

Date: June 8, 2021 Project No.: 336-10-3

Prepared For: Mr. Mark Lazzarini

DAL PROPERTIES, LLC

255 West Julian Street, Suite 502

San Jose, CA 95126

Re: | Soil and Soil Vapor Quality Evaluation

Camden Avenue and Malpas Drive

San Jose, CA

Dear Mr. Lazzarini:

Cornerstone Earth Group, Inc. (Cornerstone) is pleased to present this letter summarizing the results of our Soil and Soil Vapor Quality Evaluation at the 1-acre parcel located southeast of the Camden Avenue and Malpas Drive intersection (APN 567-26-014) in San Jose, California (Site, Figures 1, 2 and 3). This work was performed for Dal Properties, LLC (DAL) in accordance with our February 8, and April 8, 2021 Agreements (Agreements).

### **Project Background**

The Site consists of undeveloped land that is bound by Camden Avenue to the west, Guadalupe River to the east, residential development to the north, and undeveloped land to the south. Groundwater gradients generally trend to the west relative to the Site. We understand Dal is planning to redevelop the Site for residential purposes.

Based on our Phase I Environmental Site Assessment (ESA) dated June 5, 2020, the Site was used mainly for agricultural purposes until the early 1980s. The Site has since remained undeveloped until the present. A dry cleaning business was identified at 5837 Camden Avenue (Tenant Space E), located across Camden Avenue to the west of the Site. This dry cleaning business is in the approximate up-gradient to cross-gradient groundwater flow direction relative to the Site.

### **Purpose**

This letter summarizes the soil and soil vapor quality investigation; its purpose is to evaluate potential agricultural and dry-cleaning impacts to the Site. The results of the subsurface investigation presented in this letter are intended for the use in evaluating these potential impacts to the proposed single family home development.

### Soil and Soil Vapor Sampling

### **Pre-Field Activities**

Prior to performing field work, we marked our boring locations three working days prior to beginning our explorations as required by law, and notified the regional utility notification center – Underground Service Alert (USA), so that public and private utilities can be identified and



marked at the ground surface. We marked our locations using wooden stakes with white flagging, as requested by USA. Utility operators/owners marked their utilities at the ground surface prior to the start of work. To reduce the risk of damaging unidentified underground utilities during drilling, we contracted a private utility locator.

Cornerstone prepared a Health and Safety Plan (HSP) for personnel conducting the subsurface investigation and earthwork operations at the Site; field staff was required to complete a 40-hour HAZWOPER training course (29 CFR 1910.120 (e)), including respirator and personal protective equipment training. The minimum level of protection for workers performing Site investigation activities was Level D.

### **Exploratory Borings**

On February 24 and 26, 2021, Cornerstone's field geologist directed a subsurface investigation to advanced two 15-foot exploratory borings for soil vapor sample collection and eight 2-foot borings for soil sample collection. Soil vapor probe SV-1 was located in the northwest corner of the Site. Soil vapor probe SV-2 was located approximately in line with the dry cleaning business located in Tenant Space E. Soil borings EB-3 through EB-10 were located randomly across the Site. The exploratory borings are shown on Figures 2 and 3.

Probes SV-1 and SV-2 were advanced using direct push technology equipped with a Dual Wall Sampling System and were continuously logged in general accordance with the Unified Soil Classification System (ASTM D-2487). The Dual Wall Sampling System is comprised of two main components: an exterior steel casing and an inner sample barrel. The outer casing has a 2-inch outer diameter (OD) and a 1.5-inch inner diameter (ID). The sample barrel is 5 feet in length with a 1.375 inch outside diameter (OD) and a 1-inch inner diameter (ID). The Dual Wall sample barrel was loaded with a 5-foot acetate liner and installed inside the outer casing. The outer drive casing and inner sample barrel was hydraulically pushed to a depth of approximately 5 feet. As these tools were advanced, the inner sampling barrel collected the soil core sample. This sampler was then retrieved while the outer casing remained in place, protecting the integrity of the hole. A new sampler then was lowered into place and advanced another 5 feet to collect the next soil sample. This process continued until the desired depth of 15 feet was reached.

Borings EB-3 through EB-10 were advanced using hand sampling equipment (hand auger) to an approximate depth of 2 feet.

On May 4, 2021, Cornerstone re-mobilized to the Site and advanced seven additional 15-foot borings to construct probes SVP-1 through SVP-7 for soil vapor sample collection, using direct push technology as described above. The additional soil vapor samples were advanced within the approximate footprint of the proposed single family homes and are shown on Figure 3.

### **Subsurface Materials**

Cornerstone's field geologist logged boring SV-1, SV-2, and EB-3 through EB-10 in general accordance with the Unified Soil Classification System (USCS) and recorded observations on the boring logs attached to this letter. The upper approximately foot of surface materials consisted of reworked native soil, characterized as brown sandy clay with some fine subangular gravels. The reworked native soil was underlain by a layer of light brown sandy clay with some fine to coarse subangular gravels and localized red mottles that extends to approximately 10 to 12 feet. A light brown clay with sand and trace angular gravel is present to the maximum depth



explored of 15 feet. Groundwater was not encountered during this investigation. Boring logs are attached to this letter.

### **Organic Vapor Monitory (OVM) Readings**

Soil samples retrieved from borings SV-1, SV-2, and EB-2 through EB-10 were monitored with a MiniRAE 3000 Organic Vapor Meter (OVM) at approximately 2-foot intervals to record volatile organic compound (VOC) vapors. Organic vapor readings ranging from typical background concentrations (less than 0 part per million vapor [ppm<sub>v</sub>]) to 0.1 ppm<sub>v</sub>. No discolored or stained soil was observed in the soil samples.

### **Vapor Probe Construction**

Multi-depth subsurface probes were installed at SV-1, SV-2; single depth subsurface probes were installed at SVP-1 through SVP-7. The multi-depth subsurface probes constructed at SV-1 and SV-2 consisted of a stainless-steel expendable vapor tip installed at approximate depths of 5 and 15 feet below surface grade with screens affixed to stainless steel tubing; the single depth probes consisted of a stainless-steel expendable vapor tip installed at an approximate depth of 15 feet. The probes were constructed by first placing approximately 2 inches of coarse aquarium sand into the bottom of the borehole using a tremie pipe. The stainless-steel tip and tubing were lowered into the borehole via a tremie pipe. Additional sand is then placed in the borehole via tremie to create an approximately 1-foot sand pack interval around the vapor tip. Approximately 1 foot of granular bentonite (Benseal™) was placed on top of the sand pack via the tremie pipe. Bentonite "gel" was placed via tremie pipe on top of the dry granular bentonite to the bottom depth of the upper-sand pack hosting the shallower vapor tip. Prior to installing the upper-sand pack, an approximately 1-foot layer of dry granular bentonite was placed on top of the hydrated bentonite (using a tremie pipe) to help prevent settling of the upper-sand pack. The upper vapor point screen interval was constructed similar to the lower and the remainder of the borehole was sealed to the surface utilizing the hydrated bentonite procedures. The stainless-steel tubing was labeled with depth of placement and capped utilizing a vapor tight Swagelok valve set in the "off" position. The single depth probes were constructed similarly to the multi-depth probes with bentonite or bentonite gel extending from the sand pack to the ground surface.

### **Soil Sample Collection and Analysis**

Our field geologist collected soil samples from boring locations EB-3 to EB-10 form the upper approximate ½ foot and from 1½ feet to 2 feet. Soil samples were collected in clean (unused) stainless-steel liners, ends of the soil samples were covered in a Teflon film, fitted with plastic end caps, and labeled with a unique sample identification number. Soil samples were placed in an ice-chilled cooler and transported to a state certified laboratory under chain of custody control.

Selected soil samples were analyzed on a dry-weight basis for organochlorine pesticides (OCPs) by EPA Test Method 8081 and pesticide-related metals arsenic, lead, and mercury by EPA Test Method 6010/7471. Three soil samples were also analyzed for asbestos using polarized light microscopy (PLM) with a California Air Resources Board (CARB) 435 prep method. Based on initial sample results, deeper samples collected from borings EB-3 and EB-5 and held by the laboratory also were analyzed for OCPs.



### **Soil Vapor Sample Collection and Analysis**

On February 26, and May 19, 2021, the vapor probes were sampled by Cornerstone's field geologist, a licensed Professional Geologist. Vapor sampling was performed at least 48 hours after completing well construction activities on February 24, 2021. The tubing emanating from the vapor points was affixed to a sample shutoff valve in the "off" position during the time needed to reach equilibrium (at least 2 hours). A 167 milliliters-per-minute flow regulator inclusive of particulate filter was fitted to the shutoff valve and the other end to a "T" fitting. One end of the "T" was connected to the sampling summa canister. The other end of the "T" was affixed to a digital vacuum gauge and a 1-liter summa canister utilized for purging.

A minimum 10-minute vacuum tightness test was performed on the manifold and connections by opening and closing the 6-liter purge canister valve and applying and monitoring a vacuum on the vacuum gauge. The sample shut-off valve on the downhole side of the sampling manifold remained in the "off" position. When gauge vacuum had maintained for at least 10 minutes without any noticeable decrease (less than approximately 0.1 inches of mercury (Hg) for properly connected fittings), purging began. The downhole shut off valve was opened, and three pore volumes were removed utilizing the purging summa. Purge volumes of vapor were removed and verified by the calculated pressure drop in the 6-liter summa canister utilized for purging. The purge volume was calculated based on the length and inner diameter of the sampling probe and the connected sampling tubing and equipment. Assuming the vapor probe was properly sealed, the borehole sand pack vapor space equilibrated with the surrounding vapors following the 48-hour equilibration period. Thus, the sand pack vapor space was not included in the purge volume calculation.

Isopropyl alcohol was utilized as a leak detection compound during sampling by applying between 8 to 10 drops to cotton gauze and placing the moistened gauze near the borehole. Sampling began by opening the summa canister valve. Immediately upon opening the sampling valve, a shroud was placed over and enclosed the atmosphere of the borehole and entire sampling train including all connections.

Sampling continued until the vacuum gauge indicated approximately 10.35 inches of Hg remaining. A datalogging OVM utilized during sampling to monitor the atmosphere inside the shroud through a bulkhead fitting. The logged data (at minimum 1-minute intervals) was corrected to parts per million by volume isopropyl alcohol concentrations and utilized to evaluate the integrity of the sampling train. To confirm the isopropyl alcohol atmosphere, one confirmation sample was collected from the shroud atmosphere through the sampling port of the OVM.

The four soil vapor samples were analyzed for dry cleaning chemical tetrachloroethene (PCE) and its breakdown products Trichlorethylene (TCE), cis-1,2-dichlorethene (cDCE), trans-1,2-dichlorethene (tDCE), 1,1-dichlorethene (DCE), and vinyl chloride (VC) by EPA Test Method TO-15. In addition, one air sample was collected from the shroud atmosphere and analyzed for isopropyl alcohol.



### **Discussion of Analytical Results**

Data summary tables, analytical data sheets, and chain of custody documentation are attached to this letter. A summary of the analytical results is provided below.

### **Soil Analytical Results**

Cornerstone compared detected contaminants of potential concern (except arsenic, discussed below) to the Tier 1 Environmental Screening Levels (ESLs, Water Board, 2019). The Tier 1 ESLs are the more conservative screening levels used to evaluate shallow soil for unrestricted reuse. Exceedance of a Tier 1 ESL does not necessarily indicate contamination, but rather indicates that the soil may not be acceptable for unrestricted reuse. In these cases, soil may require landfill disposal. Other, less conservative screening levels, such as residential direct exposure ESLs, may be applicable for evaluating on- of off-Site reuse. An ESL for alpha and gamma-chlordane has not been established, and the ESL for total chlordane has been used for comparison for these compounds.

In some cases, such as for arsenic, naturally occurring background parameters are present at concentrations that exceed Tier 1 ESLs. The Water Board 2019 Environmental Screening Level User Guide indicates that background concentrations typically are evaluate on a site-specific basis, and the guidance provides references for regional background metal studies. Based on this guidance, the background concentrations used for comparison were 11 milligrams per kilogram (mg/kg) for arsenic (Duverge, 2011)<sup>1</sup>.

The soil results for metals and OCPs also were compared to Total Threshold Limit Concentration (TTLC) criteria established in Title 22 California Code of Regulations. The TTLC is the total concentration at which a solid waste is considered hazardous per Title 22 California Code of Regulations and is pertinent when evaluating waste disposal options.

Asbestos results were compared to the California Air Resources Board (CARB) Asbestos Toxic Control Measure (ATCM) regulatory threshold of 0.25 percent for construction and grading projects.

A summary of the soil data is provided below:

- 4,4' Dichlorodiphenyldichloroethylene (DDE) was detected in 9 of 10 samples analyzed at concentrations ranging from 0.0094 mg/kg to 0.62 mg/kg. The concentration detected at EB-5 (0-0.5) of 0.62 mg/kg exceeded the Tier 1 ESL of 0.33 mg/kg, but this concentration is below its residential direct exposure ESL of 1.8 mg/kg. Deeper samples collected from borings EB-3 and EB-5 revealed 4,4' DDE at concentrations of 0.083 mg/kg and 0.19 mg/kg, respectively.
- 4,4' Dichlorodiphenyltrichloroethane (DDT) was detected in 9 of 10 soil samples analyzed at concentrations ranging from 0.004 mg/kg to 0.38 mg/kg. The detected concentrations exceeded the Tier 1 ESL of 0.0011 mg/kg, but these concentrations are below the residential direct exposure ELS of 1.9 mg/kg. Deeper samples collected from borings EB-3 and EB-5 revealed 4,4' DDT at concentrations of 0.083 mg/kg and 0.19 mg/kg, respectively.



- Total DDT, which is the sum of DDE, DDD and DDT, was detected in the shallow soil sample collected from boring EB-5 at a concentration of 1 mg/kg; this concentration equals its TTLC of 1 mg/kg. Deeper soil samples collected from borings EB-3 and EB-5 revealed total DDT at 0.0918 mg/kg and 0.32 mg/kg, respectively. The 95 percent upper confidence limit¹ (UCL) of 0.709 mg/kg was calculated using USEPA ProUCL Version 5.1 statistical software (USEPA, 2015).
- Alpha and gamma-Chlordane were detected in soil collected from boring EB-8 at concentrations of 0.12 mg/kg and 0.15 mg/kg, respectively. The detected concentrations are above the Tier 1 ESL for total chlordane of 0.0085 mg/kg but are below the residential direct exposure ESL of 0.48 mg/kg.
- Arsenic was detected in all the samples analyzed at concentrations ranging from 4 mg/kg to 8.2 mg/kg, which are below its natural background concentration of 11 mg/kg (Duverge, 2011).
- Lead was detected in all the samples analyzed at concentrations ranging from 6.3 mg/kg to 36 mg/kg. The greatest concentration of lead detected was from the soil sample collected from boring EB-10 (0-0.5) was above the Tier 1 ESL of 32 mg/kg but is below its residential direct exposure ESL of 80 mg/kg.
- Mercury was detected in all the samples analyzed at concentrations ranging from 0.054 mg/kg to 0.48 mg/kg, which are below its Tier 1 ESL of 13 mg/kg.
- Asbestos was not detected above the laboratory reporting limit of 0.25% in the three samples analyzed.

### Soil Vapor

The analytical results of the soil vapor samples were compared to the Tier 1 Environmental Screening Levels (ESLs) established by the Water Board (January 2019).

- PCE was detected in 10 of 11 soil vapor samples at concentrations ranging from 7 micrograms per meter cubed (μg/m³) to 29 μg/m³. The detected concentration at probe SVP-3 of 29 μg/m³ at 15 feet exceeds the Tier 1 ESL for PCE of 15 μg/m³.
- TCE was detected in 3 of 11 soil vapor samples at concentrations ranging from 4.2 μg/m³ to 22 μg/m³. The greatest concentration was detected at probe SV-2 from 15 feet, exceeding the Tier 1 ESL of 16 μg/m³.

<sup>&</sup>lt;sup>1</sup> Because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent UCL of the arithmetic mean can be used for this variable. The 95 UCL was calculated for total DDT using USEPA's ProUCL software Version 5.1 (USEPA, 2016). The 95 percent UCL provides reasonable confidence that the true site average concentration will not be underestimated and accounts for uncertainties due to limited sampling data. The 95 percent UCL of a mean is defined as a value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time. The 95 percent UCL of the mean provides a conservative estimate of the average (or mean) concentration. A chemical contaminant is not considered to be present at a level of concern if the calculated 95 percent UCL is less than its respective regulatory threshold concentration (USEPA, 2007).



### **Soil Vapor Sample Integrity**

At soil vapor probes SV-1, SV-2, and SVP-1 through SVP-7, a shroud was placed over and enclosed the atmosphere of the borehole and the entire sampling train including all connections immediately upon opening the valve to the 1-liter sample Summa canister for sample integrity evaluation purposes. Isopropyl alcohol (2-propanol, 91 percent) was utilized as a leak detection compound during sampling by applying between eight and 15 drops to a cotton gauze and placing the moistened gauze near the borehole beneath the shroud. The concentration of isopropyl alcohol was monitored during sampling with a data logging organic vapor meter (OVM). 2-propanol was detected in the soil vapor sample collected from SVP-2 at a concentration of 91  $\mu$ g/m³.

To help confirm the sampling trains were sufficiently tight and the soil vapor data is representative of subsurface conditions, confirmation samples of the shroud atmosphere was collected from the exhaust port of the OVM and into a 1-liter summa canister during sampling at subsurface soil vapor location SV-1 (5 feet) collected on February 26, 2021, and SVP-2 collected on May 19, 2021. Laboratory analyses of the shroud atmosphere samples detected isopropyl alcohol (*i.e.*, 2-propanol) at 160,000  $\mu$ g/m³ and 110,000  $\mu$ g/m³ respectively. During the same sampling time, 2-propanol levels within the shroud atmosphere were measured by the OVM to range from 20,644  $\mu$ g/m³ to 61,933  $\mu$ g/m³ for SV-1, and 22,709  $\mu$ g/m³ to 106,319  $\mu$ g/m³ for SVP-2 with average concentrations of approximately 50,888  $\mu$ g/m³ and 57,976  $\mu$ g/m³, respectively. The OVM appeared to underestimate the shroud atmosphere.

Assuming the concentration of 2-propanol in soil vapor sample SV-1-5 was 12  $\mu$ g/m³ (reporting limit) and the detected concentration within the shroud atmosphere of 160,000  $\mu$ g/m³, sample SV-1-5 would have a leakage rate of less than 0.0075 percent (%). This data indicates that the sample trains for samples collected on February 26, 2021 were sufficiently tight, and no significant leakage occurred.

Assuming the concentration of 2-propanol in soil vapor sample SVP-2 was 91  $\mu$ g/m³ and the detected concentration within the shroud atmosphere of 110,000  $\mu$ g/m³, sample SVP-1 would have a leakage rate of less than 0.083%. This data indicates that the sample trains for samples collected on May 19, 2021 were sufficiently tight, and no significant leakage occurred.

### **Conclusions and Recommendations**

To help evaluate the potential impact to the on-Site soil from past agricultural use, eight borings were advanced at the Site and soil samples were collected from the upper approximate ½ foot of soil and approximately 1½ to 2 feet below the shallower sample. Laboratory analyses of the soil samples generally did not detect OCPs above their respective Tier 1 ESL. 4,4'-DDE was detected in a surface sample from boring EB-5 more than its Tier 1 ESL, but below its residential direct exposure ESL. Total DDT was detected above its TTLC of 1 mg/kg in the shallow soil samples collected at boring EB-5. Based on this data, the soil in this area may be classifiable as California hazardous waste if disposed. A deeper sample from 1½ to 2 feet was collected at this location and analyzed for OCPs, which laboratory testing did not detect total DDT above its TTLC. This indicates that the pesticide impacted soil appears to be limited to the upper ½ foot of soil. The calculated 95 percent UCL for total DDT for the Site is 0.709 mg/kg indicating that the issue is not likely a Sitewide concern. If excess soil is produced during grading operations, we recommend that the soil be profiled to evaluate appropriate soil disposal alternatives.



