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PHASE II ENVIRONMENTAL ASSESSMENT REPORT

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CONTENTS

		Page
1.	**INTRODUCTION**	**1**
1.1	Objectives	1
1.2	Report Contents	1
2.	**BACKGROUND**	**2**
2.1	Site Location	2
2.2	Site History	2
2.3	Regional and Local Geology and Hydrogeology	2
2.4	Previous Environmental Site Assessments	3
3.	**SITE INVESTIGATION ACTIVITIES**	**5**
3.1	Pre-Field Activities and Mobilization	5
3.2	Soil and Soil Vapor Investigation	5
3.3	Monitoring Well Installation	6
3.3.1	MW-1, MW-2, and MW-3	6
3.3.2	MW-4	7
3.4	Monitoring Well Development	8
3.5	Monitoring Well Sampling	8
3.6	Surveying and Investigation Derived Waste Management	8
4.	**SITE INVESTIGATION RESULTS**	**10**
4.1	Field Observations	10
4.2	Soil Analytical Results	10
4.2.1	Volatile Organic Compounds	11
4.2.2	1,4-Dioxane	11
4.2.3	Metals	11
4.3	Soil Vapor Analytical Results	11
4.4	Groundwater Results	12
4.4.1	Groundwater Elevation	12
4.4.2	Groundwater Analytical Results	12
4.4.2.1	Volatile Organic Compounds	12
4.4.2.2	1,4-Dioxane	13
4.4.2.3	Hexavalent Chromium	13
5.	**CONCLUSIONS**	**14**
5.1	Conclusions	14
6.	**NO FURTHER ACTION REQUEST**	**15**
7.	**REFERENCES**	**16**

CONTENTS *(Continued)*

TABLES

Table 1: Sampling Summary
Table 2: Monitoring Well Construction Details and Groundwater Elevations
Table 3: Summary of VOCs and 1,4-Dioxane in Soil
Table 4: Summary of Metals in Soil
Table 5: Summary of Soil Vapor Sampling Results
Table 6: Summary of Groundwater Sampling Results

FIGURES

Figure 1: Site Location Map
Figure 2A: Historical/Current Floor Plan and Boring Locations
Figure 2B: Boring Locations
Figure 3: Soil Vapor Results
Figure 4: Groundwater Elevations
Figure 5: Groundwater Results

APPENDICES

Appendix A: Well Boring/Construction Logs and Well and Boring Permits
Appendix B: Well Development Logs
Appendix C: Groundwater Purge and Sample Logs
Appendix D: Laboratory Analytical Reports and Chain-of-Custody Documentation

ACRONYMS AND ABBREVIATIONS

ABC	ABC Liovin Drilling, Inc.
AST	Aboveground Storage Tank
Avocet	Avocet Environmental, Inc.
bgs	below ground surface
BDCM	bromodichloromethane
Blaine Tech	Blaine Technical Services, Inc.
cis-1,2-DCE	cis-1,2-dichloroethene
COPCs	chemicals of potential concern
DBCM	dibromochloromethane
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
DOT	Department of Transportation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
ESIS	Hygienetics Environmental Services, Inc./ESIS, Inc.
ft/ft	foot per foot
HASP	Health and Safety Plan
HERO Note 3 SLs	DTSC Human and Ecological Risk Office Note 3 screening levels
HSA	Hollow-Stem Auger Drill Rig
IDW	investigation derived waste
Jones	Jones Environmental, Inc.
L3Harris	L3Harris Technologies, Inc.
L3	L3 Technologies, Inc.
LACFD	Los Angeles County Fire Department
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
µg/L	micrograms per liter
µg/kg	micrograms per kilogram
MCLs	California Maximum Contaminant Levels for drinking water
MSL	mean sea level
NTUs	nephelometric turbidity units

ACRONYMS AND ABBREVIATIONS *(Continued)*

PCE	tetrachloroethene
Phase I ESA	Phase I Environmental Site Assessment
ppmv	parts per million by volume
PID	photoionization detector
PVC	polyvinyl chloride
Ramboll	Ramboll US Corporation
REC	Recognized Environmental Condition
RSLs	Regional Screening Levels
SFRWQCB	California Regional Water Quality Control Board, San Francisco Region
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	underground storage tank
VOCs	volatile organic compounds

1. INTRODUCTION

Ramboll US Corporation (Ramboll) was retained by L3Harris Technologies, Inc. (L3Harris), on behalf of itself and its subsidiary, L3 Technologies, Inc. (L3) to conduct a Screening Level Phase II Environmental Assessment (Assessment) for the L3 property located at 15825 Roxford Street in Sylmar, California (the "site"). This report documents the findings of the Assessment, which was conducted over the period of October 7, 2019 to November 21, 2019.

1.1 Objectives

The Assessment was requested by L3Harris to evaluate recognized environmental conditions (RECs) identified in previous Phase I Environmental Assessments (Phase I ESAs; ESIS, March 26, 2008 and June 22, 2012) conducted at the site, which were provided by L3Harris. In addition to evaluation of the specific RECs, L3Harris also requested that Ramboll install a series of groundwater monitoring wells to evaluate groundwater conditions at the site.

Ramboll developed a multi-media approach to conduct an initial screening of the site to meet the following objectives:

- Evaluate whether historical and/or current operations at the site, based on RECs from previous Phase I ESAs, have impacted soil, soil vapor, and groundwater underlying the site; and
- Establish a groundwater monitoring well network in first encountered groundwater to evaluate groundwater quality, flow direction, and gradient.

1.2 Report Contents

Section 2 describes the site background. Field investigation activities and methods are described in Section 3. The findings from the investigation activities are included in Section 4, conclusions in Section 5, and request for no further action in Section 6. References are included in Section 7.

2. BACKGROUND

The site is located at 15825 Roxford Street in Sylmar, California and includes approximately 25.34 acres (see Figures 1 and 2B). Prior to its acquisition by L3, it was initially developed as an electronics manufacturing plant in 1962 by a third party, The Bendix Corporation ("Bendix"). Since approximately 1998, L3 operated an engineering and testing facility. The site is developed with approximately seven buildings, three of which are connected. Products for the aerospace and defense industries are manufactured and tested at the facility, which includes sonar, engineering, and hydro space testing facilities, a main building, warehouse building, hazardous waste covered storage area, cafeteria, and offices.

2.1 Site Location

The site is located on the north side of Roxford Street and west of Telfair Ave within a commercial/industrial region of Los Angeles County. The nearest residences are located to the southeast of the site and across Roxford Street to the south. California Department of Transportation operates a facility along the northwestern boundary of the site. A commercial building complex is located immediately to the south of the site. The I-5 Freeway and Van Norman Reservoir is located to the west.

2.2 Site History

Prior to development, the site was used for agriculture dating as far back as 1928. By 1962, the site had been developed as a Bendix electronics plant, featuring a main manufacturing building and sonar building. Bendix manufactured hydraulic components and systems, primarily for the military. In 1962, Bendix installed a large pool in which to conduct sonar tests, and in 1966, a warehouse was built to the east of the main manufacturing building. Between 1976 and 1980, the main manufacturing building, sonar building, and warehouse were expanded, and a cafeteria and patio were added between the main and sonar buildings. In addition, a roofed loading dock and shipping/receiving rooms were built between the main and warehouse buildings, connecting the three structures. By 1980, the hazardous materials covered storage area had been built east of the warehouse and by 1982, the Environmental Test Facility was built to the north of the warehouse.

The site was owned by individuals until it was purchased by Bendix in 1960. Sometime on or before July 11, 1985, Allied Corporation merged with Bendix and, as successor, continued operating the site as an aerospace, automotive, and engineering facility. The Hydro Space Test Facility had been constructed to the north of the Environmental Test Facility by 1986. Sometime on or before August 29, 1988, Allied Corporation merged with and into Allied-Signal, Inc. The site was reportedly transferred to L3 Communications Corporation (now known as L3 Technologies, Inc.) in April 1998 when AlliedSignal merged with Honeywell, Inc.

2.3 Regional and Local Geology and Hydrogeology

The site lies within the San Fernando Valley Groundwater Basin, which covers an area of approximately 226 square miles in Los Angeles County (DWR, 2004). Within the San Fernando Valley Groundwater Basin, the site lies in the Sylmar Sub-basin, located in the northern portion of the San Fernando Valley Groundwater Basin and bound on the north by the San Gabriel Mountains, on the southwest by Mission Hills, on the east by the exposed Saugus Formation of upper Lopez Canyon, and on the south by the eroded south limb of the Little Tujunga syncline (USGS, 1985). Throughout the San Fernando Valley Groundwater Basin, shallow groundwater occurs in Holocene and Pleistocene aged alluvium and in the

lower Pleistocene Saugus Formation. The alluvium is characterized by coarse sand and gravel deposited by coalescing alluvial fans from the surrounding mountains, whereas the Saugus Formation consists of conglomerates, sand, silt, and clay. The groundwater in the San Fernando Valley Groundwater Basin is mainly unconfined with some confinement within the Saugus Formation in the western part of the basin and in the Sylmar and Eagle Rock areas. (DWR, 2004).

During site investigation activities, Ramboll observed predominantly sandy silt, silty sand, sand, and sand with gravel to the maximum depth drilled of approximately 90 feet below ground surface (bgs). The lithology varied between boring locations, with finer grained sandy silt and silty sand observed during the drilling of Monitoring Wells MW-1 and MW-4, and predominantly coarser grained silty sand, sand, and sand with gravel observed during the drilling of MW-2 and MW-3. Groundwater was first encountered at depths ranging from approximately 52 to 63 feet bgs during the drilling of MW-1, MW-2, and MW-3; however, the groundwater level in MW-1 rose to a depth of 37 feet bgs after well construction and development. Groundwater was not encountered at proposed MW-4, which was drilled to a total depth of 90 feet bgs (see Section 3.3). Based on groundwater elevation data obtained from MW-1 to MW-3, groundwater flow is to the east at an approximate gradient of 0.08 (foot per foot (ft/ft); 422 feet/mile).

2.4 Previous Environmental Site Assessments

To Ramboll's knowledge, subsurface investigations have not previously been conducted at the site, with the exception of some soil sampling conducted with the abandonment of underground storage tanks (USTs), detailed below. Ramboll reviewed four environmental documents prepared for the site and provided by L3Harris:

- *Phase I Environmental Site Assessment, 15825 Roxford Street, Sylmar, CA*, prepared by CH2M Hill, dated December 1997 (the "1997 Phase I ESA report");
- *Amended Phase I Environmental Site Assessment Report, L-3 Ocean Systems*, prepared by Hygienetics Environmental Services, Inc./ESIS, Inc. (ESIS) and dated March 26, 2008;
- *Phase I Environmental Site Assessment Report, L-3 Ocean Systems*, prepared by ESIS and dated June 22, 2012; and
- *Environmental Summary, L3 Communications Ocean Systems*, prepared by Avocent Environmental, Inc. (Avocet) and dated August 13, 2018.

The three Phase I ESAs identified the following RECs for the site (see Figure 2A):

- One 500-gallon, metal aboveground storage tank (AST)(Tank #1) located near the northwest of the hazardous materials storage shed, containing Rho-Chem 5120, installed in May 1983.
- One 760-gallon, fiberglass liner contained inside concrete UST (Tank #2) located south of the hazardous materials storage shed, formerly containing neutralized plating wastes, installed in November 1982. The UST was removed in November 1983, but no regulatory involvement appears to have been involved in the closure. In a June 12, 1996 letter from the LARWQCB entitled *Underground Storage Tank Case Closure – Allied Bendix facility, 15825 Roxford Street, Sylmar, CA 91342 (Case #913420570)*, the LARWQCB indicated it did not consider this feature to be a UST.

- One 4,000-gallon, fiberglass UST (Tank #4) located in the northwestern corner of the Main Building, formerly containing a petroleum distillate solvent (Shell-Sol 71), installed in December 1976. The UST was removed in 1986. The LARWQCB oversaw closure activities and granted No Further Action (NFA) status after no petroleum solvents were reportedly detected in soil beneath the UST.
- One 576-gallon metal UST located at the loading dock (other sections in ESIS' report describe the tank as 500 gallons) (Tank #5), formerly containing diesel fuel, and installed in 1962. ESIS reviewed a February 17, 1994 report entitled *Results of Subsurface Investigation for Underground Storage Tank Abandonment Purposes* and a July 18, 1995 report entitled *In-place Abandonment of Diesel Underground Storage Tank,* both prepared by Leighton and Associates (Ramboll was not provided a copy of these prior reports). Based on the summaries provided, a soil boring was advanced in December 1993 to approximately 11 feet bgs (a concrete pad was encountered at approximately 12 feet bgs) on the south side of the UST (presumed downgradient). The soil sample was analyzed for TPH by USEPA Method 8015 and for BTEX by USEPA Method 8020. The only constituents detected above laboratory reporting limits were TPH (carbon chain range of C14 to C25) at a concentration of 230 milligrams per kilogram (mg/kg) and total xylenes at a concentration of 4 micrograms per kilogram (µg/kg). The UST was filled with "*1.0 sack tank fill*" in accordance with Los Angeles Fire Department (LAFD) specifications in April 1995. The case was closed in a June 12, 1996 NFA letter from the LARWQCB entitled *Underground Storage Tank Case Closure – Allied Bendix facility, 15825 Roxford Street, Sylmar, CA 91342 (Case #913420570)*.
- Clarifier #1 was observed between the two cooling towers; it was described as a 1,000-gallon, concrete clarifier installed in 1961 that received cooling tower bleed-off and was connected to the industrial sewer.
- Clarifier #2 was described as a 1,000-gallon concrete clarifier installed in 1961 and receiving PC Board washing waste and connecting to the industrial sewer. The clarifier was reportedly still being used in 1996.
- A three-stage underground clarifier (Clarifier #3) associated with the former Alodine process line that's located on the southeastern side of the Warehouse Building. ESES considered this a REC due to the age of the clarifier (in use circa 1974 to the mid-1980s), and the possibility of associated caustic materials and chromium usage.
- Clarifier #4 was described as a 1,000-gallon concrete clarifier installed in 1961 and receiving pool filter water and connecting to the industrial sewer. The clarifier was reportedly still being used in 1996.

Based on the findings of the Phase I ESAs, ESIS recommended additional record searches and subsurface assessment at the site to investigate the features identified as RECs. Ramboll used the findings of the Phase I ESAs and the additional site details provided in the Environmental Summary provided by Avocet to develop the scope of work for the Assessment described in the subsequent sections of this report.

3. SITE INVESTIGATION ACTIVITIES

Ramboll conducted its Assessment over the period of October 7, 2019 to November 21, 2019 to meet the objectives stated in Section 1.1. All drilling activities were conducted under the direct supervision of a California-registered Professional Geologist. Ramboll completed the following three tasks to implement the scope of work: 1) pre-field activities and mobilization; 2) soil and soil vapor investigation; and 3) monitoring well installation, development, and sampling.

3.1 Pre-Field Activities and Mobilization

On October 7, 2019, Ramboll performed a site walk with appropriate site and other L3Harris personnel to evaluate accessibility to the proposed boring locations and adjust the locations, as necessary, along with evaluation of any other historical and/or current site operation areas of interest based on L3 staff knowledge.

After the locations were finalized, Ramboll notified USA Dig Alert at least 48 hours prior to the start of work regarding the proposed boring locations. Additionally, Ramboll retained a private utility locator, SubSurface Surveys of Carlsbad, California, to conduct a geophysical survey to mark subsurface utility lines, which was completed on November 4, 2019. Ramboll obtained permits for the installation of borings and monitoring wells from the Los Angeles County – Department of Health Services. Permits are included as Appendix A.

Ramboll developed a site-specific health and safety plan (HASP) prior to the initiation of fieldwork.

3.2 Soil and Soil Vapor Investigation

Ramboll contracted with a California-licensed drilling company, ABC Liovin Drilling, Inc. (ABC) of Signal Hill, California, to conduct drilling activities. Over the period of November 7 to 8, 2019, 16 borings were advanced with a direct-push drill rig at the locations on-Site shown on Figures 2A and 2B. Twenty-one soil samples and eleven soil vapor samples were collected from the borings. In addition, five soil samples were collected during the advancement of borings for MW-2 and MW-4 using hollow-stem auger (HSA) drilling technology (see Section 3.3) on November 5 and 6, 2019. A summary of the sampling program is provided in Table 1.

Prior to drilling, all tools including the drill rig were decontaminated by pressure washing to minimize introducing foreign contaminants into the drilling process. In addition, any non-dedicated tools and equipment were decontaminated between sample collections using a triple-rinse system, or equivalent. All borings were hand augered to approximately five to eight feet bgs and subsequently advanced with a direct-push rig or HSA rig. Soil borings were advanced to an approximate depth of 20 feet bgs at all locations with the exception of Boring SB-3 in the patio area. The direct-push drill rig was unable to access this location; therefore, the boring was advanced to 5 feet using a hand auger. During advancement of the borings, soil was monitored for organic vapors with a photoionization detector (PID) calibrated with a 10.6 electron volt lamp.

Soil borings SB-1 through SB-6 were advanced in six locations in the vicinity of Tank #1, Tank #4, Clarifier #2, Clarifier #1, the Hazardous Material Area, and Clarifier #3, respectively. Soil samples were collected as part of this investigation from Borings SB-1, SB-2, SB-4 through SB-6, and during the drilling of MW-2 at approximate depths of 5, 10, 15,

and 20 feet bgs. Soil samples were also collected from Boring SB-3 and during the drilling of MW-4 at a depth of approximately 5 feet bgs. Soil samples collected from depths of 5, 10 and 15-feet bgs were selectively analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B, Title 22 Metals by USEPA Methods 6010B and 7471A, hexavalent chromium by USEPA Method 7196, and 1,4-dioxane by USEPA Method 8270 (see Table 1). The 20-feet bgs soil samples were generally archived at the laboratory pending possible analysis based on results of the shallower soil samples. In accordance with USEPA Method 5035, each soil sample to be analyzed for VOCs was collected by extracting three five-gram aliquots from the designated sampling sleeve using a single-use Terra Core™ T-handle device. Each aliquot was placed in a sealable envelope, stored in a chilled cooler, and delivered to Jones Environmental, Inc (Jones), a California state-certified laboratory, under chain-of-custody procedures. For other analyses, soil samples were collected in stainless steel sleeves, acetate sleeves, or jars. Each soil sample was labeled with a unique sample number, the sample time and date, and placed in an ice-filled cooler for transportation under chain-of-custody procedures to Jones.

Soil Vapor Probes SV-1 to SV-9 and SV-11 were installed at locations across the site as shown on Figures 2A and 2B. Where soil borings were co-located with soil vapor sample locations, a separate boring was advanced adjacent to the soil boring to install the soil vapor probe. A soil vapor probe was attempted at location SV-10 inside the facility but refusal, believed to be a second concrete slab, was encountered at approximately 2 feet bgs, and the location was abandoned. Soil vapor probes were installed at a depth of approximately 5 feet bgs at all probe locations.

In order to minimize disruption of airflow, each 6-inch stainless steel probe was connected to Teflon® tubing and installed within 1.5 feet of sand pack with one foot of dry granular bentonite atop the sand pack. The remaining annular space was filled with hydrated bentonite to approximately 6 inches bgs, and the probes were completed with permanent well boxes secured with concrete and installed flush with ground surface. The tubing was equipped with a 3-way valve that was kept within the permanent well boxes just below ground surface.

Soil vapor sampling was conducted in accordance with guidelines established by the California Department of Toxic Substances Control (DTSC), the California Regional Water Quality Control Board – Los Angeles Region (LARWQCB), and the San Francisco Regional Water Quality Control Board (SFRWQCB), in *Advisory – Active Soil Gas Investigations*, dated July 2015. Soil vapor samples were collected and analyzed by Jones in their California State-certified mobile laboratory for analysis of VOCs by USEPA Method 8260B.

N-pentane, n-hexane, and n-heptane were used as leak detection compounds to ensure soil vapor probes were properly sealed during sampling, and a material blank was collected to ensure the tubing used during the investigation was free of contaminants. VOCs were not present above laboratory reporting limits (RLs) in the material blank, and the leak detection compounds were not present in any soil vapor sample. Duplicate samples were collected at a frequency of approximately one per twenty primary samples, resulting in one duplicate.

3.3 Monitoring Well Installation

3.3.1 MW-1, MW-2, and MW-3

As part of this task, MW-1 through MW-3 were installed at the locations shown on Figures 2A and 2B. Each boring was hand augered to approximately five to eight feet bgs prior to

drilling, and then advanced to total depth with an HSA drill rig operated by ABC and equipped with 8-inch diameter augers. Borings were logged in accordance with the Unified Soil Classification System (USCS) at approximate five-foot intervals from approximately 0 to 50 feet bgs and continuously from approximately 50 feet bgs to total depth. Soil was regularly monitored for organic vapors with a PID and visual and olfactory observations were noted in the boring logs. Soil samples were collected at approximately 5, 10, 15, and 20 feet bgs during the drilling of MW-2 and at approximately 5 feet bgs at MW-4 as stated in Section 3.2 and summarized in Table 1.

The borings were advanced into the first groundwater bearing zone, which was encountered at depths ranging from approximately 52 to 63 feet during drilling; however, the groundwater level in MW-1 rose to a depth of 37 feet bgs after well construction and development. The monitoring wells were constructed in general accordance with requirements prescribed in Title 23, California Code of Regulations, Division 3, Chapter 16, and Section 2649. Well construction details are provided in Table 2. Wells were constructed by hanging the well casing at the appropriate depth in the boring through the augers. The augers were withdrawn from the boring as the wells were completed.

Based on Ramboll's observation of water-bearing zone materials during continuous logging, a filter pack of No. 3 sand was chosen and placed in the annulus between the screen and the augers to approximately two feet above the top of the well screen, and a 15-feet screen of 2-inch diameter schedule 40 polyvinyl chloride (PVC) with 0.020-inch perforations was installed. MW-1 was constructed with a screened interval of approximately 48 to 63 feet bgs, MW-2 was screened at approximately 55 to 70 feet bgs, and MW-3 was screened at approximately 60 to 75 feet bgs. A three foot, properly hydrated bentonite seal was emplaced above the sand pack, and the remaining annular space was filled with a 5% bentonite-cement grout. Each of the three monitoring wells were completed at the surface with a flush mount, traffic-rated, tamper-resistant vault box.

Well boring lithologic and construction logs are included in Appendix A.

3.3.2 MW-4

Due to several subsurface utility lines identified in the area of proposed MW-4 and difficulty in reaching eight feet bgs with a hand auger during initial attempts, the boring for MW-4 was advanced using air-vacuum excavation technology to approximately nine feet bgs and then drilled with a HSA rig to total depth. Prior to air-vacuum excavation activities, an additional geophysical survey was conducted to mark subsurface utility lines and find an acceptable location for the installation of MW-4. The location of MW-4 was approximately 25 feet south of the originally planned location due to conflicts with underground utilities. Since MW-4 was the last monitoring well to be installed, and groundwater had been encountered at similar depths in MW-1 to MW-3, MW-4 was drilled to approximately 73 feet bgs with the intent of constructing the well in a similar manner as MW-1 to MW-3. Prior to well installation, the driller and Ramboll field staff noted an apparent absence of groundwater in the borehole. The boring was then advanced to approximately 90 feet bgs and logged continuously from 73 to 90 feet bgs in accordance with the USCS. Groundwater was again not noted in the borehole or in the soil observed from approximately 73 to 90 feet bgs. Ramboll installed a monitoring well in the borehole with a larger, 20-feet long screen, to confirm the absence or presence of groundwater within this depth interval at this location of the site. MW-4 was constructed with the same materials as MW-1 to MW-3, described in Section 3.3.1, and was screened from

approximately 58 to 78 feet bgs. In the weeks following installation, MW-4 was inspected multiple times and was found to be dry.

Well boring lithologic and construction log for MW-4 is included in Appendix A.

3.4 Monitoring Well Development

MW-1 to MW-3 were developed by ABC using a combination of bailing, surging, and pumping techniques.

During development, Ramboll field staff monitored the groundwater for pH, temperature, conductivity, and turbidity. The monitoring wells were considered developed when the water was substantially free of sand and sediment and field measurements stabilized to within 10% for three consecutive readings. Due to limited recharge, MW-1 was unable to reach the turbidity objective of 5 nephelometric turbidity units (NTUs); it was able to achieve turbidity levels of approximately 200 NTUs at the end of development activities. Approximately 24, 23, and 108 gallons were removed from MW-1, MW-2, and MW-3, respectively, during well development. Well development logs are included in Appendix B.

3.5 Monitoring Well Sampling

On November 21, 2019, approximately three days after completion of well development activities, water level data was collected from the monitoring wells and the newly installed groundwater monitoring wells were sampled using low-flow methodology. Water levels were measured at each well from a referenced survey point to the nearest 0.01 foot using an electronic water tape.

Groundwater sampling activities were conducted by Blaine Technical Services, Inc. (Blaine Tech) of Carson, California under the oversight of Ramboll. Ramboll documented the purging activities and collected the samples under standard chain-of custody procedures. Prior to purging each monitoring well, the purging equipment was decontaminated using a non-phosphate detergent, rinsed with tap water, followed by deionized water, and then steam cleaned.

During the purging of the wells, groundwater was monitored for temperature, pH, specific conductance, dissolved oxygen, and turbidity; turbidity readings for Wells MW-1 to MW-3 were less than 160 NTUs during purging (see Appendix C for recorded measurements). The wells were sampled when field measurements had stabilized to within 10% for three consecutive readings.

Groundwater samples were collected directly into laboratory-prepared bottles, labeled, stored in a closed container, and transported under chain-of-custody procedures to Jones. Groundwater samples were analyzed for VOCs by USEPA Method 8260B, dissolved hexavalent chromium by USEPA Method 7196, and 1,4-dioxane by USEPA Method 8270 on an expedited turnaround basis. Groundwater samples collected for hexavalent chromium analysis were filtered at the laboratory.

3.6 Surveying and Investigation Derived Waste Management

The locations of all monitoring wells were surveyed by Sawaya Engineering Consultants, Inc. of Yorba Linda, California, a California-licensed professional land surveyor, on November 18, 2019. Vertical elevations were surveyed relative to mean sea level (MSL) to the nearest 0.001 foot. Horizontal positions were surveyed relative to the State Plane Coordinate System to the nearest 0.001 foot. Well reference elevation survey data are presented in Table 2.

Investigation derived waste (IDW) including soil cuttings, decontamination water, and purged water was generated during fieldwork and placed in thirty-one 55-gallon department of transportation (DOT)-rated drums, which were staged on-site for disposal pending analysis. Ramboll collected samples to characterize the waste, and L3 used the results to properly dispose of the waste.

4. SITE INVESTIGATION RESULTS

In this section, soil results are compared to screening levels for commercial and industrial sites developed by the DTSC Human and Ecological Risk Office (HERO; HERO Note 3 Commercial Screening Levels [SLs], April 2019) and USEPA Region 9 (USEPA Commercial Regional Screening Levels [RSLs], November 2019). The most stringent value of the HERO Note 3 Commercial SL and USEPA Industrial RSL is used for data comparison in this report. Commercial/industrial screening levels were selected to evaluate soil collected during Phase II investigation activities, given that all samples were collected from beneath the site property.

Soil vapor screening levels have been adapted from DTSC Preliminary Endangerment Assessment Guidance Manual guidelines for the assessment of indoor air quality at non-residential sites. The USEPA Commercial RSLs and HERO Note 3 Commercial SLs for soil vapor referenced below were calculated by dividing the USEPA Industrial RSLs and HERO Note 3 Industrial SLs for indoor air by the current default attenuation factor (AF) of 0.001. An AF of 0.03 was also used to calculate screening levels as a conservative measure. The 0.03 AF is a default USEPA standard that California regulatory agencies are in the process of adopting under pending supplemental guidance for screening and evaluating vapor intrusion. These calculated screening levels provide an estimated exposure point concentration for possible vapor intrusion from soil vapor into a commercial building.

Groundwater results are compared to Maximum Contaminant Levels (MCLs) for drinking water and/or action levels. MCLs represent the maximum concentration of a chemical that is allowed in public drinking water systems. The MCLs are established by both the USEPA and California EPA (March 2019 update), with the more stringent of the two used in this evaluation. Given that the groundwater sampled at 53 to 65 feet beneath the site is not part of a public drinking water system, comparing groundwater data from the site to this screening criterion is considered conservative.

4.1 Field Observations

Soils encountered during the investigation were moderately stratified and consisted primarily of sandy silt, silty sand, sand, and sand with gravel from immediately below grade to approximately 90 feet bgs, the terminal depth of the investigation. A coarser sequence of sand and gravel was observed during the drilling of MW-2 and MW-3 at approximately 40 to 73 feet bgs. No odors were observed during screening of the soil cores. Organic vapor readings were collected approximately every five feet during drilling activities, and results were less than 10 parts per million by volume (ppmv) in all soil and soil vapor borings, and from 0.0 to 6.1 ppmv in the monitoring well borings. Dark brown/black soil (apparent naturally occurring organic layer) was observed in Boring MW-2 at an approximate depth of 50 feet bgs. The organic vapor reading was 4.0 ppmv at this depth and field personnel did not note an odor. Groundwater was first encountered during the drilling of MW-1, MW-2, and MW-3 within a sandy zone at depths of approximately 52 to 63 feet bgs.

4.2 Soil Analytical Results

Twenty-six soil samples were collected from Borings SB-1, SB-2, SB-4 through SB-6, and MW-2 at depths of approximately 5, 10, 15, and 20 feet bgs and from Borings SB-3 and MW-4 at a depth of approximately 5 feet bgs. Twenty-two soil samples collected were analyzed for VOCs by USEPA Method 8260B. Fourteen soil samples were analyzed for Title

22 Metals by USEPA Methods 6010B and 7471A, and a different subset of fourteen samples were analyzed for hexavalent chromium by USEPA Method 7196. A subset of eleven soil samples were also analyzed for 1,4-dioxane by USEPA Method 8270.

A summary of the sampling program is provided in Table 1. Soil analytical results are for VOCs and 1,4-dioxane are presented and compared to applicable screening levels in Table 3 and metals in Table 4. Laboratory reports are included in Appendix D. A summary of the results is provided in the following sections.

4.2.1 Volatile Organic Compounds

Three VOCs were detected at concentrations exceeding their respective laboratory RLs in at least one sample, as summarized below. No VOCs were reported above their respective soil screening levels. In summary:

- m,p-xylenes were reported in 3 of 22 soil samples with a maximum concentration of 4.1 micrograms per kilogram (µg/kg) reported in Sample SB-4 at a depth of 5 feet bgs;
- Toluene was reported in 2 of 22 soil samples with a maximum concentration of 1.2 µg/kg reported in Sample SB-4 at a depth of 10 feet bgs;
- Ethylbenzene was reported in 1 of 22 soil samples with a maximum concentration of 1.3 µg/kg reported in Sample SB-4 at a depth of 5 feet bgs.

4.2.2 1,4-Dioxane

Ten soil samples collected during drilling activities were analyzed for 1,4-dioxane, and 1,4-dioxane was not reported in any sample above the laboratory RL.

4.2.3 Metals

- Barium, cadmium, total chromium, cobalt, copper, hexavalent chromium, lead, molybdenum, nickel, vanadium, and zinc were reported in at least one soil sample (see Table 4). The results for these metals were below applicable screening levels for commercial/industrial use and are considered natural background concentrations for metals in soil; and
- Concentrations of antimony, arsenic, beryllium, selenium, silver, and thallium were not reported above their respective laboratory RLs in any soil sample.

