D	Vinyl chloride	0.44	U	0.44	2	ug/L	2.0	U

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 4 START CONTRACT

Site Name	Lakes Parkway Lithium Battery Fire		**TO/TOLIN No.**	0082-035
Data Reviewer (signature and date)	3/09/2022		**Technical Reviewer (signature and date)**	15 March 2022
Laboratory Report No.	2112T38		**Laboratory**	Analytical Environmental Services, Inc. / Atlanta, Georgia
Analyses	RCRA eight metals by EPA SW-846 methods 6010D and 7471B; semivolatile organic compounds (SVOC) by EPA SW-846 method 8270E; volatile organic compounds (VOC) by EPA SW-846 method 8260D; reactive sulfide and reactive cyanide by EPA SW-846-7.3; pH by EPA SW-846 method 9045D; chloride and fluoride by EPA SW-846 method 9056A; flashpoint by EPA SW-846 method 1010A; fixed residues by Standard Methods method 2540G			
Samples and Matrix	One wastewater sample (LP-LB-WW-01)			
Collection Date(s)	12/22/2021			
Field Duplicate Pairs	None			
Field QC Blanks	None			

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 2* (February 2021), the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of data was required for this data package. The data can be used with the qualifications indicated in this checklist.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	All sample containers were received intact and with proper chain-of-custody (COC) documentation. Cooler temperature and sample preservation were verified upon receipt of the sample. No custody seal was present on sample or shipping container, but no qualifications were applied for this field oversight. The sample was received outside of holding time for pH by EPA SW-846 method 9045D. Per method requirements, pH maximum holding time is 15 minutes. The pH sample result has been qualified as estimated (flagged J).

Method blanks:

Within Criteria	Exceedance/Notes
Y	All method blank results nondetect at the laboratory reporting limit.

Field blanks:

Within Criteria	Exceedance/Notes
NA	No field or trip blanks were submitted.

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
Y	

MS/MSDs:

Within Criteria	Exceedance/Notes
Y	MS/MSD results for the project sample are provided for EPA SW-846 methods 6010D, 7471B, 8260D, and Chapter 7.3. All recoveries and RPDs are within acceptance limits.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
Y	Laboratory duplicate results for the project samples were provided for pH, VOCs and %solids. All are within acceptance limits.

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
N	LB-LB-WW-01 was analyzed at a fifty-fold dilution for the VOCs. All VOC results are nondetect at elevated reporting limits. It is unclear why the sample was analyzed at a dilution for VOCs. The sample was also analyzed at a 1000-fold dilution for chloride and fluoride due to sample matrix.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 4 START CONTRACT

MDLs/RLs:

Within Criteria	Exceedance/Notes
N	Elevated reporting limits are provided for VOC analysis due to unexplained dilution.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

LAKES PARKWAY LITHIUM BATTERY FIRE
WASTEWATER ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES, INC. REPORT NO. 2112T38

Sample ID	Analyte	METHOD	Lab Result	Lab Qual	Units	MDL	RL	Val Result	Val Qual
LP-LB-WW-01	1,1,1-Trichloroethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,1,2,2-Tetrachloroethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,1,2-Trichloroethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,1-Dichloroethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,1-Dichloroethene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2,4-Trichlorobenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2-Dibromo-3-chloropropane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2-Dibromoethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2-Dichlorobenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2-Dichloroethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,2-Dichloropropane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,3-Dichlorobenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	1,4-Dichlorobenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	2-Butanone	SW8260D	25000	U	ug/Kg	25000	25000	25000	U
LP-LB-WW-01	2-Hexanone	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	4-Methyl-2-pentanone	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Acetone	SW8260D	25000	U	ug/Kg	25000	25000	25000	U
LP-LB-WW-01	Benzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Bromodichloromethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Bromoform	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Bromomethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Carbon disulfide	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Carbon tetrachloride	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Chlorobenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Chloroethane	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Chloroform	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Chloromethane	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	cis-1,2-Dichloroethene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	cis-1,3-Dichloropropene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Cyclohexane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Dibromochloromethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Dichlorodifluoromethane	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Ethylbenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Freon-113	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Isopropylbenzene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	m,p-Xylene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Methyl acetate	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Methyl tert-butyl ether	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Methylcyclohexane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Methylene chloride	SW8260D	2500	U	ug/Kg	2500	10000	2500	U
LP-LB-WW-01	o-Xylene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Styrene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Tetrachloroethene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Toluene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	trans-1,2-Dichloroethene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	trans-1,3-Dichloropropene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Trichloroethene	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Trichlorofluoromethane	SW8260D	2500	U	ug/Kg	2500	2500	2500	U
LP-LB-WW-01	Vinyl chloride	SW8260D	5000	U	ug/Kg	5000	5000	5000	U
LP-LB-WW-01	Arsenic	SW6010D	0.38	U	mg/Kg	0.38	4.6	4.6	U