Due to the Site's proximity to the dry cleaner located at 5837 Camden Avenue, nine soil vapor probes were advance on the western boarder of the Site and within each of the proposed building footprints to assess if dry cleaning chemicals are present in the soil vapor below the Site. Dual depth soil vapor wells were constructed at depths of 5 and 15 feet at probes SV-1 and SV-2. Single depth wells (approximate depth of 15 feet) were constructed at probes SVP-1 through SVP-7. Soil vapor samples were collected at each depth and analyzed for the dry cleaning chemical PCE and its breakdown products. PCE and TCE were detected. The detected concentration of PCE at probe SVP-3 exceed its Tier 1 ESL. Additionally, TCE was detected at concentrations exceeding its Tier 1 ESL in probe SV-2 (approximate depth of 15 feet).

The detected concentrations of PCE and TCE below the Site indicated a moderate risk of vapor intrusion occurring in the proposed single-family homes. Vapor intrusion is the movement of chemical vapors from contaminated groundwater or soil vapor into a nearby building. Vapors primarily enter through openings in the building's foundation – such as cracks in the concrete slab and gaps around utility lines. It is also possible for vapors to pass through concrete, which is naturally porous. Once inside the building, vapors may be inhaled posing potential health risks.

To effectively eliminate vapor intrusion concerns, we recommend Dal Properties install a subslab depressurization (SSD) system overlain by a spray-applied vapor barrier membrane - a protective barrier to potential soil gas contaminants. An SSD system is designed to function by continuously creating a lower pressure directly underneath the building slab relative to the pressure within the building. The resulting sub-slab negative pressure inhibits soil gases from flowing into the building, essentially eliminating the potential for volatile chemical entry into the building. If present, volatile chemicals caught in this negative pressure field are collected and piped to ambient air discharge points. As an additional level of protection, a spray-applied membrane or seal is placed between the foundation of the building and the base materials, effectively sealing penetrations and the sub-slab to create an additional barrier to vapors from permeating through the slab and into the building.



### Closing

This letter, an instrument of professional service, was prepared for the sole use of DAL Properties, LLC and may not be reproduced or distributed without written authorization from Cornerstone. The chemical data presented in this letter may change over time and are only valid for this time and location. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

Should you have any questions regarding this letter, or if we may be of further service, please contact us at your convenience.

Sincerely,

Cornerstone Earth Group, Inc.

Michael F. Chang, P.E.

**Project Engineer** 

Ron L. Helm, P.G., C.Hg. Senior Principal Geologist

Attachments: Figures

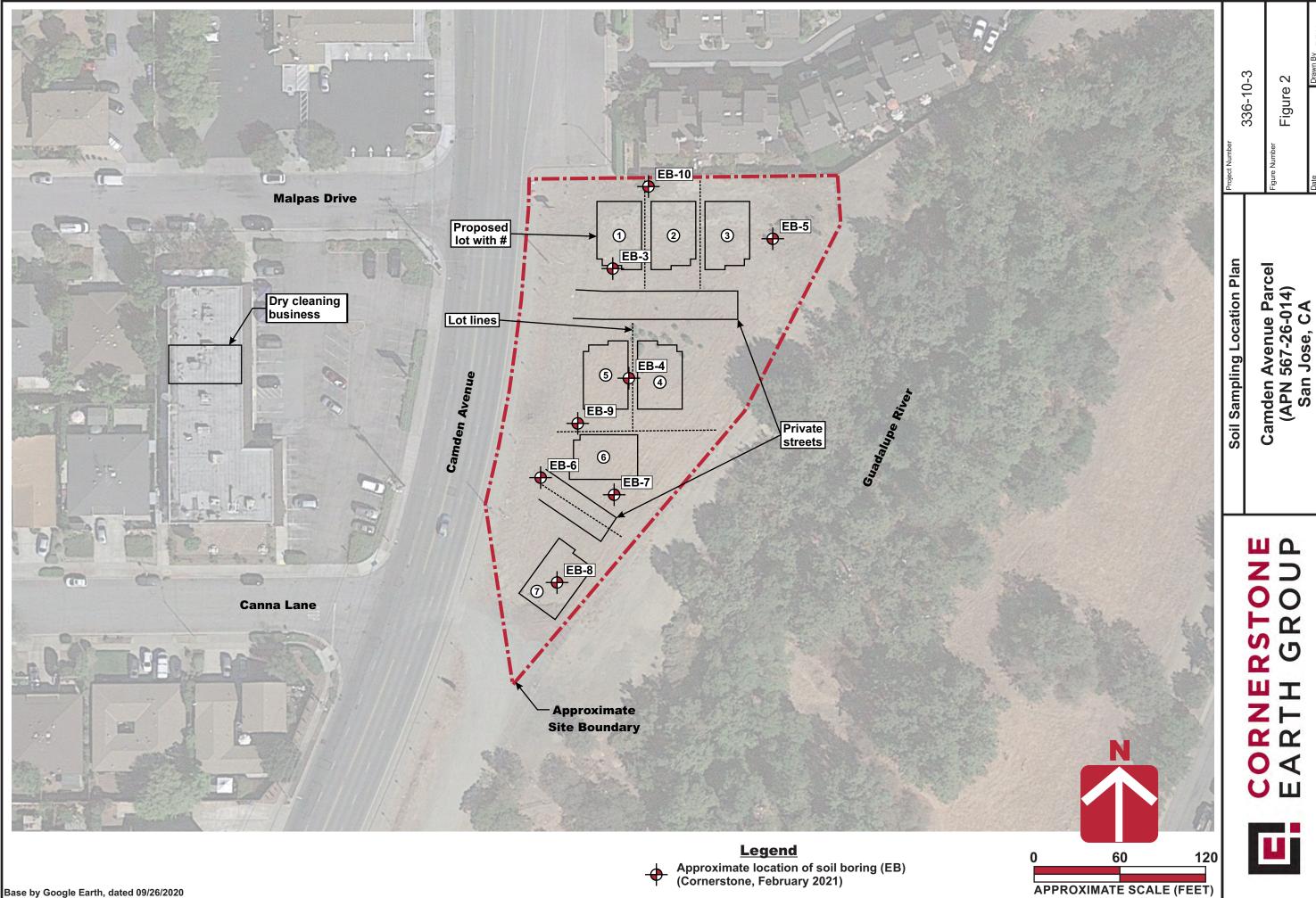
Data Tables Boring Logs

Laboratory Reports and Chain of Custody Records



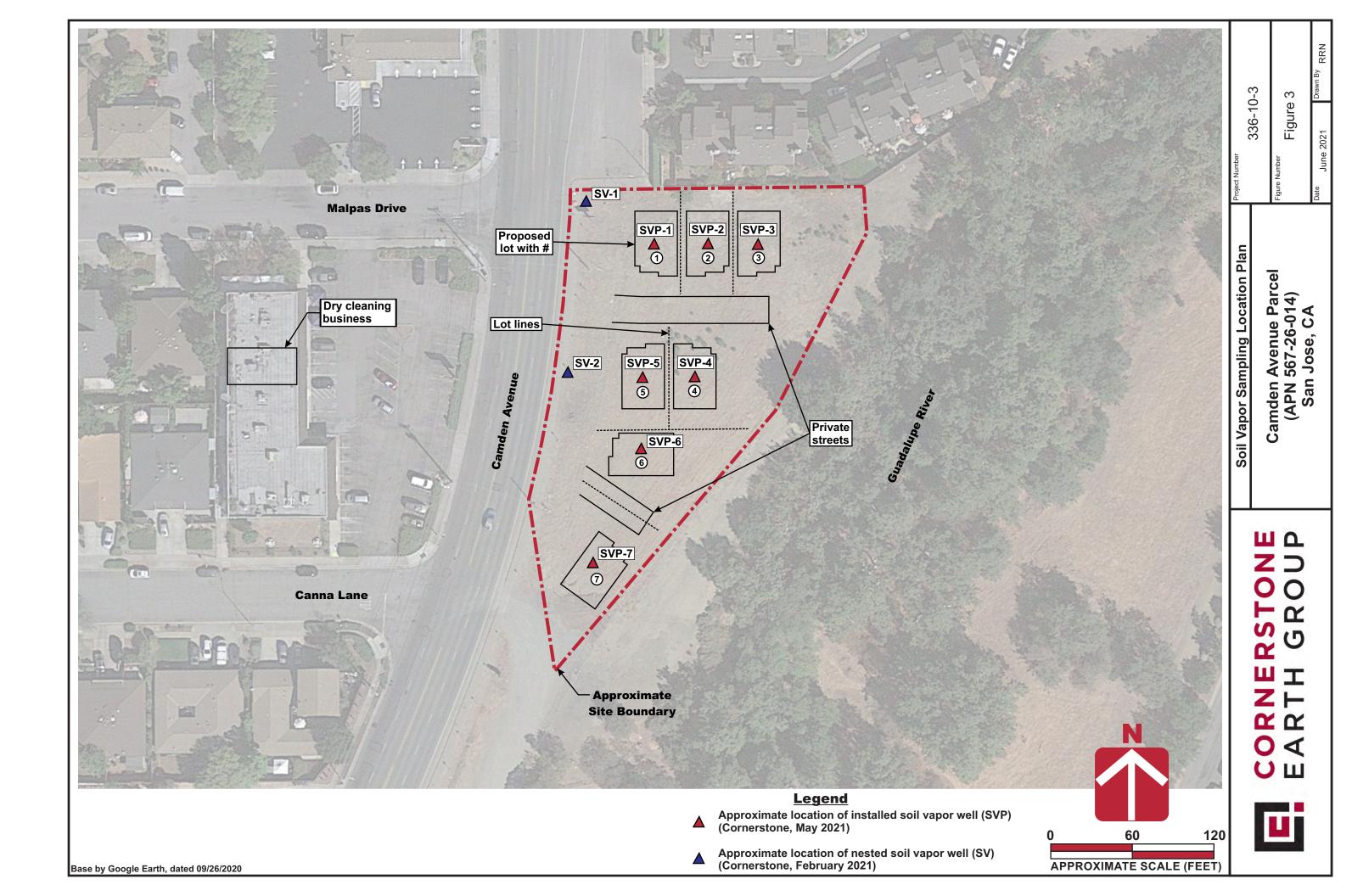
### **FIGURES**





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Figure 2





### **DATA TABLES**



### Table 1. Analytical Results of Selected Soil Samples

(Concentrations in mg/kg on a dry weight basis unless otherwise noted)

Sample Location	Boring ID	Sample I D	Date	Depth (feet)	4,4 ′ -DDE	4,4 ′ -DDT	DDT Total	alpha-Chlordane	gamma-Chlordane	Arsenic	Lead	Mercury	Asbestos (%)
Lot 1	EB-3	EB-3 (0-0.5)	2/24/2021	0-1/2	0.23	0.029	0.259	< 0.02	< 0.02	5.3	14	0.19	< 0.25
LOUI	ם ב	EB-3 (1.5-2)	2/24/2021	1½-2	0.083	0.0088	0.0918	< 0.0019	< 0.0019				
Lot 4	EB-4	EB-4 (0-0.5)	2/24/2021	0-1/2	0.038	0.013	0.051	<0.0098	<0.0098	5	19	0.28	
Lot 3	EB-5	EB-5 (0-0.5)	2/24/2021	0-1/2	0.62	0.38	1*	< 0.037	< 0.037	5.6	13	0.054	< 0.25
LOT 3	ED-3	EB-5 (1.5-2)	2/24/2021	1½-2	0.19	0.13	0.32	< 0.0017	< 0.0017				
Lot 6	EB-6	EB-6 (0-0.5)	2/24/2021	0-1/2	0.025	0.011	0.036	< 0.0094	< 0.0094	8.2	19	0.28	
Lot o	EB-7	EB-7 (0-0.5)	2/24/2021	0-1/2	< 0.0018	< 0.0018	<0.0018	< 0.0018	< 0.0018	4	6.3	0.1	
Lot 7	EB-8	EB-8 (0-0.5)	2/24/2021	0-1/2	0.048	0.02	0.068	0.12	0.15	4.3	18	0.092	< 0.25
Lot 5	EB-9	EB-9(0-0.5)	2/26/2021	0-1/2	0.0094	0.0044	0.0138	< 0.0018	< 0.0018	6.3	9.4	0.48	
Lot 2	EB-10	EB-10(0-0.5)	2/26/2022	0-1/2	0.11	0.011	0.121	<0.0088	<0.0088	4.5	36	0.44	
	Maxi	mum Detection			0.62	0.38	1	0.12	0.15	8.2	36	0.48	<0.25
	Scre	eening Criteria			0.33 (1.8)	0.0011 (1.9)	1	0.0085 (0.48)	0.0085 (0.48)	11	32 (80)	13	0.25
		Basis			ESL <sup>1</sup>	ESL <sup>1</sup>	TTLC <sup>2</sup>	ESL <sup>3</sup>	ESL <sup>3</sup>	Duverge <sup>4</sup>	ESL <sup>1</sup>	ESL <sup>1</sup>	ATCM <sup>5</sup>

<sup>1</sup> Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019. Number in parenthesis is the residential direct exposure ESL.

**BOLD** Concentration at or exceeds TTLC

<sup>2</sup> Total Threshold Limit Concentration (TTLC) - California Code of Regulations, Title 22.

<sup>3</sup> Tier 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019. ESLs for alpha, and gamma chlordane have not been established, Tier 1 ESL for total chlordane is used. Number in parenthesis is the residential direct exposure ESL for total chlordane.

<sup>4</sup> Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.

<sup>5</sup> California Air Resource Board (CARB) - Air Toxic Control Measure (ATCM) - asbestos regulatory threshold screening level.

<sup>\*</sup> A 95% UCL was calculated for the site at 0.709 mg/kg.

<sup>&</sup>lt; Not detected at or above laboratory reporting limit

<sup>---</sup> Not analyzed



Table 2. Analytical Results of Soil Vapor Samples

(Concentrations in  $\mu g/m^3$ )

Sample Location	Boring ID	Sample ID	Date	Depth (feet)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1 - DCE	Vinyl Chloride	Isopropanol
Northwest Corner	SV-1	SV-1-5	2/26/2021	5	< 3.4	< 2.7	<2.0	<2.0	<2.0	<1.3	<12
Northwest come	3 1	SV-1-15	2/26/2021	15	9.7	4.6	< 2.0	< 2.0	<2.0	<1.3	<12
Across From Dry Cleaning Business	SV-2	SV-2-5	2/26/2021	5	7.9	< 2.7	< 2.0	< 2.0	< 2.0	< 1.3	<12
Across From Dry Cleaning Business	30-2	SV-2-15	2/26/2021	15	7.8	22	< 2.0	< 2.0	< 2.0	< 1.3	<12
Lot1	SVP-1	SVP-1	5/19/2021	15	7	< 2.7	< 2.0	< 2.0	< 2.0	< 1.3	<12
Lot 2	SVP-2	SVP-2	5/19/2021	15	11	< 2.7	< 2.0	< 2.0	< 2.0	< 1.3	91
Lot 3	SVP-3	SVP-3	5/19/2021	15	29	< 2.7	< 2.0	< 2.0	< 2.0	< 1.3	<12
Lot 4	SVP-4	SVP-4	5/19/2021	15	11	<2.7	<2.0	<2.0	< 2.0	<1.3	<12
Lot 5	SVP-5	SVP-5	5/19/2021	15	9.5	<2.7	< 2.0	< 2.0	<2.0	<1.3	<12
Lot 6	SVP-6	SVP-6	5/19/2021	15	9.9	< 2.7	< 2.0	< 2.0	< 2.0	< 1.3	<12
Lot 7	SVP-7	SVP-7	5/19/2021	15	10	4.2	<2.0	<2.0	<2.0	<1.3	<12
Maxir	num Detection				29	22	<2.0	<2.0	<2.0	<1.3	91
ES	SL <sup>1</sup> - Tier 1				15	16	280	2800	2400	0.32	NE

<sup>1</sup> Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019.< Not detected at or above laboratory reporting limit</li>

**BOLD** Concentration exceeds selected Environmental Screening Criteria

NE Not Established



### **BORING LOGS**

# **Soil Vapor Probe SV-1**

PROJECT NAME Camden Ave and Malpas Dr

PAGE 1 OF 1



12:13 - P:\DRAFTING\GINT

-3/8/21

CORNERSTONE 0812.GDT

WELL LOG

ВE

CORNERSTONE

PROJECT NUMBER 336-10-2 PROJECT LOCATION San Jose, CA DATE STARTED 2/24/21 DATE COMPLETED 2/24/21 GROUND ELEVATION **BORING DEPTH** 15 ft. **DRILLING CONTRACTOR** Penecore **BORING DIAMETER** ft **DRILLING METHOD** Geoprobe 6712DT, Direct Push **GROUND WATER LEVELS:** ✓ AT TIME OF DRILLING Not Encountered LOGGED BY BJT **TAT END OF DRILLING** Not Encountered PERMIT NUMBER **INSPECTOR** This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may drifter at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual. Odors or Discoloration Percent Recovery (%) Sample Type M Reading (ppm) € ELEVATION SYMBOL DEPTH ( Well Details **DESCRIPTION** 0 Sandy Clay (CL) [Reworked native] (2) labeled, 0.25" dry, brown, some fine subagular gravel diameter stainless steel tubes in Sandy Clay (CL) [Fill] protective vault box 0.0 dry, brown, some fine to coarse subagular gravel Hydrated Bentonite 0-3.0' 30 Hydrated Bentonite 0-3.0 Dry Bentonite 3.0-4.0' 0.1 AMS Porous Tip at 4.8' in coarse Sand Dry Bentonite 5.0-6.0' 0.0 2" Diameter borehole 40 0.0 0.0 Hydrated Bentonite 6.0-13.0' 10 Clay with Sand (CL) moist, light brown with reddish brown mottles, some 0.0 fine subangular gravel 85 0.0 Dry Bentonite 13 0-14 0' 0.0 AMS Porous Tip at 15 Bottom of Boring at 15.0 feet. 14.8' in coarse Sand 20

# **Soil Vapor Probe SV-2**

PROJECT NAME Camden Ave and Malpas Dr

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-3/8/21

CORNERSTONE 0812.GDT

WELL LOG

ВE

CORNERSTONE

PROJECT NUMBER 336-10-2 PROJECT LOCATION San Jose, CA DATE STARTED 2/24/21 DATE COMPLETED 2/24/21 GROUND ELEVATION **BORING DEPTH** 15 ft. **DRILLING CONTRACTOR** Penecore **BORING DIAMETER** ft **DRILLING METHOD** Geoprobe 6712DT, Direct Push **GROUND WATER LEVELS:** ✓ AT TIME OF DRILLING Not Encountered LOGGED BY BJT **TAT END OF DRILLING** Not Encountered PERMIT NUMBER **INSPECTOR** This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may drifter at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual. Odors or Discoloration Percent Recovery (%) Sample Type M Reading (ppm) € ELEVATION SYMBOL DEPTH ( Well Details **DESCRIPTION** 0 Sandy Clay (CL) [Reworked native] (2) labeled, 0.25" dry, brown, some fine subagular gravel diameter stainless steel tubes in Sandy Clay (CL) [Fill] protective vault box 0.0 dry, brown, some fine to coarse subagular gravel Hydrated Bentonite 0-3.0' 30 Hydrated Bentonite 0-3.0 Dry Bentonite 3.0-4.0' 0.0 AMS Porous Tip at 4.8' in coarse Sand Dry Bentonite 5.0-6.0' 0.0 2" Diameter borehole 70 0.0 0.0 Hydrated Bentonite 6.0-13.0' 10 Clay with Sand (CL) moist, light brown with reddish brown mottles, some 0.0 fine subangular gravel 70 0.0 Dry Bentonite 13 0-14 0' 0.0 AMS Porous Tip at 15 Bottom of Boring at 15.0 feet. 14.8' in coarse Sand 20



### LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins TestAmerica, Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

Laboratory Job ID: 320-70441-1

Client Project/Site: Camden Ave and Malpas Drive SQE

For:

Cornerstone Earth Group 1220 Oakland Blvd Suite 220 Walnut Creek, California 94085

Attn: Kurt Soenen

Atraneh Sil

Authorized for release by: 3/11/2021 7:22:48 PM

Afsaneh Salimpour, Senior Project Manager (925)484-1919 Afsaneh.Salimpour@Eurofinset.com

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**Have a Question?** 



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Definitions/Glossary**

Job ID: 320-70441-1 Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

### **Qualifiers**

### **GC Semi VOA**

Qualifier **Qualifier Description** 

F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased.