4.3 Soil Vapor Analytical Results

A total of 10 primary soil vapor samples were collected from Probes SV-1 to SV-9 and SV-11. Soil vapor samples were collected by Jones and analyzed in an on-site mobile laboratory for VOCs. VOCs reported in soil vapor are presented in Figure 3, summarized and compared to applicable screening levels in Table 5, and included in laboratory analytical reports in Appendix D. In summary:

- Nine VOCs were reported above their respective laboratory RL in at least one soil vapor sample, as summarized below. All reported concentrations were below the USEPA/DTSC commercial screening level using an AF of 0.001. VOCs with concentrations above the screening levels using an AF of 0.03 (see Section 4.0) are the following:
  - Tetrachloroethene (PCE) was reported in 3 of 11 soil vapor samples with a maximum concentration of 0.552 micrograms per liter (µg/L) reported in Sample SV-5. Two soil vapor samples exceeded the PCE screening level of 0.067 µg/L, at locations near the hazardous waste and hazardous material accumulation area;

  - Chloroform was reported in 3 of 11 soil vapor samples with a maximum concentration of 0.124 µg/L reported in Sample SV-3. Two soil vapor samples exceeded the chloroform screening level of 0.018 µg/L, at locations near Clarifier #2 and the hazardous waste and material accumulation area;
  - Bromodichloromethane (BDCM) was reported in 2 of 11 soil vapor samples with a maximum concentration of 0.082 µg/L reported in Sample SV-3. Both samples exceeded the BDCM screening level of 0.011 µg/L, at locations near Clarifier #2 and Clarifier #4; and
  - Dibromochloromethane (DBCM) was reported in 2 of 11 soil vapor samples with a maximum concentration of 0.029 µg/L reported in Sample SV-3. One soil vapor sample exceeded the chloroform screening level of 0.019 µg/L, at a location near Clarifier #2.

- All locations where the soil vapor concentrations were detected at concentrations exceeding the calculated screening levels using the 0.03 AF for possible vapor intrusion, were from vapor points located outside the building footprint.
- Other VOCs reported in soil vapor samples but at concentrations below their respective screening levels (0.001 AF or 0.03 AF) included (maximum concentrations in parentheses): benzene (0.009 µg /L, duplicate sample), 1,1-dichloroethene (1,1-DCE; 0.051 µg/L), Freon 113 (1.58 µg/L), toluene (0.044 µg/L), and 1,1,1-trichloroethane (1,1,1-TCA; 7.83 µg/L).

4.4 Groundwater Results

4.4.1 Groundwater Elevation

Well construction information and groundwater elevation data from November 2019 is presented in Table 2. The estimated groundwater elevation contours for November 2019 are illustrated on Figure 4.

Static water levels measured at MW-1, MW-2, and MW-3 prior to sampling on November 21, 2019 were 37.11, 57.82, and 57.84 feet below the top of the well casing (btoc), respectively. The estimated groundwater flow direction across the site is generally toward the east with an approximate gradient of 0.08.

4.4.2 Groundwater Analytical Results

Three groundwater monitoring wells (MW-1 through MW-3) were sampled as part of site investigation efforts, MW-4 was dry at the time of sampling. A summary of the sampling program is provided in Table 1. Groundwater analytical results are presented and compared to applicable screening levels in Table 6. Laboratory reports are included in Appendix D. A summary of the results is provided in Figure 5 and the following sections.

4.4.2.1 Volatile Organic Compounds

Two VOCs were detected at concentrations exceeding their respective MCLs in at least one sample, as summarized below:

- 1,2-dichloroethane (1,2-DCA) was reported in 1 of 3 groundwater samples, with a maximum concentration of 3.1 µg/L reported at MW-3, which is above the CA MCL for 1,2-DCA of 0.5 µg/L;

- 1,1-DCE was reported in 2 of 3 groundwater samples, with a maximum concentration of 15.1 µg/L at MW-2, which is above the CA MCL for 1,1-DCE of 6 µg/L; and
- Chloroform (maximum concentration of 14.7 µg/L), 1,1-dichloroethane (1,1-DCA; maximum concentration of 0.9 µg/L), cis-1,2-DCE (maximum concentration of 3.5 µg/L), Freon 113 (maximum concentration of 8.8 µg/L, duplicate sample), and trichloroethene (TCE; maximum concentration of 1.3 µg/L) were also reported above laboratory RLs in groundwater samples, but at concentrations below their respective CA MCLs.

4.4.2.2 1,4-Dioxane

All three groundwater samples collected were analyzed for 1,4-dioxane, and 1,4-dioxane was not reported in any sample above the laboratory RL.

4.4.2.3 Hexavalent Chromium

All three groundwater samples collected were analyzed for hexavalent chromium, and hexavalent chromium was not reported in any sample above the laboratory RL.

5. CONCLUSIONS

Based on the information provided in this report, Ramboll presents the following conclusions.

5.1 Conclusions

- Soil underlying the site is comprised primarily of sand with lesser amounts of silt and gravel. Groundwater was encountered within a discontinuous aquifer present beneath the site at three of four monitoring well borings at depths ranging from approximately 52 to 63 feet bgs. Groundwater was not encountered in MW-4 boring, located in the southwest portion of the property, to a depth of 90 feet bgs. Static water levels ranged from approximately 37 feet btoc at MW-1 to approximately 58 feet btoc at MW-2 and MW-3. The estimated groundwater flow direction across the site is generally toward the east with an approximate gradient of 0.08. Based on the apparent discontinuous nature of the shallow water-bearing zone, the shallow water-bearing zone encounter in wells MW1 through MW-3 may be a perched zone and not part of the regional shallow aquifer.
- 1,4-dioxane was not reported in any soil or groundwater sample. Hexavalent chromium was reported in soil samples at concentrations below applicable screening levels and was not reported in any groundwater samples. Other metals, where present in soil samples, were reported at concentrations below applicable screening levels and are considered to be natural background concentrations of metals in soil. Therefore, these compounds (1,4-dioxane and metals, including hexavalent chromium) are not considered chemicals of potential concern (COPCs) for the site.
- Site characterization activities identified VOCs in soil, soil vapor, and first encountered groundwater beneath the site.
  - Soil. VOCs in soil were reported at concentrations below applicable screening levels.
  - Soil Vapor. VOCs in soil vapor were below screening levels for possible vapor intrusion using an AF of 0.001 and were slightly above the more conservative screening levels using an AF of 0.03, under pending supplemental guidance for screening and evaluating vapor intrusion. VOC concentrations are within an order of magnitude of these more stringent soil vapor screening levels, and locations with samples exceeding those screening levels are located outside of the building footprint; therefore, possible vapor intrusion would not be applicable at these locations.
  - Groundwater. Two VOCs (1,2-DCA and 1,1-DCE) were reported in groundwater at concentrations slightly above, and within an order of magnitude of, their respective MCLs. These constituents are typical degradation products of other chemicals (chlorinated solvents) and are indicative of a possible old release and not evidence of recent or a current possible release.
- Given the low concentrations of VOCs reported in soil, soil vapor, and groundwater subsurface impacts do not appear significant or widespread, and it is therefore unlikely a significant release of VOCs occurred at the site.

6. NO FURTHER ACTION REQUEST

Based on the information provided in this report, the property owner (L3Harris) requests a No Further Action designation from the DTSC for the site.

7. REFERENCES

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California Department of Water Resources (DWR), 2004. California's Groundwater, Bulletin 118, South Coast Hydrologic Region, San Fernando Valley Groundwater Basin. February 27 Update.

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United States Geological Survey (USGS), 1985. A Conceptual Ground-Water-Quality Monitoring Network for San Fernando Valley, California. Water Resources Investigation Report 84-4128.

TABLES

Table 1. Sampling Summary
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Boring Location	Total Depth (feet bgs)	Drilling Method	Soil Sample Collection: VOCs by USEPA Method 8260B (feet bgs)	Soil Sample Collection: Title 22 Metals by USEPA Methods 6010B and 7471A (feet bgs)	Soil Sample Collection: Hexavalent Chromium by USEPA Method 7199 (feet bgs)	Soil Sample Collection: 1,4-Dioxane by USEPA Method 8270 SIM (feet bgs)	Soil Vapor Sampling for VOCs by USEPA Method 8260B (soil vapor probe depth in feet bgs)	Groundwater Sample Collection[a] (well screen interval in feet bgs)	Rationale	Notes
Soil Borings										
SB-1	20	Direct Push	5, 10, 15, 20[b]	--	--	--	--	--	Tank #1	
SB-2	20	Direct Push	5, 10, 15, 20	--	--	--	--	--	Tank #4	
SB-3	5	Hand Auger	5	5	5	5	--	--	Clarifier #2	Unable to collect 10-, 15-, and 20-foot samples due to inability to access location with drill rig
SB-4	20	Direct Push	5, 10, 15, 20[b]	--	5, 10, 15, 20[b]	--	--	--	Clarifier #1	
SB-5	20	Direct Push	5, 10, 15, 20[b]	5, 10, 15, 20	5, 10, 15, 20[b]	5, 10, 15, 20[b]	--	--	Hazardous Material Accumulation Area	
SB-6	20	Direct Push	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20[b]	5, 10, 15, 20[b]	--	--	Clarifier #3	
Soil Vapor Borings										
SV-1	5	Hand Auger	--	--	--	--	5	--	Tank #1	
SV-2	5	Hand Auger	--	--	--	--	5	--	Tank #4	
SV-3	5	Hand Auger	--	--	--	--	5	--	Clarifier #2	
SV-4	5	Hand Auger	--	--	--	--	5	--	Clarifier #1	
SV-5	5	Hand Auger	--	--	--	--	5	--	Hazardous Material Accumulation Area	
SV-6	5	Hand Auger	--	--	--	--	5	--	Clarifier #3	
SV-7	5	Hand Auger	--	--	--	--	5	--	Hazardous Waste Area & Tank #2	
SV-8	5	Hand Auger	--	--	--	--	5	--	Clarifier #4	
SV-9	5	Hand Auger	--	--	--	--	5	--	Potential Degreaser	
SV-10	--	Hand Auger	--	--	--	--	--	--	Former Degreasers	Location abandoned due to refusal
SV-11	5	Hand Auger	--	--	--	--	5	--	Tank #5	
SV-12	5	Hand Auger	--	--	--	--	5	--	Maintenance Area	
Groundwater Monitoring Wells										
MW-1	63.5	Hollow-Stem Auger	--	--	--	--	--	48 to 63	Upgradient of groundwater monitoring wells	
MW-2	70.5	Hollow-Stem Auger	5, 10, 15, 20[b]	5, 10, 15, 20	5, 10, 15, 20[b]	5, 10, 15, 20	--	55 to 70	Hazardous Waste Area	
MW-3	75.5	Hollow-Stem Auger	--	--	--	--	--	60 to 75	Clarifier #3	
MW-4	79	Hollow-Stem Auger[c]	5	5	5	--	--	58 to 78	Clarifier #4	Refusal encountered at initial MW-4 location, so 5-foot sample collected with hand auger and location moved for groundwater monitoring well
Total (Primary) Samples			26 soil samples				11 soil vapor samples	3 groundwater samples		

Notes:
bgs - below ground surface
COCs - constituents of concern
DTSC - California Department of Toxic Substances Control
N/A - not applicable
TPH - Total petroleum hydrocarbons, full carbon chain
UST - underground storage tank
USEPA - United States Environmental Protection Agency
VOCs - volatile organic compound
-- no sample collected

[a]Groundwater samples will be analyzed for VOCs (USEPA Method 8260B), dissolved hexavalent chromium (USEPA Method 7199), and 1,4-dioxane (USEPA Method 8270 SIM).
[b]Sample archived and not analyzed due to results of upper 5-, 10-, and 15-foot samples.
[c]Refusal encountered at initial MW-4 location, so 5-foot sample collected with hand auger and location moved for hollow stem auger drilling of groundwater monitoring well.

Table 2. Monitoring Well Construction Details and Groundwater Elevations
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Monitoring Well ID	Total Depth of Well (feet bgs)	Well Screen Interval (feet bgs)	Top of Well Casing Elevation (feet amsl)	Depth to Water Measurement Date	Depth To Water (feet btoc)	Water Level Elevation (feet amsl)
MW-1	63	48 to 63	1,274.85	11/21/2019	37.11	1,237.74
MW-2	70	55 to 70	1,264.85	11/21/2019	57.82	1,207.03
MW-3	75	60 to 75	1,259.65	11/21/2019	57.84	1,201.81
MW-4	78	58 to 78	1,267.64	11/21/2019	DRY	NA

Notes:
amsl - above mean sea level
bgs - below ground surface
btoc - below top of casing
NA - not applicable
Monitoring wells were surveyed by Sawaya Engineering Consultants, Inc. on November 18, 2019.

Table 3. Summary of VOCs and 1,4-Dioxane in Soil
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Sample ID	Sample Date	Sample Depth	Ethylbenzene[1]	Toluene[2]	m,p-Xylene[1]	1,4-Dioxane[1]
Commercial/Industrial Screening Level			**25,000**	**5,300,000**	**2,400,000**	**24,000**
Units			**µg/kg**			
MW-2	11/5/2019	5	<1.0	<1.0	<2.0	<20
		10	<1.0	<1.0	<2.0	<20
		15	<1.0	<1.0	<2.0	<20
		20	NA	NA	NA	<20
MW-4	11/6/2019	5	<1.0	<1.0	**3.7**	NA
SB-1	11/8/2019	5	<1.0	<1.0	<2.0	NA
		10	<1.0	<1.0	<2.0	NA
		15	<1.0	<1.0	<2.0	NA
SB-2	11/8/2019	5	<1.0	<1.0	<2.0	NA
		10	<1.0	<1.0	<2.0	NA
		15	<1.0	<1.0	<2.0	NA
		20	<1.0	<1.0	<2.0	NA
SB-3	11/8/2019	5	<1.0	<1.0	<2.0	<20
SB-4	11/7/2019	5	**1.3**	**1.0**	**4.1**	NA
		10	<1.0	**1.2**	**1.5**	NA
		15	<1.0	<1.0	<2.0	NA
SB-5	11/7/2019	5	<1.0	<1.0	<2.0	<20
		10	<1.0	<1.0	<2.0	<20
		15	<1.0	<1.0	<2.0	<20
SB-6	11/8/2019	5	<1.0	<1.0	<2.0	<20
		10	<1.0	<1.0	<2.0	<20
		15	<1.0	<1.0	<2.0	<20
		20	<1.0	<1.0	<2.0	NA

Notes:
DTSC - Department of Toxic Substances Control
µg/kg - microgram per kilogram
NA - Not analyzed
RSL - Regional Screening Level
USEPA - United States Environmental Protection Agency
VOC - Volatile organic compounds
<X - Not reported above laboratory reporting limit
Bolded values denote that compound was reported above the laboratory reporting limit
Highlighted values denote that compounds were reported above the commercial/industrial screening level
Only compounds reported above the laboratory reporting limit are shown.
Soil samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B.

References:
[1]USEPA. 2019. Regional Screening Levels Summary Table. November.
[2]Cal/EPA. 2019. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA) Note Number 3, Issue: DTSC-Modified Screening Levels (DTSC-SLs). April.

Table 4. Summary of Metals in Soil
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Sample ID	Sample Date	Sample Depth	Arsenic[a,2]	Barium[1]	Cadmium[2]	Cobalt[1]	Chromium[b,1]	Chromium(VI)[2]	Copper[1]	Molybdenum[1]	Mercury[2]	Nickel[2]	Lead[2]	Vanadium[1]	Zinc[1]
Commercial/Industrial USEPA/DTSC Screening Levels[1,2]			**0.36**	**220,000**	**780**	**350**	**1,800,000**	**6.2**	**47,000**	**5,800**	**4.4**	**11,000**	**320**	**5,800**	**350,000**
Background Metals in California Soils[a]			**12***	**509**	**0.36**	**14.9**	**122**	**--**	**28.7**	**1.3**	**0.26**	**57**	**23.9**	**112**	**149**
Units			**mg/kg**												
MW-2	11/5/2019	5	<5	**85.9**	**1.3**	**6.3**	**13.5**	**0.12**	**7.9**	**1.1**	<0.020	**9.5**	**2.6**	**22.3**	**28.8**
		10	<5	**81.9**	**1.1**	**3.6**	**11.0**	<0.001	**6.2**	**0.7**	<0.020	**7.1**	**1.2**	**20.7**	**24.3**
		15	<5	**63.0**	**0.9**	**3.9**	**10.4**	**0.036**	**6.6**	**1.1**	<0.020	**6.7**	**1.9**	**14.8**	**22.4**
		20	<5	**76.1**	**1.2**	**5.4**	**17.8**	NA	**58.4**	**2.0**	<0.020	**10.9**	**5.5**	**20.3**	**33.3**
MW-4	11/6/2019	5	<5	**70.7**	**1.2**	**7.8**	**12.4**	**0.11**	**5.5**	**0.9**	<0.020	**7.5**	**2.3**	**20.6**	**27.1**
SB-3	11/8/2019	5	<5	**137**	**1.1**	**5.7**	**9.8**	**0.12**	**8.5**	<1.5	<0.020	**8.7**	**2.4**	**20.8**	**26.7**
SB-4	11/7/2019	5	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	NA	NA	NA	NA
		10	NA	NA	NA	NA	NA	**0.15**	NA	NA	NA	NA	NA	NA	NA
		15	NA	NA	NA	NA	NA	**0.12**	NA	NA	NA	NA	NA	NA	NA
SB-5	11/7/2019	5	<5	**102**	**1.3**	**7.2**	**12.8**	**0.15**	**7.6**	**0.6**	<0.020	**8.4**	**2.6**	**22.3**	**27.5**
		10	<5	**88.4**	**1.2**	**5.8**	**12.2**	**0.11**	**6.5**	**0.8**	<0.020	**7.5**	**2.6**	**20.6**	**27.4**
		15	<5	**72.0**	**1.3**	**3.2**	**13.0**	**0.11**	**6.6**	**0.7**	<0.020	**7.6**	**1.9**	**19.1**	**27.0**
		20	<5	**79.4**	**1.9**	**8.1**	**12.3**	NA	**7.6**	**1.4**	<0.020	**15.7**	**2.0**	**25.2**	**43.1**
SB-6	11/8/2019	5	<5	**108**	**2.0**	**7.9**	**26.3**	**0.54**	**11.0**	<1.5	<0.020	**13.0**	**3.1**	**30.7**	**35.1**
		10	<5	**101**	**1.8**	**6.8**	**22.2**	**0.28**	**10.4**	<1.5	<0.020	**11.5**	**2.6**	**26.6**	**33.6**
		15	<5	**65.4**	**1.3**	**4.6**	**14.5**	**0.25**	**6.5**	<1.5	<0.020	**7.5**	**1.7**	**20.4**	**23.5**
		20	<5	**71.4**	**1.0**	**4.0**	**67.0**	NA	**5.3**	<1.5	<0.020	**3.4**	**2.6**	**16.0**	**19.5**

Notes:
µg/L - micrograms per Liter
<X - Not reported above laboratory reporting limit
- Screening level not established
NA - not analyzed for this compound
DTSC - Department of Toxic Substances Control
RSL - Regional Screening Level
USEPA - United States Environmental Protection Agency
Bolded values denote that compound was reported above the laboratory reporting limit
Highlighted values denote that compounds were reported above the commercial/industrial screening level
Only compounds reported above the laboratory reporting limit are shown.
[a] Average background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science, University of California, from G.R. Bradford, et al. March 1996.
[b]Chromium III screening level
* Determination of a Southern California Regional Background Arsenic Concentration in Soil. G. Chernoff, W. Bosan and D. Oudiz - California Department of Toxic Substances Control. 2008.
Soil samples were analyzed for Title 22 Metals by USEPA Method 6020 and hexavalent chromium by USEPA Method 7196.

References:
[1]USEPA. 2019. Regional Screening Levels Summary Table. November.
[2]Cal/EPA. 2019. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA)

Table 5. Summary of Soil Vapor Sampling Results
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Sample ID	Sample Date	Sample Depth	Benzene[2]	Bromodi-chloromethane (BDCM)[1]	Chloroform[1]	Dibromo-chloromethane (DBCM)[2]	1,1-Dichloroethene (1,1-DCE)[2]	Freon 113[1]	Tetra-chloroethene (PCE)[2]	Toluene[2]	1,1,1-Trichloroethane (1,1,1-TCA)[2]
Units			µg/L								
Commercial DTSC/EPA Screening Levels		AF = 0.001	0.42	0.33	0.53	0.58	310	22,000	2.0	1,300	4,400
		AF = 0.03	0.014	0.011	0.018	0.019	10.3	733	0.067	43.3	147
SV-1	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	**0.032**	<0.008	<0.008	<0.008
SV-2	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	<0.016	<0.008	**0.012**	<0.008
SV-3	11/14/2019	5	<0.008	**0.082**	**0.124**	**0.029**	<0.008	**1.250**	<0.008	<0.008	**0.099**
SV-4	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	**0.115**	<0.008	**0.039**	<0.008
SV-4-REP	*11/14/2019*	*5*	***0.009***	*<0.008*	*<0.008*	*<0.008*	*<0.008*	***0.125***	*<0.008*	***0.044***	*<0.008*
SV-5	11/14/2019	5	<0.008	<0.008	**0.019**	<0.008	**0.051**	**0.998**	**0.552**	<0.008	**7.83**
SV-6	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	**0.018**	**0.012**	<0.008	<0.008
SV-7	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	**0.015**	**1.58**	**0.109**	<0.008	**0.057**
SV-8	11/14/2019	5	<0.008	**0.015**	**0.014**	**0.011**	<0.008	<0.016	<0.008	<0.008	<0.008
SV-9	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	**0.287**	<0.008	<0.008	<0.008
SV-11	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	**0.261**	<0.008	<0.008	<0.008
SV-12	11/14/2019	5	<0.008	<0.008	<0.008	<0.008	<0.008	<0.016	<0.008	<0.008	<0.008

Notes:
µg/L - micrograms per Liter
<X - Not reported above laboratory reporting limit
- Screening level not established
AF - Attenuation Factor
DTSC - Department of Toxic Substances Control
RSL - Regional Screening Level
USEPA - United States Environmental Protection Agency
Bolded values denote that compound was reported above the laboratory reporting limit
Replicate samples are italicized
Highlighted values denote that compounds were reported above the commercial/industrial screening level (AF = 0.03)
Only compounds reported above the laboratory reporting limit are shown.
Soil vapor samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B.
Soil vapor screening levels were the ratio of the DTSC-Modified RSLs (Cal/EPA 2019) or USEPA RSLs (USEPA 2019) for indoor air to the corresponding default attenuation factors as recommended by Cal/EPA (2011) for commercial/industrial existing building scenario (AF = 0.001) (see reference below) and EPA (2015) (AF = 0.03).

References:
[1]USEPA. 2019. Regional Screening Levels Summary Table. November.
[2]Cal/EPA. 2019. Human and Ecological Risk Office (HERO) Human Health Risk assessment (HHRA) Note Number 3, Issue: DTSC-Modified Screening Levels (DTSC-SLs). April.

Table 6. Summary of Groundwater Sampling Results
L3Harris Technologies
15825 Roxford Street, Sylmar, California

Sample ID	Sample Date	Pump Depth	VOCs							1,4-Dioxane	Chromium(VI)
			Chloroform	1,1-Dichloroethane (1,1-DCA)	1,2-Dichloroethane (1,2-DCA)	1,1-Dichloroethene (1,1-DCE)	cis-1,2-Dichloroethene (cis-1,2-DCE)	Freon 113	Trichloroethene (TCE)		
Units			**µg/L**								
CA MCL			**80.0**	**5.0**	**0.5**	**6.0**	**6.0**	**1,200**	**5.0**	**1.0 (NL)**	**50**
MW-1	11/21/2019	53	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<20	<25
MW-2	11/21/2019	60	<0.5	**0.9**	<0.5	**15.1**	<0.5	**4.9**	**1.3**	<20	<25
MW-3	11/21/2019	65	**14.7**	<0.5	**3.1**	**14.4**	**3.5**	<2.5	**1.3**	<20	<25
MW-3 (DUP)	*11/21/2019*	*65*	***13.4***	*<0.5*	***2.8***	***13.3***	***3.2***	***8.8***	***1.2***	*<20*	*<25*

Notes:

µg/L - micrograms per Liter

<X - Not reported above laboratory reporting limit

- Screening level not established

NL - California Drinking Water Notification Level

MCL - Maximum Contaminant Level for drinking water

RSL - Regional Screening Level

USEPA - United States Environmental Protection Agency

Bolded values denote that compound was reported above the laboratory reporting limit

Duplicate samples are italicized

Highlighted values denote that compounds were reported above the agency screening level

Only compounds reported above the laboratory reporting limit are shown.

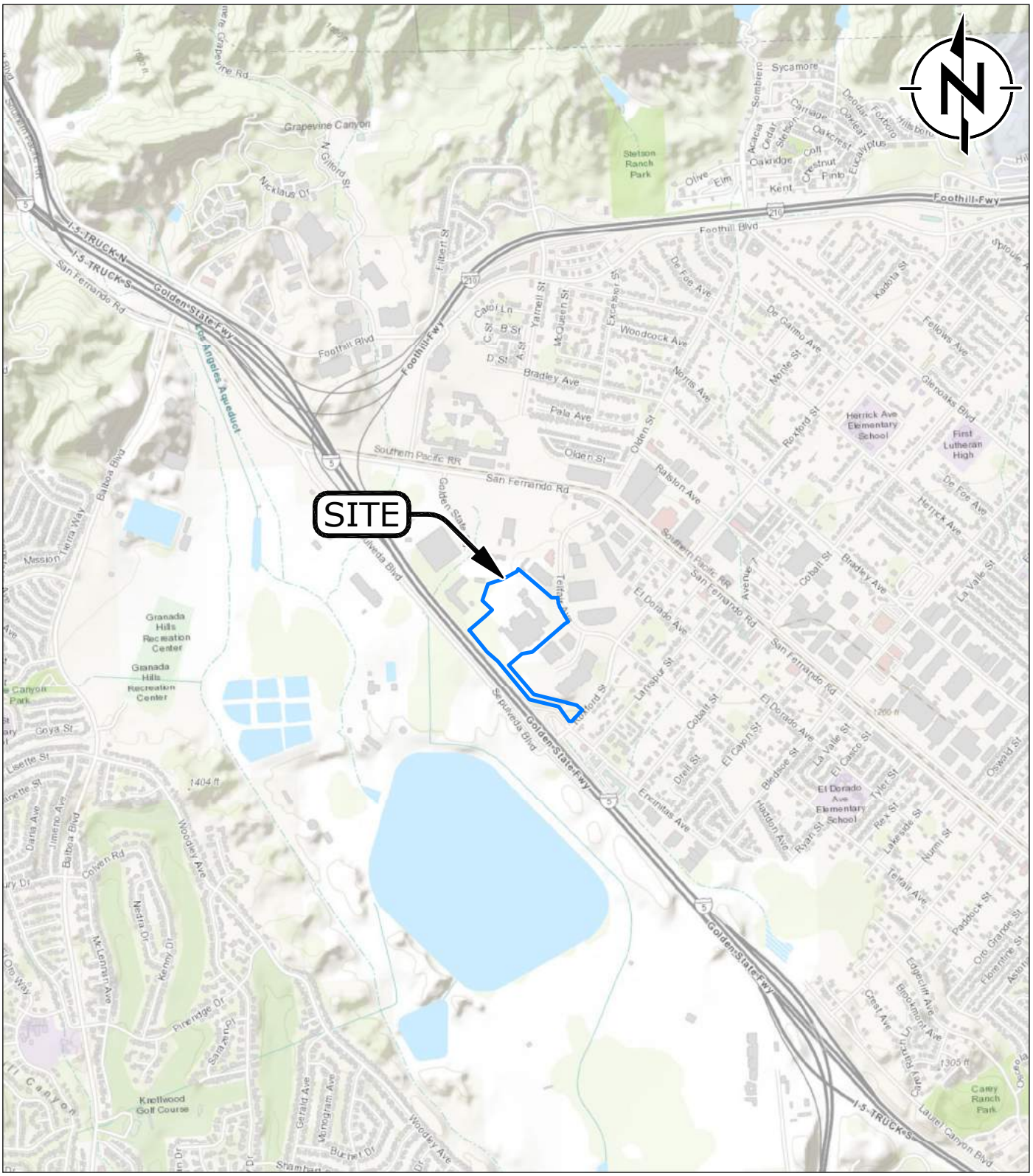
Groundwater samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260B, 1,4-dioxane by USEPA Method 8270C, and hexavalent chromium by USEPA Method (7196).

References:

Cal/EPA. 2019. MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants. March.

Cal/EPA. 2019. 1,4-Dioxane in Drinking Water. https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/14-Dioxane.html. June.