LP-LB-WW-01	Barium	SW6010D	0.15 U	mg/Kg	0.15	4.6	4.6 U
LP-LB-WW-01	Cadmium	SW6010D	0.045 U	mg/Kg	0.045	2.3	2.3 U
LP-LB-WW-01	Chromium	SW6010D	0.72 U	mg/Kg	0.72	2.3	2.3 U
LP-LB-WW-01	Lead	SW6010D	0.17 U	mg/Kg	0.17	4.6	4.6 U
LP-LB-WW-01	Selenium	SW6010D	0.69 U	mg/Kg	0.69	4.6	4.6 U
LP-LB-WW-01	Silver	SW6010D	0.012 U	mg/Kg	0.012	2.3	2.3 U
LP-LB-WW-01	1,1´-Biphenyl	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2,4,5-Trichlorophenol	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	2,4,6-Trichlorophenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2,4-Dichlorophenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2,4-Dimethylphenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2,4-Dinitrophenol	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	2,4-Dinitrotoluene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2,6-Dinitrotoluene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2-Chloronaphthalene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2-Chlorophenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2-Methylnaphthalene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2-Methylphenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	2-Nitroaniline	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	2-Nitrophenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	3,3´-Dichlorobenzidine	SW8270E	670 U	mg/Kg	670	670	670 U
LP-LB-WW-01	3-Nitroaniline	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	4,6-Dinitro-2-methylphenol	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	4-Bromophenyl phenyl ether	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	4-Chloro-3-methylphenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	4-Chloroaniline	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	4-Chlorophenyl phenyl ether	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	4-Methylphenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	4-Nitroaniline	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	4-Nitrophenol	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	Acenaphthene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Acenaphthylene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Acetophenone	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Anthracene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Atrazine	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benz(a)anthracene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benzaldehyde	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benzo(a)pyrene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benzo(b)fluoranthene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benzo(g,h,i)perylene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Benzo(k)fluoranthene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Bis(2-chloroethoxy)methane	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Bis(2-chloroethyl)ether	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Bis(2-chloroisopropyl)ether	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Bis(2-ethylhexyl)phthalate	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Butyl benzyl phthalate	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Caprolactam	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Carbazole	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Chrysene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Di-n-butyl phthalate	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Di-n-octyl phthalate	SW8270E	100 U	mg/Kg	100	100	100 U

LAKES PARKWAY LITHIUM BATTERY FIRE
WASTEWATER ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES, INC. REPORT NO. 2112T38

LP-LB-WW-01	Dibenz(a,h)anthracene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Dibenzofuran	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Diethyl phthalate	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Dimethyl phthalate	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Fluoranthene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Fluorene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Hexachlorobenzene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Hexachlorobutadiene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Hexachlorocyclopentadiene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Hexachloroethane	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Indeno(1,2,3-cd)pyrene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Isophorone	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	N-Nitrosodi-n-propylamine	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	N-Nitrosodiphenylamine	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Naphthalene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Nitrobenzene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Pentachlorophenol	SW8270E	500 U	mg/Kg	500	500	500 U
LP-LB-WW-01	Phenanthrene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Phenol	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Pyrene	SW8270E	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Mercury	SW7471B	0.0214 U	mg/Kg	0.0214	0.0998	0.0998 U
LP-LB-WW-01	Ignitability	SW1010	180 >	F	0	0	180 >
LP-LB-WW-01	% Fixed Solids	SM2540E	93.2	wt%	0.00100	0.00100	93.2
LP-LB-WW-01	% Total Solids	SM2540E	0.430	wt%	0.00100	0.00100	0.430
LP-LB-WW-01	pH	SW9045D	8.06 H	pH Units	0.01	0.01	8.06 J
LP-LB-WW-01	Sulfide, Reactive	SW7.3.4.2	100 U	mg/Kg	100	100	100 U
LP-LB-WW-01	Cyanide, Reactive	SW7.3.3.2	0.980 U	mg/Kg	0.980	0.980	0.980 U
LP-LB-WW-01	Chloride	SW9056A	2700	mg/L	450	1000	2700
LP-LB-WW-01	Fluoride	SW9056A	130 U	mg/L	130	200	200 U

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 4 START CONTRACT

Site Name	Lakes Parkway Lithium Battery Fire		**TO/TOLIN No.**	0082-035
Data Reviewer (signature and date)	3/11/2022		**Technical Reviewer (signature and date)**	15 March 2022
Laboratory Report No.	2202V46		**Laboratory**	Analytical Environmental Services, Inc. / Atlanta, Georgia
Analyses	TCLP Metals (including mercury) by EPA SW-846 methods 1311/ 6010D and 1311/7470A; TCLP semivolatile organic compounds (SVOC) by EPA SW-846 methods 1311/8270E; TCLP volatile organic compounds (VOC) by EPA SW-846 methods 1311/8260D			
Samples and Matrix	One sludge sample (LPLBF-SL-L01-022522)			
Collection Date(s)	2/25/2022			
Field Duplicate Pairs	None			
Field QC Blanks	None			

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 2* (February 2021), the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of data was required for this data package. The data can be used with the qualifications indicated in this checklist.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	
N	All sample containers were received intact and with proper chain-of-custody (COC) documentation. Cooler temperature and sample preservation were verified upon receipt of the samples and are acceptable. No custody seals were present on sample or shipping containers, but no qualifications were applied for this oversight.