### **Glossary**

Abbreviation These commonly used abbreviations may or n	ay not be present in this report.
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¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

**Dilution Factor** Dil Fac

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

3/11/2021

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### **Case Narrative**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Laboratory: Eurofins TestAmerica, Sacramento

**Narrative** 

Job Narrative 320-70441-1

### Comments

No additional comments.

### Receipt

The samples were received on 2/24/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° C.

#### GC Semi VOA

Method 8081A: The following samples were diluted to bring the concentration of target analytes within the calibration range: EB-4 (0-0.5) (320-70441-7) and EB-6 (0-0.5) (320-70441-11). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 320-466566 and analytical batch 320-468388 recovered outside control limits in the confirmation column for the following analytes: Aldrin, cis-Chlordane, 4,4'-DDE, gamma-BHC (Lindane), trans-Chlordane, Dieldrin and Heptachlor epoxide. These analytes were in control in the primary column therefore, the data have been reported.

Method 8081A: The following samples were diluted due to the nature of the sample matrix: (320-70451-A-2-H), (320-70451-A-2-I MS) and (320-70451-A-2-J MSD). Elevated reporting limits (RLs) are provided.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-466566 and analytical batch 320-468388 were outside control limits. Sample matrix interference are suspected.

Method 8081A: The following samples were diluted due to abundance of target analytes: EB-3 (0-0.5) (320-70441-5), EB-5 (0-0.5) (320-70441-9) and EB-8 (0-0.5) (320-70441-15). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 320-70441-1

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Client Sample ID: EB-3 (0-0.5)

Project/Site: Camden Ave and Malpas Drive SQE

Project/oile. Camden Ave and Maipas Drive OQL

Lab Sample ID: 320-70441-5

Lab Sample ID: 320-70441-7

Lab Sample ID: 320-70441-9

Lab Sample ID: 320-70441-11

Lab Sample ID: 320-70441-13

Lab Sample ID: 320-70441-15

Job ID: 320-70441-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	230		20		ug/Kg	10	₩	8081A	Total/NA
4,4'-DDT	29		20		ug/Kg	10	₩	8081A	Total/NA
Lead	14		1.2		mg/Kg	1	₩	6010B	Total/NA
Arsenic	5.3		2.3		mg/Kg	1	₩	6010B	Total/NA
Mercury	0.19		0.050		mg/Kg	1	₩	7471A	Total/NA

# Client Sample ID: EB-4 (0-0.5)

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
4,4'-DDE	38	9.8	ug/Kg	5		Total/NA
4,4'-DDT	13	9.8	ug/Kg	5	≎ 8081A	Total/NA
Lead	19	1.1	mg/Kg	1	Ф 6010В	Total/NA
Arsenic	5.0	2.3	mg/Kg	1	≎ 6010В	Total/NA
Mercury	0.28	0.045	mg/Kg	1	<b>҈ 7471А</b>	Total/NA

### Client Sample ID: EB-5 (0-0.5)

Analyte 4,4'-DDE 4,4'-DDT	Result Qualified	RL 37	MDL Unit	20	Method	Prep Type Total/NA Total/NA
Lead	13	1.1	ug/Kg mg/Kg	1	≎ 6010B	Total/NA
Arsenic Mercury	5.6 0.054	2.1 0.042	mg/Kg mg/Kg	1 ±	≄ 6010B ≄ 7471A	Total/NA Total/NA

### Client Sample ID: EB-6 (0-0.5)

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
4,4'-DDE	25	9.4	ug/Kg	5	⇔ 8081A	Total/NA
4,4'-DDT	11	9.4	ug/Kg	5	≎ 8081A	Total/NA
Lead	19	1.1	mg/Kg	1	≎ 6010B	Total/NA
Arsenic	8.2	2.1	mg/Kg	1	≎ 6010B	Total/NA
Mercury	0.28	0.041	mg/Kg	1	≎ 7471A	Total/NA

# Client Sample ID: EB-7 (0-0.5)

Analyte	Result Q	ualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.3	1.1		mg/Kg	1	₩	6010B	Total/NA
Arsenic	4.0	2.2		mg/Kg	1	₩	6010B	Total/NA
Mercury	0.10	0.047		mg/Kg	1	₩	7471A	Total/NA

## Client Sample ID: EB-8 (0-0.5)

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	48	18	ug/Kg		₩	8081A	Total/NA
4,4'-DDT	20	18	ug/Kg	10	₽	8081A	Total/NA
cis-Chlordane	120	18	ug/Kg	10	₽	8081A	Total/NA
trans-Chlordane	150	18	ug/Kg	10	☼	8081A	Total/NA
Lead	18	1.0	mg/Kg	1	₩	6010B	Total/NA
Arsenic	4.3	2.1	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.092	0.041	mg/Kg	1	₩	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

3/11/2021

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Client: Cornerstone Earth Group Job ID: 320-70441-1

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-3 (0-0.5)

Lab Sample ID: 320-70441-5

Date Collected: 02/24/21 09:40

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 86.3

Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	20	ī	ug/Kg	— <u></u>	03/02/21 09:28	03/09/21 17:14	10
4,4'-DDE	230	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
4,4'-DDT	29	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Aldrin	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
alpha-BHC	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
beta-BHC	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
gamma-BHC (Lindane)	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
delta-BHC	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
cis-Chlordane	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
trans-Chlordane	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Dieldrin	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endosulfan I	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endosulfan II	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endosulfan sulfate	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endrin	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endrin aldehyde	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Endrin ketone	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Heptachlor	ND	20	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Heptachlor epoxide	ND	20		ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Methoxychlor	ND	39	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Toxaphene	ND	770	ι	ug/Kg	₩	03/02/21 09:28	03/09/21 17:14	10
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107	47 - 107				03/02/21 09:28	03/09/21 17:14	10
Tetrachloro-m-xylene	105	47 - 107				03/02/21 09:28	03/09/21 17:14	10
DCB Decachlorobiphenyl	141 S1+	- 46 - 109				03/02/21 09:28	03/09/21 17:14	10
DCB Decachlorobiphenyl	128 S1+	- 46 - 109				03/02/21 09:28	03/09/21 17:14	10

Analyte	Result Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Lead	14	1.2		ng/Kg			02/26/21 10:46	1
Arsenic	5.3	2.3	m	ng/Kg	☼	02/25/21 13:15	02/26/21 10:46	1
Mothod: 7474 A. Moroum. (C	21/A A)							
Method: 7471A - Mercury (C Analyte	Result Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	0.050		ng/Kg	— <del>—</del>	03/01/21 09:00	03/01/21 16:24	1
Conoral Chamiatry								
General Chemistry								

 Client Sample ID: EB-4 (0-0.5)

 Date Collected: 02/24/21 09:18
 Matrix: Solid

 Date Received: 02/24/21 11:45
 Percent Solids: 85.9

RL

0.1

**RL** Unit

Result Qualifier

13.7

Analyte

**Percent Moisture** 

Method: 8081A - Organo	chlorine Pesticides (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND ND	9.8	ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
4,4'-DDE	38	9.8	ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
4,4'-DDT	13	9.8	ug/Kg	☼	03/02/21 09:28	03/08/21 19:57	5
Aldrin	ND	9.8	ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5

Eurofins TestAmerica, Sacramento

Analyzed

02/25/21 12:07

Dil Fac

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Prepared

**General Chemistry** 

Analyte

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-4 (0-0.5) Lab Sample ID: 320-70441-7

Date Collected: 02/24/21 09:18 **Matrix: Solid** Date Received: 02/24/21 11:45

Percent Solids: 85.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		9.8		ug/Kg	— <u></u>	03/02/21 09:28	03/08/21 19:57	- 5
beta-BHC	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
delta-BHC	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
cis-Chlordane	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
trans-Chlordane	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Dieldrin	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endosulfan I	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endosulfan II	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endosulfan sulfate	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endrin	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endrin aldehyde	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Endrin ketone	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Heptachlor	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Heptachlor epoxide	ND		9.8		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Methoxychlor	ND		20		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Toxaphene	ND		390		ug/Kg	₩	03/02/21 09:28	03/08/21 19:57	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		47 - 107				03/02/21 09:28	03/08/21 19:57	5
Tetrachloro-m-xylene	62		47 - 107				03/02/21 09:28	03/08/21 19:57	5
DCB Decachlorobiphenyl	60		46 - 109				03/02/21 09:28	03/08/21 19:57	5
DCB Decachlorobiphenyl	75		46 - 109				03/02/21 09:28	03/08/21 19:57	5
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		1.1		mg/Kg	₩	02/25/21 13:15	02/26/21 10:50	1
Arsenic	5.0		2.3		mg/Kg	₩	02/25/21 13:15	02/26/21 10:50	1
Method: 7471A - Mercury (CVA	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.045		mg/Kg	₩	03/01/21 09:00	03/01/21 16:26	1

0.1 02/25/21 12:07 **Percent Moisture** 14.1 Client Sample ID: EB-5 (0-0.5) Lab Sample ID: 320-70441-9

RL

**RL** Unit

Result Qualifier

Date Collected: 02/24/21 08:19 **Matrix: Solid** Date Received: 02/24/21 11:45 Percent Solids: 90.9

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND ND	37		ug/Kg	<u></u>	03/02/21 09:28	03/09/21 17:32	20
4,4'-DDE	620	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
4,4'-DDT	380	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
Aldrin	ND	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
alpha-BHC	ND	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
beta-BHC	ND	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
gamma-BHC (Lindane)	ND	37		ug/Kg	₽	03/02/21 09:28	03/09/21 17:32	20
delta-BHC	ND	37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20

Eurofins TestAmerica, Sacramento

Analyzed

Dil Fac

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D

Prepared

Job ID: 320-70441-1

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-5 (0-0.5)

Date Collected: 02/24/21 08:19 Date Received: 02/24/21 11:45

**General Chemistry** 

**Percent Moisture** 

Analyte

Lab Sample ID: 320-70441-9

Matrix: Solid

Percent Solids: 90.9

Job ID: 320-70441-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	ND		37		ug/Kg	<u></u>	03/02/21 09:28	03/09/21 17:32	20
trans-Chlordane	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Dieldrin	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Endosulfan I	ND		37		ug/Kg	☼	03/02/21 09:28	03/09/21 17:32	20
Endosulfan II	ND		37		ug/Kg	☼	03/02/21 09:28	03/09/21 17:32	20
Endosulfan sulfate	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Endrin	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Endrin aldehyde	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Endrin ketone	ND		37		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Heptachlor	ND		37		ug/Kg	☼	03/02/21 09:28	03/09/21 17:32	20
Heptachlor epoxide	ND		37		ug/Kg	⊅	03/02/21 09:28	03/09/21 17:32	20
Methoxychlor	ND		74		ug/Kg	☼	03/02/21 09:28	03/09/21 17:32	20
Toxaphene	ND		1500		ug/Kg	₩	03/02/21 09:28	03/09/21 17:32	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		47 - 107				03/02/21 09:28	03/09/21 17:32	20
Tetrachloro-m-xylene	82		47 - 107				03/02/21 09:28	03/09/21 17:32	20
DCB Decachlorobiphenyl	102		46 - 109				03/02/21 09:28	03/09/21 17:32	20
DCB Decachlorobiphenyl	104		46 - 109				03/02/21 09:28	03/09/21 17:32	20
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.1		mg/Kg	<u></u>	02/25/21 13:15	02/26/21 10:54	1
Arsenic	5.6		2.1		mg/Kg	☼	02/25/21 13:15	02/26/21 10:54	1
- Method: 7471A - Mercury (CVA	<b>(A</b> )								
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	Nesuit	Qualifici		1410	·	_	opa.oa	,u.,u	D uo

Client Sample ID: EB-6 (0-0.5)

Date Collected: 02/24/21 10:00

Matrix: Solid

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-11

Matrix: Solid

Percent Solids: 89.8

RL

0.1

**RL** Unit

%

D

Prepared

Result Qualifier

9.1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND -	9.4		ug/Kg	<del></del>	03/02/21 09:28	03/08/21 20:35	5
4,4'-DDE	25	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
4,4'-DDT	11	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
Aldrin	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
alpha-BHC	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
beta-BHC	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
gamma-BHC (Lindane)	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
delta-BHC	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
cis-Chlordane	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
trans-Chlordane	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
Dieldrin	ND	9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
Endosulfan I	ND	9.4		ug/Kg	₽	03/02/21 09:28	03/08/21 20:35	5

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\_

4

6

Q Q

10

12

13

Dil Fac

Analyzed

02/25/21 12:07

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-6 (0-0.5)

Date Collected: 02/24/21 10:00 Date Received: 02/24/21 11:45 Lab Sample ID: 320-70441-11

Matrix: Solid

Percent Solids: 89.8

Job ID: 320-70441-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		9.4		ug/Kg	<u></u>	03/02/21 09:28	03/08/21 20:35	5
Endosulfan sulfate	ND		9.4		ug/Kg	⊅	03/02/21 09:28	03/08/21 20:35	5
Endrin	ND		9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
Endrin aldehyde	ND		9.4		ug/Kg	⊅	03/02/21 09:28	03/08/21 20:35	5
Endrin ketone	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Heptachlor	ND		9.4		ug/Kg	₩	03/02/21 09:28	03/08/21 20:35	5
Heptachlor epoxide	ND		9.4		ug/Kg	⊅	03/02/21 09:28	03/08/21 20:35	5
Methoxychlor	ND		19		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Toxaphene	ND		370		ug/Kg	≎	03/02/21 09:28	03/08/21 20:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		47 - 107				03/02/21 09:28	03/08/21 20:35	5
Tetrachloro-m-xylene	62		47 - 107				03/02/21 09:28	03/08/21 20:35	5
DCB Decachlorobiphenyl	56		46 - 109				03/02/21 09:28	03/08/21 20:35	5
DCB Decachlorobiphenyl	73		46 - 109				03/02/21 09:28	03/08/21 20:35	5
Method: 6010B - Metals (IC	CP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead			1.1		mg/Kg	<u></u>	02/25/21 13:15	02/26/21 10:58	1
Arsenic	8.2		2.1		mg/Kg	☼	02/25/21 13:15	02/26/21 10:58	1
Method: 7471A - Mercury (	(CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.041		mg/Kg	☼	03/01/21 09:00	03/01/21 16:31	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1		%			02/25/21 12:07	

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Date Collected: 02/24/21 07:59 Date Received: 02/24/21 11:45 Matrix: Solid
Percent Solids: 88.2

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND ND	1.8		ug/Kg	<del>-</del>	03/02/21 09:28	03/08/21 20:53	1
4,4'-DDE	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
4,4'-DDT	ND	1.8		ug/Kg	₩	03/02/21 09:28	03/08/21 20:53	1
Aldrin	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
alpha-BHC	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
beta-BHC	ND	1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
gamma-BHC (Lindane)	ND	1.8		ug/Kg	⊅	03/02/21 09:28	03/08/21 20:53	1
delta-BHC	ND	1.8		ug/Kg	₩	03/02/21 09:28	03/08/21 20:53	1
cis-Chlordane	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
trans-Chlordane	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
Dieldrin	ND	1.8		ug/Kg	≎	03/02/21 09:28	03/08/21 20:53	1
Endosulfan I	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
Endosulfan II	ND	1.8		ug/Kg	⊅	03/02/21 09:28	03/08/21 20:53	1
Endosulfan sulfate	ND	1.8		ug/Kg	≎	03/02/21 09:28	03/08/21 20:53	1
Endrin	ND	1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
Endrin aldehyde	ND	1.8		ug/Kg		03/02/21 09:28	03/08/21 20:53	1

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# **Client Sample Results**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-7 (0-0.5)

Date Collected: 02/24/21 07:59 Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-13

**Matrix: Solid** 

Percent Solids: 88.2

Job ID: 320-70441-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		1.8		ug/Kg	≎	03/02/21 09:28	03/08/21 20:53	1
Heptachlor	ND		1.8		ug/Kg	≎	03/02/21 09:28	03/08/21 20:53	1
Heptachlor epoxide	ND		1.8		ug/Kg	₽	03/02/21 09:28	03/08/21 20:53	1
Methoxychlor	ND		3.7		ug/Kg	≎	03/02/21 09:28	03/08/21 20:53	1
Toxaphene	ND		72		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		47 - 107				03/02/21 09:28	03/08/21 20:53	1
Tetrachloro-m-xylene	57		47 - 107				03/02/21 09:28	03/08/21 20:53	1
DCB Decachlorobiphenyl	50		46 - 109				03/02/21 09:28	03/08/21 20:53	1
DCB Decachlorobiphenyl	58		46 - 109				03/02/21 09:28	03/08/21 20:53	1
Method: 6010B - Metals (I	CP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.3		1.1		mg/Kg	≎	02/25/21 13:15	02/26/21 11:09	1
Arsenic	4.0		2.2		mg/Kg	₩	02/25/21 13:15	02/26/21 11:09	1
Method: 7471A - Mercury	(CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.047		mg/Kg	₩	03/01/21 09:00	03/01/21 16:35	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1		%			02/25/21 12:07	1

Lab Sample ID: 320-70441-15 Client Sample ID: EB-8 (0-0.5) Date Collected: 02/24/21 10:08 **Matrix: Solid** 

Date Received: 02/24/21 11:45 Percent Solids: 91.8

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND -	18		ug/Kg	<u></u>	03/02/21 09:28	03/09/21 17:51	10
4,4'-DDE	48	18		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10
4,4'-DDT	20	18		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10
Aldrin	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
alpha-BHC	ND	18		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10
beta-BHC	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
gamma-BHC (Lindane)	ND	18		ug/Kg	⊅	03/02/21 09:28	03/09/21 17:51	10
delta-BHC	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
cis-Chlordane	120	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
trans-Chlordane	150	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Dieldrin	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endosulfan I	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endosulfan II	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endosulfan sulfate	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endrin	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endrin aldehyde	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Endrin ketone	ND	18		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10
Heptachlor	ND	18		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10
Heptachlor epoxide	ND	18		ug/Kg	₽	03/02/21 09:28	03/09/21 17:51	10
Methoxychlor	ND	36		ug/Kg	₩	03/02/21 09:28	03/09/21 17:51	10

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# **Client Sample Results**

Client: Cornerstone Earth Group

Date Received: 02/24/21 11:45

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-8 (0-0.5) Lab Sample ID: 320-70441-15

Date Collected: 02/24/21 10:08

**Matrix: Solid** Percent Solids: 91.8

Job ID: 320-70441-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		710		ug/Kg	☆	03/02/21 09:28	03/09/21 17:51	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		47 - 107				03/02/21 09:28	03/09/21 17:51	10
Tetrachloro-m-xylene	92		47 - 107				03/02/21 09:28	03/09/21 17:51	10
DCB Decachlorobiphenyl	138	S1+	46 - 109				03/02/21 09:28	03/09/21 17:51	10
DCB Decachlorobiphenyl	140	S1+	46 - 109				03/02/21 09:28	03/09/21 17:51	10
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		1.0		mg/Kg	<u></u>	02/25/21 13:15	02/26/21 11:13	1
Arsenic	4.3		2.1		mg/Kg	≎	02/25/21 13:15	02/26/21 11:13	1
Method: 7471A - Mercury (CVA)	<b>A</b> )								
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.041		mg/Kg	<u></u>	03/01/21 09:00	03/01/21 16:43	1
General Chemistry									
	Pocult	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Kesuit	Qualifici	114	11/	Oilit		ricparca	Allulyzou	Dii i uc