FIGURES



Legend

Property Boundary

0 0.5 1

Scale in Miles

0 2,000 4,000

Scale in Feet

KEY MAP

SOURCE:
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Map Scale: 1:24,000 Spatial Reference: NAD 1983 UTM Zone 10N; Map Center: 118°28'52"W 34°18'34"N

RAMBOLL

DRAFTED BY: MKNEALE

DATE: 12/6/2019

Site Location Map

L3 Harris

15825 Roxford Street

Sylmar, California

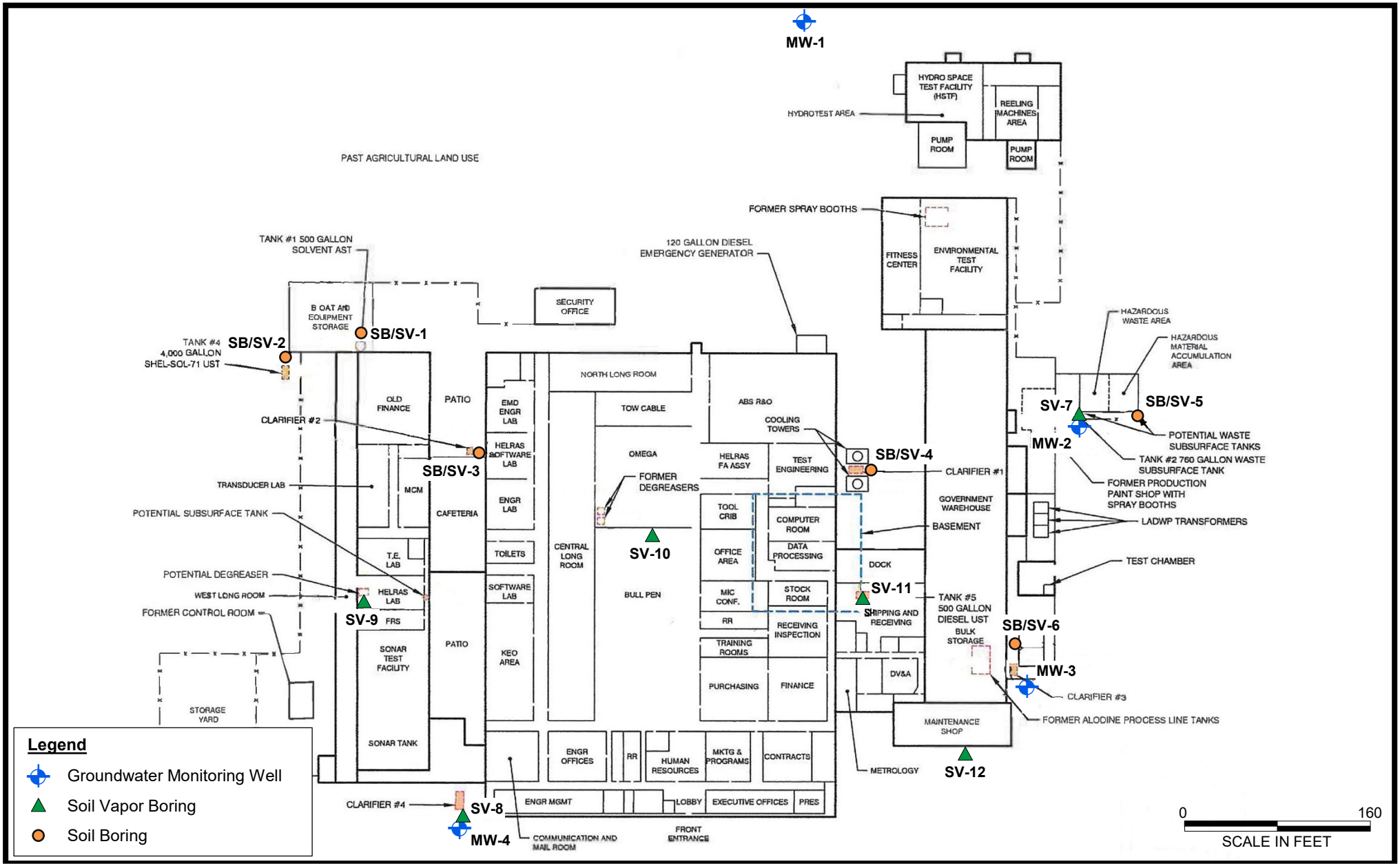
FIGURE

1

PROJECT: 1690014992

\\wcirvfps3\EDMS_Irvine\01_Projects\L3_Harris_Sylmar\03_GIS\20191125_GWElevations\Figure 1 - Site Location Map.mxd

C:\Projects\L3H Sylmar\Figure 2A – Historical Current Floor Plan and Boring Locations



RAMBOLL

DRAFTED BY: AHIGGINS

DATE: 7/30/2020

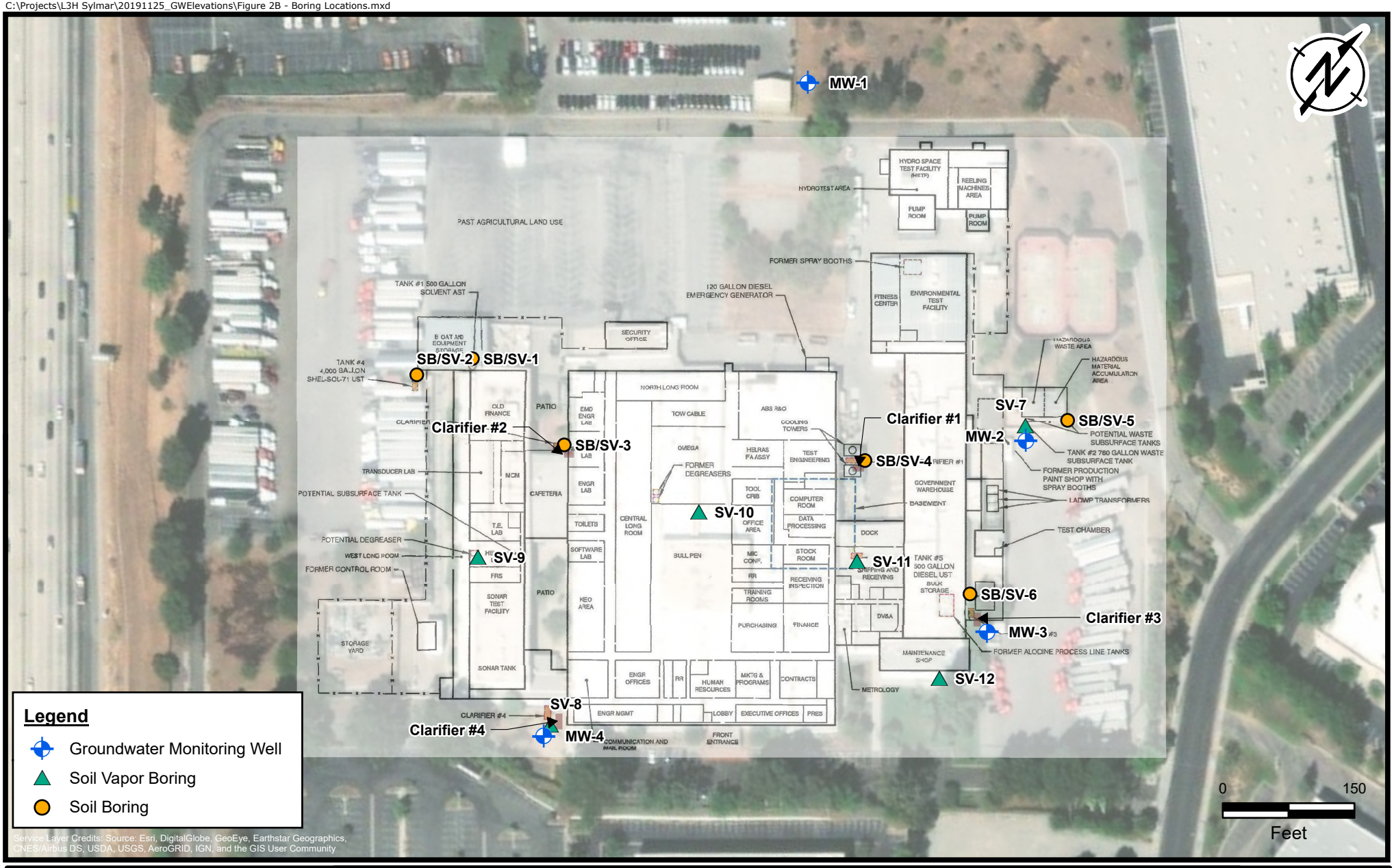
Historical/Current Floor Plan and Boring Locations

L3 Harris
15825 Roxford Street
Sylmar, California

FIGURE
2A

PROJECT: 1690018309

C:\Projects\L3H Sylmar\20191125_GWElevations\Figure 2B - Boring Locations.mxd



RAMBOLL

DRAFTED BY: AHIGGINS

DATE: 7/30/2020

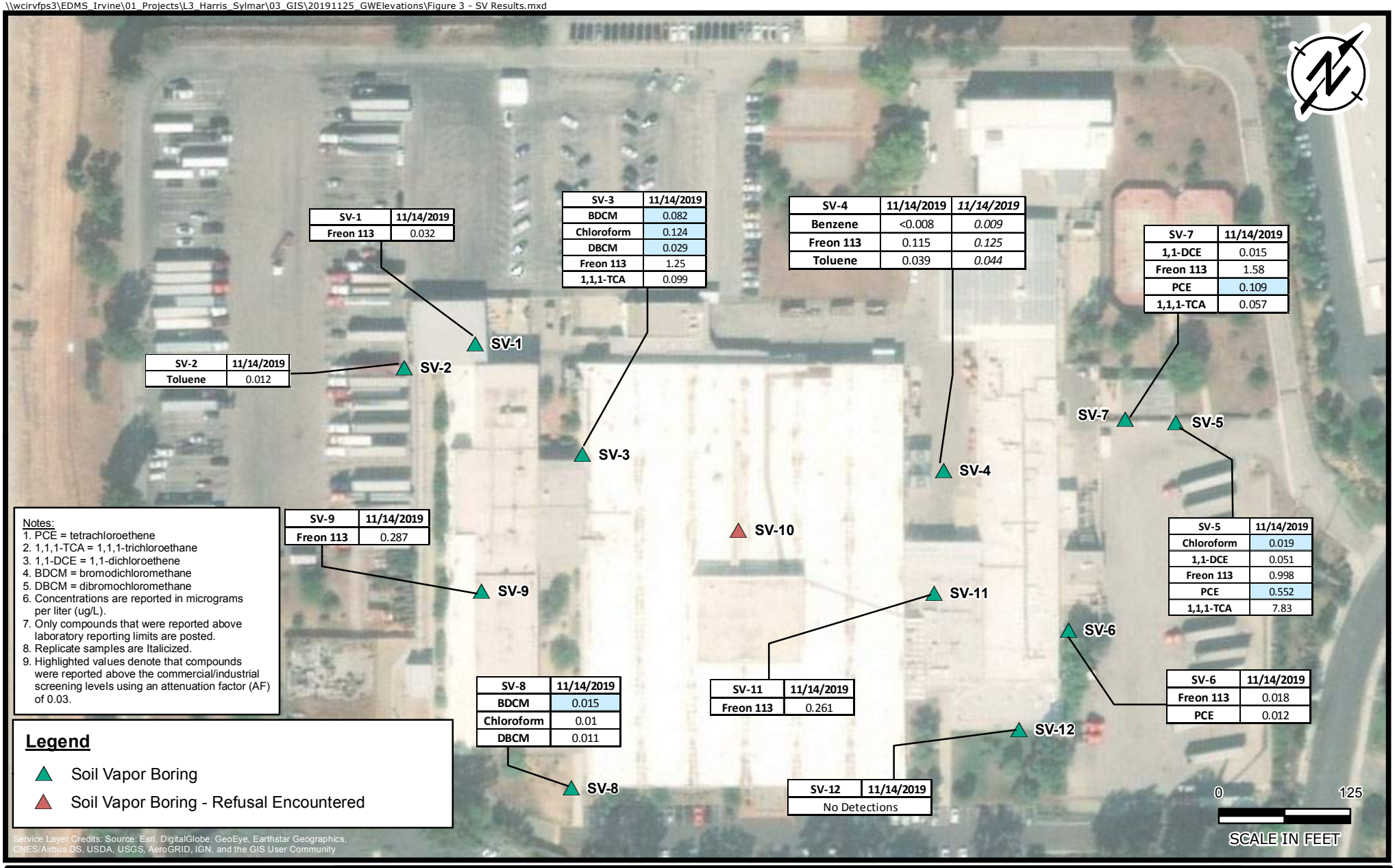
Boring Locations

L3 Harris
15825 Roxford Street
Sylmar, California

FIGURE
2B

PROJECT: 1690018309

\\wcirvfps3\EDMS_Irvine\01_Projects\L3_Harris_Sylmar\03_GIS\20191125_GWElevations\Figure 3 - SV Results.mxd



SV-1	11/14/2019
Freon 113	0.032

SV-2	11/14/2019
Toluene	0.012

SV-3	11/14/2019
BDCM	0.082
Chloroform	0.124
DBCM	0.029
Freon 113	1.25
1,1,1-TCA	0.099

SV-4	11/14/2019	*11/14/2019*
Benzene	<0.008	*0.009*
Freon 113	0.115	*0.125*
Toluene	0.039	*0.044*

SV-5	11/14/2019
Chloroform	0.019
1,1-DCE	0.051
Freon 113	0.998
PCE	0.552
1,1,1-TCA	7.83

SV-6	11/14/2019
Freon 113	0.018
PCE	0.012

SV-7	11/14/2019
1,1-DCE	0.015
Freon 113	1.58
PCE	0.109
1,1,1-TCA	0.057

SV-8	11/14/2019
BDCM	0.015
Chloroform	0.01
DBCM	0.011

SV-9	11/14/2019
Freon 113	0.287

SV-11	11/14/2019
Freon 113	0.261

SV-12	11/14/2019
No Detections	

Notes:
1. PCE = tetrachloroethene
2. 1,1,1-TCA = 1,1,1-trichloroethane
3. 1,1-DCE = 1,1-dichloroethene
4. BDCM = bromodichloromethane
5. DBCM = dibromochloromethane
6. Concentrations are reported in micrograms per liter (ug/L).
7. Only compounds that were reported above laboratory reporting limits are posted.
8. Replicate samples are Italicized.
9. Highlighted values denote that compounds were reported above the commercial/industrial screening levels using an attenuation factor (AF) of 0.03.

Legend

- Soil Vapor Boring
- Soil Vapor Boring - Refusal Encountered

RAMBOLL

DRAFTED BY: MKNEALE

DATE: 12/6/2019

Soil Vapor Results

L3 Harris
15825 Roxford Street
Sylmar, California

FIGURE
3

PROJECT: 1690014992

\\wcirvfps3\EDMS_Irvine\01_Projects\L3_Harris_Sylmar\03_GIS\20191125_GWElevations\Figure 4 - GW Elevations.mxd

RAMBOLL

DRAFTED BY: MKNEALE

DATE: 12/6/2019

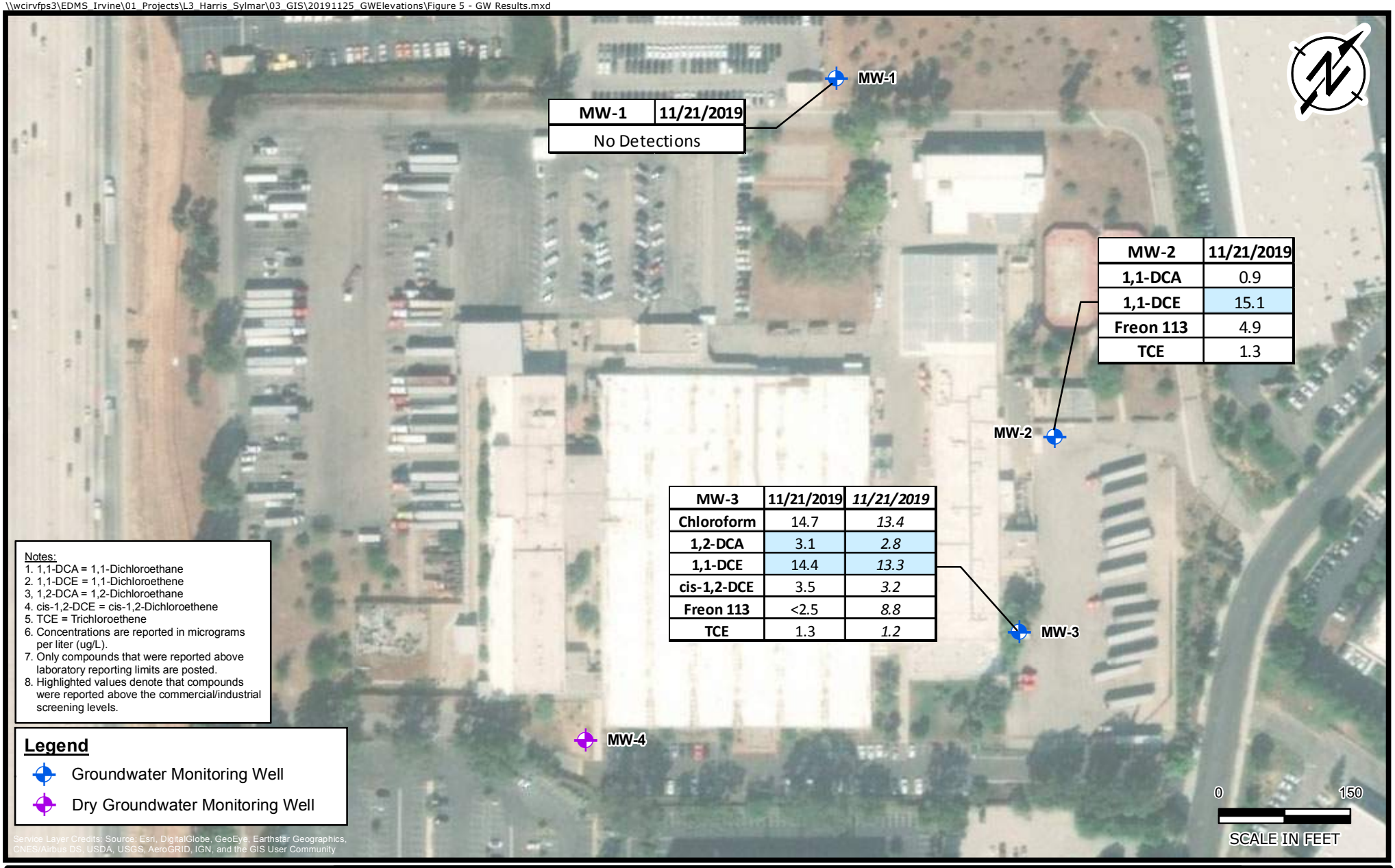
Groundwater Elevations

L3 Harris
15825 Roxford Street
Sylmar, California

FIGURE
4

PROJECT: 1690014992

\\wcirvfps3\EDMS_Irvine\01_Projects\L3_Harris_Sylmar\03_GIS\20191125_GWElevations\Figure 5 - GW Results.mxd



MW-1	11/21/2019
No Detections	

MW-2	11/21/2019
1,1-DCA	0.9
1,1-DCE	15.1
Freon 113	4.9
TCE	1.3

MW-3	11/21/2019	*11/21/2019*
Chloroform	14.7	*13.4*
1,2-DCA	3.1	*2.8*
1,1-DCE	14.4	*13.3*
cis-1,2-DCE	3.5	*3.2*
Freon 113	<2.5	*8.8*
TCE	1.3	*1.2*

Notes:
1. 1,1-DCA = 1,1-Dichloroethane
2. 1,1-DCE = 1,1-Dichloroethene
3, 1,2-DCA = 1,2-Dichloroethane
4. cis-1,2-DCE = cis-1,2-Dichloroethene
5. TCE = Trichloroethene
6. Concentrations are reported in micrograms per liter (ug/L).
7. Only compounds that were reported above laboratory reporting limits are posted.
8. Highlighted values denote that compounds were reported above the commercial/industrial screening levels.

Legend

- Groundwater Monitoring Well
- Dry Groundwater Monitoring Well

RAMBOLL

DRAFTED BY: MKNEALE | DATE: 12/6/2019

Groundwater Results

L3 Harris
15825 Roxford Street
Sylmar, California

FIGURE
5

PROJECT: 1690014992

APPENDIX A
WELL BORING/CONSTRUCTION LOGS AND WELL AND BORING PERMITS

RAMBOLL	Site ID: **MW-1**	Date(s): **11/05/2019-11/06/2019**	
	Location: **15825 Roxford Street, Sylmar, California 91432**		
	Logged By: **B. Jamison**	Checked By: **A. Manion, PG**	
Contractor: **ABC Liovin Drilling**	Purpose: **Phase II Assessment**	Total Depth: **66.5 feet**	
Drilling Method: **Hollow Stem Auger**	TOC Elevation: **1275.38 feet amsl**	GS Elevation: **1274.85 feet amsl**	
Sampling Method: **Split Spoon**	X Coordinate: **6416281.998 feet**	Y Coordinate: **1935231.621 feet**	

Well Construction:

Blank Casing: **Schedule 40 PVC** **0.5 feet to 48 feet bgs**

Screen: **Schedule 40 PVC 0.020" Slot** **48 feet to 63 feet bgs**

Annular Fill: **Bentonite-Cement Grout** **1 foot to 43 feet bgs**
Bentonite Chip Seal **43 feet to 46 feet bgs**
Sand #3 **46 feet to 63 feet bgs**

Borehole Diameter: **8.25 inches**

Project Number: **1690014992**

Project Name: **L3Harris Technologies**

Remarks:
Boring logged at five foot intervals from ground surface to 50 feet below ground surface (bgs) and continuously from 50 bgs to total depth.

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1275	1, 2, 3, 4							Boring cleared with hand auger to 5 feet bgs.		
1270	5, 6				2.0		SM	SILTY SAND (SM): Light Olive Brown (2.5Y 5/4); slightly moist; 70% fine to medium grained sand, 25% silt, 5% subangular fine gravel. From 5.5 feet: damp; 70% fine grained sand, 30% silt, trace subangular fine gravel.		
1265	10, 11			8 10 14	0.5		SM	SILTY SAND (SM): Light Olive Brown (2.5Y 5/4); damp; 70% fine to medium grained sand, 25% silt, 5% angular to subangular fine gravel. From 10.5 feet: 70% fine to coarse grained sand, 30% silt, trace subangular fine gravel.		
1260	15, 16			7 11 16	6.0		SM	SILTY SAND (SM): Light Olive Brown (2.5Y 5/4); moist; 65% fine to medium grained sand; 35% silt; trace subangular to subrounded fine gravel.		

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-1	Date(s):	**11/05/2019-11/06/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1255	21			18 21 23	3.6		ML	SANDY SILT (ML): Very Dark Yellowish Brown (10YR 4/6); slightly moist; 60% silt, 40% fine to medium grained sand, trace subangular to subrounded fine gravel.		
	22									
	23									
	24									
1250	25 26			21 24 28	4.9		ML	SANDY SILT with clay (ML): Dark Yellowish Brown (10YR 4/6); damp; 65% low plasticity fines, 35% fine grained sand.		
	27									
	28									
	29									
1245	30 31			26 29 32	6.1		ML	SANDY SILT with clay (ML): Light Olive Brown (2.5Y 5/6); damp; 70% low plasticity fines; 30% fine grained sand.		
	32									
	33									
	34									
1240	35 36			18 25 30	1.9		ML	SANDY SILT (ML): Light Olive Brown (2.5Y 5/4); slightly moist; 70% silt, 30% fine grained sand.		
	37								▼	
	38									
	39									

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-1	Date(s):	**11/05/2019-11/06/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1235	41			25 28 30	1.6		ML	SILT (ML): Light Olive Brown (2.5Y 5/4); dry; 95% silt, 5% fine grained sand; trace angular to subangular fine gravel.		
	42 43 44									
1230	45 46			22 29 32	1.8		ML/SM	SANDY SILT/SILTY SAND (ML/SM): Yellowish Brown (10YR 5/8); damp; 50% silt, 50% fine to medium grained sand; trace subangular fine gravel.		
	47 48 49									
1225	50 51			21 26 32	2.1		ML	SANDY SILT (ML): Olive Brown (2.5Y 4/4); slightly moist; 60% silt, 40% fine grained sand. From 51.5 feet: very moist; 65% low plasticity fines, 35% fine grained sand.		
	52			15 18 32			SP ML	SILTY SAND (SP): Olive Brown (2.5Y 4/4); very moist; 60% fine grained sand, 40% low plasticity fines. SANDY SILT (ML): Olive Brown (2.5Y 4/4); saturated; 65% low plasticity fines, 35% fine grained sand.	▽	
	53 54			13 15 19			SP	SILTY SAND (SP): Olive Brown (2.5Y 4/4); saturated; 70% fine grained sand, 30% low plasticity fines; trace angular to subangular fine gravel.		
1220	55 56			16 18 21	1.5			From 55 feet: gravel absent.		
	57 58			19 20 22 18				From 57.5 feet: fine to medium grained sand, predominantly fine, trace subangular fine gravel.		
	59			18 23	1.3					

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-1	Date(s):	**11/05/2019-11/06/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1215	61			9 11 19				From 60 feet: 70% fine to medium grained sand, 25% low plasticity fines, 5% subangular to rounded fine gravel.		
	62			7 11				From 61.5 to 66.5 feet: Soil not available for logging.		
	63			13 11						
	64			13 16						
1210	65			15						
	66			18 21	6.0					
								Boring terminated at 66.5 feet bgs. Groundwater encountered at 52 feet bgs.		

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

RAMBOLL	Site ID: **MW-2**	Date(s): **11/05/2019**	
	Location: **15825 Roxford Street, Sylmar, California 91432**		
	Logged By: **B. Jamison**	Checked By: **A. Manion, PG**	
Contractor: **ABC Liovin Drilling**	Purpose: **Phase II Assessment**	Total Depth: **71.5 feet**	
Drilling Method: **Hollow Stem Auger**	TOC Elevation: **1265.50 feet amsl**	GS Elevation: **1264.85 feet amsl**	
Sampling Method: **Split Spoon**	X Coordinate: **6416729.405 feet**	Y Coordinate: **1935062.570 feet**	

Well Construction:

Blank Casing: **Schedule 40 PVC** **0.5 feet to 55 feet bgs**

Screen: **Schedule 40 PVC 0.020" Slot** **55 feet to 70 feet bgs**

Annular Fill: **Bentonite-Cement Grout** **1 foot to 50 feet bgs**
Bentonite Chip Seal **50 feet to 53 feet bgs**
Sand #3 **53 feet to 70 feet bgs**

Borehole Diameter: **8.25 inches**

Project Number: **1690014992**

Project Name: **L3Harris Technologies**

Remarks:
Boring logged at five foot intervals from ground surface to 55 feet below ground surface (bgs) and continuously from 55 bgs to total depth.

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1265	1, 2, 3, 4							Boring cleared with hand auger to 5 feet bgs.		
1260	5, 6		MW-2-5-191105		0.0		SM	SILTY SAND (SM): Very Dark Brown (7.5YR 2.5/3); slightly moist; 70% fine to medium grained sand, 25% silt, 5% subrounded fine gravel.		
	7, 8, 9									
1255	10, 11		MW-2-10-191105	10 12 14	0.0		SM	SILTY SAND (SM): Yellowish Brown (10YR 5/6); damp; 80% fine to medium grained sand, 15% silt, 5% subangular to subrounded fine gravel.		
	12, 13, 14									
1250	15, 16		MW-2-15-191105		0.0		ML	SANDY SILT with clay (ML): Light Olive Brown (2.5Y 5/6); damp; 60% low plasticity fines, 40% fine to medium grained sand, trace subangular fine gravel.		
	17, 18, 19									

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-2	Date(s):	**11/05/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1245	21		MW-2-20-191105	15 20 21	0.0		ML	SANDY SILT with clay (ML): Light Olive Brown (2.5Y 5/6); damp; 65% low plasticity fines, 35% fine to medium grained sand, trace subangular fine gravel.		
	22									
	23									
	24									
	25			15 22 25	0.0		ML	SANDY SILT (ML): Light Olive Brown (2.5Y 5/6); damp; 65% silt, 35% fine to medium grained sand, trace subangular fine gravel.		
1240	26									
	27									
	28									
	29									
	30			16 18 25	0.0		SP-SM	SAND with silt (SP-SM): Olive Yellow (2.5Y 6/6); damp; 60% fine to medium grained sand, predominantly fine, 35% silt, 5% subangular to rounded fine gravel.		
1235	31									
	32									
	33									
	34									
	35			25 25 30	0.0		SW-SM	SAND with silt and gravel (SW-SM): Dark Yellowish Brown (10YR 4/6); damp; 75% fine to very coarse grained sand, 15% subangular to rounded fine gravel, 10% silt.		
1230	36									
	37									
	38									
	39									

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-2	Date(s):	**11/05/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1225	41			25 28 28	0.0		SW	SAND (SW): Dark Yellowish Brown (10YR 4/6); 85% fine to coarse grained sand, 10% subangular to subrounded fine gravel, 5% silt.		
	42 43 44									
1220	45 46			25 26 28	3.7		SW-SM	SAND with silt (SW-SM): Dark Yellowish Brown (10YR 4/6); damp; 80% fine to coarse grained sand, 10% silt, 10% subangular to subrounded fine gravel. At 46.4 feet: Dark Yellowish Brown (10YR 3/6) lens.		
	47 48 49									
1215	50 51			28 30 35	4.0		SW	SAND (SW): Black (10YR 2/1); damp; 85% fine to coarse grained sand, 10% angular to rounded fine gravel, 5% silt. From 51 feet: Color change to Very Dark Brown (7.5YR 2.5/3)		
	52 53 54									
1210	55 56 57 58 59			8 12 18 9 9 12 12 14 16	3.3 3.7 3.6		SW SM	SAND with gravel (SW): Yellowish Brown (10YR 5/4); damp; 85% fine to coarse grained sand, 15% subangular to rounded fine gravel, trace silt. From 57.5 feet: 80% fine to coarse grained sand, 20% subangular to rounded fine gravel. SILTY SAND (SM): Dark Yellowish Brown (10YR 4/6); saturated; 80% fine to medium grained sand, 20% silt, trace subangular to subrounded fine gravel.	▼	

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-2	Date(s):	**11/05/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1205	61			14, 16, 18			SM	From 61 feet: 15% silt, 5% subangular to subrounded fine gravel.		
	62			18, 19, 21	4.2					
	63			20, 21, 24			SW	SAND (SW): Light Olive Brown (2.5Y 5/4); saturated; 95% fine to coarse grained sand, 5% subrounded to rounded fine gravel, trace silt.		
	64							From 64.5 feet: 90% fine to coarse grained sand, 10% subrounded to rounded fine gravel.		
	65			13, 14, 18	2.9			From 65.3 feet: 95% fine to very coarse grained sand, 5% subrounded to rounded fine gravel, trace silt.		
1200	66									
	67			16, 19, 21			SW	SAND with gravel (SW): Light Olive Brown (2.5Y 5/4); saturated; 80% fine to very coarse grained sand; 20% subangular to rounded fine gravel.		
	68			15, 15, 18			ML	SANDY SILT (ML): Yellowish Brown (10YR 5/4); saturated; 55% silt, 45% fine to medium grained sand.		
	69				0.9		SW	SAND (SW): Light Olive Brown (2.5Y 5/4); saturated; 100% fine to coarse grained sand. From 69 feet: Sand size increases to fine to very coarse grained sand.		
	70			14, 18, 21						
1195	71							Boring terminated at 71.5 feet bgs. Groundwater encountered at 60 feet bgs.		

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

RAMBOLL	Site ID: **MW-3**	Date(s): **11/04/2019**	
	Location: **15825 Roxford Street, Sylmar, California 91432**		
	Logged By: **B. Jamison**	Checked By: **A. Manion, PG**	
Contractor: **ABC Liovin Drilling**	Purpose: **Phase II Assessment**	Total Depth: **75.5 feet**	
Drilling Method: **Hollow Stem Auger**	TOC Elevation: **1260.21 feet amsl**	GS Elevation: **1259.65 feet amsl**	
Sampling Method: **Split Spoon**	X Coordinate: **6416835.303 feet**	Y Coordinate: **1934861.715 feet**	

Well Construction:

Blank Casing: **Schedule 40 PVC** **0.5 feet to 60 feet bgs**

Screen: **Schedule 40 PVC 0.020" Slot** **60 feet to 75 feet bgs**

Annular Fill: **Bentonite-Cement Grout** **1 foot to 55 feet bgs**
Bentonite Chip Seal **55 feet to 58 feet bgs**
Sand #3 **58 feet to 75 feet bgs**

Borehole Diameter: **8.25 inches**

Project Number: **1690014992**

Project Name: **L3Harris Technologies**

Remarks:
Boring logged at five foot intervals from ground surface to 50 feet below ground surface (bgs) and continuously from 50 bgs to total depth.