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
Y	

MS/MSDs:

Within Criteria	Exceedance/Notes
NA	MS/MSDs performed on samples from other data packages were not evaluated.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	Laboratory duplicates performed on samples from other data packages were not evaluated.

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	VOC results are reported from a 20x dilution. The report does not explain why the VOCs were analyzed at a 20x dilution. All results are ND.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Detections between the MDL and RL were reported and qualified as estimated (flagged J) by the laboratory. VOC reporting limits are elevated due to sample dilution.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

LAKES PARKWAY LITHIUM BATTERY FIRE
WASTE WATER ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES, INC. REPORT NO. 2201A78

Sample ID	Analyte	METHOD	Lab Result	Lab Qual	Units	MDL	RL	Val Result	Val Qual
LPLBF-WW-L01-011122	1,1,1-Trichloroethane	SW8260D	0.26	U	ug/L	0.26	5.0	0.26	U
LPLBF-WW-L01-011122	1,1,2,2-Tetrachloroethane	SW8260D	0.25	U	ug/L	0.25	5.0	0.25	U
LPLBF-WW-L01-011122	1,1,2-Trichloroethane	SW8260D	0.23	U	ug/L	0.23	5.0	0.23	U
LPLBF-WW-L01-011122	1,1-Dichloroethane	SW8260D	0.29	U	ug/L	0.29	5.0	0.29	U
LPLBF-WW-L01-011122	1,1-Dichloroethene	SW8260D	0.32	U	ug/L	0.32	5.0	0.32	U
LPLBF-WW-L01-011122	1,2,4-Trichlorobenzene	SW8260D	0.68	U	ug/L	0.68	5.0	0.68	U
LPLBF-WW-L01-011122	1,2-Dibromo-3-chloropropane	SW8260D	0.61	U	ug/L	0.61	5.0	0.61	U
LPLBF-WW-L01-011122	1,2-Dibromoethane	SW8260D	2.6	J	ug/L	0.20	5.0	2.6	J
LPLBF-WW-L01-011122	1,2-Dichlorobenzene	SW8260D	0.22	U	ug/L	0.22	5.0	0.22	U
LPLBF-WW-L01-011122	1,2-Dichloroethane	SW8260D	0.19	U	ug/L	0.19	5.0	0.19	U
LPLBF-WW-L01-011122	1,2-Dichloropropane	SW8260D	0.23	U	ug/L	0.23	5.0	0.23	U
LPLBF-WW-L01-011122	1,3-Dichlorobenzene	SW8260D	0.23	U	ug/L	0.23	5.0	0.23	U
LPLBF-WW-L01-011122	1,4-Dichlorobenzene	SW8260D	0.57	U	ug/L	0.57	5.0	0.57	U
LPLBF-WW-L01-011122	2-Butanone	SW8260D	95		ug/L	5.0	50	95	
LPLBF-WW-L01-011122	2-Hexanone	SW8260D	4.3	J	ug/L	2.7	10	4.3	J
LPLBF-WW-L01-011122	4-Methyl-2-pentanone	SW8260D	2.7	U	ug/L	2.7	10	2.7	U
LPLBF-WW-L01-011122	Acetone	SW8260D	200		ug/L	41	100	200	
LPLBF-WW-L01-011122	Benzene	SW8260D	460		ug/L	4.8	100	460	
LPLBF-WW-L01-011122	Bromodichloromethane	SW8260D	0.26	U	ug/L	0.26	5.0	0.26	U
LPLBF-WW-L01-011122	Bromoform	SW8260D	0.48	U	ug/L	0.48	5.0	0.48	U
LPLBF-WW-L01-011122	Bromomethane	SW8260D	130		ug/L	0.73	5.0	130	
LPLBF-WW-L01-011122	Carbon disulfide	SW8260D	0.98	U	ug/L	0.98	5.0	0.98	U
LPLBF-WW-L01-011122	Carbon tetrachloride	SW8260D	0.28	U	ug/L	0.28	5.0	0.28	U
LPLBF-WW-L01-011122	Chlorobenzene	SW8260D	2.0	J	ug/L	0.47	5.0	2.0	J
LPLBF-WW-L01-011122	Chloroethane	SW8260D	4.8	J	ug/L	0.45	10	4.8	J
LPLBF-WW-L01-011122	Chloroform	SW8260D	3.7	J	ug/L	0.23	5.0	3.7	J
LPLBF-WW-L01-011122	Chloromethane	SW8260D	65		ug/L	0.44	10	65	
LPLBF-WW-L01-011122	cis-1,2-Dichloroethene	SW8260D	0.50	U	ug/L	0.50	5.0	0.50	U
LPLBF-WW-L01-011122	cis-1,3-Dichloropropene	SW8260D	0.30	U	ug/L	0.30	5.0	0.30	U
LPLBF-WW-L01-011122	Cyclohexane	SW8260D	1.00	U	ug/L	1.00	5.0	1.00	U
LPLBF-WW-L01-011122	Dibromochloromethane	SW8260D	0.40	U	ug/L	0.40	5.0	0.40	U
LPLBF-WW-L01-011122	Dichlorodifluoromethane	SW8260D	0.47	U	ug/L	0.47	10	0.47	U
LPLBF-WW-L01-011122	Ethylbenzene	SW8260D	300		ug/L	4.8	100	300	
LPLBF-WW-L01-011122	Freon-113	SW8260D	0.33	U	ug/L	0.33	10	0.33	U
LPLBF-WW-L01-011122	Isopropylbenzene	SW8260D	20		ug/L	0.29	5.0	20	