# **Surrogate Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Pe	ercent Surro	gate Recovery (Acceptance Lim	ıits)
		TCX1	TCX2	DCBP1	DCBP2	
Lab Sample ID	Client Sample ID	(47-107)	(47-107)	(46-109)	(46-109)	
320-70441-5	EB-3 (0-0.5)	107	105	141 S1+	128 S1+	
320-70441-7	EB-4 (0-0.5)	64	62	60	75	
320-70441-9	EB-5 (0-0.5)	82	82	102	104	
320-70441-11	EB-6 (0-0.5)	61	62	56	73	
320-70441-13	EB-7 (0-0.5)	51	57	50	58	
320-70441-15	EB-8 (0-0.5)	102	92	138 S1+	140 S1+	
320-70451-A-2-I MS	Matrix Spike	80		53		
320-70451-A-2-J MSD	Matrix Spike Duplicate	71		50		
LCS 320-466566/2-A	Lab Control Sample	72		84		
LCS 320-466566/3-A	Lab Control Sample	70		73		
MB 320-466566/1-A	Method Blank	74	90	83	88	

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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Job ID: 320-70441-1

Project/Site: Camden Ave and Malpas Drive SQE

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-466566/1-A

**Matrix: Solid** 

Analyte 4,4'-DDD

4,4'-DDE

4,4'-DDT

alpha-BHC

beta-BHC

delta-BHC

Dieldrin

Endrin ketone

Heptachlor

Aldrin

Analysis Batch: 468388

Client Sample ID: Method Blank Prep Type: Total/NA

**Prep Batch: 466566** 

Job ID: 320-70441-1

MB MB **MDL** Unit Result Qualifier RL Prepared Analyzed Dil Fac ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41 03/02/21 09:28 03/08/21 18:41 ND 17 ug/Kg ND 03/02/21 09:28 03/08/21 18:41 1.7 ug/Kg gamma-BHC (Lindane) ND 03/02/21 09:28 03/08/21 18:41 1.7 ug/Kg ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41 03/02/21 09:28 03/08/21 18:41 cis-Chlordane ND ug/Kg 1.7 trans-Chlordane ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41 03/02/21 09:28 03/08/21 18:41 ND 1.7 ug/Kg ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41

Endosulfan I Endosulfan II ND 1.7 03/02/21 09:28 03/08/21 18:41 ug/Kg Endosulfan sulfate ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41 Endrin 03/02/21 09:28 03/08/21 18:41 ND 1.7 ug/Kg Endrin aldehyde ND 1.7 03/02/21 09:28 03/08/21 18:41 ug/Kg

1.7

1.7

ug/Kg

ug/Kg

Heptachlor epoxide ND 1.7 ug/Kg 03/02/21 09:28 03/08/21 18:41 Methoxychlor ND 3.4 03/02/21 09:28 03/08/21 18:41 ug/Kg Toxaphene ND 67 ug/Kg 03/02/21 09:28 03/08/21 18:41

ND

ND

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 74 47 - 107 03/02/21 09:28 03/08/21 18:41 Tetrachloro-m-xylene Tetrachloro-m-xylene 90 47 - 107 03/02/21 09:28 03/08/21 18:41 DCB Decachlorobiphenyl 83 46 - 109 03/02/21 09:28 03/08/21 18:41 DCB Decachlorobiphenyl 88 46 - 109 03/02/21 09:28 03/08/21 18:41

Lab Sample ID: LCS 320-466566/2-A

**Matrix: Solid** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

03/02/21 09:28 03/08/21 18:41

03/02/21 09:28 03/08/21 18:41

Analysis Batch: 468388	Spike	LCS	LCS				Prep Batch: 466566 %Rec.
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	16.7	16.4		ug/Kg		98	53 - 117
4,4'-DDE	16.7	17.4		ug/Kg		104	58 - 115
4,4'-DDT	16.7	16.2		ug/Kg		97	53 - 128
Aldrin	16.7	15.8		ug/Kg		95	55 - 109
alpha-BHC	16.7	15.2		ug/Kg		91	54 - 111
beta-BHC	16.7	14.5		ug/Kg		87	53 - 115
gamma-BHC (Lindane)	16.7	15.9		ug/Kg		95	54 - 112
delta-BHC	16.7	14.5		ug/Kg		87	39 - 124
cis-Chlordane	16.7	16.3		ug/Kg		98	54 - 113
trans-Chlordane	16.7	16.5		ug/Kg		99	55 - 114
Dieldrin	16.7	17.0		ug/Kg		102	54 - 117
Endosulfan I	16.7	11.2		ug/Kg		67	42 - 118
Endosulfan II	16.7	14.6		ug/Kg		88	48 - 118
Endosulfan sulfate	16.7	17.7		ug/Kg		106	51 - 113
Endrin	16.7	15.8		ug/Kg		95	58 - 115

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# **QC Sample Results**

Client: Cornerstone Earth Group

**Analysis Batch: 468388** 

**Matrix: Solid** 

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID: LCS 320-466566/2-A

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: Lab Control Sample** 

Job ID: 320-70441-1

Prep '	Type: Total/NA
Prep	Batch: 466566

	<b>Эріке</b>	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Endrin aldehyde	16.7	15.1		ug/Kg		90	40 - 100	
Endrin ketone	16.7	17.3		ug/Kg		104	51 - 118	
Heptachlor	16.7	15.2		ug/Kg		91	50 - 118	
Heptachlor epoxide	16.7	16.0		ug/Kg		96	56 - 113	
Methoxychlor	16.7	14.4		ug/Kg		86	52 - 123	

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
Tetrachloro-m-xylene	72	47 - 107
DCB Decachlorobiphenyl	84	46 - 109

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA Prep Batch: 466566** 

Lab Sample ID: LCS 320-466566/3-A **Matrix: Solid** 

**Analysis Batch: 468388** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toxaphene	167	127		ug/Kg		76	43 - 123	

LCS LCS

Surrogate	%Recovery Quali	fier Limits
Tetrachloro-m-xylene	70	47 - 107
DCB Decachlorobiphenyl	73	46 - 109

**Client Sample ID: Matrix Spike** 

Lab Sample ID: 320-70451-A-2-I MS

Matrix: Solid Analysis Batch: 468388	Sample	Sample	Spike	MS	MS				Prep Type: Total/NA Prep Batch: 466566 %Rec.
Analyte	•	Qualifier	Added	_	Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	ND		18.0	11.1		ug/Kg	— <u>—</u>	62	53 - 117
4,4'-DDE	ND		18.0	21.5		ug/Kg	₩	113	58 - 115
4,4'-DDT	ND	F1	18.0	ND	F1	ug/Kg	₩	30	53 - 128
Aldrin	ND		18.0	15.1		ug/Kg		84	55 - 109
alpha-BHC	ND	F1	18.0	ND	F1	ug/Kg	≎	23	54 - 111
beta-BHC	ND		18.0	16.1		ug/Kg	≎	89	53 - 115
gamma-BHC (Lindane)	ND	F1	18.0	ND	F1	ug/Kg	₩	23	54 - 112
delta-BHC	ND	F1	18.0	ND	F1	ug/Kg	≎	0	39 - 124
cis-Chlordane	ND		18.0	14.3		ug/Kg	≎	73	54 - 113
trans-Chlordane	ND		18.0	15.0		ug/Kg	₩	83	55 - 114
Dieldrin	ND	*+	18.0	13.6		ug/Kg	≎	76	54 - 117
Endosulfan I	ND	F1	18.0	ND	F1	ug/Kg	≎	0	42 - 118
Endosulfan II	ND	F1	18.0	ND	F1	ug/Kg		0	48 - 118
Endosulfan sulfate	ND	F1	18.0	ND	F1	ug/Kg	☼	16	51 - 113
Endrin	ND		18.0	13.4		ug/Kg	☼	74	58 - 115
Endrin aldehyde	ND	F1	18.0	ND	F1	ug/Kg	☼	0	40 - 100
Endrin ketone	ND	F1	18.0	ND	F1	ug/Kg	₩	33	51 - 118
Heptachlor	ND		18.0	14.8		ug/Kg	₩	82	50 - 118
Heptachlor epoxide	ND		18.0	15.9		ug/Kg	₩	88	56 - 113
Methoxychlor	ND		18.0	ND		ug/Kg	₩	57	52 - 123

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Project/Site: Camden Ave and Malpas Drive SQE

# Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70451-A-2-I MS

**Matrix: Solid** 

**Analysis Batch: 468388** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Job ID: 320-70441-1

**Prep Batch: 466566** 

MS MS %Recovery Qualifier Surrogate Limits Tetrachloro-m-xylene 80 47 - 107 DCB Decachlorobiphenyl 53 46 - 109

Lab Sample ID: 320-70451-A-2-J MSD

**Matrix: Solid** 

Analysis Batch: 469299

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Analysis Batch: 468388									Prep Ba	atch: 40	6566
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	ND		17.5	9.16	F1	ug/Kg	≎	52	53 - 117	19	30
4,4'-DDE	ND		17.5	18.1		ug/Kg	≎	97	58 - 115	17	30
4,4'-DDT	ND	F1	17.5	ND	F1	ug/Kg	☆	28	53 - 128	11	30
Aldrin	ND		17.5	13.4		ug/Kg	☆	77	55 - 109	11	30
alpha-BHC	ND	F1	17.5	ND	F1	ug/Kg	☆	24	54 - 111	1	30
beta-BHC	ND		17.5	14.1		ug/Kg	☆	81	53 - 115	13	30
gamma-BHC (Lindane)	ND	F1	17.5	ND	F1	ug/Kg	☆	22	54 - 112	7	30
delta-BHC	ND	F1	17.5	ND	F1	ug/Kg	☆	12	39 - 124	NC	30
cis-Chlordane	ND		17.5	12.2		ug/Kg	☆	64	54 - 113	16	30
trans-Chlordane	ND		17.5	12.9		ug/Kg	≎	74	55 - 114	15	30
Dieldrin	ND	*+	17.5	13.6		ug/Kg	☆	78	54 - 117	0	30
Endosulfan I	ND	F1	17.5	ND	F1	ug/Kg	≎	6	42 - 118	NC	30
Endosulfan II	ND	F1	17.5	ND	F1	ug/Kg	☆	0	48 - 118	NC	30
Endosulfan sulfate	ND	F1	17.5	ND	F1	ug/Kg	☆	18	51 - 113	7	30
Endrin	ND		17.5	11.7		ug/Kg	₩	67	58 - 115	13	30
Endrin aldehyde	ND	F1	17.5	ND	F1	ug/Kg	☆	0	40 - 100	NC	30
Endrin ketone	ND	F1	17.5	ND	F1	ug/Kg	☆	31	51 - 118	11	30
Heptachlor	ND		17.5	13.2		ug/Kg	≎	75	50 - 118	12	30
Heptachlor epoxide	ND		17.5	13.2		ug/Kg	≎	75	56 - 113	19	30
Methoxychlor	ND		17.5	ND		ug/Kg	☆	52	52 - 123	13	30

MSD MSD

MD MD

%Recovery Qualifier Limits Surrogate 47 - 107 Tetrachloro-m-xylene 71 DCB Decachlorobiphenyl 50 46 - 109

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-465193/1-A

**Matrix: Solid** 

**Analysis Batch: 465667** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

**Prep Batch: 465193** 

	IVIDIN	VID							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0		mg/Kg		02/25/21 13:15	02/26/21 09:37	1
Arsenic	ND		2.0		mg/Kg		02/25/21 13:15	02/26/21 09:37	1

Lab Sample ID: LCS 320-465193/2-A

**Matrix: Solid** 

Analyte

Lead

Analysis Batch: 465667

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Prep Batch: 465193** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits 25.0 23.1 mg/Kg 93 80 - 120

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Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-465193/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 465667 Prep Batch: 465193** LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Arsenic 50.0 44 9 mg/Kg 90 80 - 120

Lab Sample ID: 320-70278-K-1-C MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 465667

**Prep Batch: 465193** Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit D %Rec Limits Analyte 31.9 34.5 Lead 4.6 80 - 120 mg/Kg ₩ 94 7.9 63.7 65.6 mg/Kg 90 80 - 120 Arsenic

Lab Sample ID: 320-70278-K-1-D MSD **Client Sample ID: Matrix Spike Duplicate** 

**Matrix: Solid** 

Analysis Batch: 465667

**Prep Batch: 465193** %Rec. **RPD** 

Prep Type: Total/NA

Prep Type: Total/NA

**Prep Batch: 465533** 

**Prep Batch: 465533** 

**Prep Batch: 465533** 

Spike MSD MSD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Lead 4.6 30.9 32.8 mg/Kg ₩ 91 80 - 120 5 35 7.9 61.9 63.0 89 35 Arsenic mg/Kg Ö 80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-465533/11-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 466480** 

MB MB

MDL Unit Result Qualifier RI Dil Fac **Analyte** Prepared Analyzed 0.040 03/01/21 09:00 03/01/21 12:28  $\overline{\mathsf{ND}}$ Mercury mg/Kg

Lab Sample ID: LCS 320-465533/12-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 466480** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit %Rec

Analyte Mercury 0.167 0.168 mg/Kg 100 86 - 114

Lab Sample ID: LCSD 320-465533/13-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid Analysis Batch: 466480** 

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit

Mercury 0.167 0.168 mg/Kg 100 86 - 114

Lab Sample ID: 320-70477-B-1-F MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 466480** 

**Prep Batch: 465533** Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

Mercury ND 0.161 0.172 97 86 - 114 mg/Kg

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3/11/2021

# **QC Sample Results**

Client: Cornerstone Earth Group Job ID: 320-70441-1

Project/Site: Camden Ave and Malpas Drive SQE

Method: 7471A - Mercury (CVAA) (Continued)

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA **Prep Batch: 465533** 

MSD MSD Sample Sample Spike %Rec. **RPD** RPD Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits Limit Mercury ND 0.172 0.190 mg/Kg 101 86 - 114 10 17

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-70477-B-1-G MSD

**Matrix: Solid** 

Analysis Batch: 466480

Lab Sample ID: 320-70452-A-1 DU **Client Sample ID: Duplicate** 

**Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 465103** RPD DU DU Sample Sample

Result Qualifier Result Qualifier RPD Limit Unit 9.3 10.0 % 8 20 Percent Moisture

# **QC Association Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

GC Semi VOA

**Prep Batch: 466566** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	3546	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	3546	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	3546	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	3546	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	3546	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	3546	
MB 320-466566/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-466566/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-466566/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70451-A-2-I MS	Matrix Spike	Total/NA	Solid	3546	
320-70451-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

**Analysis Batch: 468388** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	8081A	466566
MB 320-466566/1-A	Method Blank	Total/NA	Solid	8081A	466566
LCS 320-466566/2-A	Lab Control Sample	Total/NA	Solid	8081A	466566
LCS 320-466566/3-A	Lab Control Sample	Total/NA	Solid	8081A	466566
320-70451-A-2-I MS	Matrix Spike	Total/NA	Solid	8081A	466566
320-70451-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	466566

**Analysis Batch: 468726** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	8081A	466566

**Metals** 

Composite Batch: 464496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	Composite	
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	Composite	

**Prep Batch: 465193** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	3050B	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	3050B	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	3050B	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	3050B	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	3050B	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	3050B	
MB 320-465193/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-465193/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	3050B	464496
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	464496

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Job ID: 320-70441-1

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Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

# **Metals**

# **Prep Batch: 465533**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	7471A	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	7471A	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	7471A	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	7471A	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	7471A	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	7471A	
MB 320-465533/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-465533/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-465533/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-70477-B-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
320-70477-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

# **Analysis Batch: 465667**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	6010B	465193
MB 320-465193/1-A	Method Blank	Total/NA	Solid	6010B	465193
LCS 320-465193/2-A	Lab Control Sample	Total/NA	Solid	6010B	465193
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	6010B	465193
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	465193

# **Analysis Batch: 466480**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	7471A	465533
MB 320-465533/11-A	Method Blank	Total/NA	Solid	7471A	465533
LCS 320-465533/12-A	Lab Control Sample	Total/NA	Solid	7471A	465533
LCSD 320-465533/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	465533
320-70477-B-1-F MS	Matrix Spike	Total/NA	Solid	7471A	465533
320-70477-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	465533

# **General Chemistry**

# **Analysis Batch: 465103**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	D 2216	
320-70452-A-1 DU	Duplicate	Total/NA	Solid	D 2216	

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Job ID: 320-70441-1

Job ID: 320-70441-1

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-3 (0-0.5)

Date Collected: 02/24/21 09:40 Date Received: 02/24/21 11:45 Lab Sample ID: 320-70441-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-3 (0-0.5)

Date Collected: 02/24/21 09:40 Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-5 **Matrix: Solid** 

Percent Solids: 86.3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		10			468726	03/09/21 17:14	K1D	TAL SAC
Total/NA	Prep	3050B			1.00 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:46	SP	TAL SAC
Total/NA	Prep	7471A			0.56 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:24	IM	TAL SAC

Client Sample ID: EB-4 (0-0.5)

Date Collected: 02/24/21 09:18

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-4 (0-0.5)

Date Collected: 02/24/21 09:18

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-7 **Matrix: Solid** 

Lab Sample ID: 320-70441-9

Percent Solids: 85.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468388	03/08/21 19:57	K1D	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:50	SP	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:26	IM	TAL SAC

Client Sample ID: EB-5 (0-0.5)

Date Collected: 02/24/21 08:19

Date Received: 02/24/21 11:45

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

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Matrix: Solid

Job ID: 320-70441-1

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-5 (0-0.5)

Date Collected: 02/24/21 08:19 Date Received: 02/24/21 11:45 Lab Sample ID: 320-70441-9

**Matrix: Solid** 

Percent Solids: 90.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		20			468726	03/09/21 17:32	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:54	SP	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:29	IM	TAL SAC

Client Sample ID: EB-6 (0-0.5)

Date Collected: 02/24/21 10:00

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-11 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-6 (0-0.5)

Date Collected: 02/24/21 10:00

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-11 **Matrix: Solid** Percent Solids: 89.8

Lab Sample ID: 320-70441-13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468388	03/08/21 20:35	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:58	SP	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:31	IM	TAL SAC

Client Sample ID: EB-7 (0-0.5)

Date Collected: 02/24/21 07:59

Date Received: 02/24/21 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Date Collected: 02/24/21 07:59

Date Received: 02/24/21 11:45

Total/NA	Analysis	D 2216	1	465103	02/25/21 12:07 TC	TAL SAC
Client San	nple ID: EB-	7 (0-0.5)		La	b Sample ID:	320-70441-13
Date Collect	od: 02/24/24 0	7.50			_	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.79 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		1			468388	03/08/21 20:53	K1D	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 11:09	SP	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:35	IM	TAL SAC

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Matrix: Solid

**Matrix: Solid** 

**Percent Solids: 88.2** 

#### **Lab Chronicle**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID: 320-70441-15

Lab Sample ID: 320-70441-15

Matrix: Solid

**Matrix: Solid** 

Percent Solids: 91.8

Client Sample ID: EB-8 (0-0.5)
Date Collected: 02/24/21 10:08

Date Received: 02/24/21 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-8 (0-0.5)

Date Collected: 02/24/21 10:08

Date Received: 02/24/21 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.42 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		10			468726	03/09/21 17:51	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 11:13	SP	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:43	IM	TAL SAC

#### **Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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3/11/2021

# **Accreditation/Certification Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

# **Laboratory: Eurofins TestAmerica, Sacramento**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
California	Sta	ate	2897	02-01-23
The following analyte	s are included in this repo	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
,	•	ort, but the laboratory is r Matrix	not certified by the governing authority.  Analyte	This list may include analytes for wh