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1260	1, 2, 3, 4							Boring cleared with hand auger to 5 feet bgs.		
1255	5, 6				0.3		SM	SILTY SAND (SM): Olive Yellow (2.5Y 6/6); damp; 75% fine grained sand, 25% silt, trace fine rounded gravel.		
	7, 8, 9									
1250	10, 11			15 20 25	0.0		SW-SM	SAND with silt (SW-SM): Olive Yellow (2.5Y 6/8); damp; 85% fine to coarse grained sand, 10% silt, 5% fine subangular to rounded gravel.		
	12, 13, 14									
1245	15, 16			20 20 30	0.0		ML	SANDY SILT with clay (ML): Very Dark Grayish Brown (2.5Y 3/2); moist; 65% low plasticity fines, 35% fine to medium grained sand, trace fine subangular gravel.		
	17, 18, 19									

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-3	Date(s):	**11/04/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1240	21			15 20 21	0.2		ML	CLAYEY SILT with sand (ML): Dark Brown (10YR 3/3); moist; 85% low plasticity fines, 15% fine to medium grained sand; trace iron oxide staining; faint organic odor.		
	22									
	23									
	24									
1235	25			15 15 20	0.0		ML	CLAYEY SILT with sand (ML): Brown (7.5YR 4/4); moist; 85% low plasticity fines, 15% fine to medium grained sand; trace iron oxide staining; faint organic odor.		
	26									
	27									
	28									
	29									
1230	30			15 18 20	0.0		SM	SILTY SAND (SM): Dark Yellowish Brown (10YR 4/6); moist; 85% fine to medium grained sand, predominantly fine, 15% silt, trace rounded fine gravel.		
	31									
	32									
	33									
	34									
1225	35			12 14 16	0.0		SW-SM	SAND with silt and gravel (SW-SM): Dark Yellowish Brown (10YR 4/6); moist; 75% fine to very coarse grained sand, 15% subangular to rounded fine to coarse gravel, 10% silt.		
	36									
	37									
	38									
	39									

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-3	Date(s):	**11/04/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1220	41			12 14 25	0.0		SP	SAND (SP): Yellowish Brown (10YR 5/8); damp to moist; 90% fine to medium grained sand, 5% silt, 5% subangular to subrounded fine gravel.		
	42									
	43									
	44									
1215	45			12 16 21	0.0		SP	SAND (SP): Very Dark Brown (7.5YR 2.5/2); moist; 85% fine to medium grained sand, 10% angular to subrounded fine gravel, 5% silt.		
	46									
	47									
	48									
	49									
1210	50			50			ML	Coarse gravel plugged up split spoon, resulting in limited recovery. SANDY SILT (ML) cemented lens. No recovery.		
	51			50 50						
	52			50 20	0.0		SM	SILTY SAND (SM): Light Olive Brown (2.5Y 5/3); moist; 80% fine to coarse grained sand, predominantly fine, 15% silt, 5% subangular to rounded fine gravel. From 52.2 feet: Dark Yellowish Brown (10YR 4/6); 80% fine to medium grained sand, 20% silt, trace rounded fine gravel.		
	53			20 25						
	54			20 20						
				25						
1205	55			30				From 55 feet: 85% fine to medium grained sand, 15% silt.		
	56			25 25	0.0					
	57			30 20				From 57 feet: 80% fine to medium grained sand, 15% silt, 5% subangular fine gravel.	▼	
	58			22 25						
	59			15 20 25						

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-3	Date(s):	**11/04/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
1200				20			SM	From 60 feet: 80% fine to coarse grained sand, 15% silt, 5% subrounded to rounded gravel.		
	61			18	0.0			From 61.5 feet: 75% fine to medium grained sand, 25% silt, trace subangular to subrounded fine gravel.		
				20						
	62			21						
				15						
	63			20						
				25				At 63 feet: lens of sand (SW): saturated, fine to coarse grained sand.		
				10				From 63.2 feet: saturated; 80% fine to coarse grained sand, 15% silt, 5% subrounded to rounded gravel.		
	64			10			SW	SAND (SW): Light Olive Brown (2.5Y 5/4); saturated; 95% fine to coarse grained sand, 5% subrounded to rounded fine gravel, trace silt.		
				15						
1195	65			20			SW	SAND with gravel (SW): Light Olive Brown (2.5Y 5/4); saturated; 85% fine to very coarse grained sand, 15% subangular to rounded fine gravel, trace silt.		
				10	0.1					
	66			12						
				14				From 66.5: increasing gravel content to 20%.		
	67			9						
				9						
	68			11			SW	SAND (SW): Light Olive Brown (2.5Y 5/4); saturated; 100% fine to coarse grained sand.		
				8			GW			
	69			9			SW	GRAVEL with sand (GW): Light Olive Brown (2.5Y 5/4); saturated; 60% subangular to rounded fine gravel, 40% fine to very coarse grained sand.		
				11						
1190	70			14				SAND with gravel (SW): Light Olive Brown (2.5Y 5/4); saturated; 85% fine to very coarse grained sand, 15% subangular to rounded fine gravel.		
				8	0.0					
	71			9						
				12			SW	SAND (SW): Light Olive Brown (2.5Y 5/4); saturated; 90% fine to very coarse grained sand, 10% subangular to subrounded fine gravel.		
	72			7						
				7						
	73			8			SM	At 72.8 feet: lens of SILTY SAND (SM); saturated; 80% fine to very coarse grained sand, 15% silt, 5% subangular to subrounded gravel.		
				9				From 73 to 75.5 feet: Soil not available for logging.		
	74			9						
				11						
1185	75			12						
								Boring terminated at 75.5 feet bgs. Groundwater encountered at 63 feet bgs.		

Sample Graphics

No Recovery
Fill reflects sample type

Standard Split Spoon

Hand Auger

First encountered ground water

Static ground water

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

RAMBOLL		Site ID: **MW-4**	Date(s): **11/14/2019**
		Location: **15825 Roxford Street, Sylmar, California 91432**	
		Logged By: **B. Jamison**	Checked By: **A. Manion, PG**
Contractor:	**ABC Liovin Drilling**	Purpose: **Phase II Assessment**	Total Depth: **90.0 feet**
Drilling Method:	**Hollow Stem Auger**	TOC Elevation: **1267.96 feet amsl**	GS Elevation: **1267.64 feet amsl**
Sampling Method:	**Split Spoon**	X Coordinate: **6416522.226 feet**	Y Coordinate: **1934461.017 feet**

Well Construction:

Blank Casing: **Schedule 40 PVC** **0.5 feet to 58 feet bgs**

Screen: **Schedule 40 PVC 0.010" Slot** **58 feet to 78 feet bgs**

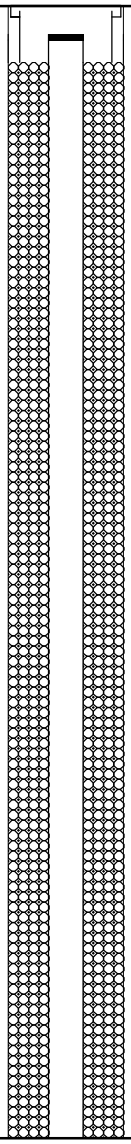
Annular Fill: **Bentonite-Cement Grout** **1 foot to 52 feet bgs**
Bentonite Chip Seal **52 feet to 55 feet bgs**
Sand #2/12 **55 feet to 79 feet bgs**

Borehole Diameter: **8.25 inches**

Project Number: **1690014992**

Project Name: **L3Harris Technologies**

Remarks:
Boring logged continuously from 73 bgs to total depth.

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
								Boring cleared with vacuum excavation to 9 feet bgs.		
	1									
	2									
1265	3									
	4									
	5									
	6									
	7									
1260	8									
	9							Boring drilled with hollow stem auger drill rig to total depth.		
	10									
	11									
	12									
1255	13									
	14									
	15									
	16									
	17									
1250	18									
	19									

Standard Split Spoon

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-4	Date(s):	**11/14/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
	21									
	22									
1245	23									
	24									
	25									
	26									
	27									
1240	28									
	29									
	30									
	31									
	32									
1235	33									
	34									
	35									
	36									
	37									
1230	38									
	39									

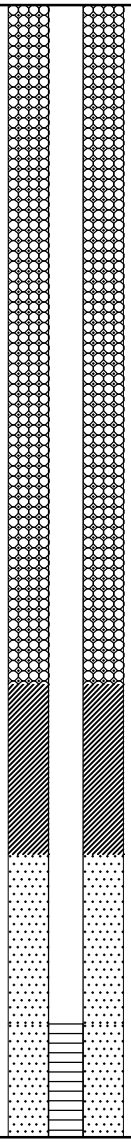
Standard Split Spoon

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-4	Date(s):	**11/14/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
	41									
	42									
1225	43									
	44									
	45									
	46									
	47									
1220	48									
	49									
	50									
	51									
	52									
1215	53									
	54									
	55									
	56									
	57									
1210	58									
	59									



Standard Split Spoon

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-4	Date(s):	**11/14/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
	61									
	62									
1205	63									
	64									
	65									
	66									
	67									
1200	68									
	69									
	70									
	71									
	72									
1195	73						ML	SANDY SILT (ML): Very Dark Brown; damp; 60% low plasticity fines, 40% fine grained sand.		
	74									
								From 74.5 to 75 feet: Soil not available for logging.		
	75			7			SM	SILTY SAND (SP): Very Dark Brown; damp; 60% fine grained sand, 40% low plasticity fines.		
	76			7 9						
	77			6 8						
1190	78			10 7				From 77.5 feet: Dark Brown; damp; 75% fine to medium grained sand, 25% silt.		
	79			9 11						
				12			ML	SANDY SILT (ML): Very Dark Grayish Brown; damp; 70% low		

Standard Split Spoon

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

Site ID:	MW-4	Date(s):	**11/14/2019**
Project Number:	**1690014992**	Project Name:	**L3Harris Technologies**

Elevation (ft)	Depth (ft)	Sample Interval	Sample No.	Blow Count	PID (ppm)	Graphic Log	Material Code	Material Description	Water Level	Well Construction
				12			ML	plasticity fines, 30% fine grained sand. From 80 feet: slightly moist; 65% low plasticity fines, 35% fine grained sand.		
	81			14						
				16						
	82			9						
				12						
1185	83			17						
				9						
	84			9						
				12						
	85			17						
				9				From 85 feet: Soil grades to 50% fine grained sand; 50% silt.		
	86			9						
				12						
	87			7				From 86.5 feet: damp; 75% low plasticity fines, 25% fine grained sand.		
				10						
				12						
1180	88			9			SM	SILTY SAND (SM): Very Dark Grayish Brown; damp; 70% fine grained sand, 30% silt.		
				9						
	89			14						
				16						
	90							Boring terminated at 90 feet bgs. Soil collapsed to 79 feet. Sand backfilled to 78 feet and monitoring well set. Groundwater not encountered during drilling or in monitoring well.		

Standard Split Spoon

'=feet
"=inches

Report: RAINBOW WELL LOG WELL ABOVE2; File: MW-1 TO MW-4 LOGS.GPJ; 12/10/19; Library NEW LOGO LIBRARY.GLB

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
15825 Roxford St	Sylmar	91342	bjamison@rambol.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- ***ONCE APPROVED NOTIFY BELINDA LARSEN AT blarsen@ph.lacounty.gov PREFERABLY 4 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.***

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X WORK PLAN APPROVED SR0202169 (4 MW Constructions) DATE: 10-29-2019

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Monitoring Well constructions must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11. As discussed, ensure a minimum 20 ft. upper annular sanitary seal.
- Notify me by e-mail prior to start of field work at blarsen@ph.lacounty.gov
- Drillers shall submit their well completion reports to the Department of Water Resources through the Online System of Well Completion Reports (OSWCR) at https://civicnet.resources.ca.gov/DWR_WELLS.

5838
Belinda Larsen R.E.H..S
818-593-7308

□ ANNULAR SEAL FINAL INSPECTION REQUIRED	□ WELL COMPLETION LOG REQUIRED
DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature

□ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED	□ WATER QUALITY—CHEMICAL STANDARDS REQUIRED
DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature

□ WATER SUPPLY YIELD REQUIRED	□ OTHER REQUIREMENT
DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
15825 Roxford St	Sylmar	91342	bjameson@rambol.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 8 Soil Borings/Exp. Holes	**PERMIT NUMBER:**	SR0202173	**DATE:**	10-29-2019

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Ensure the boring/exploration hole is backfilled within 24 hours of boring construction.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.

APPROVED BY:

Belinda Larsen, REHS
21515 Vanowen St. Ste. 116
Canoga Park, Ca 91303
(818) 593-7308

5838

APPENDIX B
WELL DEVELOPMENT LOGS

RAMBOLL

WELL DEVELOPMENT

METHOD(S)	PUMP	BAILER	SURGE BLOCK
TYPE	Proactive Typhoon	Check Valve Bailer	SS Surge Block with check valve
MATERIAL	PVC	SS	SS
DIMENSION	2in	2in	2in
OTHER			

PROJECT	L3Harris-Sylmar
WELL NO.	MW-1
JOB NO.	169001 4992
SITE	Sylmar, CA
PREPARED BY	P. Vargas
DEVELOPMENT CRITERIA	Surge Block / Bailer / Pump
DECONTAMINATION METHOD	Hotwater + Liquinox

HOLE DIAMETER d_h = 8 in

WELL CASING

INSIDE DIAMETER d_w = 2 in

CASING STICKUP SU = 0.5 ft

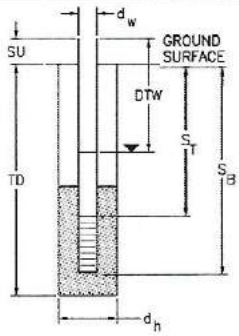
DEPTH TO:

WELL LEVEL DTW = 38.63 ft

TOP SCREEN $SU+S_T$ = 48.5 ft

BASE SCREEN $SU+S_g$ =

BOTTOM WELL SU+TD = 64 ft



CASING VOLUME CALCULATION (USE CONSISTENT UNITS)

CASING VOLUME = $V_C = \pi(\frac{d_w}{2})^2$ (TD−H) = ~13 gallons

FIELD EQUIPMENT CALIBRATIONS

EQUIPMENT MODEL/TYPE	Horiba U52		
SERIAL NO.			
DATE CALIBRATED	11/18/19		
TEMP (°C)			
STANDARD/ACTUAL			

DEVELOPMENT LOG:

DATE	TIME BEGIN	TIME FINISH	METHOD	WATER REMOVED (gal)	CUMULATIVE TOTAL REMOVED GAL.	CUMULATIVE TOTAL REMOVED CASING VOLUMES	WATER CHARACTER pH	CONDUCTIVITY	TEMP.(C°)	TURBIDITY	COMMENTS:
11/18/19	0855	0855	—	Measure	DTW and TD						DTW 36.68 ft, TD 63.25 ft
	0858	0928	—	Surge well screen interval							
	0959	1005	BAILER	1.25							
	1020		PUMP	—							DTW 40.38 ft
	1029										DTW 48.00 ft; cloudy water
	1040										DTW 54.00 ft after pumping
	1057			5							for ~2 minute @ flow rate =
	1058	— Paused pumping and let well recharge									0.25 gal/min
	1102	— Resumed pumping for 2 minutes —									Pumped well dry @ 1057
	1104	— Well went dry; well recharged for 10 min									0.5 gallons of water removed
	1117	— Resumed pumping, well went dry @ 1118									1.5 gallons of water removed
	1118	— Well recharged until 1134 —									
	1138	— Resumed pumping until 1140 —									2.5 gallons of water removed
	1158	— Measure DTW after 18 min without pumping									DTW 60.81 ft
	1258	— Let well recover for 1 hour and measure DTW									DTW 57.38 ft, DTW 55.2 ft @ 1336
	1339	— Restart pumping; water is clear —									Well went dry @ 1341 (murky water)
	1342						5.92	0.901	24.88	124	Pump paused until 1428 (murky water)
	1431						5.90	0.751	23.37	>1000	Well went dry @ 1430 (21.8 gallons removed)
	1551	— Restart pumping; water is slightly cloudy									DTW 57.35 ft @ 1549
	1554						7.17	0.675	24.35	215	water is relatively clear; well dry @ 1455
	1556	— Well MW-1 developed —									Total of 24.6 gallons of water removed. (one 55-gallon drum)

1607 — Final DTW 60.70 ft; TD 63.26 ft —

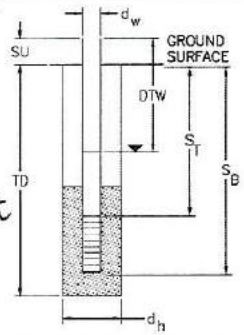
RAMBOLL

WELL DEVELOPMENT

METHOD(S)	PUMP	BAILER	SURGE BLOCK
TYPE	Proactive Typhoon	Ball Bailer	SS Surge Block with check valve
MATERIAL	PVC	SS	SS
DIMENSION	2in	2in	
OTHER			

PROJECT: L3 Harris-Sylmar
WELL NO.: MW-2
JOB NO.: 1690014992
SITE: Sylmar, CA
PREPARED BY: F. Vargas
DEVELOPMENT CRITERIA: Surge Block/Bailer/Pump
DECONTAMINATION METHOD:

HOLE DIAMETER d_h = 8 in
WELL CASING
INSIDE DIAMETER d_w = 2 in
CASING STICKUP SU = 0.5 ft
DEPTH TO:
WELL LEVEL DTW = 57.70 ft
TOP SCREEN $SU+S_T$ = 55.5 ft
BASE SCREEN $SU+S_g$ =
BOTTOM WELL SU+TD = 71 ft



CASING VOLUME CALCULATION (USE CONSISTENT UNITS)

CASING VOLUME = $V_C = \pi(\frac{d_w}{2})^2$ (TD−H) = ~7 gallons

1 casing volume ~ 2.2 gallons

FIELD EQUIPMENT CALIBRATIONS

EQUIPMENT MODEL/TYPE	Horiba U52		
SERIAL NO.			
DATE CALIBRATED	11/08/19		
TEMP (°C)			
STANDARD/ACTUAL			

DEVELOPMENT LOG:

DATE	TIME BEGIN	TIME FINISH	METHOD	WATER REMOVED (gal)	CUMULATIVE TOTAL REMOVED GAL.	CUMULATIVE TOTAL REMOVED CASING VOLUMES	WATER CHARACTER pH	CONDUCTIVITY mS/cm	TEMP.(C°)	TURBIDITY	COMMENTS:
11/8/19	1230	1230	—	—	Measure DTW and TD					—	DTW 57.58 ft; TD 69.11 ft
	1238	1259	SURGE	—	Surge screen interval					—	
	1303	1315	BAILER	5	5						
	1318		PUMP	—							DTW 57.64 ft (right before turning on the pum
	1332			10.5	15.5		7.91	1.28	25.83	459	Murky water @ 1320; pumprate 0.75 gal/mi
	1337						7.79	1.29	25.42	685	Cloudy water @ 1324
	1342				23		7.78	1.29	24.73	86.6	Second 55-gallon drum full
	1347						7.80	1.29	24.39	49.1	
	1352						7.76	1.31	24.29	51.5	Clear water
	1357						7.77	1.32	24.28	17.2	
	1402						7.78	1.32	24.04	10.6	
	1407				80.75		7.74	1.33	24.54	17.0	
	1412				84.5		7.76	1.33	23.97	41.3	pump rate 0.6 gal/min
	1417				87.5		7.78	1.32	24.70	767	pump set in the middle of the
	1428						7.84	1.35	23.91	208	well screen
	1433						7.67	1.34	23.47	101	cloudy water
	1438						7.52	1.36	23.82	81.6	
	1443						7.51	1.34	23.69	9.1	Clear water
	1448						7.62	1.34	23.23	0.8	Turbidity below 5 NTU
11/8/19	1453		PUMP		109.1		7.59	1.34	23.42	0.0	
											Final DTW 57.72 ft; TD 70.25 ft

FILE: LOG FORMS\Well Development

Total volume purged = 109.1 gallons
23 gallons in second 55-gallon drum +
86.1 gallons in third drum

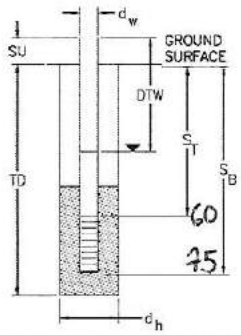
RAMBOLL

WELL DEVELOPMENT

METHOD(S)	PUMP	BAILER	SURGE BLOCK
TYPE	Proactive Typhoon	Ball Bailer	SS Surge Block
MATERIAL	PVC	SS	SS
DIMENSION	2 in	2 in	
OTHER			

PROJECT: L3 Harris - Sylmar
WELL NO.: MW-3
JOB NO.: 1690014992
SITE: Sylmar, CA
PREPARED BY: P. Vargas
DEVELOPMENT CRITERIA: Surge Block / Bailer / Pump
DECONTAMINATION METHOD:

HOLE DIAMETER d_h = 8 in
WELL CASING
INSIDE DIAMETER d_w = 2 in
CASING STICKUP SU = 0.5 ft
DEPTH TO:
WELL LEVEL DTW = 57.75 ft
TOP SCREEN $SU+S_T$ = 60.5 ft
BASE SCREEN $SU+S_B$ =
BOTTOM WELL SU+TD = 80 ft



CASING VOLUME CALCULATION (USE CONSISTENT UNITS)
CASING VOLUME = $V_C = \pi(\frac{d_w}{2})^2$ (TD−H) = ~9 gallons
1 casing volume ~ 3 gallons

FIELD EQUIPMENT CALIBRATIONS

EQUIPMENT MODEL/TYPE	Horiba U52		
SERIAL NO.			
DATE CALIBRATED	11/08/19		
TEMP (°C)			
STANDARD/ACTUAL			

DEVELOPMENT LOG:

DATE	TIME BEGIN	TIME FINISH	METHOD	WATER REMOVED (gal)	CUMULATIVE TOTAL REMOVED GAL.	CUMULATIVE TOTAL REMOVED CASING VOLUMES	WATER CHARACTER pH	CONDUCTIVITY	TEMP. (C°)	TURBIDITY	COMMENTS
11/8/19	0853	0853	—	Measure DTW and TD					—	—	DTW=57.72 ft; TD=74.45 ft
	0903	0928	SURGE	—	Surge screen interval					—	
	0930	0945	BAILER	6.75	6.75						
	1020		PUMP	—							DTW 58.76 ft (right before turning on the pump); water is cloudy
	1141				73		7.85	1.08	22.65	125	
	1146				78		7.85	0.996	22.63	40.7	water is clear @ 1100
	1151				83		7.87	1.01	22.75	11.0	Stopped pumping @ 1130
	1156				88		7.82	1.02	22.54	7.1	restarted pumping @ 1139
	1201				93		7.78	1.02	22.71	4.4	
11/8/19	1206		PUMP		98		7.76	1.01	23.12	4.0	Turbidity below 5 NTU

COMMENTS: P. Vargas leaves site to pick up a calibrated Horiba U52 from Field Environmental after calling T. Knapp. and receiving approval to do so. P. Vargas back on site @ 1130

Final DTW 57.94 ft
Final TD 75.45 ft (top of the well casing)
Total volume purged 107.75 gallons
Stopped pumping @ 1209 (101 gallons purged during pumping)
Total of one full 55-gal drum + ~3/4 of second 55-gal drum

APPENDIX C
GROUNDWATER PURGE AND SAMPLE LOGS

RAMBOLL ENVIRON

LOW FLOW WATER PURGING AND SAMPLING LOG

PROJECT NAME: L3Harris
PROJECT NUMBER: 1169001492
PROJECT LOCATION: Sylmar, CA
FIELD PERSON: B. Jamison
PROJECT MANAGER: T. Knapp
DATE: 11/21/2019

SAMPLE ID	FINAL PURGE VOLUME	START TIME	END TIME	START DTW	END DTW	WELL DIAMETER	WELL NUMBER
MW-1-191121	5400	1205	1229	37.11	37.28	2"	MW-1

TIME	PURGE VOLUME	PH	COND. (ms/cm)	TURBIDITY (NTU)	Do_2 (mg/L)	TEMP. (C°)	SAL %	TDS (g/L)	ORP (MV)	PURGE RATE (mL/min)	COMMENTS/CONTROL INSTRUCTIONS	DTW
1208	600	8.21	660	134	6.15	21.5	0.32	0.45	209.2	200		37.28
1211	1200	7.97	676	184	6.44	21.7	0.33	0.46	210.2			37.28
1214	1800	7.76	675	99	6.02	21.6	0.33	0.45	213.0			37.28
1217	2400	7.55	661	79	6.03	21.6	0.32	0.44	223.3			37.28
1220	3600	7.66	661	68	5.96	21.8	0.32	0.44	215.5			37.28
1223	4200	7.69	660	61	5.93	21.8	0.32	0.44	214.6			37.28
1226	4800	7.71	661	59	5.96	21.7	0.32	0.44	211.7			37.28
1229	5400	7.74	662	57	5.91	21.7	0.32	0.44	211.2			37.28

CONTROLLER SETTINGS	PUMP DEPTH	WELL CHARACTERISTICS	SAMPLE TIME
10/20 35 PSI	53'	Screen=48'-63' TD=63'	1230
			SAMPLE DTW 37.28

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2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 (602) 734-7700 | (602) 734-7701 Fax

RAMBOLL ENVIRON

LOW FLOW WATER PURGING AND SAMPLING LOG

PROJECT NAME: L3 Harris
FIELD PERSON: B. Jamison
PROJECT NUMBER: 16900 14992
PROJECT MANAGER: T. Knapp
PROJECT LOCATION: Sylmar, CA
DATE: 11/21/2019

SAMPLE ID	FINAL PURGE VOLUME	START TIME	END TIME	START DTW	END DTW	WELL DIAMETER	WELL NUMBER
MW-2-191121	9600	1044	1132	57.82	57.93	2"	MW-2

TIME	PURGE VOLUME	PH	COND. (ms/cm)	TURBIDITY (NTU)	Do (mg/L)	TEMP. (C°)	SAL %	TDS (g/L)	ORP (MV)	PURGE RATE (mL/min)	COMMENTS/CONTROL INSTRUCTIONS	DTW
1047	600	7.18	1293	>1000	2.48	23.0	0.88	0.65	205.7	200	very turbid	57.91
1050	1200	7.05	1297	>1000	2.76	23.1	0.88	0.65	205.5			~~57.98~~ ~~58.98~~ 57.92
1053	1800	6.96	1291	>1000	2.89	22.6	0.87	0.64	208.3			57.92
1056	2400	6.94	1290	>1000	2.87	22.8	0.87	0.64	209.1			57.92
1059	3000	6.94	1286	>1000	2.84	23.0	0.87	0.64	210.6			57.93
1102	3600	6.95	1285	>1000	3.08	23.0	0.87	0.64	211.2			57.93
1105	4200	6.95	1289	934	3.12	23.0	0.87	0.64	211.7			57.93
1108	4800	6.96	1288	589	3.00	23.2	0.87	0.64	212.5			57.93
1111	5400	6.96	1295	408	2.86	23.4	0.88	0.65	212.6			57.93
1114	6000	6.96	1299	329	2.99	23.3	0.88	0.65	212.8			57.93
1117	6600	6.96	1299	290	3.02	23.0	0.88	0.65	213.0			57.93
1120	7200	6.97	1302	226	3.05	23.2	0.88	0.65	213.8			57.93
1123	7800	6.97	1305	160	3.06	23.2	0.88	0.65	214.1			57.93
1126	8400	6.98	1307	142	3.04	23.1	0.88	0.65	215.6			57.93

CONTROLLER SETTINGS	PUMP DEPTH	WELL CHARACTERISTICS	SAMPLE TIME
10/20 40 PSI	60'	Screen = 55'-70' TD = 70'	1133
			SAMPLE DTW 57.93

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RAMBOLL

LOW FLOW WATER PURGING AND SAMPLING LOG

PROJECT NAME: L3 Harris

FIELD PERSON: B. Jamison

PROJECT NUMBER: 1690014992

PROJECT MANAGER: T. Knapp

PROJECT LOCATION: Sylmar, CA

DATE: 11/21/19

SAMPLE ID	FINAL PURGE VOLUME	START TIME	END TIME	START DTW	END DTW	WELL DIAMETER	WELL NUMBER
MW-2-191121	9600	1044	1132	57.82	57.93	2"	MW-2

TIME	PURGE VOLUME	PH	COND. (ms/cm)	TURBIDITY (NTU)	Do□ (mg/L)	TEMP. (C°)	SAL %	TDS (g/L)	ORP (MV)	PURGE RATE (mL/min)	COMMENTS/CONTROL INSTRUCTIONS	DTW
1129	9000	6.98	1312	134	3.00	23.2	0.89	0.66	213.9	200		57.93
1132	9600	6.97	1312	129	3.02	23.2	0.89	0.66	213.9	↓		57.93

BOJ 11/21/19

CONTROLLER SETTINGS	PUMP DEPTH	WELL CHARACTERISTICS	SAMPLE TIME
10/20 40 PSI	60	Screen - 55'-70' TD - 70'	1133
			SAMPLE DTW 57.93

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2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 (602) 734-7700 | (602) 734-7701 Fax

RAMBOLL

LOW FLOW WATER PURGING AND SAMPLING LOG

PROJECT NAME: L3Harris
PROJECT NUMBER: 1690014992
PROJECT LOCATION: Sylmar, CA

FIELD PERSON: B. Jamison
PROJECT MANAGER: T. Knapp
DATE: 11/21/2019

SAMPLE ID	FINAL PURGE VOLUME	START TIME	END TIME	START DTW	END DTW	WELL DIAMETER	WELL NUMBER
MW-3-191121	13200	0854	1000	57.84	58.00	2"	MW-3

TIME	PURGE VOLUME (mL)	PH	COND. (ms/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMP. (C°)	SAL %	TDS (g/L)	ORP (MV)	PURGE RATE (mL/min)	COMMENTS/CONTROL INSTRUCTIONS	DTW
0857	600	7.45	1427	71000	1.02	21.6	0.72	0.97	193.9	200		~~57.81~~ ~~58.81~~
0900	1200	7.32	1439	71000	0.84	21.4	0.72	0.97	192.1			58.00
0903 ~~0903~~	1800	7.29	1442	71000	0.84	21.7	0.72	0.97	190.6			58.00
0906	2400	7.28	1440	71000	1.04	21.7	0.72	0.97	189.7			58.00
0909	3000	7.28	1440	71000	0.94	21.7	0.72	0.97	188.8			58.00
0912	3600	7.27	1439	71000	1.05	21.8	0.72	0.97	187.8			58.00
0915	4200	7.29	1440	71000	0.98	21.8	0.72	0.97	188.7			58.00
0918	4800	7.28	1443	71000	0.99	21.8	0.72	0.97	187.4			58.00
0921	5400	7.28	1442	71000	1.04	21.9	0.72	0.97	182.0 ~~187.0~~			58.00
0924	6000	7.28	1445	71000	1.07	21.8	0.72	0.97	187.3			58.00
0927	6600	7.28	1445	944	1.03	21.9	0.72	0.97	187.5			58.00
0930	7200	7.29	1445	821	1.03	22.0	0.73	0.98	189.0			58.00
0933	7800	7.28	1443	643	1.05	22.0	0.73	0.97	189.7			58.00
0936	8400	7.26	1438	431	1.07	22.1	0.72	0.97	191.0			58.00

CONTROLLER SETTINGS	PUMP DEPTH	WELL CHARACTERISTICS	SAMPLE TIME
10/20 45 PSI	65'	screen = 60'-75' TD = 75'	1001
			SAMPLE DTW 58.00

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RAMBOLL

LOW FLOW WATER PURGING AND SAMPLING LOG

PROJECT NAME: L3Harris
FIELD PERSON: B. Jamison
PROJECT NUMBER: 1690014592
PROJECT MANAGER: T. Kapp
PROJECT LOCATION: Sylmar, CA
DATE: 11/21/19

SAMPLE ID	FINAL PURGE VOLUME	START TIME	END TIME	START DTW	END DTW	WELL DIAMETER	WELL NUMBER
MW-3-191121	13200	0854	1000	57.84	58.00	2"	MW-3