LPLBF-WW-L01-011122	m,p-Xylene	SW8260D	20	ug/L	0.51	5.0	20
LPLBF-WW-L01-011122	Methyl acetate	SW8260D	0.57 U	ug/L	0.57	5.0	0.57 U
LPLBF-WW-L01-011122	Methyl tert-butyl ether	SW8260D	0.24 U	ug/L	0.24	5.0	0.24 U
LPLBF-WW-L01-011122	Methylcyclohexane	SW8260D	0.24 U	ug/L	0.24	5.0	0.24 U
LPLBF-WW-L01-011122	Methylene chloride	SW8260D	4.8 U	ug/L	4.8	5.0	4.8 U
LPLBF-WW-L01-011122	o-Xylene	SW8260D	15	ug/L	0.27	5.0	15 J+
LPLBF-WW-L01-011122	Styrene	SW8260D	2400	ug/L	5.9	100	2400 J+
LPLBF-WW-L01-011122	Tetrachloroethene	SW8260D	0.30 U	ug/L	0.30	5.0	0.30 U
LPLBF-WW-L01-011122	Toluene	SW8260D	480	ug/L	13	100	480
LPLBF-WW-L01-011122	trans-1,2-Dichloroethene	SW8260D	0.29 U	ug/L	0.29	5.0	0.29 U
LPLBF-WW-L01-011122	trans-1,3-Dichloropropene	SW8260D	0.81 U	ug/L	0.81	5.0	0.81 U
LPLBF-WW-L01-011122	Trichloroethene	SW8260D	0.21 U	ug/L	0.21	5.0	0.21 U
LPLBF-WW-L01-011122	Trichlorofluoromethane	SW8260D	0.43 U	ug/L	0.43	5.0	0.43 U
LPLBF-WW-L01-011122	Vinyl chloride	SW8260D	0.44 U	ug/L	0.44	2.0	0.44 U
LPLBF-WW-L01-011122	1,1´-Biphenyl	SW8270E	9.5 J	ug/L	4.1	10	9.5 J
LPLBF-WW-L01-011122	2,4,5-Trichlorophenol	SW8270E	3.9 U	ug/L	3.9	25	3.9 U
LPLBF-WW-L01-011122	2,4,6-Trichlorophenol	SW8270E	3.4 U	ug/L	3.4	10	3.4 U
LPLBF-WW-L01-011122	2,4-Dichlorophenol	SW8270E	3.6 U	ug/L	3.6	10	3.6 U
LPLBF-WW-L01-011122	2,4-Dimethylphenol	SW8270E	15	ug/L	3.8	10	15 J+
LPLBF-WW-L01-011122	2,4-Dinitrophenol	SW8270E	8.8 U	ug/L	8.8	25	8.8 U
LPLBF-WW-L01-011122	2,4-Dinitrotoluene	SW8270E	6.0 U	ug/L	6.0	10	6.0 U
LPLBF-WW-L01-011122	2,6-Dinitrotoluene	SW8270E	5.3 U	ug/L	5.3	10	5.3 U
LPLBF-WW-L01-011122	2-Chloronaphthalene	SW8270E	3.0 U	ug/L	3.0	10	3.0 U
LPLBF-WW-L01-011122	2-Chlorophenol	SW8270E	37	ug/L	2.0	10	37 J+
LPLBF-WW-L01-011122	2-Methylnaphthalene	SW8270E	4.6 J	ug/L	3.0	10	4.6 J
LPLBF-WW-L01-011122	2-Methylphenol	SW8270E	70	ug/L	3.1	10	70 J+
LPLBF-WW-L01-011122	2-Nitroaniline	SW8270E	3.6 U	ug/L	3.6	25	3.6 U
LPLBF-WW-L01-011122	2-Nitrophenol	SW8270E	2.5 U	ug/L	2.5	10	2.5 U
LPLBF-WW-L01-011122	3,3´-Dichlorobenzidine	SW8270E	3.7 U	ug/L	3.7	10	3.7 U
LPLBF-WW-L01-011122	3-Nitroaniline	SW8270E	4.3 U	ug/L	4.3	25	4.3 U
LPLBF-WW-L01-011122	4,6-Dinitro-2-methylphenol	SW8270E	14 U	ug/L	14	25	14 U
LPLBF-WW-L01-011122	4-Bromophenyl phenyl ether	SW8270E	3.9 U	ug/L	3.9	10	3.9 U
LPLBF-WW-L01-011122	4-Chloro-3-methylphenol	SW8270E	4.0 U	ug/L	4.0	10	4.0 U
LPLBF-WW-L01-011122	4-Chloroaniline	SW8270E	4.9 U	ug/L	4.9	10	4.9 U
LPLBF-WW-L01-011122	4-Chlorophenyl phenyl ether	SW8270E	3.0 U	ug/L	3.0	10	3.0 U
LPLBF-WW-L01-011122	4-Methylphenol	SW8270E	490	ug/L	67	200	490 J+