# **Method Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Job ID: 320-70441-1

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# **Sample Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70441-5	EB-3 (0-0.5)	Solid	02/24/21 09:40	02/24/21 11:45	
320-70441-7	EB-4 (0-0.5)	Solid	02/24/21 09:18	02/24/21 11:45	
320-70441-9	EB-5 (0-0.5)	Solid	02/24/21 08:19	02/24/21 11:45	
320-70441-11	EB-6 (0-0.5)	Solid	02/24/21 10:00	02/24/21 11:45	
320-70441-13	EB-7 (0-0.5)	Solid	02/24/21 07:59	02/24/21 11:45	
320-70441-15	EB-8 (0-0.5)	Solid	02/24/21 10:08	02/24/21 11:45	

Job ID: 320-70441-1

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CORNERSTONE EARTH GROUP	~	2	7	3	<b>E 3</b>	of C	70 Chain of Custody Record	ſ				158926	7
	Project Manager: Kurt Soenen	ager: Kurt	Soenen		·Z	te Sam	Site Sampler: Benjamin Trinh		Date: 02/24/2021	24/2021		COC No: 1	
Cornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037	8) 605-3037			Ţ.	th Com	Lab Contact: Afsaneh Salimpour		Lab: Test	Lab: Test America		Lof 2COCs	o de la constanta de la consta
1239 Oakmead Pkwy		Analysis Turnaround Time	rnaround 1	ime		(00						Laboratory's Job No.	
Sunnyvale, California 94085						02/00							
Phone: (408) 245-4600	TA	TAT if different from Below	m Below			09 V							
Fax: (408) 245-4620		1 1	1 week			À (ЕБ							
Project Name: Camden Ave and Malpas Drive SQE	]	3	3 days			reur							
Site: Camden Ave and Malpas Drive	0 [	2	2 days		ə	ы <b>М</b> b	(10						
Project Number: 336-10-2	]	1	1 day		Iam	ոռ Եւ							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Arsenic, Les	113) 6130	bloH				Laboratory's Sample Specific Note	c Note
E8-( (0-0.5)	2/24/21	69:24	LINER	1105	7	$\bigcirc$							
EB-1(3.5-4)		TE:60			-	$\hat{\geq}$							
E8-2(0-05)		£4:30				$\bigcirc$							
EB-2(35-4)		08:50				$\bigcirc$							
E8-3 (0-0.5)		OH: 40				$\leq$							
EB-3 (1.5-2)		24: PO						×					
EB-4 (0-0.5)		69:18				$\bigcirc$							
EB-4 (1.5-2)		12:30						×					
F8-5 (0-0.5)		68:19				$\widehat{\geq}$							-
EB-5(1,5-a)		DE:77						×		-    <b>         </b> 320-704	320-70441 Chain of Custody	Ustody	
EB-6(0-0.5)		(0:00				$\stackrel{\frown}{\ge}$					- -		
EB-6 (1.5-2)	<b>&gt;</b> 1	10:03	٦١	-91	つし			×					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other	4=HNO3; 5=	:NaOH; 6=	Other										
Possible Hazard Identification Non-Hazard Flammable	Skın İrrıtant		Potson B		Unknown	Samp	Sample Disposal  Return To Client		Disposal Bv Lah	3v I ah	Archive For	P For	
Special Instructions/QC Requirements: Leaditional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@connerstoneearth.com), Michael Chang	nts: If additi	onal sample	is needed,	please us	e the line	r. Pleas	e email result	s to Ben Trinh (b	trinh@co	rnerstonee	ırth.com), Mi		
(inchang@cornerstoneearth.com) and Kurt Soenen (Ksoenen@cornerstoneearth.com). PLEASE KEPOKI KESULIS ON A DKY WEIGHT BASIS	n (ksoenen <i>a</i>	cornerstone	earth.com)	FLEA	SE K	Š	KESO	IS ON A D	<b>X</b>		BASIS.	2/56	
Relinquished by:	Company: Comerstone Earth Group	Earth Group		Date/Time:		Recen	Received by:	10,40		Company:	1	Date/Time: 7-7 (100)	1
Relinquished by	Company:			Date/Time:	ë	Recen	Received by:			Company:	3	Date/Time:	$\bigvee$
Relinquished by:	Сотрапу:			Date/Time:	e.	Recen	Received by:			Company:		Date/Time:	

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	A roject Manager: Nurt Soenen	Ø.	Site Sampler: Benjamin Trinh	Date: 02/24/2021	COC No: 1
Cornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037	L	Lab Contact: Afsaneh Salimpour	Lab: Test America	2of 2cocs
1259 Oakmead Pkwy	Analysis Turnaround Time		(0		Laboratory's Job No.
Sunnyvale, California 94085			004/0		
Phone: (408) 245-4600	TAT if different from Below		0009 \		
Fax: (408) 245-4620			vaa)		
Project Name: Camden Ave and Malpas Drive SQE			Auna		
Site: Camden Ave and Malpas Drive	2 days	ing managan di salah			
Project Number: 336-10-2		ajuu	pus p		
Sample Identification	Sample Sample Sample Date Time Type	# of # of Filter	Filtered Sai OCPs (EPA	PloId	Laboratory's Sample Specific Not
EB-7 (0-0.5)	2/24/21 07:59 UNER	1 7195	×		
EB-7 (1.5-2)	) 50:80			×	
EB-8 (0-0.5)	80:01		×		
EB-8 (1.5-2)	P):(1	-51 -51		×	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3;	4=HNO3; 5=NaOH; 6= Other				
Possible Hazard Identification  Non-Hazard Flammable	Skın İrrıtant — Potson B	Unknown	Sample Disposal  Return To Client	Disposal By Lab	
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.	nts: If additional sample is needed n (ksoenen@cornerstoneearth.com	, please use the line ). PLEASE RI	er. Please email results to Ben Trit EPORT RESULTS ON A	h (btrinh@cornerstoneeart   DRY WEIGHT B.	
	Company:		Recept	Company:	Date/Time:
Relinanished be:	Cornerstone Earth Group	Sh    12/h2/	natura (ma	Y KIAS	2-24-7 //49
ixciiiidaisiica	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

# eurofins Environment Testing America **Chain of Custody Record** Eurofins TestAmerica, Sacramento West Sacramento, CA 95605 Phone: 916-373-5600 Fax: 916-372-1059

880 Riverside Parkway

Client Information (Sub Contract Lab)	Sampler:			Lab PM: Salimp	Lab PM: Salimpour Afsaneh E	feane	Щ				Carrier	Carrier Tracking No(s):	÷	COC No:	7
Client Contact:	Phone:			F-Mail						T	Ctoto of Origin	Cipin		Dece:	
Shipping/Receiving				Afsa	Afsaneh.Salimpour@Eurofinset.com	modu	@Eur	ofinset.	E O		California	origin.		Page:	
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note): State - California; State Program - California	tions R Califor	equired nia; St	See not	gram	Call	ornia			Job #:	-
Address: 880 Riverside Parkway,	Due Date Requested: 3/2/2021	:pe						Ana	lysis	Red	Analysis Requested	9		Preservation Codes:	Codes:
City: West Sacramento	TAT Requested (days)	ays):												B - NaOH	M - Hexane N - None
State, Zip: CA, 95605										(p				D - Nitric Acid E - NaHSO4	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:				(0		te	(PIOP		loH) te	(p			F - MeOH G - Amchlor	
Email:	:#OM					Αju	ard Li	_		ard Li	юн) р			I - Ice	U - Acetone  V - MCAA
Project Name: Camden Ave and Malpas Drive SQE	Project #: 32016556									bnst2 ,	Method				W - pH 4-5 Z - other (specify)
Site:	SSOW#:									ticides	rocal			of con	
		Sample	Sample Type (C=comp,	Matrix (www.eter, S=solid. O=waste/oll,	eld Filtered : M\SM mrohe	9_A1747/A17. W) 80306/801	81 A/3546 Pes	OOM) (MOD	9_A1747/A17 M) 80305/801	294 84&E\A t 8	GOM) (MOD			redmuM ls3	
Sample Identification - Client ID (Lab ID)	Sample Date	E N	G=grab)   BT=Thssue, A=A Preservation Code:	BT=Tissue, A=Air)		-	-		- 10	08	W				Special Instructions/Note:
EB-1 (0-0.5) (320-70441-1)	2/24/21	09:24 Pacific		Solid		×	×	×	-					-	
EB-1 (3.5-4) (320-70441-2)	2/24/21	09:32 Pacific		Solid		×	×	×	ļ					<u>-</u>	
EB-2 (0-0.5) (320-70441-3)	2/24/21	08:47 Pacific		Solid		×	×	×	-					-	
EB-2 (3.5-4) (320-70441-4)	2/24/21	08:50 Pacific		Solid		×	×	×							
EB-3 (0-0.5) (320-70441-5)	2/24/21	09:40 Pacific		Solid		×	×	×						-	
EB-3 (1.5-2) (320-70441-6)	2/24/21	09:45 Pacific		Solid					×	×	×				
EB-4 (0-0.5) (320-70441-7)	2/24/21	09:18 Pacific		Solid		×	×	×							
EB-4 (1.5-2) (320-70441-8)	2/24/21	09:21 Pacific		Solid					×	×	×				
EB-5 (0-0.5) (320-70441-9)	2/24/21	08:19 Pacific		Solid		×	×	×						900	
Note: Since laboratory accreditations are subject to change. Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently	rica places the owners	hip of method	, analyte & accr	editation comp	iance up	on out s	ubcontra	ct labora	tories.	This sa	mple sh	pment is fon	varded und	er chain-of-custody.	If the laboratory does not currently

maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	samples are retained longer than 1 month)
Unconfirmed		Return To Client Disposal By Lab	ab Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:	Date: Time:		Method of Shipment:
Reinquished by	Date/Time: Company	Received by:	Date/Time:
Relinquished by:	Date/Time: Company CS	Received by:	Date Time Company
Relinquished by:		Received by:	Date/Time: Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	2-7
	•		Ver. 11/01/2020

Eurofins TestAmerica, Sacramento

# Chain of Custody Record

West Sacramento. CA 95605 Phone: 916-373-5600 Fax: 916-372-1059			,	•													
		Chain	ain of Custody Record	ody K	3COL	0										Environment Testing America	sting
Client Information (Sub Contract Lab)	Sampler:			Lab PN Salim	Lab PM: Salimpour, Afsaneh F	saneh F				Ö	Carrier Tracking No(s)	ng No(s):		COC No 320-21	COC No: 320-213217.2		
Client Contact: Shipping/Receiving	Phone:			E-Mail: Afsane	E-Mail: Afsaneh.Salimpour@Eurofinset.com	npour@	Eurofir	nset.cc	Ē	80	State of Origin: California	2		Page: Page 2 of 2	2 of 2		
Company: TestAmerica Laboratories, Inc.				-	Accreditations Required (See note): State - California; State Program - California	ons Requality	uired (Se a; State	e note):	am - (	Salifor	nia .			Job #:	1-14		
Address: 880 Riverside Parkway,	Due Date Requested 3/2/2021	ted:						Analy	Sis	Segu	Analysis Requested			Preserv	Preservation Codes:	es:	
City: West Sacramento	TAT Requested (days	lays):						}_		-			-	A-HCL B-NaO		M - Hexane N - None	
State, Zip: CA, 95605					49					(p				D-Nitric		P - Na204S Q - Na2SO3	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO#:				(c		1s	(blol			(n			F - MeO	F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
Email:	:# OM				(0)	Áwc			(Hold)		1011) b					I - I SP Dodecany U - Acetone V - MCAA	drate
Project Name: Camden Ave and Malpas Drive SQE	Project #: 32016556				10 86				sA,bse		OI DOM			K-EDTA L-EDA		W - pH 4-5 Z - other (specify)	
Site:	SSOW#:				SD (N				10D) F		18202 (			of con			
Samula Identification . Client ID (Lah ID)	Sample Date	Sample		1	ield Filtered M\2M m10119 A151210151	9_A1747\A174 W) 8020£\8010	081 A/3546 Pes MOM) (MOD	q_ArthT\arth	010B/3020B (W	299 848 (A180 	GOM) (SIMEIO			DedmuM listo			
	X	X	Preservation Code:	-	4 ×			-	9						pecial In	Special Instructions/Note:	
EB-5 (1.5-2) (320-70441-10)	2/24/21	08:22 Pacific		Solid				×	×	×	×			-			
EB-6 (0-0.5) (320-70441-11)	2/24/21	10:00 Pacific		Solid		×	×	×		+			-	-			
EB-6 (1.5-2) (320-70441-12)	2/24/21	10:02 Pacific		Solid				×	×	×	×		-	-			
EB-7 (0-0.5) (320-70441-13)	2/24/21	07:59 Pacific		Solid	_	×	×	×						-			
EB-7 (1.5-2) (320-70441-14)	2/24/21	08:05 Pacific		Solid		-		×	×	×	×			-			
EB-8 (0-0.5) (320-70441-15)	2/24/21	10:08 Pacific		Solid	,	×	×	×						g			
EB-8 (1.5-2) (320-70441-16)	2/24/21	10:14 Pacific		Solid				×	×	×	×						
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory accreditation in the State of Origin listed above for analysis/lests/marix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins	rica places the owners	ship of method,	analyte & accre	ditation compli:	ance upon	out subo	contract ratory or	aborato other in	ries. Th	is sam	ole shipmer	nt is forwar	rded unde	er chain-of-cust	tody. If the Islands should to	aboratory does not o	currently
TestAmerica attention immediately. If all requested accreditations are current to Possible Hazard Identification	to date, return the sign	led Chain of Cu	ustody attesting t	o said complica	ance to Eu	irofins Te	stAmeric	e e					,		,		2
Unconfirmed					Samp	Return	r <b>le Disposal ( A 1</b> Return To Client	A ree	may b □	e ass	Disposal By Lab	sample. ab	s are re	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Month	er than 1	month)	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	able Rank:	2		Speci	Special Instructions/QC Requirements:	rctions	OC R	equire	nents						2000	T
linquished by:		Date:		П	Time:	`					Method	Method of Shipment:	ant				T
my man	Date/Time: 2-25-2	1	ŭ	Company	Re	Received by:	X	0	9	9		Date/Time:	/Time:	471	16.50	Company	
Relinquished by:	Date/Time:	) le	) 525	Company	<u> </u>	Received by	CH.	1	K			Date/Time:	ime:	1/1/	48	Company	N
40					8	Cooler Temperature(s) °C and Other Remarks:	perature	(s) °C a	nd Othe	r Rema	arks:	-					
A Yes A No					1		l,				l					Ver. 11/01/2020	7

CORNERSTONE  EARTH GROUP		-02	Ķ	<b>5</b>	ig.	f Cu	stody F	70 Chain of Custody Record				~	128851
	Project Manager: Kurt Soenen	ager: Kurt	Soenen		15	e Sample	Site Sampler: Benjamin Trinh	1 Trinh	Date: 0	Date: 02/24/2021		COC No: 1	
Sornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037	8) 605-3037			La	b Contac	Lab Contact: Afsaneh Salimpour	Salimpour	Lab: T	Lab: Test America		of 2COCs	
1259 Oakmead Pkwy		Analysis Turnaround Time	rnaround 1	ime	H	(00		-	F			Laboratory's Job No	4o.
Sunnyvale, California 94085						004/0						N .	
Phone: (408) 245-4600	TA	TAT if different from Below	om Below			009 V							
ax: (408) 245-4620		1	1 week			(EBV							
Project Name: Camden Ave and Malpas Drive SQE		3	3 days			cary							
Site: Camden Ave and Malpas Drive		2	2 days		*****								
Project Number: 336-10-2		1	1 day		əĮdu								
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Cont.	Arsenic, Leac OCPs (EPA			bloł			T observed Const	Oborntourly Connell Connell Nices.
ER-( (0-0.5)	3/24/21	69:24	LINER	14	7				1			Laboratory's San	pic specific ivotes.
:B-1(3.5-4)	_	69:32				X							
58-3(0-05)		去:30				X							
EB-2(3.5-4)		08:50				X							
E8-3 (0-0.5)		OH: 40				X							
EB-3 (1.5-2)		24:PO				·			×				
EB-4 (0-0.5)		09:18				X							
EB-4 (1.5-2)		69:21							×				
F8-5 (0-0.5)		68:19				X							
EB-5 (1,5-a)		D2:50							×	320-70	320-70441 Chain of Custody	Custody	
EB-6(0-0.5)		(0:00				X				_		-	
E8-6 (1.5-2)	<b>&gt;</b> 1	10:02	71	-91	フし				×				
reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6=	4=HNO3; 5	=NaOH; 6=	Other										
ossible Hazard Identification Non-Hazard Flammable	Skın İrrıtant		Potson B	Unk	<i>Unknown</i>	Sample R	Sample Disposal	ient	Dispos	Disposal Bv Lab	Arch	Archive For	Months
pecial Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com) mchang@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.	ents: If addit en (ksoenen@	ional sampl	e is needed, eearth.com)	please use PLEA	the line	. Please	mail result	s to Ben Trii	nh (btrinh@	cornerstone	earth.com), M BASIS.	Chang	
												21.50	/ 2
Relinquished by:	Company: Cornerstone Earth Group	Earth Group		Date/Time: <b>3/24/2</b> 1	Sh.11	Received by:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1, 20 x		Company:	7	Date/Time:	1 1166
kelinquished ba	Company:			Date/Time		Received by:	by:			Company:	7	Date/Time:	
kelinquished by:	Company:			Date/Time:		Received by:	by:			Company:		Date/Time:	
					TO THE PROPERTY OF THE PERSON NAMED IN								

CORNERSTONE EARTH GROUP

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CORNERSTONE EARTH GROUP

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	Designed Management			NAMES OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE	POCHO POR NATIONAL PROPERTY CONTINUES OF THE PARTY CONTINUES OF THE	-			
Carl miner Charles Construction	r i oject (vianager: Nurt Soenen		Site San	Site Sampler: Benjamin Trinh	min Trinh	Date: 02/24/2021	/24/2021	COC No: 1	
orner stone Lattit Group, IIIC.	1el/Fax: (408) 605-3037		Lab Co	ıtact: Afsane	Lab Contact: Afsaneh Salimpour	Lab: Teg	Lab: Test America	200Cs	
1259 Oakmead Pkwy	Analysis Turnaround Time	d Time	(00					Laboratory's Job No.	
Sunnyvale, California 94085			004/0						
Phone: (408) 245-4600	TAT if different from Below		009 ¥						
Fax: (408) 245-4620	1 week		/ <b>a</b> a)						
Project Name: Camden Ave and Malpas Drive SQE	3 days		cni.						
Site: Camden Ave and Malpas Drive									
Project Number: 336-10-2	1 day			1808					
Sample Identification	Sample Sample Sample Date Time Type	le # of Watrix Cont.	Filtered Sar Arsenic, Lead	OCFs (EPA	Plot	20077		Laboratory's Sample Specific Notes:	ectfic Notes:
EB-7 (0-0.5)	2/24/21 07:59 LINER	R 5016 1	×	~					
EB-7 (1.5-2)	08:00	_							
EB-8 (0-0.5)	80:01		X	X					
EB-8 (1.5-2)	P):01	タリ							
COMMA O DATA O A D I AL A TANAMA									
Preservation Used: $I = Ice$ , $L = HCI$ ; $R = H2SO4$ ; $R = HNO3$ ; $R = NAOH$ ; $R = Other$	4=HNO3; 5=NaOH; 6= Other								
Possible Hazard Identification Non-Hazard Flammable	Skan Irritant 🗀 Potson B	Unknown	Sam	Sample Disposal ————————————————————————————————————	al Client	Disposal By Lab	By Lab — Ar	Archive For Months	S
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.	ıts: If additional sample is need n (ksoenen@cornerstoneearth.cc	ed, please use the om). PLEASE	iner. Plea	ise email res RT RESI	ults to Ben Trinh JLTS ON A	(btrinh@ DRY W	ornerstoncearth.com)/EIGHT BASIS.	, Michael Chang	
ReImquished by:	Company:	Date/Time:	Rece	Received hy:	,		Omnony.	Date/Time.	
BJ7	Cornerstone Earth Group	-	14	miles	Nulls		ELAST	2-24-7 //	43
vemiquisiled	Company:	Date/Time:	Rece	Received by:			Company:	Date/Time:	
Relinguished by:	Company:	Date/Time:	Rece	Received by:			Company:	Date/Time:	
			-	CONTRACTOR CONTRACTOR AND ADDRESS OF THE PERSONS					