TIME	PURGE VOLUME	PH	COND. (ms/cm)	TURBIDITY (NTU)	Do□ (mg/L)	TEMP. (C°)	SAL %	TDS (g/L)	ORP (MV)	PURGE RATE (mL/min)	COMMENTS/CONTROL INSTRUCTIONS	DTW
0939	9000	7.24	1430	391	1.05	22.0	0.72	0.97	194.3	200		58.00
0942	9600	7.23	1429	316	1.05	22.0	0.72	0.97	195.8			58.00
0945	10200	7.25	1427	260	1.07	22.1	0.72	0.97	196.4			58.00
0948	10800	7.24	1425	257	1.04	22.1	0.72	0.97	198.7			58.00
0951	11400	7.23	1424	220	1.05	22.1	0.72	0.97	200.6			58.00
0954	12000	7.23	1424	153	1.06	22.2	0.72	0.97	201.4			58.00
0957	12600	7.22	1422	149	1.04	22.1	0.72	0.97	202.9		Duplicate taken	58.00
1000	13200	7.22	1423	144	1.07	22.1	0.72	0.97	203.9		MW-100-191121@1009	58.00
							BEJ					
							11/21/19					

CONTROLLER SETTINGS	PUMP DEPTH	WELL CHARACTERISTICS	SAMPLE TIME
10/20 45PSI	65ft	Screen = 60'-75' TD 75'.	1001
			SAMPLE DTW 58.00

Office Locations: 5 Park Plaza, Suite 500, Irvine, CA 92614 | (949) 261-5151 | (949) 261-6202 Fax
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APPENDIX D
LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 November 2019

Colby Wakeman
Jones Environmental
11007 Forest Place
Santa Fe Springs, CA 90670

RE: Ramboll

Enclosed are the results of analyses for samples received by the laboratory on 11/06/19 14:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2-5-191105	T193871-01	Soil	11/05/19 08:46	11/06/19 14:55
MW-2-10-191105	T193871-02	Soil	11/05/19 08:55	11/06/19 14:55
MW-2-15-191105	T193871-03	Soil	11/05/19 09:02	11/06/19 14:55

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

DETECTIONS SUMMARY

Sample ID: MW-2-5-191105 **Laboratory ID:** T193871-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.12**	0.0010	mg/kg	EPA 7199	

Sample ID: MW-2-10-191105 **Laboratory ID:** T193871-02

No Results Detected

Sample ID: MW-2-15-191105 **Laboratory ID:** T193871-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.036**	0.0010	mg/kg	EPA 7199	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

MW-2-5-191105

T193871-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.12**	0.0010	mg/kg	1	9110705	11/07/19	11/07/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

MW-2-10-191105

T193871-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	ND	0.0010	mg/kg	1	9110705	11/07/19	11/07/19	EPA 7199	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

MW-2-15-191105

T193871-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.036**	0.0010	mg/kg	1	9110705	11/07/19	11/07/19	EPA 7199	

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Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9110705 - General Preparation										
Blank (9110705-BLK1)				Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	ND	0.0010	mg/kg							
LCS (9110705-BS1)				Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	9.24	0.0010	mg/kg	10.0		92.4	80-120			
Matrix Spike (9110705-MS1)		**Source: T193869-01**		Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	10.7	0.0010	mg/kg	10.0	3.06	76.2	75-125			
Matrix Spike Dup (9110705-MSD1)		**Source: T193869-01**		Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	12.5	0.0010	mg/kg	10.2	3.06	92.9	75-125	15.4	20	

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Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: ST-14588	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/11/19 13:02

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Jeff Lee, Project Manager

T193871

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11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Chain-of-Custody Record

LAB USE ONLY
Jones Project #
ST-14588
Page 1 of 1

Sample Condition as Recieved:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

3.6°C

Client: Ramboll
Project Name: Sylmar, CA
Project Address: 15825 Roxford St
Sylmar, CA 91342
Email: reports@jonesenv.com
Phone: 714-449-9937
Report To: Colby
Sampler: B. Jamison

Date: 11/6/2019
Client Project #: 1690014992

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge ____
*Global ID ____

Sample Container / Preservative Abbreviations
- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hexavalent Chrom	HOLD	HOLD PENDING ANALYSIS OF 5', 10', 15' SAMPLES								Number of Containers	Notes & Special Instructions
~~MW-300-I-191105~~	~~11/5/2019~~	~~07:00~~				~~S~~		~~X~~									~~1~~	
MW-2-5-191105	11/5/2019	08:46	01			S	X										1	
MW-2-10-191105	11/5/2019	08:55	02			S	X										1	
MW-2-15-191105	11/5/2019	09:02	03			S	X										1	
MW-2-20-191105	11/5/2019	09:05	04			S			X								1	

Total Number of Containers

Relinquished By (Signature)	Printed Name	Date	Time	Received By (Signature)	Printed Name	Date	Time
	Jonathan Zapata				Travis Berner		
Company: JONES		11-6-19	1403	Company: SunStar Labs		11-6-19	14:03
Relinquished By (Signature)	Printed Name	Date:	Time	Received By Laboratory (Signature)	Printed Name		
	Travis Berner				Sunny		
Company: SunStar Labs		11-6-19	14:55	Company: SunStar		11-6-19	14:55

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

SunStar Laboratories

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T 193871

Client Name: Jones Project: Sylmar, CA

Delivered by: ☐ Client ☑ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Travis Date/Time Courier Received: 11-6-19 14:03

Lab Received by: Sunny Date/Time Lab Received: 11-6-19 14:55

Total number of coolers received: 0 Thermometer ID: [illegible] Correction factor: [illegible]

Temperature:	Cooler #1	2.4 °C +/- the CF (+ 1.2°C)	=	3.6	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (+ 1.2°C)	=		°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers) Within criteria? ☑ **Yes** ☐ **No**

If NO:

Samples received on ice? ☐ Yes ☐ **No → Complete Non-Conformance Sheet**

If on ice, samples received same day collected? ☐ Yes → Acceptable ☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☑ N/A
Sample containers intact	☑ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☑ Yes	☐ No*	
Total number of containers received match COC	☑ Yes	☐ No*	
Proper containers received for analyses requested on COC	☑ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☑ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☑ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: TB 11-6-19

Comments:

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 11/6/2019 3:56:02PM

WORK ORDER

T193871

Client: Jones Environmental
Project: Ramboll
Project Manager: Jeff Lee
Project Number: ST-14588

Report To:
Jones Environmental
Colby Wakeman
11007 Forest Place
Santa Fe Springs, CA 90670

Date Due:	11/13/19 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	11/06/19 14:55
Logged In By:	Travis Berner	Date Logged In:	11/06/19 15:33

Samples Received at: **3.6°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T193871-01 MW-2-5-191105 [Soil] Sampled 11/05/19 08:46 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/13/19 15:00	5	12/05/19 08:46	
T193871-02 MW-2-10-191105 [Soil] Sampled 11/05/19 08:55 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/13/19 15:00	5	12/05/19 08:55	
T193871-03 MW-2-15-191105 [Soil] Sampled 11/05/19 09:02 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/13/19 15:00	5	12/05/19 09:02	
T193871-04 MW-2-20-191105 [Soil] Sampled 11/05/19 09:05 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

Reviewed By _____ Date _____

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805-399-0060

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**JEL Ref. No.:** **Client Ref. No.:**	ST-14588 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/5/2019 11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil & Water

ANALYSES REQUESTED

Soil:

1. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates
2. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals
3. EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Water:

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Approval:

David Mirakian, M.S.
Stationary Lab Chemist

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-2-5-191105**	**MW-2-10-191105**	**MW-2-15-191105**		
Jones ID:	**ST-14588-02**	**ST-14588-03**	**ST-14588-04**	**Reporting Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-2-5-191105**	**MW-2-10-191105**	**MW-2-15-191105**		
Jones ID:	**ST-14588-02**	**ST-14588-03**	**ST-14588-04**	**Reporting Limit**	**Units**
Analytes:					
trans-1,3-Dichloropropene	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	0.20	mg/kg
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	106%	109%	108%	60 - 140	
Toluene-d_8	98%	101%	101%	60 - 140	
4-Bromofluorobenzene	103%	107%	103%	60 - 140	
	VOC3-110719-01	VOC3-110719-01	VOC3-110719-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**110719-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**110719-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	104%	60 - 140
Toluene-d_8	99%	60 - 140
4-Bromofluorobenzene	100%	60 - 140
	VOC3-110719-01	

ND= Value less than reporting limit

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SANTA FE SPRINGS, CA 90670
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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN SOIL		**GC#:**	VOC3-110719-01		
Jones ID:	**110719-V3MS1**	**110719-V3MSD1**			**110719-V3CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	103%	105%	1.5%	60 - 140	102%	80 - 120
1,1-Dichloroethene	104%	104%	0.3%	60 - 140	115%	80 - 120
Cis-1,2-Dichloroethene	124%	119%	4.3%	70 - 130	113%	80 - 120
1,1,1-Trichloroethane	107%	103%	3.8%	70 - 130	109%	80 - 120
Benzene	111%	109%	1.9%	70 - 130	113%	80 - 120
Trichloroethene	105%	104%	1.6%	70 - 130	109%	80 - 120
Toluene	113%	110%	2.7%	70 - 130	116%	80 - 120
Tetrachloroethene	106%	103%	3.0%	70 - 130	110%	80 - 120
Chlorobenzene	111%	107%	3.7%	70 - 130	111%	80 - 120
Ethylbenzene	116%	110%	4.7%	70 - 130	118%	80 - 120
1,2,4 Trimethylbenzene	118%	113%	3.6%	70 - 130	121%	80 - 120
Gasoline Range Organics (C4-C12)	114%	111%	3.2%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	101%	104%		60 - 140	92%	60 - 140
Toluene-d_8	101%	101%		60 - 140	105%	60 - 140
4-Bromofluorobenzene	103%	104%		60 - 140	115%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **MW-2-5-191105** **Jones ID:** **ST-14588-02**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19110601	11/6/2019	11/8/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**85.9**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.3**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**6.3**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**13.5**	1	"	"	"	0.5	mg/kg
Copper, Cu	**7.9**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	**1.1**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**9.5**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.6**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**22.3**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**28.8**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19110601	11/6/2019	11/7/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **MW-2-10-191105** **Jones ID:** **ST-14588-03**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19110601	11/6/2019	11/8/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**81.9**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.1**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**3.6**	1	"	"	"	5.0	mg/kg
Chromium, Cr	**11.0**	1	"	"	"	0.5	mg/kg
Copper, Cu	**6.2**	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	**0.7**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**7.1**	1	"	"	"	0.5	mg/kg
Lead, Pb	**1.2**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.7**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**24.3**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19110601	11/6/2019	11/7/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **MW-2-15-191105** **Jones ID:** **ST-14588-04**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19110601	11/6/2019	11/8/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**63.0**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**0.9**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**3.9**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**10.4**	1	"	"	"	0.5	mg/kg
Copper, Cu	**6.6**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	**1.1**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**6.7**	1	"	"	"	0.5	mg/kg
Lead, Pb	**1.9**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**14.8**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**22.4**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19110601	11/6/2019	11/7/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **MW-2-20-191105** **Jones ID:** **ST-14588-05**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19110601	11/6/2019	11/8/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**76.1**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.2**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**5.4**	1	"	"	"	5.0	mg/kg
Chromium, Cr	**17.8**	1	"	"	"	0.5	mg/kg
Copper, Cu	**58.4**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	**2.0**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**10.9**	1	"	"	"	0.5	mg/kg
Lead, Pb	**5.5**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.3**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**33.3**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19110601	11/6/2019	11/7/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19110601** **Prepared:** 11/6/2019 **Analyzed:** 11/8/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
METHOD BLANK:	**I191106-MB1**						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					5.0	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					5.0	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19110601** **Prepared:** 11/6/2019 **Analyzed:** 11/8/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Units
LCS:	**I191106-LCS1**					
Barium, Ba	**188**	200	94%		80 - 120	mg/kg
Cobalt, Co	**47.3**	50.0	95%		80 - 120	mg/kg
Lead, Pb	**47.8**	50.0	96%		80 - 120	mg/kg
Selenium, Se	**176**	200	88%		80 - 120	mg/kg
Zinc, Zn	**43.2**	50.0	86%		80 - 120	mg/kg
LCSD:	**I191106-LCSD1**					
Barium, Ba	**188**	200	94%	0.1%	80 - 120	mg/kg
Cobalt, Co	**47.3**	50.0	95%	0.0%	80 - 120	mg/kg
Lead, Pb	**47.3**	50.0	95%	1.1%	80 - 120	mg/kg
Selenium, Se	**174**	200	87%	1.1%	80 - 120	mg/kg
Zinc, Zn	**43.7**	50.0	87%	1.2%	80 - 120	mg/kg
CCV:	**I191108-CCV1**					
Barium, Ba	**1.02**	1.00	102%		90-110	mg/L
Cobalt, Co	**1.02**	1.00	102%		90-110	mg/L
Lead, Pb	**1.02**	1.00	102%		90-110	mg/L
Selenium, Se	**1.01**	1.00	101%		90-110	mg/L
Zinc, Zn	**1.01**	1.00	101%		90-110	mg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **H19110601** **Prepared:** 11/6/2019 **Analyzed:** 11/7/2019

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
METHOD BLANK:	**H191106-MB1**						
Mercury, Hg	ND					0.020	mg/kg
LCS:	**H191106-LCS1**						
Mercury, Hg	**0.97**	1.00	97%		80 - 120		mg/kg
LCSD:	**H191106-LCSD1**						
Mercury, Hg	**1.04**	1.00	104%	**7.0%**	80 - 120		mg/kg
CCV:	**H191107-CCV1**						
Mercury, Hg	**4.59**	5.00	92%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/11/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**MW-2-5-191105**	**MW-2-10-191105**	**MW-2-15-191105**	**MW-2-20-191105**		
Jones ID:	**ST-14588-02**	**ST-14588-03**	**ST-14588-04**	**ST-14588-05**	**Reporting Limit**	**Units**
Analytes:						
1, 4-Dioxane	ND	ND	ND	ND	20	µg/kg
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
2-Fluorophenol	53%	76%	86%	76%	30 - 120	
Phenol-D5	46%	68%	77%	72%	30 - 120	
Nitrobenzene-D_5	51%	69%	75%	70%	30 - 120	
Batch:	8270-110619-1	8270-110619-1	8270-110619-1	8270-110619-1		
Prepared:	11/6/2019	11/6/2019	11/6/2019	11/6/2019		
Analyzed:	11/7/2019	11/7/2019	11/7/2019	11/7/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/11/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**Method Blank**		
Jones ID:	**8270-110619-MB1**	**Reporting Limit**	**Units**
Analytes:			
Naphthalene	ND	20	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	74%	30 - 120	
Phenol-D5	64%	30 - 120	
Nitrobenzene-D_5	70%	30 - 120	
Batch:	8270-110619-1		
Prepared:	11/6/2019		
Analyzed:	11/7/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/11/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Jones ID:	**8270-110619-LCS1**	**8270-110619-LCSD1**			
Parameter	LCS Recovery (%)	LCSD Recovery (%)	**RPD**	**Acceptable RPD limit**	**% Recovery Limits**
Phenol	141%	105%	29.9%	35%	30-120
2-Chlorophenol	144%	103%	33.5%	50%	30-120
Surrogate Recovery:					
2-Fluorophenol	74%	59%			30 - 120
Phenol-D5	76%	60%			30 - 120
Nitrobenzene-D_5	72%	59%			30 - 120

Batch: 8270-110619-1

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/11/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14588 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/5/2019 11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/7/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

	Result	Expected	%Deviation	Acceptable Deviation
CCV:	**8270-110719-CCV1**			
Analytes:				
1, 4-Dioxane	**5.67**	5.00	**13%**	20%

Surrogate Recovery:		**QC Limits**
2-Fluorophenol	111%	30 - 120
Phenol-D5	108%	30 - 120
Nitrobenzene-D_5	106%	30 - 120

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/6/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**MW-300-1-191105**		
Jones ID:	**ST-14588-01**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**MW-300-1-191105**		
Jones ID:	**ST-14588-01**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	109%	60 - 140
Toluene-d_8	108%	60 - 140
4-Bromofluorobenzene	95%	60 - 140
	VOC1-110619-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/6/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**110619-V1MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**110619-V1MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	109%	60 - 140
Toluene-d_8	108%	60 - 140
4-Bromofluorobenzene	92%	60 - 140
	VOC1-110619-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/12/2019
Client Address:	350 S Grand Ave #2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14588
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/5/2019
		Date Received:	11/5/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/6/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample Spiked:	CLEAN WATER		**GC#:**	VOC1-110619-01		
Jones ID:	**110619-V1MS1**	**110619-V1MSD1**		**110619-V1CCV1**		
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	128%	125%	2.0%	60 - 140	98%	80 - 120
1,1-Dichloroethene	129%	116%	10.6%	60 - 140	111%	80 - 120
Cis-1,2-Dichloroethene	129%	125%	3.8%	70 - 130	99%	80 - 120
1,1,1-Trichloroethane	128%	126%	1.9%	70 - 130	101%	80 - 120
Benzene	121%	111%	8.6%	70 - 130	110%	80 - 120
Trichloroethene	128%	127%	0.8%	70 - 130	110%	80 - 120
Toluene	112%	114%	1.9%	70 - 130	110%	80 - 120
Tetrachloroethene	119%	120%	0.8%	70 - 130	104%	80 - 120
Chlorobenzene	113%	113%	0.2%	70 - 130	117%	80 - 120
Ethylbenzene	102%	103%	1.2%	70 - 130	115%	80 - 120
1,2,4 Trimethylbenzene	99%	94%	5.9%	70 - 130	110%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	98%	102%		60 - 140	101%	60 - 140
Toluene-d_8	95%	97%		60 - 140	111%	60 - 140
4-Bromofluorobenzene	99%	94%		60 - 140	114%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15820 ST-14588

PROJECT NAME/FACILITY ID: L3Harris
DATE: 11/5/19
FIELD PERSON#: B. Jamison
PROJECT NUMBER: 1690014992
PROJECT MANAGER: T. Knapp
PROJECT LOCATION: Sylmar, CA
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B L Jamison

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (so) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOCs (8260B)	Title 22 Metals	Hexavalent Chrom.	1,4-Dioxane											COMMENTS
MW-300-1-191105	11/5/19	0700	–	–	W	3	U		X						ST-14588-01								*Archive 20' samples pending analysis of 5', 10', 15' samples.
MW-2-5-191105	↓	0846	5	–	SO	5	↓		X	X	X	X			ST-14588-02								
MW-2-10-191105	↓	0855	10	–	↓	↓	↓		X	X	X	X			ST-14588-03								
MW-2-15-191105	↓	0902	15	–	↓	↓	↓		X	X	X	X			ST-14588-04								
MW-2-20-191105*	↓	0905	20	–	↓	↓	↓		X	X	X	X			ST-14588-05								
TOTAL																							

BLJ 11/5/19

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
BL. Jamison / Brian L. Jamison	11/5/19 1600	MARTIN YUNG / Martin Yung	11/5/19
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE

TURNAROUND TIME (CIRCLE ONE): SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

SWBU Office Locations:
- ☐ 5 Park Plaza, Suite 500, Irvine, CA 92614 — +1 949 261 5151 — +1 949 261 6202
- ☐ 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 — +1 213 943 6300 — +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 — +1 602 734 7700 — +1 602 734-7701

Page 1 of 1

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14597 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/6/2019 11/6/2019
Project:	L3 Harris		
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

ANALYSES REQUESTED

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates
2. EPA 6010B and EPA 7470A – CAM 17 Metals
3. EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Approval:

David Mirakian, M.S.
Stationary Lab Chemist

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-2-191106**	**MW-200-191106**		
Jones ID:	**ST-14597-01**	**ST-14597-02**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.5	µg/L
Bromobenzene	ND	ND	0.5	µg/L
Bromodichloromethane	ND	ND	0.5	µg/L
Bromoform	ND	ND	0.5	µg/L
n-Butylbenzene	ND	ND	0.5	µg/L
sec-Butylbenzene	ND	ND	0.5	µg/L
tert-Butylbenzene	ND	ND	0.5	µg/L
Carbon tetrachloride	ND	ND	0.5	µg/L
Chlorobenzene	ND	ND	0.5	µg/L
Chloroform	ND	ND	0.5	µg/L
2-Chlorotoluene	ND	ND	0.5	µg/L
4-Chlorotoluene	ND	ND	0.5	µg/L
Dibromochloromethane	ND	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.5	µg/L
Dibromomethane	ND	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	ND	0.5	µg/L
1,1-Dichloroethane	ND	ND	0.5	µg/L
1,2-Dichloroethane	ND	ND	0.5	µg/L
1,1-Dichloroethene	ND	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	ND	0.5	µg/L
1,2-Dichloropropane	ND	ND	0.5	µg/L
1,3-Dichloropropane	ND	ND	0.5	µg/L
2,2-Dichloropropane	ND	ND	0.5	µg/L
1,1-Dichloropropene	ND	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-2-191106**	**MW-200-191106**		
Jones ID:	**ST-14597-01**	**ST-14597-02**	**Reporting Limit**	**Units**
Analytes:				
trans-1,3-Dichloropropene	ND	ND	0.5	µg/L
Ethylbenzene	ND	ND	0.5	µg/L
Freon 11	ND	ND	2.5	µg/L
Freon 12	ND	ND	2.5	µg/L
Freon 113	ND	ND	2.5	µg/L
Hexachlorobutadiene	ND	ND	0.5	µg/L
Isopropylbenzene	ND	ND	0.5	µg/L
4-Isopropyltoluene	ND	ND	0.5	µg/L
Methylene chloride	ND	ND	0.5	µg/L
Naphthalene	ND	ND	0.5	µg/L
n-Propylbenzene	ND	ND	0.5	µg/L
Styrene	ND	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.5	µg/L
Tetrachloroethene	ND	ND	0.5	µg/L
Toluene	ND	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	ND	0.5	µg/L
Trichloroethene	ND	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.5	µg/L
Vinyl chloride	ND	ND	0.5	µg/L
m,p-Xylene	ND	ND	1.0	µg/L
o-Xylene	ND	ND	0.5	µg/L
Methyl-tert-butylether	ND	ND	2.5	µg/L
Ethyl-tert-butylether	ND	ND	2.5	µg/L
Di-isopropylether	ND	ND	2.5	µg/L
tert-amylmethylether	ND	ND	2.5	µg/L
tert-Butylalcohol	ND	ND	25.0	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	111%	107%	60 - 140	
Toluene-d_8	107%	102%	60 - 140	
4-Bromofluorobenzene	103%	103%	60 - 140	
	VOC3-111119-01	VOC3-111119-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111119-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111119-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	105%	60 - 140
Toluene-d_8	106%	60 - 140
4-Bromofluorobenzene	104%	60 - 140
	VOC3-111119-01	

ND= Value less than reporting limit

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805-399-0060

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked: CLEAN WATER **GC#:** VOC3-111119-01

Jones ID:	**111119-V3MS1**	**111119-V3MSD1**			**111119-V3CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	97%	92%	5.4%	60 - 140	92%	80 - 120
1,1-Dichloroethene	96%	95%	1.4%	60 - 140	84%	80 - 120
Cis-1,2-Dichloroethene	125%	123%	1.5%	70 - 130	102%	80 - 120
1,1,1-Trichloroethane	109%	106%	2.2%	70 - 130	91%	80 - 120
Benzene	111%	112%	1.1%	70 - 130	96%	80 - 120
Trichloroethene	106%	102%	3.9%	70 - 130	91%	80 - 120
Toluene	111%	108%	3.0%	70 - 130	97%	80 - 120
Tetrachloroethene	106%	100%	5.8%	70 - 130	89%	80 - 120
Chlorobenzene	103%	101%	1.5%	70 - 130	93%	80 - 120
Ethylbenzene	109%	107%	1.9%	70 - 130	99%	80 - 120
1,2,4 Trimethylbenzene	111%	108%	1.9%	70 - 130	107%	80 - 120
Gasoline Range Organics (C4-C12)	111%	109%	1.4%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	100%	105%		60 - 140	96%	60 - 140
Toluene-d_8	100%	101%		60 - 140	105%	60 - 140
4-Bromofluorobenzene	98%	102%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3Harris	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

Sample ID: **MW-200-171106** **Jones ID:** **ST-14597-02**

EPA 6010B by 3010A – Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19110701	11/7/2019	11/8/2019	10	µg/L
Arsenic, As	ND	1	"	"	"	50	µg/L
Barium, Ba	ND	1	"	"	"	10	µg/L
Beryllium, Be	ND	1	"	"	"	10	µg/L
Cadmium, Cd	ND	1	"	"	"	10	µg/L
Cobalt, Co	ND	1	"	"	"	10	µg/L
Chromium, Cr	ND	1	"	"	"	10	µg/L
Copper, Cu	ND	1	"	"	"	10	µg/L
Molybdenum, Mo	ND	1	"	"	"	10	µg/L
Nickel, Ni	ND	1	"	"	"	10	µg/L
Lead, Pb	ND	1	"	"	"	10	µg/L
Antimony, Sb	ND	1	"	"	"	50	µg/L
Selenium, Se	ND	1	"	"	"	50	µg/L
Thallium, Tl	ND	1	"	"	"	50	µg/L
Vanadium, V	ND	1	"	"	"	10	µg/L
Zinc, Zn	ND	1	"	"	"	10	µg/L

EPA 7470A – Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19110702	11/7/2019	11/7/2019	0.10	µg/L

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14597 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/6/2019 11/6/2019
Project:	L3Harris	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

BATCH: **I19110701** **Prepared:** 11/7/2019 **Analyzed:** 11/8/2019

EPA 6010B by 3010A – Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Dilution	Reporting Limit	Units
METHOD BLANK:	**I191107-MB1**			
Silver, Ag	ND	1	10	µg/L
Arsenic, As	ND	1	50	µg/L
Barium, Ba	ND	1	10	µg/L
Beryllium, Be	ND	1	10	µg/L
Cadmium, Cd	ND	1	10	µg/L
Cobalt, Co	ND	1	10	µg/L
Chromium, Cr	ND	1	10	µg/L
Copper, Cu	ND	1	10	µg/L
Molybdenum, Mo	ND	1	10	µg/L
Nickel, Ni	ND	1	10	µg/L
Lead, Pb	ND	1	10	µg/L
Antimony, Sb	ND	1	50	µg/L
Selenium, Se	ND	1	50	µg/L
Thallium, Tl	ND	1	50	µg/L
Vanadium, V	ND	1	10	µg/L
Zinc, Zn	ND	1	10	µg/L

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14597 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/6/2019 11/6/2019
Project:	L3Harris	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

BATCH: **I19110701** **Prepared:** 11/7/2019 **Analyzed:** 11/8/2019

EPA 6010B by 3010A – Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Units
LCS:	**I191107-LCS1**					
Barium, Ba	**964**	1000	96%		80 - 120	µg/L
Cobalt, Co	**979**	1000	98%		80 - 120	µg/L
Lead, Pb	**995**	1000	99%		80 - 120	µg/L
Selenium, Se	**989**	1000	99%		80 - 120	µg/L
Zinc, Zn	**938**	1000	94%		80 - 120	µg/L
LCSD:	**I191107-LCSD1**					
Barium, Ba	**971**	1000	97%	0.7%	80-120	µg/L
Cobalt, Co	**983**	1000	98%	0.4%	80-120	µg/L
Lead, Pb	**989**	1000	99%	0.5%	80-120	µg/L
Selenium, Se	**970**	1000	97%	1.9%	80-120	µg/L
Zinc, Zn	**945**	1000	95%	0.7%	80-120	µg/L
CCV:	**I191107-CCV1**					
Barium, Ba	**1020**	1000	102%		90-110	µg/L
Cobalt, Co	**1020**	1000	102%		90-110	µg/L
Lead, Pb	**1020**	1000	102%		90-110	µg/L
Selenium, Se	**1010**	1000	101%		90-110	µg/L
Zinc, Zn	**1010**	1000	101%		90-110	µg/L

ND= Value less than reporting limit

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3Harris	**Date Analyzed:**	11/7-8/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

BATCH: **H19110702** **Prepared:** 11/7/2019 **Analyzed:** 11/7/2019

EPA 7470A – Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
METHOD BLANK:	**H191107-MB2**						
Mercury, Hg	ND					0.10	µg/L
LCS:	**H191107-LCS2**						
Mercury, Hg	**4.21**	3.65	115%		80 - 120		µg/L
LCSD:	**H191107-LCSD2**						
Mercury, Hg	**4.17**	3.65	114%	**1.0%**	80-120		µg/L
CCV:	**H191107-CCV1**						
Mercury, Hg	**4.59**	5.00	**0.918**		90-120		µg/L

ND= Value less than reporting limit

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**MW-200-191106**		
Jones ID:	**ST-14597-02**	**Reporting Limit**	**Units**
Analytes:			
1, 4-Dioxane	ND	20	µg/kg
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	82%	30 - 120	
Phenol-D5	71%	30 - 120	
Nitrobenzene-D_5	88%	30 - 120	
Batch:	8270W-111219-1		
Prepared:	11/12/2019		
Analyzed:	11/12/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**Method Blank**		
Jones ID:	**8270W-111219-MB1**	**Reporting Limit**	**Units**
Analytes:			
1, 4 - Dioxane	ND	20	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	59%	30 - 120	
Phenol-D5	64%	30 - 120	
Nitrobenzene-D_5	74%	30 - 120	
Batch:	8270W-		
Prepared:	11/12/2019		
Analyzed:	11/12/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14597
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/6/2019
		Date Received:	11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Jones ID:	**8270W-111219-LCS1**	**8270W-111219-LCSD1**			
Parameter	LCS Recovery (%)	LCSD Recovery (%)	**RPD**	**Acceptable RPD limit**	**% Recovery Limits**
Phenol	77%	83%	8.0%	35%	30-120
2-Chlorophenol	84%	89%	6.0%	50%	30-120
Surrogate Recovery:					
2-Fluorophenol	80%	81%			30 - 120
Phenol-D5	68%	85%			30 - 120
Nitrobenzene-D_5	73%	72%			30 - 120

Batch: 8270W-111219-1

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/13/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14597 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/6/2019 11/6/2019
Project:	L3 Harris	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

	Result	Expected	%Deviation	Acceptable Deviation
CCV:	**8270-111219-CCV1**			
Analytes:				
1, 4-Dioxane	**4.19**	5.00	**16%**	20%

Surrogate Recovery:		**QC Limits**
2-Fluorophenol	111%	30 - 120
Phenol-D5	107%	30 - 120
Nitrobenzene-D_5	107%	30 - 120

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15876

PROJECT NAME/FACILITY ID: L3Harris
PROJECT NUMBER: 1690014992
PROJECT LOCATION: Sylmar, CA
DATE: 11/6/19
FIELD PERSON#: B. Jamison
PROJECT MANAGER: T. Knapp / E. Smith
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B. Jamison

Analysis Required

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (so) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOC (8260B)	Metals - Title 22	Hexavalent Chrom (7196)	1,4-dioxane (8270)	COMMENTS
MW-300-2-191106	11/6/19	0715	–	–	W	3	U	HCl	X				ST-14597
MW-200-191106	↓	1055	–	–	↓	7	↓	NONE	X	X	X	X	
TOTAL													

BG 11/6/19

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
B.L. Jamison	11/6/19 1500	AWAT	11/6 1500
	11/6 1640		

TURNAROUND TIME (CIRCLE ONE): SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

SWBU Office Locations:
- ☐ 5 Park Plaza, Suite 500, Irvine, CA 92614 +1 949 261 5151 +1 949 261 6202
- ☒ 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 +1 213 943 6300 +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 +1 602 734 7700 +1 602 734-7701

Page ____ of ____

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 November 2019

Colby Wakeman
Jones Environmental
11007 Forest Place
Santa Fe Springs, CA 90670

RE: Ramboll

Enclosed are the results of analyses for samples received by the laboratory on 11/07/19 10:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/13/19 12:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-200-191106	T193880-01	Water	11/06/19 10:55	11/07/19 10:56

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/13/19 12:57

DETECTIONS SUMMARY

Sample ID: MW-200-191106 **Laboratory ID:** T193880-01

No Results Detected

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/13/19 12:57

MW-200-191106

T193880-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	ND	1.00	ug/l	1	9110711	11/07/19	11/07/19	EPA 7199	O-04

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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949.297.5027 Fax

Jones Environmental	Project: Ramboll	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/13/19 12:57

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9110711 - General Preparation										
Blank (9110711-BLK1)				Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	ND	1.00	ug/l							
LCS (9110711-BS1)				Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	48.8	1.00	ug/l	50.0		97.6	80-120			
Matrix Spike (9110711-MS1)		**Source: T193880-01**		Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	48.3	1.00	ug/l	50.0	ND	96.6	75-125			
Matrix Spike Dup (9110711-MSD1)		**Source: T193880-01**		Prepared & Analyzed: 11/07/19						
Hexavalent Chromium	50.1	1.00	ug/l	50.0	ND	100	75-125	3.75	20	

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Jones Environmental	Project:	Ramboll	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/13/19 12:57

Notes and Definitions

O-04	This sample was received and analyzed outside the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Chain-of-Custody Record

T193880

Client
Ramboll

Project Name
Sylmar

Project Address
15825 Roxford St

Sylmar, CA 91342

Email
reports@jonesenv.com

Phone
714-449-9937

Report To
Colby

Sampler
Bria Jamison

Date
11/6/2019

Client Project #

Turn Around Requested:
- ☑ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project #

Page
of

Sample Condition as Recieved:
Chilled ☒ yes ☐ no
Sealed ☒ yes ☐ no

4.8°C

Sample Container / Preservative Abbreviations

AS - Acetate Sleeve
SS - Stainless Steel Sleeve
BS - Brass Sleeve
G - Glass
AB - Amber Bottle
P - Plastic
SOBI - Sodium Bisulfate
MeOH - Methanol
HCl - Hydrochloric Acid
HNO3 - Nitric Acid
O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hex Chrome 7196										Number of Containers	Notes & Special Instructions
MW-200-191106 01	11/6/2019					A	X											ST-14597

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name	Total Number of Containers
	Jonathan Zapata		Travis Berner	
Company: JONES	Date: 11-7-19 Time: 1009	Company: Sunstar Labs	Date: 11-7-19 Time: 10:09	
Relinquished By (Signature)	Printed Name: Travis Berner	Received By Laboratory (Signature)	Printed Name: Don Marteski	
Company: SunstarLabs	Date: 11-7-19 Time: 10:56	Company: SunStar Labs	Date: 11-7-19 Time: 1056	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

SunStar Laboratories

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T193880

Client Name: Jones Environmental, Inc. Project: Ramboll - Sylmar

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Travis Date/Time Courier Received: 11-7-19 10:09

Lab Received by: Dan Date/Time Lab Received: 11-7-19 10:55

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration Due: 6/27/20

Temperature:	Cooler #1	3.4 °C +/- the CF (+ 1.2°C)	=	4.8	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (+ 1.2°C)	=		°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers) Within criteria? ☒ **Yes** ☐ **No**

If NO:

Samples received on ice? ☐ Yes ☐ **No → Complete Non-Conformance Sheet**

If on ice, samples received same day collected? ☐ Yes → Acceptable ☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 11-7-19

Comments:

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SunStar Laboratories

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____T193880_____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☐ Samples **NOT RECEIVED** but listed on COC
  - ☐ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☒ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ VOA vial(s) containing headspace >6mm
  - ☐ Other

Project Manager notified of sample non-conformance(s) ☒Yes ☐No

All samples accepted for processing and distributing to laboratory(ies) ☒Yes ☐No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments:

The sample was out of hold time for the hex chrom analysis when received.