LPLBF-WW-L01-011122	4-Nitroaniline	SW8270E	5.1 U	ug/L	5.1	25	5.1 U
LPLBF-WW-L01-011122	4-Nitrophenol	SW8270E	5.8 U	ug/L	5.8	25	5.8 U
LPLBF-WW-L01-011122	Acenaphthene	SW8270E	2.5 U	ug/L	2.5	10	2.5 U
LPLBF-WW-L01-011122	Acenaphthylene	SW8270E	5.9 J	ug/L	2.7	10	5.9 J
LPLBF-WW-L01-011122	Acetophenone	SW8270E	100	ug/L	4.0	10	100
LPLBF-WW-L01-011122	Anthracene	SW8270E	2.9 U	ug/L	2.9	10	2.9 U
LPLBF-WW-L01-011122	Atrazine	SW8270E	5.8 U	ug/L	5.8	10	5.8 U
LPLBF-WW-L01-011122	Benz(a)anthracene	SW8270E	2.8 U	ug/L	2.8	10	2.8 U
LPLBF-WW-L01-011122	Benzaldehyde	SW8270E	6.8 U	ug/L	6.8	10	6.8 U
LPLBF-WW-L01-011122	Benzo(a)pyrene	SW8270E	3.5 U	ug/L	3.5	10	3.5 U
LPLBF-WW-L01-011122	Benzo(b)fluoranthene	SW8270E	3.8 U	ug/L	3.8	10	3.8 U
LPLBF-WW-L01-011122	Benzo(g,h,i)perylene	SW8270E	4.2 U	ug/L	4.2	10	4.2 U
LPLBF-WW-L01-011122	Benzo(k)fluoranthene	SW8270E	3.6 U	ug/L	3.6	10	3.6 U
LPLBF-WW-L01-011122	Bis(2-chloroethoxy)methane	SW8270E	2.6 U	ug/L	2.6	10	2.6 U
LPLBF-WW-L01-011122	Bis(2-chloroethyl)ether	SW8270E	2.4 U	ug/L	2.4	10	2.4 U
LPLBF-WW-L01-011122	Bis(2-chloroisopropyl)ether	SW8270E	3.0 U	ug/L	3.0	10	3.0 U
LPLBF-WW-L01-011122	Bis(2-ethylhexyl)phthalate	SW8270E	11	ug/L	4.4	10	11
LPLBF-WW-L01-011122	Butyl benzyl phthalate	SW8270E	3.4 U	ug/L	3.4	10	3.4 U
LPLBF-WW-L01-011122	Caprolactam	SW8270E	72	ug/L	5.0	10	72
LPLBF-WW-L01-011122	Carbazole	SW8270E	3.3 U	ug/L	3.3	10	3.3 U
LPLBF-WW-L01-011122	Chrysene	SW8270E	2.7 U	ug/L	2.7	10	2.7 U
LPLBF-WW-L01-011122	Di-n-butyl phthalate	SW8270E	3.3 U	ug/L	3.3	10	3.3 U
LPLBF-WW-L01-011122	Di-n-octyl phthalate	SW8270E	9.3 U	ug/L	9.3	10	9.3 U
LPLBF-WW-L01-011122	Dibenz(a,h)anthracene	SW8270E	4.5 U	ug/L	4.5	10	4.5 U
LPLBF-WW-L01-011122	Dibenzofuran	SW8270E	2.7 U	ug/L	2.7	10	2.7 U
LPLBF-WW-L01-011122	Diethyl phthalate	SW8270E	3.3 U	ug/L	3.3	10	3.3 U
LPLBF-WW-L01-011122	Dimethyl phthalate	SW8270E	2.8 U	ug/L	2.8	10	2.8 U
LPLBF-WW-L01-011122	Fluoranthene	SW8270E	3.0 U	ug/L	3.0	10	3.0 U
LPLBF-WW-L01-011122	Fluorene	SW8270E	3.1 J	ug/L	2.7	10	3.1 J
LPLBF-WW-L01-011122	Hexachlorobenzene	SW8270E	3.9 U	ug/L	3.9	10	3.9 U
LPLBF-WW-L01-011122	Hexachlorobutadiene	SW8270E	4.2 U	ug/L	4.2	10	4.2 U
LPLBF-WW-L01-011122	Hexachlorocyclopentadiene	SW8270E	8.4 U	ug/L	8.4	10	8.4 U
LPLBF-WW-L01-011122	Hexachloroethane	SW8270E	3.1 U	ug/L	3.1	10	3.1 U
LPLBF-WW-L01-011122	Indeno(1,2,3-cd)pyrene	SW8270E	4.2 U	ug/L	4.2	10	4.2 U
LPLBF-WW-L01-011122	Isophorone	SW8270E	3.5 U	ug/L	3.5	10	3.5 U
LPLBF-WW-L01-011122	N-Nitrosodi-n-propylamine	SW8270E	2.5 U	ug/L	2.5	10	2.5 U