Client: Cornerstone Earth Group

Job Number: 320-70441-1

Login Number: 70441 List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Mullen, Joan

Creator: Mullen, Joan		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Cornerstone Earth Group

Job Number: 320-70441-1

Login Number: 70441 List Source: Eurofins TestAmerica, Sacramento

List Number: 2

Creator: Guzman, Juan

orcator. Guzman, Guan		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins TestAmerica, Sacramento** 

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**Environment Testing** 

**America** 

# **ANALYTICAL REPORT**

Eurofins TestAmerica, Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

Laboratory Job ID: 320-70548-1

Client Project/Site: Camden Ave and Malpas Drive SQE

For:

eurofins 🔆

Cornerstone Earth Group 1220 Oakland Blvd Suite 220 Walnut Creek, California 94085

Attn: Kurt Soenen

Akaneh Sal

Authorized for release by: 3/11/2021 7:25:57 PM

Afsaneh Salimpour, Senior Project Manager (925)484-1919 Afsaneh.Salimpour@Eurofinset.com

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**Have a Question?** 



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Definitions/Glossary**

Client: Cornerstone Earth Group Job ID: 320-70548-1

Project/Site: Camden Ave and Malpas Drive SQE

# Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

POS Positive / Present PQL

ND

NEG

Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Negative / Absent

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-70548-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/26/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

#### GC Semi VOA

Method 8081A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-10(0-0.5) (320-70548-3). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 320-467779 and analytical batch 320-469014 recovered outside control limits in the confirmation column for the following analytes: Aldrin and 4,4'-DDE. These analytes were in control in the primary column therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-465675 and 320-466279 and analytical batch 320-466704 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following sample was diluted due to the nature of the sample matrix: EB-10(0-0.5) (320-70548-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 320-70548-1

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# **Detection Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Job ID: 320-70548-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	9.4		1.8		ug/Kg	1	⇔	8081A	Total/NA
4,4'-DDT	4.4		1.8		ug/Kg	1	₩	8081A	Total/NA
Lead	9.4		1.1		mg/Kg	1	₩	6010B	Total/NA
Arsenic	6.3		2.2		mg/Kg	1	₩	6010B	Total/NA
Mercury	0.48		0.045		mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: EB-10(0-0.5)

Lab	Sample	ID: 32	0-70548-3
-----	--------	--------	-----------

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
4,4'-DDE	110	8.8	ug/Kg	5 🕏	8081A	Total/NA
4,4'-DDT	11	8.8	ug/Kg	5 ☆	8081A	Total/NA
Lead	36	1.0	mg/Kg	1 ☆	6010B	Total/NA
Arsenic	4.5	2.1	mg/Kg	1 ☆	6010B	Total/NA
Mercury	0.44	0.044	mg/Kg	1 ☆	7471A	Total/NA

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Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Date Collected: 02/26/21 08:10

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 88.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8		ug/Kg	<u></u>	03/05/21 09:43	03/09/21 20:04	1
4,4'-DDE	9.4		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
4,4'-DDT	4.4		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Aldrin	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
alpha-BHC	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
beta-BHC	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
gamma-BHC (Lindane)	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
delta-BHC	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
cis-Chlordane	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
trans-Chlordane	ND		1.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:04	1
Dieldrin	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endosulfan I	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endosulfan II	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endosulfan sulfate	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endrin	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endrin aldehyde	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Endrin ketone	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Heptachlor	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Heptachlor epoxide	ND		1.8		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Methoxychlor	ND		3.7		ug/Kg	₩	03/05/21 09:43	03/09/21 20:04	1
Toxaphene	ND		72		ug/Kg	≎	03/05/21 09:43	03/09/21 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		47 - 107				03/05/21 09:43	03/09/21 20:04	1
Tetrachloro-m-xylene	65		47 - 107				03/05/21 09:43	03/09/21 20:04	1
DCB Decachlorobiphenyl	66		46 - 109				03/05/21 09:43	03/09/21 20:04	1
DCB Decachlorobiphenyl	63		46 - 109				03/05/21 09:43	03/09/21 20:04	1
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		1.1		mg/Kg	<u></u>	03/01/21 13:55	03/02/21 12:54	1
			0.0		11.6		00/04/04 40 55	00/00/04 40 54	

Lead	9.4	1.1	mg/Kg	☆	03/01/21 13:55	03/02/21 12:54	1
Arsenic	6.3	2.2	mg/Kg	₩	03/01/21 13:55	03/02/21 12:54	1
Method: 7471A - Mercury (CVA	<b>AA</b> )						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48	0.045	mg/Kg	<u></u>	03/02/21 12:45	03/02/21 15:39	1
General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5	0.1	%			03/02/21 11:55	1

 Client Sample ID: EB-10(0-0.5)

 Date Collected: 02/26/21 08:30
 Matrix: Solid

 Date Received: 02/26/21 10:00
 Percent Solids: 91.2

Method: 8081A - Orga	Method: 8081A - Organochlorine Pesticides (GC)											
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac					
4,4'-DDD	ND -	8.8	ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5					
4,4'-DDE	110	8.8	ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5					
4,4'-DDT	11	8.8	ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5					
Aldrin	ND	8.8	ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5					

Eurofins TestAmerica, Sacramento

Job ID: 320-70548-1

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# **Client Sample Results**

Client: Cornerstone Earth Group

**Percent Moisture** 

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-10(0-0.5) Lab Sample ID: 320-70548-3

Date Collected: 02/26/21 08:30 **Matrix: Solid** Date Received: 02/26/21 10:00 Percent Solids: 91.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		8.8		ug/Kg	⊅	03/05/21 09:43	03/09/21 20:23	
beta-BHC	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
gamma-BHC (Lindane)	ND		8.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5
delta-BHC	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
cis-Chlordane	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
trans-Chlordane	ND		8.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5
Dieldrin	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Endosulfan I	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Endosulfan II	ND		8.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5
Endosulfan sulfate	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Endrin	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Endrin aldehyde	ND		8.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5
Endrin ketone	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Heptachlor	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Heptachlor epoxide	ND		8.8		ug/Kg	₽	03/05/21 09:43	03/09/21 20:23	5
Methoxychlor	ND		18		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Toxaphene	ND		350		ug/Kg	₩	03/05/21 09:43	03/09/21 20:23	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		47 - 107				03/05/21 09:43	03/09/21 20:23	
Tetrachloro-m-xylene	81		47 - 107				03/05/21 09:43	03/09/21 20:23	5
DCB Decachlorobiphenyl	73		46 - 109				03/05/21 09:43	03/09/21 20:23	5
DCB Decachlorobiphenyl	67		46 - 109				03/05/21 09:43	03/09/21 20:23	5
Method: 6010B - Metals (I	CP)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.0		mg/Kg	☼	03/01/21 13:55	03/02/21 12:58	1
Arsenic	4.5		2.1		mg/Kg	₩	03/01/21 13:55	03/02/21 12:58	1
Method: 7471A - Mercury	(CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44		0.044		mg/Kg	<del>*</del>	03/02/21 12:45	03/02/21 15:41	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

03/02/21 11:55

Job ID: 320-70548-1

# **Surrogate Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid Prep Type: Total/NA** 

			P	ercent Surre	ogate Rec
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(47-107)	(47-107)	(46-109)	(46-109)
320-70548-1	EB-9(0-0.5)	65	65	66	63
320-70548-3	EB-10(0-0.5)	84	81	73	67
320-70552-A-2-O MS	Matrix Spike		61		49
320-70552-A-2-P MSD	Matrix Spike Duplicate		73		63
LCS 320-467779/2-A	Lab Control Sample		88		94
LCS 320-467779/3-A	Lab Control Sample		94		99
MB 320-467779/1-A	Method Blank	82	89	92	89

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Sacramento

Job ID: 320-70548-1

Page 8 of 23 3/11/2021 Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-467779/1-A

**Matrix: Solid** 

**Analysis Batch: 468726** 

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 467779

•	МВ	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
4,4'-DDE	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
4,4'-DDT	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Aldrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
alpha-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
beta-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
gamma-BHC (Lindane)	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
delta-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
cis-Chlordane	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
trans-Chlordane	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
Dieldrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Endosulfan I	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Endosulfan II	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
Endosulfan sulfate	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Endrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Endrin aldehyde	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
Endrin ketone	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Heptachlor	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Heptachlor epoxide	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	
Methoxychlor	ND		3.4		ug/Kg		03/05/21 09:43	03/09/21 16:55	•
Toxaphene	ND		67		ug/Kg		03/05/21 09:43	03/09/21 16:55	,

MB MB

Surrogate	%Recovery	Qualifier	Limits	<b>Prepared</b>	Analyzed	Dil Fac	
Tetrachloro-m-xylene	82		47 - 107	03/05/21 09:43	03/09/21 16:55	1	
Tetrachloro-m-xylene	89		47 - 107	03/05/21 09:43	03/09/21 16:55	1	
DCB Decachlorobiphenyl	92		46 - 109	03/05/21 09:43	03/09/21 16:55	1	
DCB Decachlorobiphenyl	89		46 - 109	03/05/21 09:43	03/09/21 16:55	1	

Lab Sample ID: LCS 320-467779/2-A

**Matrix: Solid** 

Analysis Batch: 469014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467779

Analysis Batch: 469014	Spike	LCS	LCS				Prep Batch: 467779 %Rec.
Analyte	Added		Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	16.7	18.1		ug/Kg		108	53 - 117
4,4'-DDE	16.7	18.5		ug/Kg		111	58 - 115
4,4'-DDT	16.7	18.9		ug/Kg		114	53 - 128
Aldrin	16.7	17.0		ug/Kg		102	55 - 109
alpha-BHC	16.7	16.6		ug/Kg		100	54 - 111
beta-BHC	16.7	16.4		ug/Kg		98	53 - 115
gamma-BHC (Lindane)	16.7	17.1		ug/Kg		102	54 - 112
delta-BHC	16.7	17.6		ug/Kg		106	39 - 124
cis-Chlordane	16.7	18.5		ug/Kg		111	54 - 113
trans-Chlordane	16.7	17.5		ug/Kg		105	55 - 114
Dieldrin	16.7	17.8		ug/Kg		107	54 - 117
Endosulfan I	16.7	16.3		ug/Kg		98	42 - 118
Endosulfan II	16.7	17.8		ug/Kg		107	48 - 118
Endosulfan sulfate	16.7	16.9		ug/Kg		102	51 - 113
Endrin	16.7	18.0		ug/Kg		108	58 - 115

Eurofins TestAmerica, Sacramento

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# QC Sample Results

Client: Cornerstone Earth Group

Analysis Batch: 469014

**Matrix: Solid** 

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID: LCS 320-467779/2-A

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: Lab Control Sample** 

Job ID: 320-70548-1

Prep	rype: i	otal/NA
Prep	Batch:	467779

	<b>Бріке</b>	LUS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Endrin aldehyde	16.7	16.1		ug/Kg		96	40 - 100	
Endrin ketone	16.7	17.8		ug/Kg		107	51 - 118	
Heptachlor	16.7	17.0		ug/Kg		102	50 - 118	
Heptachlor epoxide	16.7	17.4		ug/Kg		104	56 - 113	
Methoxychlor	16.7	19.0		ug/Kg		114	52 - 123	

**.** ..

LCS LCS

LCS LCS

94

99

Qualifier

%Recovery

Surrogate	%Recovery Qualit	fier Limits
Tetrachloro-m-xylene	88	47 - 107
DCB Decachlorobiphenyl	94	46 - 109

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA **Prep Batch: 467779** 

%Rec.

**Analysis Batch: 468726** LCS LCS Spike Added Result Qualifier Unit %Rec Limits 167 43 - 123 162 ug/Kg 97

Limits

47 - 107

46 - 109

Lab Sample ID: 320-70552-A-2-O MS

Lab Sample ID: LCS 320-467779/3-A

**Matrix: Solid** 

Tetrachloro-m-xylene

DCB Decachlorobiphenyl

**Matrix: Solid** 

Analyte

Toxaphene

Surrogate

Client Sample ID: Matrix Spike
Prep Type: Total/NA
D D. (.). 407770

**Analysis Batch: 468726 Prep Batch: 467779** Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier D %Rec **Analyte** Unit Limits 4,4'-DDD ND 19.2 12.4 ug/Kg ₩ 65 53 - 117 ug/Kg 4,4'-DDE ND 19.2 13.1 68 ₩ 58 - 115 4,4'-DDT ND 19.2 12.0 ug/Kg ☼ 63 53 - 128 Aldrin ND 19.2 13.3 ug/Kg ₩ 69 55 - 109 alpha-BHC ND 19.2 13.5 ug/Kg ₩ 70 54 - 111 beta-BHC ND 19.2 11.5 ug/Kg ☼ 60 53 - 115 gamma-BHC (Lindane) ND 69 19.2 13.2 Ö 54 - 112 ug/Kg delta-BHC ND 19.2 68 39 - 124 13.2 ug/Kg cis-Chlordane ND 72 54 - 113 19.2 13.8 ug/Kg Ö trans-Chlordane ND 19.2 15.0 ug/Kg ₩ 78 55 - 114 54 - 117 Dieldrin NΠ 19.2 12.9 ug/Kg ÷Ċ÷ 67 Endosulfan I ND 19.2 12.4 ug/Kg 65 42 - 118 Endosulfan II ND 19.2 13.1 ug/Kg Ö 68 48 - 118 Endosulfan sulfate ND 19.2 11.4 ug/Kg ☼ 59 51 - 113 ug/Kg Endrin ND 19.2 13.0 68 58 - 115 ₩ Endrin aldehyde ND 19.2 9.25 48 40 - 100 ug/Kg ₩ Endrin ketone ND 19.2 11.6 ug/Kg ₩ 60 51 - 118 Heptachlor ND 19.2 12.7 ug/Kg 66 50 - 118 ₩ Heptachlor epoxide ND 19.2 13.5 ug/Kg 70 56 - 113 ₩ Methoxychlor ND 19.2 11.5 ug/Kg 60 52 - 123

Job ID: 320-70548-1

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

# Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70552-A-2-O MS

**Matrix: Solid** 

Analysis Batch: 468726

Client Sample ID: Matrix Spike

Prep Type: Total/NA

**Prep Batch: 467779** 

MS MS %Recovery Qualifier Surrogate Limits Tetrachloro-m-xylene 61 47 - 107 DCB Decachlorobiphenyl 49 46 - 109

Lab Sample ID: 320-70552-A-2-P MSD

**Matrix: Solid** 

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Analysis Batch: 468726									Prep Ba	atch: 40	67779
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	ND		18.9	15.3		ug/Kg	<u></u>	81	53 - 117	21	30
4,4'-DDE	ND		18.9	15.8		ug/Kg	☆	84	58 - 115	19	30
4,4'-DDT	ND		18.9	14.6		ug/Kg	☆	77	53 - 128	19	30
Aldrin	ND		18.9	15.5		ug/Kg	☆	82	55 - 109	16	30
alpha-BHC	ND		18.9	15.6		ug/Kg	☆	83	54 - 111	14	30
beta-BHC	ND		18.9	14.6		ug/Kg	≎	77	53 - 115	24	30
gamma-BHC (Lindane)	ND		18.9	15.4		ug/Kg	≎	82	54 - 112	15	30
delta-BHC	ND		18.9	15.4		ug/Kg	≎	82	39 - 124	16	30
cis-Chlordane	ND		18.9	16.3		ug/Kg	≎	86	54 - 113	16	30
trans-Chlordane	ND		18.9	18.3		ug/Kg	≎	97	55 - 114	20	30
Dieldrin	ND		18.9	15.3		ug/Kg	≎	81	54 - 117	17	30
Endosulfan I	ND		18.9	14.2		ug/Kg	≎	75	42 - 118	14	30
Endosulfan II	ND		18.9	15.2		ug/Kg	≎	81	48 - 118	15	30
Endosulfan sulfate	ND		18.9	13.5		ug/Kg	≎	71	51 - 113	17	30
Endrin	ND		18.9	15.2		ug/Kg	≎	80	58 - 115	15	30
Endrin aldehyde	ND		18.9	12.0		ug/Kg	☼	64	40 - 100	26	30
Endrin ketone	ND		18.9	13.6		ug/Kg	≎	72	51 - 118	16	30
Heptachlor	ND		18.9	14.9		ug/Kg	≎	79	50 - 118	16	30
Heptachlor epoxide	ND		18.9	15.5		ug/Kg	≎	82	56 - 113	14	30
Methoxychlor	ND		18.9	14.4		ug/Kg	₩	76	52 - 123	23	30

MSD MSD

MD MD

%Recovery Qualifier Limits Surrogate 47 - 107 Tetrachloro-m-xylene 73 DCB Decachlorobiphenyl 63 46 - 109

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-466279/1-A

**Matrix: Solid** 

Analysis Batch: 466704

**Client Sample ID: Method Blank Prep Type: Total/NA** 

**Prep Batch: 466279** 

	IVID IV	ID							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0		mg/Kg		03/01/21 13:55	03/02/21 12:00	1
Arsenic	ND		2.0		mg/Kg		03/01/21 13:55	03/02/21 12:00	1

Lab Sample ID: LCS 320-466279/2-A

**Matrix: Solid** 

Analyte

Lead

Analysis Batch: 466704

Spike Added 25.0

LCS LCS Result Qualifier Unit 23.3 mg/Kg %Rec

93

Prep Type: Total/NA **Prep Batch: 466279** 

%Rec. Limits

**Client Sample ID: Lab Control Sample** 

80 - 120

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LCS LCS

MS MS

MSD MSD

31.6

47.6

Result Qualifier

**MDL** Unit

LCS LCS

LCSD LCSD

Result Qualifier

0.166

0.162

Result Qualifier

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

28.9

47.0

Result Qualifier

45.0

Result Qualifier

Unit

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

Client: Cornerstone Earth Group Job ID: 320-70548-1

Spike

Added

Sample Sample

Sample Sample

6.6

4.6

Result Qualifier

MB MB

 $\overline{\mathsf{ND}}$ 

Result Qualifier

50.0

Spike

Added

24.5

49.0

Spike

Added

24.8

49.5

Spike

Added

0.167

Spike

Added

0.167

RI

0.040

Project/Site: Camden Ave and Malpas Drive SQE

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-466279/2-A **Matrix: Solid** 

Analyte

Analysis Batch: 466704

Arsenic Lab Sample ID: 320-70365-A-5-L MS

Matrix: Solid Analysis Batch: 466704

Result Qualifier Analyte Lead 6.6 4.6 Arsenic

Lab Sample ID: 320-70365-A-5-M MSD **Matrix: Solid** 

Analysis Batch: 466704

Analyte Lead

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-466582/11-A **Matrix: Solid** 

Arsenic

**Analysis Batch: 466865** 

**Analyte** 

Mercury

Lab Sample ID: LCS 320-466582/12-A

**Matrix: Solid Analysis Batch: 466865** 

Analyte Mercury

Lab Sample ID: LCSD 320-466582/13-A

**Matrix: Solid Analysis Batch: 466865** 

Analyte

Mercury

Lab Sample ID: 320-70535-B-7-C MS

**Matrix: Solid Analysis Batch: 466865** 

Sample Sample Analyte Result Qualifier Mercury ND

Spike

Added 0.206

0.232

Result Qualifier

MS MS Unit mg/Kg

%Rec 101

D %Rec

Limits 86 - 114

Eurofins TestAmerica, Sacramento

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**Client Sample ID: Lab Control Sample** 

%Rec

D %Rec

90

91

87

%Rec

Prepared

%Rec

100

Client Sample ID: Lab Control Sample Dup

101

87

**Client Sample ID: Matrix Spike Duplicate** 

%Rec.

Limits

80 - 120

%Rec.

Limits

80 - 120

80 - 120

%Rec.

Limits

80 - 120

80 - 120

Client Sample ID: Method Blank

03/02/21 12:45 03/02/21 15:06

**Client Sample ID: Lab Control Sample** 

%Rec.