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 11/7/2019 12:09:23PM

WORK ORDER

T193880

Client: **Jones Environmental** **Project Manager:** **Jeff Lee**
Project: **Ramdoll - Sylmar** **Project Number:** **ST-14597**

Report To:
Jones Environmental
Colby Wakeman
11007 Forest Place
Santa Fe Springs, CA 90670

Date Due: 11/14/19 17:00 (5 day TAT)
Received By: Dan Marteski Date Received: 11/07/19 10:56
Logged In By: Dan Marteski Date Logged In: 11/07/19 10:57

Samples Received at: **4.8°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirı No

Analysis	Due	TAT	Expires	Comments
T193880-01 MW-200-191106 [Water] Sampled 11/06/19 10:55 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/14/19 15:00	5	11/07/19 10:55	

Reviewed By Date

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805-399-0060

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil & Water

ANALYSES REQUESTED

Soil:

1. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
2. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals
3. EPA 8270C by 3546 – Semivolatile Organics by GC/MS for 1,4- Dioxane

Water:

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Approval:

Steve Jones, Ph.D.
Laboratory Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-4-5-191106**	**SB-4-5-191107**	**SB-4-10-191107**	**SB-4-15-191107**		
Jones ID:	**ST-14609-01**	**ST-14609-03**	**ST-14609-04**	**ST-14609-05**	**Reporting Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-4-5-191106**	**SB-4-5-191107**	**SB-4-10-191107**	**SB-4-15-191107**		
Jones ID:	**ST-14609-01**	**ST-14609-03**	**ST-14609-04**	**ST-14609-05**	**Reporting Limit**	**Units**
Analytes:						
trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	**1.3**	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	**1.0**	**1.2**	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	**3.7**	**4.1**	**1.5**	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	0.20	mg/kg
TIC:						
1,4-Dioxane	ND	ND	ND	ND	50.0	µg/kg
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	108%	103%	109%	108%	60 - 140	
Toluene-d_8	94%	94%	105%	95%	60 - 140	
4-Bromofluorobenzene	94%	93%	84%	95%	60 - 140	
	VOC4-111319-01	VOC4-111119-01	VOC4-111119-01	VOC4-111119-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SB-5-5-191107**	**SB-5-10-191107**	**SB-5-15-191107**			
Jones ID:	**ST-14609-07**	**ST-14609-08**	**ST-14609-09**		**Reporting Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SB-5-5-191107**	**SB-5-10-191107**	**SB-5-15-191107**		
Jones ID:	**ST-14609-07**	**ST-14609-08**	**ST-14609-09**	**Reporting Limit**	**Units**
Analytes:					
trans-1,3-Dichloropropene	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	0.20	mg/kg
TIC:					
1,4-Dioxane	ND	ND	ND	50.0	µg/kg
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	107%	108%	105%	60 - 140	
Toluene-d_8	98%	99%	96%	60 - 140	
4-Bromofluorobenzene	95%	97%	96%	60 - 140	
	VOC4-111119-01	VOC4-111119-01	VOC4-111119-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/11/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**	**METHOD BLANK**		
Jones ID:	**111119-V4MB1**	**111319-V4MB1**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	1.0	µg/kg
Bromoform	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	1.0	µg/kg
Chloroform	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**	**METHOD BLANK**		
Jones ID:	**111119-V4MB1**	**111319-V4MB1**	**Reporting Limit**	**Units**
Analytes:				
trans-1,3-Dichloropropene	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	1.0	µg/kg
Freon 11	ND	ND	5.0	µg/kg
Freon 12	ND	ND	5.0	µg/kg
Freon 113	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	1.0	µg/kg
Styrene	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	1.0	µg/kg
Toluene	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	0.20	mg/kg
TIC:				
1,4-Dioxane	ND	ND	50.0	µg/kg
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	102%	105%	60 - 140	
Toluene-d_8	95%	98%	60 - 140	
4-Bromofluorobenzene	92%	93%	60 - 140	
	VOC4-111119-01	VOC4-111319-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:		**Physical State:**	Soil
	Sylmar, CA		

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN SOIL		**GC#:**	VOC4-111119-01		
Jones ID:	**111119-V4MS1**	**111119-V4MSD1**			**111119-V4CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	119%	120%	0.7%	60 - 140	104%	80 - 120
1,1-Dichloroethene	179%	179%	0.3%	60 - 140	169%	80 - 120
Cis-1,2-Dichloroethene	122%	122%	0.3%	70 - 130	107%	80 - 120
1,1,1-Trichloroethane	112%	111%	0.5%	70 - 130	100%	80 - 120
Benzene	113%	113%	0.6%	70 - 130	107%	80 - 120
Trichloroethene	103%	105%	1.4%	70 - 130	103%	80 - 120
Toluene	102%	104%	1.3%	70 - 130	97%	80 - 120
Tetrachloroethene	96%	97%	1.4%	70 - 130	92%	80 - 120
Chlorobenzene	92%	93%	1.6%	70 - 130	93%	80 - 120
Ethylbenzene	108%	112%	2.9%	70 - 130	108%	80 - 120
1,2,4 Trimethylbenzene	107%	111%	3.2%	70 - 130	112%	80 - 120
Gasoline Range Organics (C4-C12)	108%	110%	1.7%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	100%	101%		60 - 140	95%	60 - 140
Toluene-d_8	101%	102%		60 - 140	106%	60 - 140
4-Bromofluorobenzene	101%	102%		60 - 140	115%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11-13/2019
Project Address:		**Physical State:**	Soil
	Sylmar, CA		

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN SOIL		**GC#:**	VOC4-111319-01		
Jones ID:	**111319-V4MS1**	**111319-V4MSD1**			**111319-V4CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	97%	99%	2.3%	60 - 140	89%	80 - 120
1,1-Dichloroethene	155%	158%	1.5%	60 - 140	109%	80 - 120
Cis-1,2-Dichloroethene	118%	118%	0.0%	70 - 130	113%	80 - 120
1,1,1-Trichloroethane	105%	104%	0.7%	70 - 130	106%	80 - 120
Benzene	108%	108%	0.2%	70 - 130	111%	80 - 120
Trichloroethene	102%	101%	1.2%	70 - 130	104%	80 - 120
Toluene	102%	96%	5.2%	70 - 130	103%	80 - 120
Tetrachloroethene	94%	89%	5.3%	70 - 130	97%	80 - 120
Chlorobenzene	94%	87%	7.5%	70 - 130	98%	80 - 120
Ethylbenzene	110%	103%	6.8%	70 - 130	115%	80 - 120
1,2,4 Trimethylbenzene	103%	98%	5.3%	70 - 130	117%	80 - 120
Gasoline Range Organics (C4-C12)	106%	101%	4.3%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	104%	104%		60 - 140	102%	60 - 140
Toluene-d_8	100%	97%		60 - 140	110%	60 - 140
4-Bromofluorobenzene	96%	93%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-5-5-191107** **Jones ID:** **ST-14609-07**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111101	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**102**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.3**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**7.2**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**12.8**	1	"	"	"	0.5	mg/kg
Copper, Cu	**7.6**	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	**0.6**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**8.4**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.6**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**22.3**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**27.5**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111101	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-5-10-191107** **Jones ID:** **ST-14609-08**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111101	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**88.4**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.2**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**5.8**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**12.2**	1	"	"	"	0.5	mg/kg
Copper, Cu	**6.5**	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	**0.8**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**7.5**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.6**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.6**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**27.4**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111101	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-5-15-191107** **Jones ID:** **ST-14609-09**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111101	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**72.0**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.3**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**3.2**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**13.0**	1	"	"	"	0.5	mg/kg
Copper, Cu	**6.6**	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	**0.7**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**7.6**	1	"	"	"	0.5	mg/kg
Lead, Pb	**1.9**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**19.1**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**27.0**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111101	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-5-20-191107** **Jones ID:** **ST-14609-10**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111101	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**79.4**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.9**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**8.1**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**12.3**	1	"	"	"	0.5	mg/kg
Copper, Cu	**7.6**	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	**1.4**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**15.7**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.0**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**25.2**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**43.1**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111101	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19111101** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
METHOD BLANK:	**I191111-MB1**						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					5.0	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19111101** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Units
LCS:	**I191111-LCS1**					
Barium, Ba	**196**	200	98%		80 - 120	mg/kg
Cobalt, Co	**49.9**	50.0	100%		80 - 120	mg/kg
Lead, Pb	**50.1**	50.0	100%		80 - 120	mg/kg
Selenium, Se	**176**	200	88%		80 - 120	mg/kg
Zinc, Zn	**45.1**	50.0	90%		80 - 120	mg/kg
LCSD:	**I191111-LCSD1**					
Barium, Ba	**196**	200	98%	0.1%	80 - 120	mg/kg
Cobalt, Co	**50.2**	50.0	100%	0.6%	80 - 120	mg/kg
Lead, Pb	**49.5**	50.0	99%	1.2%	80 - 120	mg/kg
Selenium, Se	**174**	200	87%	1.3%	80 - 120	mg/kg
Zinc, Zn	**45.8**	50.0	92%	1.4%	80 - 120	mg/kg
CCV:	**I191111-CCV1**					
Barium, Ba	**1.02**	1.00	102%		90-110	mg/L
Cobalt, Co	**1.03**	1.00	103%		90-110	mg/L
Lead, Pb	**1.08**	1.00	108%		90-110	mg/L
Selenium, Se	**1.03**	1.00	103%		90-110	mg/L
Zinc, Zn	**1.02**	1.00	102%		90-110	mg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **H19111101** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
METHOD BLANK:	**H191111-MB1**						
Mercury, Hg	ND					0.020	mg/kg
LCS:	**H191111-LCS1**						
Mercury, Hg	**1.02**	1.00	102%		80 - 120		mg/kg
LCSD:	**H191111-LCSD1**						
Mercury, Hg	**1.00**	1.00	100%	**1.4%**	80 - 120		mg/kg
CCV:	**H191111-CCV1**						
Mercury, Hg	**5.18**	5.00	104%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**SB-5-5-191107**	**SB-5-10-191107**	**SB-5-15-191107**		
Jones ID:	**ST-14609-07**	**ST-14609-08**	**ST-14609-09**	**Reporting Limit**	**Units**
Analytes:					
1, 4-Dioxane	ND	ND	ND	20	µg/kg
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
2-Fluorophenol	65%	62%	43%	30 - 120	
Phenol-D5	61%	62%	39%	30 - 120	
Nitrobenzene-D_5	63%	60%	36%	30 - 120	
Batch:	8270-111219-1	8270-111219-1	8270-111219-1		
Prepared:	11/12/2019	11/12/2019	11/12/2019		
Analyzed:	11/12/2019	11/12/2019	11/12/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**Method Blank**		
Jones ID:	**8270-111219-MB1**	**Reporting Limit**	**Units**
Analytes:			
1, 4 - Dioxane	ND	20	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	72%	30 - 120	
Phenol-D5	62%	30 - 120	
Nitrobenzene-D_5	64%	30 - 120	
Batch:	8270-111219-		
Prepared:	11/12/2019		
Analyzed:	11/12/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Jones ID:	**8270-111219-LCS1**	**8270-111219-LCSD1**			
Parameter	LCS Recovery (%)	LCSD Recovery (%)	**RPD**	**Acceptable RPD limit**	**% Recovery Limits**
Phenol	75%	69%	8.6%	35%	30-120
2-Chlorophenol	68%	67%	1.0%	50%	30-120
Surrogate Recovery:					
2-Fluorophenol	80%	81%			30 - 120
Phenol-D5	68%	85%			30 - 120
Nitrobenzene-D_5	73%	72%			30 - 120

Batch: 8270-111219-1

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

	Result	Expected	%Deviation	Acceptable Deviation
CCV:	**8270-111219-CCV1**			
Analytes:				
1, 4-Dioxane	**4.19**	5.00	**16%**	20%

Surrogate Recovery:		**QC Limits**
2-Fluorophenol	111%	30 - 120
Phenol-D5	107%	30 - 120
Nitrobenzene-D_5	107%	30 - 120

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:	Sylmae, CA	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-3-191106**		
Jones ID:	**ST-14609-02**	**Reporting Limit**	**Units**
Analytes:			
Benzene	**15.2**	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-3-191106**		
Jones ID:	**ST-14609-02**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	**4.5**	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	**1.9**	0.5	µg/L
n-Propylbenzene	**0.9**	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	**0.6**	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	**1.3**	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	**3.1**	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
TIC:			
Ethanol	ND	50.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	110%	60 - 140
Toluene-d_8	104%	60 - 140
4-Bromofluorobenzene	105%	60 - 140
	VOC3-111119-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:		**Physical State:**	Water
	Sylmae, CA		

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111119-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111119-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
TIC:			
Ethanol	ND	50.0	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	105%	60 - 140	
Toluene-d_8	106%	60 - 140	
4-Bromofluorobenzene	104%	60 - 140	
	VOC3-111119-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/14/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	L3 Harris	**Date Analyzed:**	11/11/2019
Project Address:	Sylmae, CA	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN WATER		**GC#:**	VOC3-111119-01		
Jones ID:	**111119-V3MS1**	**111119-V3MSD1**			**111119-V3CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	97%	92%	5.4%	60 - 140	92%	80 - 120
1,1-Dichloroethene	96%	95%	1.4%	60 - 140	84%	80 - 120
Cis-1,2-Dichloroethene	125%	123%	1.5%	70 - 130	102%	80 - 120
1,1,1-Trichloroethane	109%	106%	2.2%	70 - 130	91%	80 - 120
Benzene	111%	112%	1.1%	70 - 130	96%	80 - 120
Trichloroethene	106%	102%	3.9%	70 - 130	91%	80 - 120
Toluene	111%	108%	3.0%	70 - 130	97%	80 - 120
Tetrachloroethene	106%	100%	5.8%	70 - 130	89%	80 - 120
Chlorobenzene	103%	101%	1.5%	70 - 130	93%	80 - 120
Ethylbenzene	109%	107%	1.9%	70 - 130	99%	80 - 120
1,2,4 Trimethylbenzene	111%	108%	1.9%	70 - 130	107%	80 - 120
Gasoline Range Organics (C4-C12)	111%	109%	1.4%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	100%	105%		60 - 140	96%	60 - 140
Toluene-d_8	100%	101%		60 - 140	105%	60 - 140
4-Bromofluorobenzene	98%	102%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15877

PROJECT NAME/FACILITY ID: L3Harris
DATE: 11/7/19
FIELD PERSON#: B. Jamison
PROJECT NUMBER: 1690014992
PROJECT MANAGER: T. Knapp
PROJECT LOCATION: Sylmar, CA
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B. Jamison

ST-14609

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (so) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOCs (8260)	1,4-Dioxane	Title 22 Metals	Hexavalent Chrom		COMMENTS
MW-4-5-191106**	11/6/19	1606	5	–	W	5	U		X		X	X	ST-14609-01	* Archive 20' samples, pending analysis of 5', 10', 15' ** Analyze MW-4-5-191106 for VOCs + Metals
MW-300-3-191106	↓	1700			So	3						X	ST-14609-02	
SB-4-5-191107	11/7/19	1010	5			4							ST-14609-03	
SB-4-10-191107		1015	10										ST-14609-04	
SB-4-15-191107		1020	15										ST-14609-05	
SB-4-20-191107*		1025	20										ST-14609-06	
SB-5-5-191107		1355	5			5				X	X	X	ST-14609-07	
SB-5-10-191107		1400	10										ST-14609-08	
SB-5-15-191107		1410	15										ST-14609-09	
SB-5-20-191107*	↓	1418	20	↓	↓	↓	↓		↓	↓	↓	↓	ST-14609-10	
TOTAL														

Analysis Required

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
B. Jamison	11/7/19 1620	MARTIN YOUNG	11/7/19 1620
	11/7/19 1900		19:00

TURNAROUND TIME (CIRCLE ONE): SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

SWBU Office Locations:
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- ☒ 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 — +1 213 943 6300 — +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 — +1 602 734 7700 — +1 602 734-7701

Page ____ of ____

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	5 Park Plaza, Suite 500 Irvine, CA 92614	**Jones Ref. No.:**	D-1735
		Client Ref. No.:	1690014992
Attn:	Steve Knapp	**Date Sampled:**	11/14/2019
		Date Received:	11/14/2019
Project:	L3Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St, Sylmar, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No tracer was detected in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of collection.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	5 Park Plaza, Suite 500 Irvine, CA 92614	**Jones Ref. No.:**	D-1735
		Client Ref. No.:	1690014992
Attn:	Steve Knapp	**Date Sampled:**	11/14/2019
		Date Received:	11/14/2019
Project:	L3Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St, Sylmar, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MATERIAL BLANK-191114**	**SV-8-5-191114**	**SV-12-5-191114**	**SV-5-5-191114**	**SV-7-5-191114**		
Jones ID:	**D-1735-01**	**D-1735-02**	**D-1735-03**	**D-1735-04**	**D-1735-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	**0.015**	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	**0.014**	ND	**0.019**	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.012	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.012	µg/L
Dibromochloromethane	ND	**0.011**	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	**0.051**	**0.015**	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.016	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.010	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MATERIAL BLANK-191114**	**SV-8-5-191114**	**SV-12-5-191114**	**SV-5-5-191114**	**SV-7-5-191114**		
Jones ID:	**D-1735-01**	**D-1735-02**	**D-1735-03**	**D-1735-04**	**D-1735-05**	**Reporting Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	**0.998**	**1.58**	0.016	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.024	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.016	µg/L
Tetrachloroethene	ND	ND	ND	**0.552**	**0.109**	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	ND	**7.83**	**0.057**	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.016	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.016	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2.000	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.080	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.080	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.080	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	113%	111%	113%	86%	110%	60 - 140	
Toluene-d_8	94%	94%	94%	97%	94%	60 - 140	
4-Bromofluorobenzene	92%	93%	94%	94%	93%	60 - 140	
Batch ID:	D1-111419-01	D1-111419-01	D1-111419-01	D1-111419-01	D1-111419-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	5 Park Plaza, Suite 500 Irvine, CA 92614	**Jones Ref. No.:**	D-1735
		Client Ref. No.:	1690014992
Attn:	Steve Knapp	**Date Sampled:**	11/14/2019
		Date Received:	11/14/2019
Project:	L3Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St, Sylmar, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SV-6-5-191114**	**SV-11-5-191114**	**SV-4-5-191114**	**SV-4-5-REP-191114**	**SV-3-5-191114**		
Jones ID:	**D-1735-06**	**D-1735-07**	**D-1735-08**	**D-1735-09**	**D-1735-10**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	**0.009**	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	**0.082**	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.012	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	**0.124**	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.012	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.012	µg/L
Dibromochloromethane	ND	ND	ND	ND	**0.029**	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.016	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.010	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SV-6-5-191114**	**SV-11-5-191114**	**SV-4-5-191114**	**SV-4-5-REP-191114**	**SV-3-5-191114**		
Jones ID:	**D-1735-06**	**D-1735-07**	**D-1735-08**	**D-1735-09**	**D-1735-10**	**Reporting Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	**0.018**	**0.261**	**0.115**	**0.125**	**1.25**	0.016	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.024	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.016	µg/L
Tetrachloroethene	**0.012**	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	**0.039**	**0.044**	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	**0.099**	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.016	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.016	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	2.000	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.080	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.080	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.080	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	111%	114%	112%	111%	112%	60 - 140	
Toluene-d_8	96%	93%	92%	95%	95%	60 - 140	
4-Bromofluorobenzene	96%	92%	92%	92%	92%	60 - 140	
Batch ID:	D1-111419-01	D1-111419-01	D1-111419-01	D1-111419-01	D1-111419-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	5 Park Plaza, Suite 500 Irvine, CA 92614	**Jones Ref. No.:**	D-1735
		Client Ref. No.:	1690014992
Attn:	Steve Knapp	**Date Sampled:**	11/14/2019
		Date Received:	11/14/2019
Project:	L3Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St, Sylmar, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SV-9-5-191114**	**SV-1-5-191114**	**SV-2-5-191114**		
Jones ID:	**D-1735-11**	**D-1735-12**	**D-1735-13**	**Reporting Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	0.012	µg/L
sec-Butylbenzene	ND	ND	ND	0.012	µg/L
tert-Butylbenzene	ND	ND	ND	0.012	µg/L
Carbon tetrachloride	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	0.012	µg/L
4-Chlorotoluene	ND	ND	ND	0.012	µg/L
Dibromochloromethane	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.016	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.016	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.016	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	0.016	µg/L
1,1-Dichloropropene	ND	ND	ND	0.010	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**SV-9-5-191114**	**SV-1-5-191114**	**SV-2-5-191114**		
Jones ID:	**D-1735-11**	**D-1735-12**	**D-1735-13**	**Reporting Limit**	**Units**
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	0.008	µg/L
Freon 113	**0.287**	**0.032**	ND	0.016	µg/L
Hexachlorobutadiene	ND	ND	ND	0.024	µg/L
Isopropylbenzene	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.016	µg/L
Tetrachloroethene	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	**0.012**	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	0.016	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	0.016	µg/L
o-Xylene	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	ND	2.000	µg/L
Tracer:					
n-Pentane	ND	ND	ND	0.080	µg/L
n-Hexane	ND	ND	ND	0.080	µg/L
n-Heptane	ND	ND	ND	0.080	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	115%	112%	111%	60 - 140	
Toluene-d_8	98%	94%	97%	60 - 140	
4-Bromofluorobenzene	94%	89%	95%	60 - 140	
Batch ID:	D1-111419-01	D1-111419-01	D1-111419-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	5 Park Plaza, Suite 500 Irvine, CA 92614	**Jones Ref. No.:**	D-1735
		Client Ref. No.:	1690014992
Attn:	Steve Knapp	**Date Sampled:**	11/14/2019
		Date Received:	11/14/2019
Project:	L3Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St, Sylmar, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**111419-D1MB1**	**111419-D1SB1**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.012	µg/L
sec-Butylbenzene	ND	ND	0.012	µg/L
tert-Butylbenzene	ND	ND	0.012	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.012	µg/L
4-Chlorotoluene	ND	ND	0.012	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.016	µg/L
1,3-Dichlorobenzene	ND	ND	0.016	µg/L
1,4-Dichlorobenzene	ND	ND	0.016	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.016	µg/L
1,1-Dichloropropene	ND	ND	0.010	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**111419-D1MB1**	**111419-D1SB1**	**Reporting Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.016	µg/L
Hexachlorobutadiene	ND	ND	0.024	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.016	µg/L
Tetrachloroethene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.016	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	0.016	µg/L
o-Xylene	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	2.000	µg/L
Tracer:				
n-Pentane	ND	ND	0.080	µg/L
n-Hexane	ND	ND	0.080	µg/L
n-Heptane	ND	ND	0.080	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	112%	113%	60 - 140	
Toluene-d_8	93%	93%	60 - 140	
4-Bromofluorobenzene	92%	92%	60 - 140	
Batch ID:	D1-111419-01	D1-111419-01		

ND = Value below reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Ramboll
Client Address: 5 Park Plaza, Suite 500
Irvine, CA 92614

Attn: Steve Knapp

Project: L3Harris
Project Address: 15825 Roxford St,
Sylmar, CA

Report date: 11/15/2019
Jones Ref. No.: D-1735
Client Ref. No.: 1690014992

Date Sampled: 11/14/2019
Date Received: 11/14/2019
Date Analyzed: 11/14/2019
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Batch ID: D1-111419-01

Jones ID:	**111419-D1LCS1**	**111419-D1LCSD1**			**111419-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	92%	104%	12.5%	60 - 140	106%	80 - 120
1,1-Dichloroethene	97%	93%	4.2%	60 - 140	89%	80 - 120
Cis-1,2-Dichloroethene	111%	110%	0.5%	70 - 130	95%	80 - 120
1,1,1-Trichloroethane	100%	102%	2.0%	70 - 130	98%	80 - 120
Benzene	107%	100%	6.5%	70 - 130	97%	80 - 120
Trichloroethene	102%	104%	2.2%	70 - 130	97%	80 - 120
Toluene	108%	107%	0.8%	70 - 130	100%	80 - 120
Tetrachloroethene	102%	103%	0.8%	70 - 130	97%	80 - 120
Chlorobenzene	96%	96%	0.2%	70 - 130	97%	80 - 120
Ethylbenzene	102%	104%	2.0%	70 - 130	98%	80 - 120
1,2,4 Trimethylbenzene	105%	100%	5.2%	70 - 130	97%	80 - 120
Gasoline Range Organics (C4-C12)	105%	103%	2.6%	70 - 130	98%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	114%	116%		60 - 140	108%	60 - 140
Toluene-d_8	92%	97%		60 - 140	97%	60 - 140
4-Bromofluorobenzene	93%	96%		60 - 140	99%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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Soil-Gas Chain-of-Custody Record

Client: Ramboll
Project Name: L3Harris
Project Address: 15825 Roxford St, Sylmar, CA
Email:
Phone:
Report To: Steve Knapp
Sampler: Casey Ellis

Date: 11/14/2019
Client Project #: 1690014992

Purge Number: □ 1P ☒ 3P □ 7P □ 10P

Shut-In Test: (Y) / N

Report Options
EDD ____
EDF* - 10% Surcharge ____
*Global ID ____

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Isopropyl Alchohol
- □ 1,1-DFA
- □ ____

Reporting Limits
☒ Standard □ Low Level* □ MDL*
*surcharge for these limits

Units µg/L

LAB USE ONLY
Jones Project # D-1735

Page 1 of 2

Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
MATERIAL BLANK-191114	-	-	11/14/19	9:17	9:18	D-1735-01	-	-	-	SG	X	X			<2	1	
SV-8-5-191114	3	4920	11/14/19	9:38	9:40	D-1735-02	200	CASEY.1	M100.003	SG	X	X			<2	1	
SV-12-5-191114	3	4920	11/14/19	9:53	9:56	D-1735-03	200	JACKSON.1	M100.006	SG	X	X			<2	1	
SV-5-5-191114	3	4920	11/14/19	10:14	10:16	D-1735-04	200	CASEY.1	M100.102	SG	X	X			<2	1	
SV-7-5-191114	3	4920	11/14/19	10:30	10:33	D-1735-05	200	JACKSON.1	M100.114	SG	X	X			<2	1	
SV-6-5-191114	3	4920	11/14/19	10:49	10:51	D-1735-06	200	CASEY.1	M100.003	SG	X	X			<2	1	
SV-11-5-191114	3	1310	11/14/19	13:42	13:44	D-1735-07	200	CASEY.1	M100.102	SG	X	X			<2	1	
SV-4-5-191114	3	4920	11/14/19	11:38	11:40	D-1735-08	200	JACKSON.1	M100.102	SG	X	X			12	1	
SV-4-5-REP-191114	3	4920	11/14/19	11:48	11:56	D-1735-09	200	JACKSON.1	M100.102	SG	X	X			12	1	
SV-3-5-191114	3	4920	11/14/19	12:35	12:37	D-1735-10	200	CASEY.1	M100.114	SG	X	X			<2	1	