LAKES PARKWAY LITHIUM BATTERY FIRE
WASTE WATER ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES, INC. REPORT NO. 2201A78

LPLBF-WW-L01-011122	N-Nitrosodiphenylamine	SW8270E	2.4	U	ug/L	2.4	10	2.4 U
LPLBF-WW-L01-011122	Naphthalene	SW8270E	41		ug/L	2.1	10	41
LPLBF-WW-L01-011122	Nitrobenzene	SW8270E	2.5	U	ug/L	2.5	10	2.5 U
LPLBF-WW-L01-011122	Pentachlorophenol	SW8270E	6.4	U	ug/L	6.4	25	6.4 U
LPLBF-WW-L01-011122	Phenanthrene	SW8270E	4.5	J	ug/L	2.9	10	4.5 J
LPLBF-WW-L01-011122	Phenol	SW8270E	3200		ug/L	57	200	3200 J+
LPLBF-WW-L01-011122	Pyrene	SW8270E	2.9	U	ug/L	2.9	10	2.9 U
LPLBF-WW-L01-011122	Arsenic	SW6010D	0.0098	U	mg/L	0.0098	0.0500	0.0098 U
LPLBF-WW-L01-011122	Barium	SW6010D	0.615		mg/L	0.0048	0.0200	0.615
LPLBF-WW-L01-011122	Cadmium	SW6010D	0.0035	J	mg/L	0.0016	0.0050	0.0035 J
LPLBF-WW-L01-011122	Chromium	SW6010D	0.304		mg/L	0.0067	0.0100	0.304
LPLBF-WW-L01-011122	Lead	SW6010D	0.145		mg/L	0.0039	0.0100	0.145
LPLBF-WW-L01-011122	Selenium	SW6010D	0.0089	U	mg/L	0.0089	0.0200	0.0089 U
LPLBF-WW-L01-011122	Silver	SW6010D	0.0423		mg/L	0.0018	0.0100	0.0423
LPLBF-WW-L01-011122	Mercury	SW7470A	0.00150	U	mg/L	0.00150	0.00160	0.00150 U
LPLBF-WW-L01-011122	Residue, Suspended (TSS)	SM2540D	737		mg/L	6.7	33.3	737
LPLBF-WW-L01-011122	Residue, Total (TS)	SM2540B	0.710		wt%	0.00100	0.00100	0.710
LPLBF-WW-L01-011122	pH	SM4500H+B	10.7	H	pH Units	0.0100	0.0100	10.7 J
LPLBF-WW-L01-011122	Sulfide, Reactive	SW7.3.4.2	100	U	mg/Kg	100	100	100 U
LPLBF-WW-L01-011122	Cyanide, Reactive	SW7.3.3.2	1.00	U	mg/Kg	1.00	1.00	1.00 U
LPLBF-WW-L01-011122	Chloride	SW9056A	2600		mg/L	22	50	2600
LPLBF-WW-L01-011122	Fluoride	SW9056A	90		mg/L	1.3	2.0	90
LPLBF-WW-L01-011122	Ignitability	SW1010	180	>	F	0	0	180 >

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 4 START CONTRACT

Site Name	Lakes Parkway Lithium Battery Fire		**TO/TOLIN No.**	0082-035
Data Reviewer (signature and date)	3/11/2022		**Technical Reviewer (signature and date)**	15 March 2022
Laboratory Report No.	2202V46		**Laboratory**	Analytical Environmental Services, Inc. / Atlanta, Georgia
Analyses	TCLP Metals (including mercury) by EPA SW-846 methods 1311/ 6010D and 1311/7470A; TCLP semivolatile organic compounds (SVOC) by EPA SW-846 methods 1311/8270E; TCLP volatile organic compounds (VOC) by EPA SW-846 methods 1311/8260D			
Samples and Matrix	One sludge sample (LPLBF-SL-L01-022522)			
Collection Date(s)	2/25/2022			
Field Duplicate Pairs	None			
Field QC Blanks	None			

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 4, Revision 2* (February 2021), the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of data was required for this data package. The data can be used with the qualifications indicated in this checklist.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	
N	All sample containers were received intact and with proper chain-of-custody (COC) documentation. Cooler temperature and sample preservation were verified upon receipt of the samples and are acceptable. No custody seals were present on sample or shipping containers, but no qualifications were applied for this oversight.