Limits

86 - 114

%Rec.

Limits

86 - 114

%Rec.

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

**Prep Batch: 466279** 

Prep Type: Total/NA

**Prep Batch: 466279** 

Prep Type: Total/NA

**Prep Batch: 466279** 

Prep Type: Total/NA

**Prep Batch: 466582** 

**RPD** 

Analyzed

**RPD** 

9

**RPD** 

Limit

Dil Fac

**RPD** 

Limit

35

# **QC Sample Results**

Client: Cornerstone Earth Group Job ID: 320-70548-1

Project/Site: Camden Ave and Malpas Drive SQE

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 320-70535-B-7-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 466865 Prep Batch: 466582** 

MSD MSD RPD Sample Sample Spike %Rec. RPD Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits Limit 0.216 Mercury ND 0.238 mg/Kg 99 86 - 114 3 17

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-70598-A-1 DU **Client Sample ID: Duplicate** 

**Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 466625** DU DU Sample Sample

RPD Result Qualifier Result Qualifier RPD Unit D Limit 14.6 % 2 20 14.4 Percent Moisture

# **QC Association Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

# **GC Semi VOA**

# **Prep Batch: 467779**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	3546	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	3546	
MB 320-467779/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-467779/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-467779/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70552-A-2-O MS	Matrix Spike	Total/NA	Solid	3546	
320-70552-A-2-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

#### **Analysis Batch: 468726**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	8081A	467779
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	8081A	467779
MB 320-467779/1-A	Method Blank	Total/NA	Solid	8081A	467779
LCS 320-467779/3-A	Lab Control Sample	Total/NA	Solid	8081A	467779
320-70552-A-2-O MS	Matrix Spike	Total/NA	Solid	8081A	467779
320-70552-A-2-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	467779

# Analysis Batch: 469014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-467779/2-A	Lab Control Sample	Total/NA	Solid	8081A	467779

#### **Metals**

# **Composite Batch: 465675**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	Composite	
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	Composite	

#### **Prep Batch: 466279**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	3050B	<u> </u>
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	3050B	
MB 320-466279/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-466279/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	3050B	465675
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	465675

# **Prep Batch: 466582**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	7471A	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	7471A	
MB 320-466582/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-466582/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-466582/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-70535-B-7-C MS	Matrix Spike	Total/NA	Solid	7471A	
320-70535-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

# **Analysis Batch: 466704**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	6010B	466279
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	6010B	466279

Eurofins TestAmerica, Sacramento

Job ID: 320-70548-1

# **QC Association Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

# **Metals (Continued)**

# **Analysis Batch: 466704 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-466279/1-A	Method Blank	Total/NA	Solid	6010B	466279
LCS 320-466279/2-A	Lab Control Sample	Total/NA	Solid	6010B	466279
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	6010B	466279
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	466279

# **Analysis Batch: 466865**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	7471A	466582
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	7471A	466582
MB 320-466582/11-A	Method Blank	Total/NA	Solid	7471A	466582
LCS 320-466582/12-A	Lab Control Sample	Total/NA	Solid	7471A	466582
LCSD 320-466582/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	466582
320-70535-B-7-C MS	Matrix Spike	Total/NA	Solid	7471A	466582
320-70535-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	466582

# **General Chemistry**

#### **Analysis Batch: 466625**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	D 2216	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	D 2216	
320-70598-A-1 DU	Duplicate	Total/NA	Solid	D 2216	

# **Lab Chronicle**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-9(0-0.5)

Date Collected: 02/26/21 08:10

Lab Sample ID: 320-70548-1

**Matrix: Solid** 

Job ID: 320-70548-1

Date Received: 02/26/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			466625	03/02/21 11:55	TCS	TAL SAC

Client Sample ID: EB-9(0-0.5)

Date Collected: 02/26/21 08:10 Date Received: 02/26/21 10:00

er	or Analyzed	Analyst	Lab
25	03/02/21 11:55	TCS	TAL SAC

Lab Sample ID: 320-70548-1 **Matrix: Solid** Percent Solids: 88.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.70 g	5 mL	467779	03/05/21 09:43	MBG	TAL SAC
Total/NA	Analysis	8081A		1			468726	03/09/21 20:04	K1D	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	466279	03/01/21 13:55	JP	TAL SAC
Total/NA	Analysis	6010B		1			466704	03/02/21 12:54	SP	TAL SAC
Total/NA	Prep	7471A			0.60 g	50 mL	466582	03/02/21 12:45	IM	TAL SAC
Total/NA	Analysis	7471A		1			466865	03/02/21 15:39	IM	TAL SAC

Client Sample ID: EB-10(0-0.5)

Date Collected: 02/26/21 08:30

Date Received: 02/26/21 10:00

Lab Sample ID: 320-70548-3

**Matrix: Solid** 

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			466625	03/02/21 11:55	TCS	TAL SAC

Client Sample ID: EB-10(0-0.5)

Date Collected: 02/26/21 08:30

Lab Sample ID: 320-70548-3 **Matrix: Solid** Date Received: 02/26/21 10:00 Percent Solids: 91.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.87 g	5 mL	467779	03/05/21 09:43	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468726	03/09/21 20:23	K1D	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	466279	03/01/21 13:55	JP	TAL SAC
Total/NA	Analysis	6010B		1			466704	03/02/21 12:58	SP	TAL SAC
Total/NA	Prep	7471A			0.60 g	50 mL	466582	03/02/21 12:45	IM	TAL SAC
Total/NA	Analysis	7471A		1			466865	03/02/21 15:41	IM	TAL SAC

#### **Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# **Accreditation/Certification Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

# Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	rogram	Identification Number	Expiration Date
California	St	ate	2897	02-01-23
• • • • • • • • • • • • • • • • • • • •	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
The following analyte the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
• • • • • • • • • • • • • • • • • • • •	•	ort, but the laboratory is r Matrix	not certified by the governing authority.  Analyte	This list may include analytes for

Eurofins TestAmerica, Sacramento

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# **Method Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Job ID: 320-70548-1

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# **Sample Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70548-1	EB-9(0-0.5)	Solid	02/26/21 08:10	02/26/21 10:00	
320-70548-3	EB-10(0-0.5)	Solid	02/26/21 08:30	02/26/21 10:00	

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4 4

720 - 70548 Chain of Custody Record

> CORNERSTONE EARTH GROUP

	Project Manager: Kurt Soenen	S	Site Sampler: Benjamin Trinh	Date: 02/26/2021	COC No: 1
Cornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037	I	Lab Contact: Afsaneh Salimpour	Lab: Test America	lof COCs
1259 Oakmead Pkwy	Analysis Turnaround Time		(0)		Laboratory's Job No
Sunnyvale, California 94085			002/00		
Phone: (408) 245-4600	TAT if different from Below		009 V		
Fax: (408) 245-4620	1 week		м (въ		
Project Name: Camden Ave and Malpas Drive SQE	3 days	Ken provide			
Site: Camden Ave and Malpas Drive	2 days		ıəM		
Project Number: 336-10-2	1 day		pus p		
Sample Identification	Sample Sample Sample Date Time Type	# of Watrix Cont.	Filtered Sai OCPs (EPA		I ahoratory's Sample Specific Notes
EB-9(0-0.5)	2/26/21 08:10 LINER	501c 4	 		and the second s
EB-9(1.5-2)	1 51:80 1	_	×		
E8-10(0-0.5)	08:30		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
EB-10(1.5-2)	\$ 08:35	→ 1 ->1	>		
			320-70548 Chain of County		
				Custody	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6=	=HNO3; 5=NaOH; 6= Other				
Possible Hazard Identification  Non-Hazard Elammable	Skin Irritant Poison B	Unknown	Sample Disposal  Return To Client	☐ Disposal By Lab ☐ Archive For	For Months
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.	ts: If additional sample is needed, i (ksoenen@cornerstoneearth.com)	please use the lin PLEASE R	er. Please email results to Ben Trinh ( EPORT RESULTS ON A L	btrinh@cornerstoneearth.com), MicleRY WEIGHT BASIS.	
12 B51	Company: Cornerstone Earth Group	Date/Time: <b>3/24/2</b> / 10:00	Received by:	Company:	Date/Time: 1C(9)
Relinquished by:	Company:	Date/Time:	Received by:	Company:	/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

### Chain of Custody Record

Eurofins TestAmerica, Sacramento

Phone: 916-373-5600 Fax: 916-372-1059

West Sacramento, CA 95605

880 Riverside Parkway

S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA Special Instructions/Note: W - pH 4-5 Z - other (specify) P - Na2O4S Q - Na2SO3 R - Na2S2O3 O - AsNaO2 320-70548-1 Preservation Codes: A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - MaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid COC No: 320-213524.1 Page: Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Total Number of containers Carrier Tracking No(s): State of Origin: California **Analysis Requested** Accreditations Required (See note): State - California; State Program - California × × Moisture/ (MOD) Local Method (Hold) × × × × 010B/3020B (MOD) Lead, As (Hold) Lab PM: Salimpour, Afsaneh F E-Mait: Afsaneh.Salimpour@Eurofinset.com × × Prep Mercury Only (Hold) Moisture/ (MOD) Local Method × × × 1081A/3546 Pesticides, Standard List × × × × 7471A/7471A\_Prep Mercury Only Perform MS/MSD (Yes or No) BT=Tissue, A=Air) (Wawater, Sasolid, Oawaste/oil, Preservation Code: Matrix Solid Solid Solid Solid Type (C=comp, G=grab) Sample Sample Pacific 08:15 Pacific 08:30 Pacific 08:35 Pacific (AT Requested (days) Due Date Requested: 3/4/2021 Sample Date 2/26/21 2/26/21 2/26/21 2/26/21 Project #: 32016556 Phone: Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) 916-373-5600(Tel) 916-372-1059(Fax) Camden Ave and Malpas Drive SQE TestAmerica Laboratories, Inc. EB-10(1.5-2.0) (320-70548-4) EB-9(1.5-2.0) (320-70548-2) EB-10(0-0.5) (320-70548-3) EB-9(0-0.5) (320-70548-1) 880 Riverside Parkway Shipping/Receiving West Sacramento State, Zip: CA, 95605

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica. Possible Hazard Identification

		Sample Disposal ( A lee may be assessed it samples are retained longer than 1 month)	samples are retained longer than 1 month)	
Unconfirmed		Return To Client Disposal By Lab	ab Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Requir		
Empty Kit Relinquished by:	Date:	Time: / Method	Method of Shipment:	
Relinquished by:	Date/Time: 2-26-21 Company	Received by	Date/Time: Company / Company	
Relinquished by:	Date/Time: Company		Date/Time: CALAI 1920 Company	*
Relinquished by:	Date/Time: Company	Received by:	Date/Time: Company	
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	3.6	
			Ver: 11/01/2020	070

Job Number: 320-70548-1

Login Number: 70548 List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Garcia, Hilario A

Creator: Garcia, Hilario A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 320-70548-1

Login Number: 70548 List Source: Eurofins TestAmerica, Sacramento

List Number: 2

Creator: Guzman, Juan

Creator. Guzman, Juan		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins TestAmerica, Sacramento** 



### **Environment Testing America**

### ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

Laboratory Job ID: 320-70441-2

Client Project/Site: Camden Ave and Malpas Drive SQE

Cornerstone Earth Group 1220 Oakland Blvd Suite 220 Walnut Creek, California 94085

Attn: Kurt Soenen

2 a. Tyn

Authorized for release by: 3/19/2021 5:02:45 PM Laura Turpen, Project Manager I (916)374-4414 Laura.Turpen@Eurofinset.com

Designee for

Afsaneh Salimpour, Senior Project Manager (925)484-1919

Afsaneh.Salimpour@Eurofinset.com

----- LINKS -----

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**Have a Question?** 



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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### **Definitions/Glossary**

Client: Cornerstone Earth Group Job ID: 320-70441-2

Project/Site: Camden Ave and Malpas Drive SQE

### **Qualifiers**

Qualifier

### **GC Semi VOA**

E Result exceeded calibration range.

**Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Н Sample was prepped or analyzed beyond the specified holding time

S1+ Surrogate recovery exceeds control limits, high biased.

### **General Chemistry**

Qualifier **Qualifier Description** 

Sample was prepped or analyzed beyond the specified holding time

### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DΙ Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) MI Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit PQL** 

**PRES** Presumptive **Quality Control** QC

**RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

Eurofins TestAmerica, Sacramento

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### **Case Narrative**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-70441-2

### Comments

No additional comments.

### Receipt

The samples were received on 2/24/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° C.

### GC Semi VOA

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 320-470656 and analytical batch 320-471160 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8081A: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 320-470656 and analytical batch 320-471160 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of 4,4'-DDE in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for gamma-BHC (Lindane) for the following sample: (320-70441-A-6-B MS). The primary column has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-3 (1.5-2) (320-70441-6). Elevated reporting limits (RLs) are provided.

Method 8081A: The following sample was diluted due to abundance of target analytes: EB-5 (1.5-2) (320-70441-10). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8081A: Surrogate recovery for the following sample was outside control limits: EB-3 (1.5-2) (320-70441-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **General Chemistry**

Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following samples in analytical batch 320-469790 were analyzed outside this time period: EB-3 (1.5-2) (320-70441-6) and EB-5 (1.5-2) (320-70441-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 320-70441-2

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### **Detection Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-3 (1.5-2)

Lab Sample ID: 320-70441-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	8.8	H F1	1.9		ug/Kg	1	₩	8081A	Total/NA
4,4'-DDE - DL	83	Н	9.3		ug/Kg	5	₩	8081A	Total/NA

Client Sample ID: EB-5 (1.5-2)

Lab Sample ID: 320-70441-10

Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	190 H	1	17		ug/Kg	10	₩	8081A	Total/NA
4,4'-DDT	130 ⊢	1	17		ug/Kg	10	₩	8081A	Total/NA

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Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-3 (1.5-2) Lab Sample ID: 320-70441-6

Date Collected: 02/24/21 09:45 **Matrix: Solid** Date Received: 02/24/21 11:45 Percent Solids: 90.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	Н	1.9		ug/Kg	<u></u>	03/16/21 13:02	03/17/21 19:29	1
4,4'-DDT	8.8	H F1	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Aldrin	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
alpha-BHC	ND	Н	1.9		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
beta-BHC	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
gamma-BHC (Lindane)	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
delta-BHC	ND	Н	1.9		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
cis-Chlordane	ND	Н	1.9		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
trans-Chlordane	ND	H F1	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Dieldrin	ND	Н	1.9		ug/Kg	⊅	03/16/21 13:02	03/17/21 19:29	1
Endosulfan I	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endosulfan II	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endosulfan sulfate	ND	Н	1.9		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
Endrin	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endrin aldehyde	ND	Н	1.9		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
Endrin ketone	ND	Н	1.9		ug/Kg	⊅	03/16/21 13:02	03/17/21 19:29	1
Heptachlor	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Heptachlor epoxide	ND	Н	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Methoxychlor	ND	Н	3.7		ug/Kg	₩	03/16/21 13:02	03/17/21 19:29	1
Toxaphene	ND	Н	73		ug/Kg	≎	03/16/21 13:02	03/17/21 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		47 - 107				03/16/21 13:02	03/17/21 19:29	1
Tetrachloro-m-xylene	65		47 - 107				03/16/21 13:02	03/17/21 19:29	1
DCB Decachlorobiphenyl	70		46 - 109				03/16/21 13:02	03/17/21 19:29	1
DCB Decachlorobiphenyl	69		46 - 109				03/16/21 13:02	03/17/21 19:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	83	Н	9.3		ug/Kg	<del>-</del>	03/16/21 13:02	03/18/21 18:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		47 - 107				03/16/21 13:02	03/18/21 18:39	5
Tetrachloro-m-xylene	86		47 - 107				03/16/21 13:02	03/18/21 18:39	5
DCB Decachlorobiphenyl	101		46 - 109				03/16/21 13:02	03/18/21 18:39	5
DCB Decachlorobiphenyl	110	S1+	46 - 109				03/16/21 13:02	03/18/21 18:39	5
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7	H	0.1		%			03/12/21 12:14	1

Client Sample ID: EB-5 (1.5-2) Lab Sample ID: 320-70441-10 Date Collected: 02/24/21 08:22 **Matrix: Solid** Date Received: 02/24/21 11:45 Percent Solids: 92.9

Method: 8081A - Orga	anochlorine Pesticid	es (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	17		ug/Kg	₩	03/16/21 13:02	03/18/21 18:58	10
4,4'-DDE	190	H	17		ug/Kg	₩	03/16/21 13:02	03/18/21 18:58	10
4,4'-DDT	130	H	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Aldrin	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10

Eurofins TestAmerica, Sacramento

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### **Client Sample Results**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-5 (1.5-2) Lab Sample ID: 320-70441-10

Date Collected: 02/24/21 08:22 **Matrix: Solid** Date Received: 02/24/21 11:45 Percent Solids: 92.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	Н	17		ug/Kg	<u></u>	03/16/21 13:02	03/18/21 18:58	10
beta-BHC	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
gamma-BHC (Lindane)	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
delta-BHC	ND	Н	17		ug/Kg	₩	03/16/21 13:02	03/18/21 18:58	10
cis-Chlordane	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
trans-Chlordane	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
Dieldrin	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Endosulfan I	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Endosulfan II	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
Endosulfan sulfate	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Endrin	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
Endrin aldehyde	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
Endrin ketone	ND	Н	17		ug/Kg	☼	03/16/21 13:02	03/18/21 18:58	10
Heptachlor	ND	Н	17		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Heptachlor epoxide	ND	Н	17		ug/Kg	₽	03/16/21 13:02	03/18/21 18:58	10
Methoxychlor	ND	Н	35		ug/Kg	≎	03/16/21 13:02	03/18/21 18:58	10
Toxaphene	ND	Н	690		ug/Kg	₩	03/16/21 13:02	03/18/21 18:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		47 - 107				03/16/21 13:02	03/18/21 18:58	10
Tetrachloro-m-xylene	62		47 - 107				03/16/21 13:02	03/18/21 18:58	10
DCB Decachlorobiphenyl	76		46 - 109				03/16/21 13:02	03/18/21 18:58	10
DCB Decachlorobiphenyl	91		46 - 109				03/16/21 13:02	03/18/21 18:58	10
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1	H	0.1		%			03/12/21 12:14	1

3/19/2021

### **Surrogate Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method: 8081A - Organochlorine Pesticides (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Pe	ercent Surre	ogate Rec
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(47-107)	(47-107)	(46-109)	(46-109)
320-70441-6	EB-3 (1.5-2)	67	65	70	69
320-70441-6 - DL	EB-3 (1.5-2)	88	86	101	110 S1+
320-70441-6 MS	EB-3 (1.5-2)	56		55	
320-70441-6 MSD	EB-3 (1.5-2)	50		51	
320-70441-10	EB-5 (1.5-2)	72	62	76	91
LCS 320-470656/2-A	Lab Control Sample	78		88	
LCS 320-470656/3-A	Lab Control Sample	73		80	
MB 320-470656/1-A	Method Blank	76	82	81	83

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Sacramento

Page 8 of 22

Project/Site: Camden Ave and Malpas Drive SQE

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-470656/1-A

**Matrix: Solid** 

**Analysis Batch: 471160** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA Prep Batch: 470656** 

Job ID: 320-70441-2

	MB M	IB					
Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
4,4'-DDE	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
4,4'-DDT	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Aldrin	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
alpha-BHC	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
beta-BHC	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
gamma-BHC (Lindane)	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
delta-BHC	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
cis-Chlordane	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
trans-Chlordane	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Dieldrin	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan I	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan II	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan sulfate	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin aldehyde	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin ketone	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Heptachlor	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Heptachlor epoxide	ND	1.7	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Methoxychlor	ND	3.4	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Toxaphene	ND	67	ug/Kg		03/16/21 13:02	03/17/21 18:32	1
•			0 0				