Representative Signature	Printed Name	Laboratory Signature	Printed Name		
Bria L. Jamison	BRIA JAMISON	Casey Ellis	CASEY ELLIS	10	Total Number of Containers
Company: RAMBOLL	Date: 11/14/2019 Time: 14:20	Company: JONES ENVIRONMENTAL, INC.	Date: 11/14/2019 Time: 14:20		
Representative Signature	Printed Name	Laboratory Signature	Printed Name		
Company	Date Time	Company	Date Time		

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

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Soil-Gas Chain-of-Custody Record

Client: Ramboll
Project Name: L3Harris
Project Address: 15825 Roxford St, Sylmar, CA
Email:
Phone:
Report To: Steve Knapp
Sampler: Casey Ellis

Date: 11/14/2019
Client Project #: 1690014992

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options
EDD ____
EDF* - 10% Surcharge ____
*Global ID ____

LAB USE ONLY
Jones Project #: D-1735
Page 2 of 2
Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Isopropyl Alchohol
- □ 1,1-DFA
- □ ____

Reporting Limits
☒ Standard □ Low Level* □ MDL*
*surcharge for these limits

Units: µg/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)	Gasoline Range Organics			Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
SV-9-5-191114	3	1310	11/14/19	12:45	12:52	D-1735-11	200	JACKSON.1	M100.003	SG	X	X				1	
SV-1-5-191114	3	4920	11/14/19	13:07	13:10	D-1735-12	200	CASEY.1	M100.102	SG	X	X				1	
SV-2-5-191114	3	4920	11/14/19	13:17	13:27	D-1735-13	200	JACKSON.1	M100.114	SG	X	X				1	

Total Number of Containers: 3

Representative Signature: Bria L. Jamison
Printed Name: BRIA JAMISON
Company: RAMBOLL
Date: 11/14/2019 Time: 14:20

Laboratory Signature: Casey Ellis
Printed Name: CASEY ELLIS
Company: JONES ENVIRONMENTAL, INC.
Date: 11/14/2019 Time: 14:20

Representative Signature:
Printed Name:
Company:
Date: Time:

Laboratory Signature:
Printed Name:
Company:
Date: Time:

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No:**	ST-14640 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/8/2019 11/8/2019
Project:	L3 Harris	**Date Analyzed:**	11/13/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil & Water

ANALYSES REQUESTED

Soil:
1. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Water:

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates

Approval:

Steve Jones, Ph.D.
Laboratory Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/12/2019
Project:	L3 Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-1-5-191108**	**SB-1-10-191108**	**SB-1-15-191108**		
Jones ID:	**ST-14640-02**	**ST-14640-03**	**ST-14640-04**	**Reporting Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-1-5-191108**	**SB-1-10-191108**	**SB-1-15-191108**		
Jones ID:	**ST-14640-02**	**ST-14640-03**	**ST-14640-04**	**Reporting Limit**	**Units**
Analytes:					
trans-1,3-Dichloropropene	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	50.0	µg/kg
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	108%	108%	109%	60 - 140	
Toluene-d_8	95%	95%	96%	60 - 140	
4-Bromofluorobenzene	96%	97%	96%	60 - 140	
	VOC4-111419-01	VOC4-111419-01	VOC4-111419-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/12/2019
Project:	L3 Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111419-V4MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111419-V4MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	101%	60 - 140	
Toluene-d_8	97%	60 - 140	
4-Bromofluorobenzene	95%	60 - 140	
	VOC4-111419-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/12/2019
Project:	L3 Harris	**Date Analyzed:**	11/14/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample Spiked: CLEAN SOIL **GC#:** VOC4-111419-01

Jones ID:	**111419-V4MS1**	**111419-V4MSD1**			**111419-V4CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	66%	66%	0.4%	60 - 140	99%	80 - 120
1,1-Dichloroethene	149%	151%	1.2%	60 - 140	81%	80 - 120
Cis-1,2-Dichloroethene	123%	121%	1.6%	70 - 130	109%	80 - 120
1,1,1-Trichloroethane	108%	111%	3.0%	70 - 130	103%	80 - 120
Benzene	110%	111%	0.7%	70 - 130	106%	80 - 120
Trichloroethene	103%	105%	2.2%	70 - 130	100%	80 - 120
Toluene	100%	99%	1.1%	70 - 130	99%	80 - 120
Tetrachloroethene	96%	93%	3.1%	70 - 130	92%	80 - 120
Chlorobenzene	94%	94%	0.3%	70 - 130	93%	80 - 120
Ethylbenzene	110%	112%	1.6%	70 - 130	111%	80 - 120
1,2,4 Trimethylbenzene	112%	112%	0.6%	70 - 130	116%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	104%	104%		60 - 140	106%	60 - 140
Toluene-d_8	97%	99%		60 - 140	111%	60 - 140
4-Bromofluorobenzene	94%	95%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	L3 Harris	**Date Analyzed:**	11/13/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**MW-300-5-191108**		
Jones ID:	**ST-14640-01**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**MW-300-5-191108**		
Jones ID:	**ST-14640-01**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	98%	60 - 140
Toluene-d_8	109%	60 - 140
4-Bromofluorobenzene	89%	60 - 140
	VOC1-111319-01	

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.
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805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	L3 Harris	**Date Analyzed:**	11/13/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111319-V1MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111319-V1MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	94%	60 - 140
Toluene-d_8	111%	60 - 140
4-Bromofluorobenzene	87%	60 - 140
	VOC1-111319-01	

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/15/2019
Client Address:	350 S Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14640
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	L3 Harris	**Date Analyzed:**	11/13/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample Spiked: CLEAN WATER **GC#:** VOC1-111319-01

Jones ID:	**111319-V1MS1**	**111319-V1MSD1**			**111319-V1CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	151%	130%	14.7%	60 - 140	102%	80 - 120
1,1-Dichloroethene	124%	116%	7.1%	60 - 140	107%	80 - 120
Cis-1,2-Dichloroethene	121%	129%	6.4%	70 - 130	89%	80 - 120
1,1,1-Trichloroethane	132%	130%	1.8%	70 - 130	88%	80 - 120
Benzene	118%	123%	4.2%	70 - 130	83%	80 - 120
Trichloroethene	111%	118%	5.9%	70 - 130	93%	80 - 120
Toluene	124%	128%	3.0%	70 - 130	95%	80 - 120
Tetrachloroethene	123%	125%	2.0%	70 - 130	109%	80 - 120
Chlorobenzene	117%	122%	4.5%	70 - 130	103%	80 - 120
Ethylbenzene	117%	128%	9.0%	70 - 130	106%	80 - 120
1,2,4 Trimethylbenzene	112%	126%	11.8%	70 - 130	109%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	97%	105%		60 - 140	100%	60 - 140
Toluene-d_8	112%	110%		60 - 140	124%	60 - 140
4-Bromofluorobenzene	111%	103%		60 - 140	120%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15829 ST-14640

PROJECT NAME/FACILITY ID: L3Harris
PROJECT NUMBER: 1169001492
PROJECT LOCATION: Sylmar, CA
DATE: 11/12/2019
FIELD PERSON#: B. Jamison
PROJECT MANAGER: T. Knapp
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B. Jamison

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (SO) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	Analysis Required: VOCs (8260B)													COMMENTS
MW-300-5-191108	11/8/19	1700	–	–	W	3	U		X			ST-14640-01										* Archive 20' samples pending analysis of 5', 10', 15' samples
SB-1-5-191108	↓	1720	5	–	SO	4	–		X			ST-14640-02										
SB-1-10-191108	↓	1725	10	–	↓	↓	–		X			ST-14640-03										
SB-1-15-191108	↓	1740	15	–	↓	↓	–		X			ST-14640-04										
SB-1-20-191108*	↓	1745	20	–	↓	↓	–		X			ST-14640-05										
TOTAL																						

BJ

RELINQUISHED BY	TIME/DATE	RECEIVED BY / COMPANY	TIME/DATE	TURNAROUND TIME (CIRCLE ONE)	
Brial Jamison / B. Jamison	11/12/19	[illegible] / Martin Yousof	11/12/19	SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL	
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE		
RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE	SAMPLE INTEGRITY INTACT Y N TEMP_____	SAMPLE INTEGRITY INTACT Y N

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

SWBU Office Locations:
- ☐ 5 Park Plaza, Suite 500, Irvine, CA 92614 — +1 949 261 5151 — +1 949 261 6202
- ☒ 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 — +1 213 943 6300 — +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 — +1 602 734 7700 — +1 602 734-7701

Page 1 of 1

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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18 November 2019

Colby Wakeman
Jones Environmental
11007 Forest Place
Santa Fe Springs, CA 90670

RE: Ramboll - L3 Harris

Enclosed are the results of analyses for samples received by the laboratory on 11/12/19 15:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB4-5-191107	T193936-01	Soil	11/07/19 10:10	11/12/19 15:33
SB-4-10-191107	T193936-02	Soil	11/07/19 10:15	11/12/19 15:33
SB-4-15-191107	T193936-03	Soil	11/07/19 10:20	11/12/19 15:33
SB-5-5-191107	T193936-04	Soil	11/07/19 13:55	11/12/19 15:33
SB-5-10-191107	T193936-05	Soil	11/07/19 14:00	11/12/19 15:33
SB-5-15-191107	T193936-06	Soil	11/07/19 14:10	11/12/19 15:33
MW-4-5-191106	T193936-09	Soil	11/06/19 16:06	11/12/19 15:33

Sample MW-4-5-191106 was received but not listed in the CoC. Per client's instruction, this sample will be analyzed along with the other samples. JL 11/13/19.

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

DETECTIONS SUMMARY

Sample ID: SB4-5-191107 **Laboratory ID:** T193936-01

No Results Detected

Sample ID: SB-4-10-191107 **Laboratory ID:** T193936-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.15**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-4-15-191107 **Laboratory ID:** T193936-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.12**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-5-5-191107 **Laboratory ID:** T193936-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.15**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-5-10-191107 **Laboratory ID:** T193936-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.11**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-5-15-191107 **Laboratory ID:** T193936-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.11**	0.0010	mg/kg	EPA 7199	

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

Sample ID: MW-4-5-191106 **Laboratory ID:** T193936-09

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.11**	0.0010	mg/kg	EPA 7199	

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

SB4-5-191107

T193936-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	ND	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

SB-4-10-191107

T193936-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.15**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

SB-4-15-191107

T193936-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.12**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project:	Ramboll - L3 Harris	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/18/19 17:14

SB-5-5-191107

T193936-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.15**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

SB-5-10-191107

T193936-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.11**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

SB-5-15-191107

T193936-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.11**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Lake Forest, California 92630
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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

MW-4-5-191106

T193936-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.11**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:14

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9111408 - General Preparation										
Blank (9111408-BLK1)				Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	ND	0.0010	mg/kg							
LCS (9111408-BS1)				Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	8.32	0.0010	mg/kg	10.0		83.2	80-120			
Matrix Spike (9111408-MS1)		**Source: T193936-01**		Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	8.00	0.0010	mg/kg	10.4	ND	77.1	75-125			
Matrix Spike Dup (9111408-MSD1)		**Source: T193936-01**		Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	7.83	0.0010	mg/kg	10.1	ND	77.7	75-125	2.06	20	

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Jeff Lee, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project:	Ramboll - L3 Harris	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/18/19 17:14

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9885
www.jonesenv.com

Chain-of-Custody Record

Client: Ramboll
Date: 11/7/2019
Project Name: L3 Harris
Client Project #: 1690014992
Project Address: 15825 Roxford St
Sylmar, CA 91342
Email: reports@jonesenv.com
Phone: 714-449-9937
Report To: Colby
Sampler: Bria Jamison

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge ____
*Global ID ____

LAB USE ONLY
Jones Project #
Page
of

Sample Condition as Recieved:
Chilled ☑ yes ☐ no
Sealed ☐ yes ☑ no 2.3°c

Sample Container / Preservative Abbreviations
- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	HEX CHROME	HOLD										Number of Containers	Notes & Special Instructions
SB4-5-191107	11/7/2019	10:10	01			S	X												ST-14609
SB-4-10-191107	11/7/2019	10:15	02			S	X												
SB-4-15-191107	11/7/2019	10:20	03			S	X												
SB-5-5-191107	11/7/2019	13:55	04			S	X												
SB-5-10-191107	11/7/2019	14:00	05			S	X												
SB-5-15-191107	11/7/2019	14:10	06			S	X												
SB-4-20-191107	11/7/2019	10:25	07			S		X											
SB-5-20-191107	11/7/2019	14:18	08			S		X											

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name	Total Number of Containers
[signature]	Colby Wakeman	[signature]	Paul Berner	
Company: Jones Environmental	Date: 11/12/19 Time: 14:03	Company: SunStar Labs	Date: 11-12-19 Time: 14:03	
Relinquished By (Signature): [signature]	Printed Name: Paul Berner	Received By Laboratory (Signature): [signature]	Printed Name: Sunny	
Company: SunStar Labs	Date: 11-12-19 Time: 15:33	Company: SunStar Labs	Date: 11-12-19 Time: 15:33	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

SunStar Laboratories

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T198936

Client Name: Jones Env. Project: L3 Harris

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Paul Date/Time Courier Received: 11.12.19 / 14:03

Lab Received by: Sunny Date/Time Lab Received: 11.12.19 / 15:33

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration due : 6/27/20

Temperature:	Cooler #1 1.1	°C +/- the CF (+ 1.2°C)	= 2.3	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (+ 1.2°C)	=	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (+ 1.2°C)	=	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☐ Yes	☒ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SZ 11.12.19

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # T193936

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☐ Samples **NOT RECEIVED** but listed on COC
  - ☒ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ VOA vial(s) containing headspace >6mm
  - ☐ Other

Project Manager notified of sample non-conformance(s) ☒Yes ☐No

All samples accepted for processing and distributing to laboratory(ies) ☒Yes ☐No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments: WE RECEIVED (MW-4-5-191106) BUT WASN'T LISTED ON COC.

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

Jeff Lee

From: Colby Wakeman [colby@jonesenv.com]
Sent: Wednesday, November 13, 2019 2:44 PM
To: Jeff Lee
Cc: Christine Hill; Colby Wakeman; <reports@jonesenv.com>
Subject: Re: Work Order Confirmation for Ramboll (T193936)

Hi Jeff,

Go ahead and run it.

Jones Environmental holiday schedule:

Closed Thanksgiving Day Thursday November 28
Closed Friday November 29
Half day Christmas Eve Tuesday December 24
Closed Christmas Day Wednesday December 25
Half day New Years Eve Tuesday December 31
New Years Day Wednesday January 1

2020 Fee Schedule

Tell Us How We Are Doing!

Colby Wakeman
Jones Environmental Inc.
www.jonesenv.com
714-225-2004 (C)

The content of this email is the confidential property of Jones Environmental Inc. (Jones) and should not be copied, modified, re-transmitted, or used for any purpose except with Jones' written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

On Wed, Nov 13, 2019 at 9:40 AM Jeff Lee <jefflee@sunstarlabs.com> wrote:

> Hi Colby,
>
> Do you want us to run MW-4-5-191106 too? We received this sample but it is not a part of the CoC. I can add that on as the last sample if you need.
>
> **Jeff Lee**

Project Manager

SunStar Laboratories

25712 Commercentre Dr., Lake Forest, CA 92630

Office: (949) 297-5020 | Fax: (949) 297-5027

CA ELAP Accreditation: 2250 | State of Nevada Accreditation: CA012842019-1

ISO/IEC 17025 Accreditation: AT-2642 | CA Small Business Certification: 31511

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From: Christine Hill [mailto:christine@sunstarlabs.com]
Sent: Wednesday, November 13, 2019 8:58 AM
To: 'Colby Wakeman'; reports@jonesenv.com
Cc: jefflee@sunstarlabs.com
Subject: Work Order Confirmation for Ramboll (T193936)

Colby,

Please find attached the work order and chain of custody for the samples we received:

Project: **Ramboll-L3 Harris**

Project Number: **N/A**

Due Date: **11/19/19**

Please see non conformance sheet: sample MW-4-5-191106 was received but not listed on the COC.

Please carefully review the work order to ensure the Analysis, Due Date, and Turn Around Time (TAT) are accurate. If you have any questions or concerns, please feel free to contact me.

Thank you for choosing Sunstar! We appreciate your business!

Best regards,

Christine Hill

Project Manager

SunStar Laboratories

25712 Commercentre Dr., Lake Forest, CA 92630

Office: (949) 297-5020 | Fax: (949) 297-5027

CA ELAP Accreditation: 2250 | State of Nevada Accreditation: CA012842019-1

ISO/IEC 17025 Accreditation: AT-2642 | CA Small Business Certification: 31511

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 11/13/2019 8:10:54AM

WORK ORDER

T193936

Client: **Jones Environmental** **Project Manager:** **Jeff Lee**
Project: **Ramboll - L3 Harris** **Project Number:** **[none]**

Report To:
Jones Environmental
Colby Wakeman
11007 Forest Place
Santa Fe Springs, CA 90670

Date Due: 11/19/19 17:00 (5 day TAT)
Received By: Sunny Lounethone Date Received: 11/12/19 15:33
Logged In By: Sunny Lounethone Date Logged In: 11/12/19 17:07

Samples Received at: **2.3°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T193936-01 SB4-5-191107 [Soil] Sampled 11/07/19 10:10 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 10:10	
T193936-02 SB-4-10-191107 [Soil] Sampled 11/07/19 10:15 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 10:15	
T193936-03 SB-4-15-191107 [Soil] Sampled 11/07/19 10:20 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 10:20	
T193936-04 SB-5-5-191107 [Soil] Sampled 11/07/19 13:55 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 13:55	
T193936-05 SB-5-10-191107 [Soil] Sampled 11/07/19 14:00 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 14:00	
T193936-06 SB-5-15-191107 [Soil] Sampled 11/07/19 14:10 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/07/19 14:10	
T193936-07 SB-4-20-191107 [Soil] Sampled 11/07/19 10:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T193936

Client:	**Jones Environmental**	**Project Manager:**	**Jeff Lee**
Project:	**Ramboll - L3 Harris**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments

T193936-08 SB-5-20-191107 [Soil] Sampled 11/07/19 14:18 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T193936-09 MW-4-5-191106 [Soil] Sampled 11/06/19 16:06 (GMT-08:00) Pacific Time (US & **NOT LISTED ON COC**

[NO ANALYSES]

Reviewed By

Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 November 2019

Colby Wakeman
Jones Environmental
11007 Forest Place
Santa Fe Springs, CA 90670

RE: Ramboll - L3 Harris

Enclosed are the results of analyses for samples received by the laboratory on 11/12/19 15:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-6-5-191108	T193938-01	Soil	11/08/19 10:40	11/12/19 15:33
SB-6-10-191108	T193938-02	Soil	11/08/19 11:55	11/12/19 15:33
SB-6-15-191108	T193938-03	Soil	11/08/19 12:00	11/12/19 15:33
SB-3-5-191108	T193938-04	Soil	11/08/19 13:10	11/12/19 15:33
SB-6-20-191108	T193938-05	Soil	11/08/19 12:05	11/12/19 15:33

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:19

DETECTIONS SUMMARY

Sample ID: SB-6-5-191108 **Laboratory ID:** T193938-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.54**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-6-10-191108 **Laboratory ID:** T193938-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.28**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-6-15-191108 **Laboratory ID:** T193938-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.25**	0.0010	mg/kg	EPA 7199	

Sample ID: SB-3-5-191108 **Laboratory ID:** T193938-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Hexavalent Chromium	**0.12**	0.0010	mg/kg	EPA 7199	

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Jeff Lee, Project Manager

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949.297.5027 Fax

Jones Environmental	Project:	Ramboll - L3 Harris	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/18/19 17:19

SB-6-5-191108

T193938-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.54**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:19

SB-6-10-191108

T193938-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.28**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:19

SB-6-15-191108

T193938-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.25**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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Jones Environmental	Project:	Ramboll - L3 Harris	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/18/19 17:19

SB-3-5-191108

T193938-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Hexavalent Chromium	**0.12**	0.0010	mg/kg	1	9111408	11/14/19	11/15/19	EPA 7199	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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949.297.5027 Fax

Jones Environmental	Project: Ramboll - L3 Harris	
11007 Forest Place	Project Number: [none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager: Colby Wakeman	11/18/19 17:19

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9111408 - General Preparation										
Blank (9111408-BLK1)				Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	ND	0.0010	mg/kg							
LCS (9111408-BS1)				Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	8.32	0.0010	mg/kg	10.0		83.2	80-120			
Matrix Spike (9111408-MS1)		**Source: T193936-01**		Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	8.00	0.0010	mg/kg	10.4	ND	77.1	75-125			
Matrix Spike Dup (9111408-MSD1)		**Source: T193936-01**		Prepared: 11/14/19 Analyzed: 11/15/19						
Hexavalent Chromium	7.83	0.0010	mg/kg	10.1	ND	77.7	75-125	2.06	20	

SunStar Laboratories, Inc.

Jeff Lee, Project Manager

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Jones Environmental	Project:	Ramboll - L3 Harris	
11007 Forest Place	Project Number:	[none]	**Reported:**
Santa Fe Springs CA, 90670	Project Manager:	Colby Wakeman	11/18/19 17:19

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Chain-of-Custody Record

T193938

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project #
Page
of

Sample Condition as Recieved:
Chilled ☑ yes ☐ no
Sealed ☐ yes ☑ no 2.3°C

Client: **Ramboll**
Date: **11/8/2019**
Project Name: **L3 Harris**
Client Project #: **1690014992**
Project Address: **15825 Roxford St**
Sylmar, CA 91342
Email: **reports@jonesenv.com**
Phone: **714-449-9937**
Report To: **Colby**
Sampler: **Bria Jamison**

Sample Container / Preservative Abbreviations
- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	HEX CHROME	HOLD									Number of Containers	Notes & Special Instructions
SB-6-5-191108	11/8/2019	10:40	01			S	X											ST-14617
SB-6-10-191108	11/8/2019	11:55	02			S	X											
SB-6-15-191108	11/8/2019	12:00	03			S	X											
SB-3-5-191108	11/8/2019	13:10	04			S	X											
SB-6-20-191108	11/8/2019	12:05	05			S		X										
						S												

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name	Total Number of Containers
	Colby Wakeman	Paul Berner	Paul Berner	
Company: Jones Environmental	Date: 11/12/19 Time: 14:03	Company: SunStar Labs	Date: 11-12-19 Time: 14:03	
Relinquished By (Signature): Paul Berner	Printed Name: Paul Berner	Received By Laboratory (Signature)	Printed Name: SUNNY	Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.
Company: SunStar Labs	Date: 11-12-19 Time: 15:33	Company: SUNSTAR LAB	Date: 11-12-19 Time: 15:33	

SunStar Laboratories

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T193938

Client Name: Jones Environmental, Inc. Project: Ramboll - L3 Harris

Delivered by: ☐ **Client** ☒ **SunStar Courier** ☐ **GSO** ☐ **FedEx** ☐ **Other**

If Courier, Received by: Paul Date/Time Courier Received: 11-12-19 14:03

Lab Received by: Sunny Date/Time Lab Received: 11-12-19 15:33

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration Due: 6/27/20

Temperature:	Cooler #1	1.1	°C +/- the CF (+ 1.2°C) =	2.3	°C	corrected temperature
Temperature:	Cooler #2		°C +/- the CF (+ 1.2°C) =		°C	corrected temperature
Temperature:	Cooler #3		°C +/- the CF (+ 1.2°C) =		°C	corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒**Yes** ☐**No**
If NO:		
Samples received on ice?	☐Yes	☐**No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐Yes → Acceptable	☐**No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐Yes	☐No*	☒N/A
Sample containers intact	☒Yes	☐No*	
Sample labels match Chain of Custody IDs	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☐Yes	☐No*	☒N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐**No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 11-12-19

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 11/13/2019 8:11:57AM

WORK ORDER

T193938

Client: **Jones Environmental** **Project Manager:** **Jeff Lee**
Project: **Ramboll - L3 Harris** **Project Number:** **[none]**

Report To:
Jones Environmental
Colby Wakeman
11007 Forest Place
Santa Fe Springs, CA 90670

Date Due: 11/19/19 17:00 (5 day TAT)
Received By: Dan Marteski Date Received: 11/12/19 15:33
Logged In By: Dan Marteski Date Logged In: 11/12/19 17:26

Samples Received at: **2.3°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirı No

Analysis	Due	TAT	Expires	Comments
T193938-01 SB-6-5-191108 [Soil] Sampled 11/08/19 10:40 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/08/19 10:40	
T193938-02 SB-6-10-191108 [Soil] Sampled 11/08/19 11:55 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/08/19 11:55	
T193938-03 SB-6-15-191108 [Soil] Sampled 11/08/19 12:00 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/08/19 12:00	
T193938-04 SB-3-5-191108 [Soil] Sampled 11/08/19 13:10 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/08/19 13:10	
T193938-05 SB-6-20-191108 [Soil] Sampled 11/08/19 12:05 (GMT-08:00) Pacific Time (US &				
Cr6-7199	11/19/19 15:00	5	12/08/19 12:05	

Reviewed By Date

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Jones Environmental, Inc.
11007 Forest Pl.
Santa Fe Springs, CA 90670-

Telephone: (714)449-9937
Attention: Colby Wakeman

Number of Pages 3
Date Received 11/21/2019
Date Reported 11/25/2019

Job Number	Order Date	Client
102315	11/21/2019	JNSENV

Project ID: 1690014992
Project Name: L3 HARRIS
Site: 15825 Roxford St.
Sylmar, CA 91342

Enclosed please find results of analyses of 4 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Chain-of-Custody Record

102315

Client: Ramboll
Project Name: L3 Harris
Project Address: 15825 Roxford St
Sylmar, CA 91342
Email: reports@jonesenv.com
Phone: 714-449-9937
Report To: Colby Wakeman
Sampler: Bria Jamison

Date: 11/21/2019
Client Project #: 1690014992

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☒ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project #
Page
of

Sample Condition as Recieved:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample Container / Preservative Abbreviations
- AS - Acetate Sleeve
- SS - Stainless Steel Sleeve
- BS - Brass Sleeve
- G - Glass
- AB - Amber Bottle
- P - Plastic
- SOBI - Sodium Bisulfate
- MeOH - Methanol
- HCl - Hydrochloric Acid
- HNO3 - Nitric Acid
- O - Other (See Notes)

Analysis Requested

Sample ID	Date	Sample Collection Time	Laboratory Sample ID	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	HEX CHROME EPA 7196											Number of Containers	Notes & Special Instructions
MW-3-191121	11/21/2019	10:01	102315.01			A	X											1	ST-14680
MW-100-191121	11/21/2019	10:09	102315.02			A	X											1	
MW-2-191121	11/21/2019	11:33	102315.03			A	X											1	
MW-1-191121	11/21/2019	12:30	102315.04			A	X											1	

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name	Total Number of Containers
[signature]	MARTIN YOUNG	[signature]	[signature] 11/21/19 1400	
Company: JEL	Date: 11/21/19 Time: 1400	Company	Date / Time	
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name	
Company	Date: Time	Company	Date / Time	

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD # 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Jones
Project Name:
AETL Job Number: 102315
Date Received: 11/21/19 Received by: [illegible]
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3-2 , No 2: _____ , No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☐ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:

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Ordered By

Jones Environmental, Inc.
11007 Forest Pl.
Santa Fe Springs, CA 90670-

Project ID: 1690014992
Date Received 11/21/2019
Date Reported 11/25/2019

Telephone: (714)449-9937
Attention: Colby Wakeman

Job Number	Order Date	Client
102315	11/21/2019	JNSENV

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 11/21/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
102315.01	MW-3-191121	11/21/2019	Aqueous	1
102315.02	MW-100-191121	11/21/2019	Aqueous	1
102315.03	MW-2-191121	11/21/2019	Aqueous	1
102315.04	MW-1-191121	11/21/2019	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
7196A	11/25/2019	3	Rush	mg/L

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Jones Environmental, Inc.
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Santa Fe Springs, CA 90670-

Telephone: (714)449-9937
Attn: Colby Wakeman
Page: 2

Site

15825 Roxford St.
Sylmar, CA 91342

Project ID: 1690014992
Project Name: L3 HARRIS

AETL Job Number	Submitted	Client
102315	11/21/2019	JNSENV

Method: 7196A, Chromium, Hexavalent (Colorimetric)

QC Batch No: HC112119-1

Our Lab I.D.			Method Blank	102315.01	102315.02	102315.03	102315.04
Client Sample I.D.				MW-3-191121	MW-100-191121	MW-2-191121	MW-1-191121
Date Sampled				11/21/2019	11/21/2019	11/21/2019	11/21/2019
Date Prepared			11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			11/21/2019	11/21/2019	11/21/2019	11/21/2019	11/21/2019
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.025	0.050	ND	ND	ND	ND	ND

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QUALITY CONTROL RESULTS

Ordered By

Jones Environmental, Inc.
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Santa Fe Springs, CA 90670-

Telephone: (714)449-9937
Attn: Colby Wakeman
Page: 3

Project ID: 1690014992
Project Name: L3 HARRIS

Site

15825 Roxford St.
Sylmar, CA 91342

AETL Job Number	Submitted	Client
102315	11/21/2019	JNSENV

Method: 7196A, Chromium, Hexavalent (Colorimetric)

QC Batch No: HC112119-1; Dup or Spiked Sample: 102315.01; LCS: Clean Water; QC Prepared: 11/21/2019; QC Analyzed: 11/21/2019; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	20.0	20.0	100	20.0	20.0	100	<1	80-120	<15

QC Batch No: HC112119-1; Dup or Spiked Sample: 102315.01; LCS: Clean Water; QC Prepared: 11/21/2019; QC Analyzed: 11/21/2019; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.0500	0.0520	104	0.0500	0.0540	108	3.8	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

714-449-9937
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805-399-0060

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**JEL Ref. No.:** **Client Ref. No.:**	ST-14617 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/8/2019 11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

ANALYSES REQUESTED

Soil:

1. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
2. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

Water:

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-6-5-191108** **Jones ID:** **ST-14617-06**

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111102	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**108**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**2.0**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**7.9**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**26.3**	1	"	"	"	0.5	mg/kg
Copper, Cu	**11.0**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	ND	1	"	"	"	1.5	mg/kg
Nickel, Ni	**13.0**	1	"	"	"	0.5	mg/kg
Lead, Pb	**3.1**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**30.7**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**35.1**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111102	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-6-10-191108** **Jones ID:** **ST-14617-07**

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111102	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**101**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.8**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**6.8**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**22.2**	1	"	"	"	0.5	mg/kg
Copper, Cu	**10.4**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	ND	1	"	"	"	1.5	mg/kg
Nickel, Ni	**11.5**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.6**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**26.6**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**33.6**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111102	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

JONES ENVIRONMENTAL, INC.
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SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-6-15-191108** **Jones ID:** **ST-14617-08**

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111102	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**65.4**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.3**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**4.6**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**14.5**	1	"	"	"	0.5	mg/kg
Copper, Cu	**6.5**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	ND	1	"	"	"	1.5	mg/kg
Nickel, Ni	**7.5**	1	"	"	"	0.5	mg/kg
Lead, Pb	**1.7**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.4**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**23.5**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111102	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-6-20-191108** **Jones ID:** **ST-14617-09**

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111102	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**71.4**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.0**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**4.0**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**67.0**	1	"	"	"	0.5	mg/kg
Copper, Cu	**5.3**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	ND	1	"	"	"	1.5	mg/kg
Nickel, Ni	**3.4**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.6**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**16.0**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**19.5**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111102	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **SB-3-5-191108** **Jones ID:** **ST-14617-10**