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
Y	

MS/MSDs:

Within Criteria	Exceedance/Notes
NA	MS/MSDs performed on samples from other data packages were not evaluated.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	Laboratory duplicates performed on samples from other data packages were not evaluated.

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	VOC results are reported from a 20x dilution. The report does not explain why the VOCs were analyzed at a 20x dilution. All results are ND.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Detections between the MDL and RL were reported and qualified as estimated (flagged J) by the laboratory. VOC reporting limits are elevated due to sample dilution.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [none]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

LAKES PARKWAY LITHIUM BATTERY FIRE
SLUDGE ANALYTICAL RESULTS SUMMARY
ANALYTICAL ENVIRONMENTAL SERVICES, INC. REPORT NO. 2202V46

Sample ID	Analyte	METHOD	Lab Result	Lab Qual	Units	MDL	RL	Val Result	Val Qual
LPLBF-SL-L01-022522	1,1-Dichloroethene	SW1311/8260D	0.0064	U	mg/L	0.0064	0.1	0.0064	U
LPLBF-SL-L01-022522	1,2-Dichloroethane	SW1311/8260D	0.0038	U	mg/L	0.0038	0.10	0.0038	U
LPLBF-SL-L01-022522	2-Butanone	SW1311/8260D	0.10	U	mg/L	0.10	0.20	0.10	U
LPLBF-SL-L01-022522	Benzene	SW1311/8260D	0.0048	U	mg/L	0.0048	0.10	0.0048	U
LPLBF-SL-L01-022522	Carbon tetrachloride	SW1311/8260D	0.0055	U	mg/L	0.0055	0.10	0.0055	U
LPLBF-SL-L01-022522	Chlorobenzene	SW1311/8260D	0.0094	U	mg/L	0.0094	0.10	0.0094	U
LPLBF-SL-L01-022522	Chloroform	SW1311/8260D	0.0046	U	mg/L	0.0046	0.10	0.0046	U
LPLBF-SL-L01-022522	Tetrachloroethene	SW1311/8260D	0.0059	U	mg/L	0.0059	0.10	0.0059	U
LPLBF-SL-L01-022522	Trichloroethene	SW1311/8260D	0.0042	U	mg/L	0.0042	0.10	0.0042	U
LPLBF-SL-L01-022522	Vinyl chloride	SW1311/8260D	0.0088	U	mg/L	0.0088	0.040	0.0088	U
LPLBF-SL-L01-022522	1,4-Dichlorobenzene	SW1311/8270E	0.014	U	mg/L	0.014	0.10	0.014	U
LPLBF-SL-L01-022522	2,4,5-Trichlorophenol	SW1311/8270E	0.0099	U	mg/L	0.0099	0.10	0.0099	U
LPLBF-SL-L01-022522	2,4,6-Trichlorophenol	SW1311/8270E	0.013	U	mg/L	0.013	0.10	0.013	U
LPLBF-SL-L01-022522	2,4-Dinitrotoluene	SW1311/8270E	0.011	U	mg/L	0.011	0.10	0.011	U
LPLBF-SL-L01-022522	Cresols, Total	SW1311/8270E	0.018	U	mg/L	0.018	0.10	0.018	U
LPLBF-SL-L01-022522	Hexachlorobenzene	SW1311/8270E	0.011	U	mg/L	0.011	0.10	0.011	U
LPLBF-SL-L01-022522	Hexachlorobutadiene	SW1311/8270E	0.012	U	mg/L	0.012	0.10	0.012	U
LPLBF-SL-L01-022522	Hexachloroethane	SW1311/8270E	0.013	U	mg/L	0.013	0.10	0.013	U
LPLBF-SL-L01-022522	m,p-Cresol	SW1311/8270E	0.016	J	mg/L	0.011	0.10	0.016	J
LPLBF-SL-L01-022522	Nitrobenzene	SW1311/8270E	0.012	U	mg/L	0.012	0.10	0.012	U
LPLBF-SL-L01-022522	o-Cresol	SW1311/8270E	0.0074	U	mg/L	0.0074	0.10	0.0074	U
LPLBF-SL-L01-022522	Pentachlorophenol	SW1311/8270E	0.0062	U	mg/L	0.0062	0.50	0.0062	U
LPLBF-SL-L01-022522	Pyridine	SW1311/8270E	0.022	U	mg/L	0.022	0.10	0.022	U
LPLBF-SL-L01-022522	Mercury	SW1311/7470A	0.000480	U	mg/L	0.000480	0.00400	0.000480	U
LPLBF-SL-L01-022522	Arsenic	SW1311/6010D	0.0488	U	mg/L	0.0488	0.250	0.0488	U
LPLBF-SL-L01-022522	Barium	SW1311/6010D	2.10		mg/L	0.0260	0.500	2.10	
LPLBF-SL-L01-022522	Cadmium	SW1311/6010D	0.00580	U	mg/L	0.00580	0.0250	0.00580	U
LPLBF-SL-L01-022522	Chromium	SW1311/6010D	0.0356	J	mg/L	0.0176	0.0500	0.0356	J
LPLBF-SL-L01-022522	Lead	SW1311/6010D	0.266		mg/L	0.0223	0.0500	0.266	
LPLBF-SL-L01-022522	Selenium	SW1311/6010D	0.0625	U	mg/L	0.0625	0.150	0.0625	U
LPLBF-SL-L01-022522	Silver	SW1311/6010D	0.00345	J	mg/L	0.00304	0.0250	0.00345	J