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19111102	11/11/2019	11/11/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**137**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.1**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**5.7**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**9.8**	1	"	"	"	0.5	mg/kg
Copper, Cu	**8.5**	1	"	"	"	5.0	mg/kg
Molybdenum, Mo	ND	1	"	"	"	1.5	mg/kg
Nickel, Ni	**8.7**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.4**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.8**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**26.7**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19111102	11/11/2019	11/11/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14617 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/8/2019 11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19111102** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
METHOD BLANK:	**I191111-MB2**						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					5.0	mg/kg
Molybdenum, Mo	ND					1.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					5.0	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14617 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/8/2019 11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19111102** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 6010B - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Units
LCS:	**I191111-LCS2**					
Barium, Ba	**204**	200	102%		80 - 120	mg/kg
Cobalt, Co	**50.4**	50.0	101%		80 - 120	mg/kg
Lead, Pb	**50.4**	50.0	101%		80 - 120	mg/kg
Selenium, Se	**178**	200	89%		80 - 120	mg/kg
Zinc, Zn	**44.0**	50.0	88%		80 - 120	mg/kg
LCSD:	**I191111-LCSD2**					
Barium, Ba	**198**	200	99%	3.0%	80 - 120	mg/kg
Cobalt, Co	**48.9**	50.0	98%	3.0%	80 - 120	mg/kg
Lead, Pb	**50.2**	50.0	100%	0.4%	80 - 120	mg/kg
Selenium, Se	**178**	200	89%	0.1%	80 - 120	mg/kg
Zinc, Zn	**43.1**	50.0	86%	2.1%	80 - 120	mg/kg
CCV:	**I191111-CCV2**					
Barium, Ba	**1.02**	1.00	102%		90-110	mg/L
Cobalt, Co	**1.03**	1.00	103%		90-110	mg/L
Lead, Pb	**1.08**	1.00	108%		90-110	mg/L
Selenium, Se	**1.03**	1.00	103%		90-110	mg/L
Zinc, Zn	**1.02**	1.00	102%		90-110	mg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/11/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **H19111102** **Prepared:** 11/11/2019 **Analyzed:** 11/11/2019

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
METHOD BLANK:	**H191111-MB2**						
Mercury, Hg	ND					0.020	mg/kg
LCS:	**H191111-LCS2**						
Mercury, Hg	**0.97**	1.00	97%		80 - 120		mg/kg
LCSD:	**I191111-LCSD2**						
Mercury, Hg	**0.97**	1.00	97%	**0.2%**	80 - 120		mg/kg
CCV:	**H191111-CCV1**						
Mercury, Hg	**5.18**	5.00	104%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-2-5-191108**	**SB-2-10-191108**	**SB-2-15-191108**	**SB-2-20-191108**	**SB-6-5-191108**		
Jones ID:	**ST-14617-02**	**ST-14617-03**	**ST-14617-04**	**ST-14617-05**	**ST-14617-06**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-2-5-191108**	**SB-2-10-191108**	**SB-2-15-191108**	**SB-2-20-191108**	**SB-6-5-191108**		
Jones ID:	**ST-14617-02**	**ST-14617-03**	**ST-14617-04**	**ST-14617-05**	**ST-14617-06**	**Reporting Limit**	**Units**
Analytes:							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	111%	109%	109%	106%	102%	60 - 140	
Toluene-d_8	102%	100%	100%	99%	98%	60 - 140	
4-Bromofluorobenzene	104%	103%	105%	106%	99%	60 - 140	
	VOC3-111219-01	VOC3-111219-01	VOC3-111219-01	VOC3-111219-01	VOC3-111219-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-6-10-191108**	**SB-6-15-191108**	**SB-6-20-191108**	**SB-3-5-191108**			
Jones ID:	**ST-14617-07**	**ST-14617-08**	**ST-14617-09**	**ST-14617-10**		**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**SB-6-10-191108**	**SB-6-15-191108**	**SB-6-20-191108**	**SB-3-5-191108**		
Jones ID:	**ST-14617-07**	**ST-14617-08**	**ST-14617-09**	**ST-14617-10**	**Reporting Limit**	**Units**
Analytes:						
trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	50.0	µg/kg
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	109%	112%	106%	101%	60 - 140	
Toluene-d_8	102%	104%	97%	97%	60 - 140	
4-Bromofluorobenzene	107%	106%	100%	96%	60 - 140	
	VOC3-111219-01	VOC3-111219-01	VOC3-111219-01	VOC3-111219-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111219-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**		
Jones ID:	**111219-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	98%	60 - 140	
Toluene-d_8	98%	60 - 140	
4-Bromofluorobenzene	96%	60 - 140	
	VOC3-111219-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14617 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/8/2019 11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates

Sample Spiked: CLEAN SOIL **GC#:** VOC3-111219-01

Jones ID:	**111219-V3MS1**	**111219-V3MSD1**			**111219-V3CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	98%	91%	7.0%	60 - 140	81%	80 - 120
1,1-Dichloroethene	106%	98%	8.3%	60 - 140	97%	80 - 120
Cis-1,2-Dichloroethene	121%	122%	0.4%	70 - 130	105%	80 - 120
1,1,1-Trichloroethane	112%	107%	4.4%	70 - 130	100%	80 - 120
Benzene	114%	109%	4.4%	70 - 130	106%	80 - 120
Trichloroethene	105%	102%	2.7%	70 - 130	103%	80 - 120
Toluene	112%	111%	1.2%	70 - 130	108%	80 - 120
Tetrachloroethene	106%	102%	3.5%	70 - 130	100%	80 - 120
Chlorobenzene	104%	104%	0.4%	70 - 130	104%	80 - 120
Ethylbenzene	114%	113%	0.8%	70 - 130	111%	80 - 120
1,2,4 Trimethylbenzene	114%	112%	1.5%	70 - 130	116%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	100%	101%		60 - 140	98%	60 - 140
Toluene-d_8	100%	99%		60 - 140	106%	60 - 140
4-Bromofluorobenzene	98%	100%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**SB-6-5-191108**	**SB-6-10-191108**	**SB-6-15-191108**	**SB-6-20-191108**	**SB-3-5-191108**		
Jones ID:	**ST-14617-06**	**ST-14617-07**	**ST-14617-08**	**ST-14617-09**	**ST-14617-10**	**Reporting Limit**	**Units**
Analytes:							
1, 4-Dioxane	ND	ND	ND	ND	ND	20	µg/kg
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
2-Fluorophenol	53%	56%	64%	66%	67%	30 - 120	
Phenol-D5	46%	52%	58%	60%	56%	30 - 120	
Nitrobenzene-D_5	48%	54%	61%	62%	61%	30 - 120	
Batch:	8270-111219-1	8270-111219-1	8270-111219-1	8270-111219-1	8270-111219-1		
Prepared:	11/12/2019	11/12/2019	11/12/2019	11/12/2019	11/12/2019		
Analyzed:	8/12/1949	8/12/1949	8/12/1949	8/12/1949	8/12/1949		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	L3 Harris	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**Method Blank**		
Jones ID:	**8270-111219-MB1**	**Reporting Limit**	**Units**
Analytes:			
1, 4 Dioxane	ND	20	µg/kg
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	71%	30 - 120	
Phenol-D5	64%	30 - 120	
Nitrobenzene-D_5	67%	30 - 120	
2-Fluorobiphenyl		30 - 120	
p-Terphenyl_D14		30 - 120	
Batch:	8270-111219-1		
Prepared:	11/12/2019		
Analyzed:	8/12/1949		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Jones ID:	**8270-111219-LCS1**	**8270-111219-LCSD1**			
Parameter	LCS Recovery (%)	LCSD Recovery (%)	**RPD**	**Acceptable RPD limit**	**% Recovery Limits**
Phenol	89%	75%	17.1%	35%	30-120
2-Chlorophenol	86%	75%	14.3%	50%	30-120
Surrogate Recovery:					
2-Fluorophenol	86%	53%			30 - 120
Phenol-D5	84%	46%			30 - 120
Nitrobenzene-D_5	89%	48%			30 - 120

Batch: 8270-111219-1

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

	Result	Expected	%Deviation	Acceptable Deviation
CCV:	**8270-111219-CCV1**			
Analytes:				
1, 4-Dioxane	**4.19**	5.00	**16%**	20%

Surrogate Recovery:		**QC Limits**
2-Fluorophenol	111%	30 - 120
Phenol-D5	107%	30 - 120
Nitrobenzene-D_5	107%	30 - 120

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-4-191108**		
Jones ID:	**ST-14617-01**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-4-191108**		
Jones ID:	**ST-14617-01**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
TIC:			
Ethanol	ND	50.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	108%	60 - 140
Toluene-d_8	98%	60 - 140
4-Bromofluorobenzene	93%	60 - 140
	VOC4-111219-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111219-V4MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**111219-V4MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
TIC:			
Ethanol	ND	50.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	109%	60 - 140
Toluene-d_8	99%	60 - 140
4-Bromofluorobenzene	96%	60 - 140
	VOC4-111219-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14617
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/8/2019
		Date Received:	11/8/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/12/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN WATER		**GC#:**	VOC4-111219-01		
Jones ID:	**111219-V4MS1**	**111219-V4MSD1**			**111219-V4CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	114%	109%	4.7%	60 - 140	118%	80 - 120
1,1-Dichloroethene	166%	165%	0.7%	60 - 140	153%	80 - 120
Cis-1,2-Dichloroethene	123%	122%	1.1%	70 - 130	108%	80 - 120
1,1,1-Trichloroethane	113%	111%	1.5%	70 - 130	97%	80 - 120
Benzene	115%	114%	0.4%	70 - 130	103%	80 - 120
Trichloroethene	107%	107%	0.5%	70 - 130	99%	80 - 120
Toluene	103%	104%	1.0%	70 - 130	94%	80 - 120
Tetrachloroethene	100%	99%	1.7%	70 - 130	91%	80 - 120
Chlorobenzene	98%	95%	3.1%	70 - 130	92%	80 - 120
Ethylbenzene	116%	113%	2.5%	70 - 130	108%	80 - 120
1,2,4 Trimethylbenzene	114%	108%	5.6%	70 - 130	112%	80 - 120
Gasoline Range Organics (C4-C12)	112%	110%	1.9%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	100%	99%		60 - 140	104%	60 - 140
Toluene-d_8	97%	97%		60 - 140	109%	60 - 140
4-Bromofluorobenzene	94%	95%		60 - 140	113%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15821 ST-14617

PROJECT NAME/FACILITY ID: L3Harris
PROJECT NUMBER: 1690014992
PROJECT LOCATION: Sylmar, CA
DATE: 11/8/19
FIELD PERSON#: B. Jamison
PROJECT MANAGER: J. Knapp
LABORATORY: Jones Environmental

Sampler: B.L. Jamison
Signature: B.L. Jamison

Analysis Required

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (so) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOC (8260B)	1,4-Dioxane	Hex. Chrom.	Title 22 Metals			COMMENTS
MW-300-4-191108	11/8/19	0600	—	—	W	3	U		X					ST-14617-01	*Archive 20' samples pending analysis of 5', 10', 15' samples
SB-2-5-191108		0703	5	—	So	4	—		X					ST-14617-02	
SB-2-10-191108		0710	10	—			—		X					ST-14617-03	
SB-2-15-191108		0714	15	—			—		X					ST-14617-04	
SB-2-20-191108*		0718	20	—			—		X					ST-14617-05	
SB-6-5-191108		1040	5	—		5	—		X	X	X	X		ST-14617-06	
SB-6-10-191108		1155	10	—			—		X	X	X	X		ST-14617-07	
SB-6-15-191108		1200	15	—			—		X	X	X	X		ST-14617-08	
SB-6-20-191108*		1205	20	—			—		X	X	X	X		ST-14617-09	
SB-3-5-191108		1310	5	—			—		X	X	X	X		ST-14617-10	
TOTAL															

BLJ

ST-14617

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
Brian Jamison/B.L. Jamison	11/8/19 1555	HWA+h	11/8 1535
HWA+h	11/8 1800		11/8 18:00

TURNAROUND TIME (CIRCLE ONE): SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

SWBU Office Locations:
- ☐ 5 Park Plaza, Suite 500, Irvine, CA 92614 — +1 949 261 5151 — +1 949 261 6202
- ☒ 350 S Grand Avenue, Suite 2800, Los Angeles, CA 90071 — +1 213 943 6300 — +1 213 943 6301
- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 — +1 602 734 7700 — +1 602 734-7701

Page 1 of

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14680 1690014992
Attn:	Tmothy Knapp	**Date Sampled:** **Date Received:**	11/21/2019 11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/25/2019
Project Address:	Sylmar, CA Ramboll	**Physical State:**	Water

ANALYSES REQUESTED

1. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
2. EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Approval:

Colby Wakeman
QA/QC Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/25/2019
Project Address:	Sylmar, CA	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-6-191121**	**MW-3-191121**	**MW-100-191121**	**MW-2-191121**	**MW-1-191121**		
Jones ID:	**ST-14680-01**	**ST-14680-02**	**ST-14680-03**	**ST-14680-04**	**ST-14680-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.5	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.5	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.5	µg/L
Bromoform	ND	ND	ND	ND	ND	0.5	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.5	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
Chloroform	ND	**14.7**	**13.4**	ND	ND	0.5	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.5	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.5	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.5	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,1-Dichloroethane	ND	ND	ND	**0.9**	ND	0.5	µg/L
1,2-Dichloroethane	ND	**3.1**	**2.8**	ND	ND	0.5	µg/L
1,1-Dichloroethene	ND	**14.4**	**13.3**	**15.1**	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	**3.5**	**3.2**	ND	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.5	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.5	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.5	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.5	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.5	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**MW-300-6-191121**	**MW-3-191121**	**MW-100-191121**	**MW-2-191121**	**MW-1-191121**		
Jones ID:	**ST-14680-01**	**ST-14680-02**	**ST-14680-03**	**ST-14680-04**	**ST-14680-05**	**Reporting Limit**	**Units**
Analytes:							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.5	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
Freon 11	ND	ND	ND	ND	ND	2.5	µg/L
Freon 12	ND	ND	ND	ND	ND	2.5	µg/L
Freon 113	ND	ND	**8.8**	**4.9**	ND	2.5	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.5	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.5	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.5	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.5	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
Styrene	ND	ND	ND	ND	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.5	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.5	µg/L
Toluene	ND	ND	ND	ND	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.5	µg/L
Trichloroethene	ND	**1.3**	**1.2**	**1.3**	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.5	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.5	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	1.0	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.5	µg/L
Methyl-tert-butylether	ND	ND	ND	ND	ND	2.5	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	2.5	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	2.5	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	2.5	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.10	mg/L
TIC:							
Ethanol	ND	ND	ND	ND	ND	50.0	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	110%	109%	108%	110%	109%	60 - 140	
Toluene-d_8	102%	103%	102%	107%	102%	60 - 140	
4-Bromofluorobenzene	99%	98%	99%	99%	103%	60 - 140	
	VOC3-112519-01	VOC3-112519-01	VOC3-112519-01	VOC3-112519-01	VOC3-112519-01		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/25/2019
Project Address:	Sylmar, CA	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**112519-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.5	µg/L
Bromobenzene	ND	0.5	µg/L
Bromodichloromethane	ND	0.5	µg/L
Bromoform	ND	0.5	µg/L
n-Butylbenzene	ND	0.5	µg/L
sec-Butylbenzene	ND	0.5	µg/L
tert-Butylbenzene	ND	0.5	µg/L
Carbon tetrachloride	ND	0.5	µg/L
Chlorobenzene	ND	0.5	µg/L
Chloroform	ND	0.5	µg/L
2-Chlorotoluene	ND	0.5	µg/L
4-Chlorotoluene	ND	0.5	µg/L
Dibromochloromethane	ND	0.5	µg/L
1,2-Dibromo-3-chloropropane	ND	0.5	µg/L
1,2-Dibromoethane (EDB)	ND	0.5	µg/L
Dibromomethane	ND	0.5	µg/L
1,2- Dichlorobenzene	ND	0.5	µg/L
1,3-Dichlorobenzene	ND	0.5	µg/L
1,4-Dichlorobenzene	ND	0.5	µg/L
1,1-Dichloroethane	ND	0.5	µg/L
1,2-Dichloroethane	ND	0.5	µg/L
1,1-Dichloroethene	ND	0.5	µg/L
cis-1,2-Dichloroethene	ND	0.5	µg/L
trans-1,2-Dichloroethene	ND	0.5	µg/L
1,2-Dichloropropane	ND	0.5	µg/L
1,3-Dichloropropane	ND	0.5	µg/L
2,2-Dichloropropane	ND	0.5	µg/L
1,1-Dichloropropene	ND	0.5	µg/L
cis-1,3-Dichloropropene	ND	0.5	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID:	**METHOD BLANK**		
Jones ID:	**112519-V3MB1**	**Reporting Limit**	**Units**
Analytes:			
trans-1,3-Dichloropropene	ND	0.5	µg/L
Ethylbenzene	ND	0.5	µg/L
Freon 11	ND	2.5	µg/L
Freon 12	ND	2.5	µg/L
Freon 113	ND	2.5	µg/L
Hexachlorobutadiene	ND	0.5	µg/L
Isopropylbenzene	ND	0.5	µg/L
4-Isopropyltoluene	ND	0.5	µg/L
Methylene chloride	ND	0.5	µg/L
Naphthalene	ND	0.5	µg/L
n-Propylbenzene	ND	0.5	µg/L
Styrene	ND	0.5	µg/L
1,1,1,2-Tetrachloroethane	ND	0.5	µg/L
1,1,2,2-Tetrachloroethane	ND	0.5	µg/L
Tetrachloroethene	ND	0.5	µg/L
Toluene	ND	0.5	µg/L
1,2,3-Trichlorobenzene	ND	0.5	µg/L
1,2,4-Trichlorobenzene	ND	0.5	µg/L
1,1,1-Trichloroethane	ND	0.5	µg/L
1,1,2-Trichloroethane	ND	0.5	µg/L
Trichloroethene	ND	0.5	µg/L
1,2,3-Trichloropropane	ND	0.5	µg/L
1,2,4-Trimethylbenzene	ND	0.5	µg/L
1,3,5-Trimethylbenzene	ND	0.5	µg/L
Vinyl chloride	ND	0.5	µg/L
m,p-Xylene	ND	1.0	µg/L
o-Xylene	ND	0.5	µg/L
Methyl-tert-butylether	ND	2.5	µg/L
Ethyl-tert-butylether	ND	2.5	µg/L
Di-isopropylether	ND	2.5	µg/L
tert-amylmethylether	ND	2.5	µg/L
tert-Butylalcohol	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	0.10	mg/L
TIC:			
Ethanol	ND	50.0	µg/L
Dilution Factor	1		

Surrogate Recoveries:		**QC Limits**
Dibromofluoromethane	108%	60 - 140
Toluene-d_8	104%	60 - 140
4-Bromofluorobenzene	97%	60 - 140
	VOC3-112519-01	

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/25/2019
Project Address:	Sylmar, CA	**Physical State:**	Water

EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	CLEAN WATER		**GC#:**	VOC3-112519-01		
Jones ID:	**112519-V3MS1**	**112519-V3MSD1**			**112519-V3CCV1**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	112%	107%	4.0%	60 - 140	87%	80 - 120
1,1-Dichloroethene	103%	92%	11.2%	60 - 140	89%	80 - 120
Cis-1,2-Dichloroethene	128%	121%	5.4%	70 - 130	109%	80 - 120
1,1,1-Trichloroethane	111%	105%	5.8%	70 - 130	98%	80 - 120
Benzene	111%	110%	0.6%	70 - 130	104%	80 - 120
Trichloroethene	109%	106%	3.2%	70 - 130	102%	80 - 120
Toluene	110%	110%	0.8%	70 - 130	99%	80 - 120
Tetrachloroethene	109%	106%	2.1%	70 - 130	100%	80 - 120
Chlorobenzene	107%	106%	0.9%	70 - 130	103%	80 - 120
Ethylbenzene	113%	111%	1.7%	70 - 130	105%	80 - 120
1,2,4 Trimethylbenzene	113%	111%	1.8%	70 - 130	115%	80 - 120
Gasoline Range Organics (C4-C12)	112%	111%	1.3%	70 - 130		
Surrogate Recovery:						
Dibromofluoromethane	98%	98%		60 - 140	96%	60 - 140
Toluene-d_8	97%	97%		60 - 140	102%	60 - 140
4-Bromofluorobenzene	94%	94%		60 - 140	104%	60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/23/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**MW-3-191121**	**MW-100-19121**	**MW-2-191121**	**MW-1-191121**		
Jones ID:	**ST-14680-02**	**ST-14680-03**	**ST-14680-04**	**ST-14680-05**	**Reporting Limit**	**Units**
Analytes:						
1, 4-Dioxane	ND	ND	ND	ND	20	µg/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
2-Fluorophenol	67%	62%	55%	58%	30 - 120	
Phenol-D5	55%	42%	39%	36%	30 - 120	
Nitrobenzene-D_5	65%	49%	49%	51%	30 - 120	
Batch:	8270W-112319-1	8270W-112319-1	8270W-112319-1	8270W-112319-1		
Prepared:	11/23/2019	11/23/2019	11/23/2019	11/23/2019		
Analyzed:	11/23/2019	11/23/2019	11/23/2019	11/23/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/23/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample ID:	**Method Blank**		
Jones ID:	**8270-112319-MB1**	**Reporting Limit**	**Units**
Analytes:			
1, 4 Dioxane	ND	20	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
2-Fluorophenol	44%	30 - 120	
Phenol-D5	62%	30 - 120	
Nitrobenzene-D_5	66%	30 - 120	
Batch:	8270W-112319-1		
Prepared:	11/23/2019		
Analyzed:	11/23/2019		

ND= Value less than reporting limit

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14680
		Client Ref. No.:	1690014992
Attn:	Tmothy Knapp	**Date Sampled:**	11/21/2019
		Date Received:	11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/23/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Jones ID:	**8270-112319-LCS1**	**8270-112319-LCSD1**			
Parameter	LCS Recovery (%)	LCSD Recovery (%)	**RPD**	**Acceptable RPD limit**	**% Recovery Limits**
Phenol	79%	82%	3.7%	35%	30-120
2-Chlorophenol	75%	78%	3.5%	50%	30-120
Surrogate Recovery:					
2-Fluorophenol	43%	86%			30 - 120
Phenol-D5	40%	82%			30 - 120
Nitrobenzene-D_5	49%	75%			30 - 120

Batch: 8270W-112319-1

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	11/25/2019
Client Address:	350 S Grand Ave, Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14680 1690014992
Attn:	Tmothy Knapp	**Date Sampled:** **Date Received:**	11/21/2019 11/21/2019
Project:	L3 Harris	**Date Analyzed:**	11/23/2019
Project Address:	Sylmar, CA	**Physical State:**	Soil

EPA 8270C by 3546 – Semivolatile Organics by GC/MS

	Result	Expected	%Deviation	Acceptable Deviation
CCV:	**8270-112319-CCV1**			
Analytes:				
1, 4-Dioxane	**5.01**	5.00	**0%**	20%

Surrogate Recovery:		**QC Limits**
2-Fluorophenol	107%	30 - 120
Phenol-D5	111%	30 - 120
Nitrobenzene-D_5	100%	30 - 120

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15826

PROJECT NAME/FACILITY ID: L3Harris
DATE: 11/21/2019
FIELD PERSON#: B. Jamison
PROJECT NUMBER: 1690014992
PROJECT MANAGER: T. Knapp
PROJECT LOCATION: Sylmar, CA
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B. Jamison

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (SO) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOCs (8260B)	1,4-Dioxane (8270)	Hex. Chrom. (7196)												COMMENTS
									Analysis Required														
MW-300-6-191121	11/21/19	0800	—	—	W	3	U	H/NO	X														SG-14680
MW-3-191121	↓	1001	65	—	↓	5	↓	↓	X	X	X												
MW-100-191121		1009	—	—					X	X	X												
MW-2-191121		1133	60	—					X	X	X												
MW-1-191121		1230	53	—					X	X	X												
TOTAL																							

BEJ 11/21/19

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
Brial. Jamison/B. Jamison	11/21/19 1330	Jones Env.	11/21/19
MARTIN YOUNG	11/21/19 1330		

TURNAROUND TIME (CIRCLE ONE): SAME DAY | 24 HOURS | 48 HOURS | 72 HOURS | 5 DAYS | NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

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- ☐ 2111 East Highland Avenue, Suite 402, Phoenix, AZ 85016 — +1 602 734 7700 — +1 602 734-7701

Page 1 of 1

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ramboll	**Report date:**	12/2/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA		
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

ANALYSES REQUESTED

Soil:

1. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

Approval:

David Mirakian, M.S.
Stationary Lab Chemist

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ramboll	**Report date:**	12/2/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:**	ST-14609
		Client Ref. No.:	1690014992
Attn:	Timothy Knapp	**Date Sampled:**	11/7/2019
		Date Received:	11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/27,12/02/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

Sample ID: **MW-4-5-191106** **Jones ID:** **ST-14609-07**

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Analytes:							
Silver, Ag	ND	1	I19112701	11/27/2019	11/27/2019	0.5	mg/kg
Arsenic, As	ND	1	"	"	"	5.0	mg/kg
Barium, Ba	**70.7**	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	**1.2**	1	"	"	"	0.5	mg/kg
Cobalt, Co	**7.8**	1	"	"	"	0.5	mg/kg
Chromium, Cr	**12.4**	1	"	"	"	0.5	mg/kg
Copper, Cu	**5.5**	1	"	"	"	3.0	mg/kg
Molybdenum, Mo	**0.9**	1	"	"	"	0.5	mg/kg
Nickel, Ni	**7.5**	1	"	"	"	0.5	mg/kg
Lead, Pb	**2.3**	1	"	"	"	0.5	mg/kg
Antimony, Sb	ND	1	"	"	"	5.0	mg/kg
Selenium, Se	ND	1	"	"	"	5.0	mg/kg
Thallium, Tl	ND	1	"	"	"	5.0	mg/kg
Vanadium, V	**20.6**	1	"	"	"	0.5	mg/kg
Zinc, Zn	**27.1**	1	"	"	"	5.0	mg/kg

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

	Result	Dilution	Batch	Prepared	Analyzed	Reporting Limit	Units
Mercury, Hg	ND	1	H19112701	11/27/2019	12/2/2019	0.020	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	12/2/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/27,12/02/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19112701** **Prepared:** 11/27/2019 **Analyzed:** 11/27/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
METHOD BLANK:	**I191127-MB1**						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					3.0	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					5.0	mg/kg

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	12/2/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/27,12/02/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **I19112701** **Prepared:** 11/27/2019 **Analyzed:** 11/27/2019

EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Units
LCS:	**I191127-LCS1**					
Barium, Ba	**202**	200	101%		80 - 120	mg/kg
Cobalt, Co	**50.9**	50.0	102%		80 - 120	mg/kg
Lead, Pb	**52.9**	50.0	106%		80 - 120	mg/kg
Selenium, Se	**198**	200	99%		80 - 120	mg/kg
Zinc, Zn	**51.1**	50.0	102%		80 - 120	mg/kg
LCSD:	**I191127-LCSD1**					
Barium, Ba	**203**	200	101%	0.6%	80 - 120	mg/kg
Cobalt, Co	**52.7**	50.0	105%	3.5%	80 - 120	mg/kg
Lead, Pb	**52.0**	50.0	104%	1.8%	80 - 120	mg/kg
Selenium, Se	**194**	200	97%	2.2%	80 - 120	mg/kg
Zinc, Zn	**52.0**	50.0	104%	1.8%	80 - 120	mg/kg
CCV:	**I191127-CCV1**					
Barium, Ba	**0.99**	1.00	99%		90-110	mg/L
Cobalt, Co	**0.98**	1.00	98%		90-110	mg/L
Lead, Pb	**1.03**	1.00	103%		90-110	mg/L
Selenium, Se	**0.99**	1.00	99%		90-110	mg/L
Zinc, Zn	**0.97**	1.00	97%		90-110	mg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ramboll	**Report date:**	12/2/2019
Client Address:	350 S. Grand Ave., Suite 2800 Los Angeles, CA 90071	**Jones Ref. No.:** **Client Ref. No.:**	ST-14609 1690014992
Attn:	Timothy Knapp	**Date Sampled:** **Date Received:**	11/7/2019 11/7/2019
Project:	Sylmar, CA	**Date Analyzed:**	11/27,12/02/2019
Project Address:	15825 Roxford St. Sylmar, CA 91342	**Physical State:**	Soil

BATCH: **H19112701** **Prepared:** 11/27/2019 **Analyzed:** 12/2/2019

EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
METHOD BLANK:	**H191127-MB1**						
Mercury, Hg	ND					0.020	mg/kg
LCS:	**H191127-LCS1**						
Mercury, Hg	**0.99**	1.00	99%		80 - 120		mg/kg
LCSD:	**H191127-LCSD1**						
Mercury, Hg	**1.01**	1.00	101%	**1.7%**	80 - 120		mg/kg
CCV:	**H191202-CCV1**						
Mercury, Hg	**4.96**	5.00	99%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

RAMBOLL

CHAIN-OF-CUSTODY FORM

№ 15877

PROJECT NAME/FACILITY ID: L3Harris
DATE: 11/7/19
FIELD PERSON#: B. Jamison
PROJECT NUMBER: 1690014992
PROJECT MANAGER: T. Knapp
PROJECT LOCATION: Sylmar, CA
LABORATORY: Jones Environmental

Sampler: B. Jamison
Signature: B. Jamison

ST-14609

SAMPLE ID NUMBER	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (F)	AIR SAMPLE VOLUME (L)	MATRIX: (A) AIR; (SG) SOIL GAS; (SO) SOIL (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	VOCs (8260)	1,4-Dioxane	Title 22 Metals	Hexavalent Chrom		COMMENTS
MW-4-5-191106**	11/6/19	1606	5	–	W	5	U		X		X	X	ST-14609-01	* Archive 20' samples, pending analysis of 5', 10', 15' ** Analyze MW-4-5-191106 for VOCs + Metals
MW-300-3-191106	↓	1700	–		SO	3						X	ST-14609-02	
SB-4-5-191107	11/7/19	1010	5			4							ST-14609-03	
SB-4-10-191107		1015	10										ST-14609-04	
SB-4-15-191107		1020	15										ST-14609-05	
SB-4-20-191107*		1025	20										ST-14609-06	
SB-5-5-191107		1355	5			5				X	X	X	ST-14609-07	
SB-5-10-191107		1400	10										ST-14609-08	
SB-5-15-191107		1410	15										ST-14609-09	
SB-5-20-191107*	↓	1418	20	↓	↓	↓	↓		↓	↓	↓	↓	ST-14609-10	
TOTAL														

B.J.

RELINQUISHED BY	TIME/DATE	RECEIVED BY COMPANY	TIME/DATE
B. Jamison	11/7/19 1620	MARTIN YOUNG	11/7/19 1620
	11/7/19 1900		19:00

TURNAROUND TIME (CIRCLE ONE): SAME DAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT Y N TEMP_____

SAMPLE INTEGRITY: INTACT Y N

H = HCL; N = HNO; S = H_2SO; U = UNKNOWN; NO = NONE; O = OTHER; V = VARIOUS

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