ATTACHMENT 1

NATIONAL RESPONSE CENTER REPORT #1324174

(Two Pages)

NATIONAL RESPONSE CENTER 1-800-424-8802
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
Information released to a third party shall comply with any
applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1324174

INCIDENT DESCRIPTION

*Report taken by NRC on 09-DEC-21 at 23:17 ET.
Incident Type: FIXED
Incident Cause: OTHER
Affected Area:
Incident occurred on 09-DEC-21 at 21:11 local incident time.
Affected Medium: WATER / STORM DRAIN

REPORTING PARTY

Name: ADAN SMITH
Organization: GWINNETT COUNTY
Address:
, GA
Email Address:

PRIMARY Phone: (706)2968986
Type of Organization: STATE GOVERNMENT

SUSPECTED RESPONSIBLE PARTY

Name: KIM YOUNG
Organization:
Address: 1665 LAKES PARKWAY
LAWRENCEVILLE, GA
PRIMARY Phone: (678)2942707
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

1665 LAKES PARKWAY County: GWINNETT
City: LAWRENCEVILLE State: GA

RELEASED MATERIAL(S)

CHRIS Code: LTM Official Material Name: LITHIUM
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER REPORTED A FIRE STARTED AT THE LOCATION AND AS A RESULT THERE WAS A RELEASE OF MATERIALS FROM SOME LITHUM ION BATTERIES.

INCIDENT DETAILS

Package: N/A
Building ID:
Type of Fixed Object: OTHER
Power Generating Facility: UNKNOWN
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

IMPACT

Fire Involved: NO Fire Extinguished: UNKNOWN
INJURIES: NO Sent to Hospital: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Closure Type		Description of Closure	Hours Closed	Direction of Closure
Air:	NO			
Road:	NO			
Waterway:	NO			
Track:	NO			

Major Artery: NO

Passengers Transferred: NO
Environmental Impact: UNKNOWN
Media Interest: UNKNOWN

REMEDIAL ACTIONS

CLEAN UP UNDERWAY

Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: PARTLY CLOUDY, ◆F

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)
09-DEC-21 23:23 (770)4887100
ASST COMDT FOR INTELLIGENCE (CG-2) (OFFICE OF INTELLIGENCE PLANS AND POLICY (CG
09-DEC-21 23:23 (202)3722886
DEPT OF HEALTH AND HUMAN SERVICES (SECRETARY OPERATION CENTER (SOC))
09-DEC-21 23:23
CUSTOMS AND BORDER PROTECTION (GEORGIA COMMAND CENTER)
09-DEC-21 23:23 (912)7214840
CUSTOMS AND BORDER PROTECTION (GEORGIA COMMAND CENTER CON'T)
09-DEC-21 23:23 (912)7214840
DHS SOUTH CAROLINA FUSION CENTER (LE SENSITIVE ADVISORS & LIASON PROGRAM)
09-DEC-21 23:23 (866)4728477
DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
09-DEC-21 23:23 (202)3661863
DOT OFFICE OF INSPECTOR GENERAL (ATLANTA, JRI-3)
09-DEC-21 23:23 (202)3660339
U.S. EPA IV (MAIN OFFICE)
09-DEC-21 23:25 (404)6504955 R4 DUTY PAGER
CISA CENTRAL (MAIN OFFICE)
09-DEC-21 23:23 (202)2829201
NOAA RPTS FOR GA (MAIN OFFICE)
09-DEC-21 23:23 (206)5264911
PIPELINE & HAZMAT SAFETY ADMIN (HAZARDOUS MATERIAL ACCIDENT INVESTIGATION)
09-DEC-21 23:23 (202)3664031
GEORGIA EMERGENCY MNGMT AGENCY (MAIN OFFICE)
09-DEC-21 23:23 (404)6357200
TSA OFFICE OF SECURITY OPERATIONS (SURFACE COMPLIANCE BRANCH SE REGION)
09-DEC-21 23:23 (904)9804075
TENNESSEE VALLEY AUTHORITY (POLICE AND EMERGENCY MANAGEMENT)
09-DEC-21 23:23 (931)2019665
USCG DISTRICT 7 (MAIN OFFICE)
09-DEC-21 23:23 (305)4156800
USCG DISTRICT 7 (PREVENTION DEPT)
09-DEC-21 23:23 (305)4156838
USCG DISTRICT 7 (INCIDENT MANAGEMENT ADVISOR)
09-DEC-21 23:23 (305)4156838

ADDITIONAL INFORMATION

*** END INCIDENT REPORT # 1324174 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://nrc.uscg.mil

ATTACHMENT 2

LABORATORY ANALYTICAL DATA PACKAGES

(1,991 Pages)