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	76		47 - 107	03/16/21 13:02	03/17/21 18:32	1	
Tetrachloro-m-xylene	82		47 - 107	03/16/21 13:02	03/17/21 18:32	1	
DCB Decachlorobiphenyl	81		46 - 109	03/16/21 13:02	03/17/21 18:32	1	
DCB Decachlorobiphenyl	83		46 - 109	03/16/21 13:02	03/17/21 18:32	1	

Lab Sample ID: LCS 320-470656/2-A

**Matrix: Solid** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Analysis Batch: 471160							<b>Prep Batch: 470656</b>
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	16.7	17.7	-	ug/Kg		106	53 - 117
4,4'-DDE	16.7	17.6		ug/Kg		106	58 - 115
4,4'-DDT	16.7	16.5		ug/Kg		99	53 - 128
Aldrin	16.7	17.2		ug/Kg		103	55 - 109
alpha-BHC	16.7	16.8		ug/Kg		101	54 - 111
beta-BHC	16.7	17.1		ug/Kg		102	53 - 115
gamma-BHC (Lindane)	16.7	16.7		ug/Kg		100	54 - 112
delta-BHC	16.7	17.0		ug/Kg		102	39 - 124
cis-Chlordane	16.7	16.5		ug/Kg		99	54 - 113
trans-Chlordane	16.7	16.9		ug/Kg		102	55 - 114
Dieldrin	16.7	17.1		ug/Kg		102	54 - 117
Endosulfan I	16.7	14.5		ug/Kg		87	42 - 118
Endosulfan II	16.7	16.1		ug/Kg		97	48 - 118
Endosulfan sulfate	16.7	17.1		ug/Kg		103	51 - 113
Endrin	16.7	16.6		ug/Kg		100	58 - 115

Eurofins TestAmerica, Sacramento

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Analysis Batch: 471160

**Matrix: Solid** 

**Matrix: Solid** 

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID: LCS 320-470656/2-A

Lab Sample ID: LCS 320-470656/3-A

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 470656** 

Job ID: 320-70441-2

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
16.7	14.5		ug/Kg		87	40 - 100	
16.7	16.5		ug/Kg		99	51 - 118	
16.7	16.0		ug/Kg		96	50 - 118	
16.7	16.3		ug/Kg		98	56 - 113	
16.7	15.6		ug/Kg		94	52 - 123	
	Added 16.7 16.7 16.7 16.7	Added         Result           16.7         14.5           16.7         16.5           16.7         16.0           16.7         16.3	Added         Result         Qualifier           16.7         14.5           16.7         16.5           16.7         16.0           16.7         16.3	Added         Result         Qualifier         Unit           16.7         14.5         ug/Kg           16.7         16.5         ug/Kg           16.7         16.0         ug/Kg           16.7         16.3         ug/Kg	Added         Result         Qualifier         Unit         D           16.7         14.5         ug/Kg           16.7         16.5         ug/Kg           16.7         16.0         ug/Kg           16.7         16.3         ug/Kg	Added         Result         Qualifier         Unit         D         %Rec           16.7         14.5         ug/Kg         87           16.7         16.5         ug/Kg         99           16.7         16.0         ug/Kg         96           16.7         16.3         ug/Kg         98	Added         Result         Qualifier         Unit         D         %Rec         Limits           16.7         14.5         ug/Kg         87         40 - 100           16.7         16.5         ug/Kg         99         51 - 118           16.7         16.0         ug/Kg         96         50 - 118           16.7         16.3         ug/Kg         98         56 - 113

LCS LCS Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 78 47 - 107 DCB Decachlorobiphenyl 88 46 - 109

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA Prep Batch: 470656** 

**Analysis Batch: 471160** LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Toxaphene

167 43 - 123 133 ug/Kg 80

LCS LCS Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 73 47 - 107 DCB Decachlorobiphenyl 80 46 - 109

Lab Sample ID: 320-70441-6 MS Client Sample ID: EB-3 (1.5-2) **Matrix: Solid** 

**Prep Type: Total/NA** 

Analysis Batch: 471160	Camula	Cammia	Cmiles	ме	MS				Prep Batch: 470656 %Rec.
Analysta	•	Sample	Spike Added			Unit	D	%Rec	%кес. Limits
Analyte		Qualifier			Qualifier	Unit			
4,4'-DDD	ND	Н	18.1	12.1		ug/Kg	₽	67	53 - 117
4,4'-DDE	68	H F2 E F1	18.1	52.8	E F1	ug/Kg	≎	-83	58 - 115
4,4'-DDT	8.8	H F1	18.1	16.7	F1	ug/Kg	₩	44	53 - 128
Aldrin	ND	Н	18.1	11.6		ug/Kg	₽	64	55 - 109
alpha-BHC	ND	Н	18.1	10.7		ug/Kg	₩	59	54 - 111
beta-BHC	ND	Н	18.1	14.1		ug/Kg	☼	78	53 - 115
gamma-BHC (Lindane)	ND	H F2	18.1	18.2		ug/Kg	☼	101	54 - 112
delta-BHC	ND	Н	18.1	12.8		ug/Kg	☼	71	39 - 124
cis-Chlordane	ND	Н	18.1	17.4		ug/Kg	☼	96	54 - 113
trans-Chlordane	ND	Н	18.1	11.3	F1	ug/Kg	☼	46	55 - 114
Dieldrin	ND	Н	18.1	12.0		ug/Kg	☼	64	54 - 117
Endosulfan I	ND	Н	18.1	10.2		ug/Kg	☼	55	42 - 118
Endosulfan II	ND	Н	18.1	10.5		ug/Kg	☼	58	48 - 118
Endosulfan sulfate	ND	Н	18.1	10.8		ug/Kg	☼	59	51 - 113
Endrin	ND	Н	18.1	11.5		ug/Kg	☼	64	58 - 115
Endrin aldehyde	ND	Н	18.1	9.24		ug/Kg	₽	51	40 - 100
Endrin ketone	ND	Н	18.1	12.1		ug/Kg	☼	67	51 - 118
Heptachlor	ND	Н	18.1	10.6		ug/Kg	☼	59	50 - 118
Heptachlor epoxide	ND	Н	18.1	10.9		ug/Kg	⊅	61	56 - 113
Methoxychlor	ND	Н	18.1	10.5		ug/Kg	☼	58	52 - 123

Eurofins TestAmerica, Sacramento

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

### Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70441-6 MS

**Matrix: Solid** 

**Analysis Batch: 471160** 

Client Sample ID: EB-3 (1.5-2)

Prep Type: Total/NA

**Prep Batch: 470656** 

MS MS

%Recovery Qualifier Surrogate Limits 47 - 107 Tetrachloro-m-xylene 56 DCB Decachlorobiphenyl 55 46 - 109

Lab Sample ID: 320-70441-6 MSD

**Analysis Batch: 471160** 

Client Sample ID: EB-3 (1.5-2)

**Prep Batch: 470656** 

Prep Type: Total/NA **Matrix: Solid** 

MSD MSD %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits  $\overline{\mathsf{ND}}$   $\overline{\mathsf{H}}$ 18.3 12.2 ☼ 66 53 - 117 ug/Kg

RPD Limit 4,4'-DDD 30 1 4,4'-DDE 68 HF2 EF1 18.3 38.2 E F2 F1 ug/Kg ₩ -161 58 - 115 32 30 4.4'-DDT 8.8 H F1 18.3 14.1 F1 ug/Kg 29 53 - 128 17 30 ₩ Aldrin ND H 18.3 11.5 ug/Kg ☼ 62 55 - 109 30 alpha-BHC ND H 18.3 10.8 ug/Kg ₩ 59 54 - 111 30 beta-BHC 69 ND Н 18.3 12.7 ug/Kg ₩ 53 - 115 11 30 gamma-BHC (Lindane) ND H 18.3 14.0 ug/Kg 77 54 - 112 30 30 delta-BHC ND H 18.3 12.1 66 39 - 124 6 30 ug/Kg ₩ cis-Chlordane 80 30 ND H 18.3 14.7 ug/Kg ₩ 54 - 113 17 trans-Chlordane ND H 18.3 11.0 F1 Ö 44 3 30 ug/Kg 55 - 114Dieldrin ND H 18.3 11.8 ug/Kg 62 54 - 117 30 Endosulfan I ND H 18.3 9.88 53 42 - 118 30 ug/Kg ∜ Endosulfan II ND H 18.3 10.7 58 48 - 118 30 ug/Kg Endosulfan sulfate 18.3 63 30 ND H 11.5 ug/Kg Ö 51 - 113 Endrin ND Η 18.3 11.5 ug/Kg ₩ 63 58 - 115 30 ND 18.3 9.27 51 40 - 100 30 Endrin aldehyde Н ug/Kg ₩ Endrin ketone ND Н 18.3 11.9 ug/Kg ₩ 65 51 - 118 2 30 Heptachlor ND Н 18.3 10.6 ug/Kg ₩ 58 50 - 118 30

18.3

18.3

MSD MSD Surrogate %Recovery Qualifier Limits

47 - 107 Tetrachloro-m-xylene 50 DCB Decachlorobiphenyl 51 46 - 109

ND H

ND H

Method: D 2216 - Percent Moisture

Heptachlor epoxide

Methoxychlor

Lab Sample ID: 320-71032-D-2 DU	Client Sample ID: Duplicate
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 469790	

10.9

10.7

ug/Kg

ug/Kg

DU DU **RPD** Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Percent Moisture 6.1 6.0 % 20

60

58

56 - 113

52 - 123

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**RPD** 

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n

### **QC Association Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

### **GC Semi VOA**

### **Prep Batch: 470656**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-6 - DL	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	3546	
MB 320-470656/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-470656/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-470656/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70441-6 MS	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-6 MSD	EB-3 (1.5-2)	Total/NA	Solid	3546	

### **Analysis Batch: 471160**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
MB 320-470656/1-A	Method Blank	Total/NA	Solid	8081A	470656
LCS 320-470656/2-A	Lab Control Sample	Total/NA	Solid	8081A	470656
LCS 320-470656/3-A	Lab Control Sample	Total/NA	Solid	8081A	470656
320-70441-6 MS	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
320-70441-6 MSD	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656

### Analysis Batch: 471844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6 - DL	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	8081A	470656

### **General Chemistry**

### Analysis Batch: 469790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	D 2216	
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	D 2216	
320-71032-D-2 DU	Duplicate	Total/NA	Solid	D 2216	

Job ID: 320-70441-2

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### **Lab Chronicle**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Client Sample ID: EB-3 (1.5-2)

Date Collected: 02/24/21 09:45

Lab Sample ID: 320-70441-6

**Matrix: Solid** 

Job ID: 320-70441-2

Percent Solids: 90.3

**Matrix: Solid** 

Date Received: 02/24/21 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			469790	03/12/21 12:14	KDB	TAL SAC

Client Sample ID: EB-3 (1.5-2)

Date Collected: 02/24/21 09:45 Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-6 **Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 3546 15.15 g 5 mL 470656 03/16/21 13:02 TL TAL SAC Total/NA Analysis 8081A 471160 03/17/21 19:29 K1D TAL SAC 3546 DL 470656 TAL SAC Total/NA Prep 5 mL 03/16/21 13:02 TL 15.15 g Total/NA Analysis 8081A DL 5 471844 03/18/21 18:39 AO TAL SAC

Client Sample ID: EB-5 (1.5-2)

Date Collected: 02/24/21 08:22

Date Received: 02/24/21 11:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			469790	03/12/21 12:14	KDB	TAL SAC

Client Sample ID: EB-5 (1.5-2)

Date Collected: 02/24/21 08:22

Date Received: 02/24/21 11:45

	03/12/21			TAL SAC	
Lai	o Sam <sub>l</sub>	ole ID:	320-	70441-10	

Lab Sample ID: 320-70441-10

**Matrix: Solid** Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.74 g	5 mL	470656	03/16/21 13:02	TL	TAL SAC
Total/NA	Analysis	8081A		10			471844	03/18/21 18:58	AO	TAL SAC

**Laboratory References:** 

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

### **Accreditation/Certification Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

### **Laboratory: Eurofins TestAmerica, Sacramento**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
California	Sta	ate	2897	02-01-23
The following analyte				
the agency does not	•	•	, , ,	
• • •	•	Matrix	Analyte	, ,

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### **Method Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC

### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

### **Sample Summary**

Client: Cornerstone Earth Group

Project/Site: Camden Ave and Malpas Drive SQE

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70441-6	EB-3 (1.5-2)	Solid	02/24/21 09:45	02/24/21 11:45	
320-70441-10	EB-5 (1.5-2)	Solid	02/24/21 08:22	02/24/21 11:45	

Job ID: 320-70441-2

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EARTH GROUP	2	0	2	5	ain	f Cu	70 Chain of Custody Record	Recor	75			148	128656
	Project Manager: Kurt Soenen	er: Kurt So	nen		Sit	Sample	Site Sampler: Benjamin Trinh	a Trinh	Date:	Date: 02/24/2021		COC No: 1	
Cornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037	605-3037			La	Contac	Lab Contact: Afsaneh Salimpour	Salimpour		Lab: Test America		Lof 200Cs	
1259 Oakmead Pkwy	An	Analysis Turnaround Time	round Tir	ne		(00						Laboratory's Job No.	
Sunnyvale, California 94085						004/0							
Phone: (408) 245-4600		TAT if different from Below	selow			009 <b>V</b>							
Fax: (408) 245-4620		1 week	¥			(EPA							
Project Name: Camden Ave and Malpas Drive SQE		3 days	s,			cm.							
Site: Camden Ave and Malpas Drive		2 days	s,										
Project Number: 336-10-2		1 day			wbje								
Sample Identification	Sample Date	Sample S Time	Sample Type N	Matrix	# of Cont.	Arsenic, Lea OCPs (EPA			bloł			I shoretony's Course Grantis Notes	oorffo Moteo.
ER-( (0-0.5)	3/24/21	09:24		Ш	7	X			I			o admis a familiar	Scaling Hotes.
EB-1(3.5-4)	<del> </del>	69:32				$\times$							
EB-2(0-05)	•	去4:80				X							
EB-2(3.5-4)		08:50				$\bigotimes$							
E8-3 (0-0.5)	9	0h: b0				X							
EB-3(1.5-2)	J	Sh: 60							×				
EB-4 (0-0.5)	0	64:18				X							
EB-4 (1.5-2)	Q	12:69							×				
F8-5 (0-0.5)	<i>-</i>	68:19				X							
E8-5 (1,5-a)		27:30							×	320-7	320-70441 Chain of Custody	Custody	
EB-6 (0-0.5)		10:00				X							
E8-6 (1.5-2)	<b>&gt;</b> 1	10:02	71	71	つし				X				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other	4=HNO3; 5=N	aOH; 6= Ot	her										
Possible Hazard Identification Non-Hazard Flammable	Skın Irrıtant	Poison B	m B	Unknown	омп	Sample R	Sample Disposal  Return To Client	ient	. Dispos	Disposal By Lab	Archi	Archive For Months	ν <sub>ι</sub>
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WRIGHT RASIS	nts: If addition	ial sample is	needed, p	lease use	the liner	Please PORT	email result	T S ON	rinh (btrinh	acornerston WFICH	eearth.com), M		
	,								* * * * * * * * * * * * * * * * * * *		E EXTENSE	21.50	- 1
Relinquished by:	Company: Cornerstone Earth Group	rth Group		Date/Time:	)h.//	Received by:	l by:	0,	,	Company:	1	Date/Time:	737
Relinquished by:	Company:			Date/Time:		Received by:	]   Py:			Company:	3	Date/Time:	
Relinquished by:	Company:			Date/Time:		Received by:	l by:			Company:		Date/Time:	
			_	Service of the Party Control o	The state of the s								engang.

CORNERSTONE EARTH GROUP

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CORNERSTONE EARTH GROUP

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	Project Manager: Kurt Soenen		Site Sampler: Benjamin Trinh	Date: 02/24/2021	COC No: 1
Cornerstone Earth Group, Inc.	Tel/Fax: (408) 605-3037		ır	Lab: Test America	20f 2COCs
1259 Oakmead Pkwy	Analysis Turnaround Time		L		Laboratory's Job No.
Sunnyvale, California 94085			002/0		
Phone: (408) 245-4600	TAT if different from Below		009 \$		
Fax: (408) 245-4620	1 week		(E₽≜		
Project Name: Camden Ave and Malpas Drive SQE			cnry		
Site: Camden Ave and Malpas Drive	2 days				
Project Number: 336-10-2	l day		pue p		
Sample Identification	Sample Sample Sample Date Time Type	# of Matrix Cont.	Filtered Sai OCPs (EPA		Laboratory's Sample Specific Notes:
EB-7 (0-0.5)	2/24/21 07:59 UNER	2016 1	XX		
EB-7 (15-2)	08:05	_			
EB-8 (0-0.5)	80:01		×		
EB-8 (1.5-2)	D: 10	-51 -51			
D					
Preservation Used: $1 = Ice$ , $2 = HCI$ ; $3 = H2SO4$ ; $4 = HNO3$ ;	4=HNO3; 5=NaOH; 6= Other				
Possible Hazard Identification  Non-Hazard Flammable	Skin Irritant — Potson B	Unknown	Sample Disposal  Return To Client	Disposal By Lab — Archive For	For Months
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mehang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.	nts: If additional sample is needed. en (ksoenen@cornerstoneearth.com	, please use the lin ). PLEASE R	ter. Please email results to Ben Trinh () EPORT RESULTS ON A D	trinh@cornerstoneearth.com), Mic RY WEIGHT BASIS.	hael Chang
Relinguished by:	Company:	Date/Time:	Borowind hr. 1		D - (D)
By British of Land	Cornerstone Earth Group	4/21 (1.4)	Jan Vinger	Company:	Date/Time: 2-24-7 (145)
Neimquished Ne	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Page 18 of 22

Cooler Temperature(s) °C and Other Remarks:

**Chain of Custody Record** Eurofins TestAmerica, Sacramento

Eurorins lestAmerica, Sacramento								=						
	O	hain	of Cus	Chain of Custody Record	ecord								💸 eurofins	Environment Testing
West Sacramento, CA 95605 Phone: 916-373-5600 Fax: 916-372-1059			)					Ξ						America
Client Information (Sub Contract Lab)	Sampler:			Lab PM Salimp	Lab PM: Salimpour, Afsaneh F	aneh F				Carrier Tracking No(s)	king No(s):		COC No: 320-213217.1	
Client Contact: Shipping/Receiving	Phone:			E-Mail: Afsar	E-Mail: Afsaneh.Salimpour@Eurofinset.com	oour@E	urofinse	et.com		State of Origin: California	gin:		Page: Page 1 of 2	
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note): State - California; State Program - California	ns Require	State F	ote): rogram	Saji	ornia			Job #:	
Address: 880 Riverside Parkway,	Due Date Requested: 3/2/2021	eq:					₹	alysi	s Req	Analysis Requested		14-	Preservation Codes:	es:
City: West Sacramento	TAT Requested (days):	ays):											B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CA, 95605									(pı				D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone: 916-373-5600(TeI) 916-372-1059(Fax)	PO #:				(0	40,	161			(p			G - Amchlor	R - Na2S203 S - H2S04 T - TSD Podoob droto
Email:	, WO #:				(oN					юн) р				U - Acetone
Project Name: Camden Ave and Malpas Drive SQE	Project #: 32016556				10 88	eA,bse				Metho			K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:				A) as	וסם) רפ				Pocal			other:	
		Sample	Sample Type (C=comp,	Matrix (w=water, 3=solid, O=waste/oll,	M\SM mnoft M\SM wash	N) 8050E/801	1 A/3546 Pes	9_A1747\A17 M) 8020E\801	94 842 Fee	isture/ (MOD			1edmuM lsi	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	র	оd)	09	-	-	-	oM	-			Special Instructions/Note:
	$\langle$	$\langle$	Preserva	Preservation Code:	X									
EB-1 (0-0.5) (320-70441-1)	2/24/21	09:24 Pacific		Solid	×	×	×						1	
EB-1 (3.5-4) (320-70441-2)	2/24/21	09:32 Pacific		Solid	×	×	×						-	
EB-2 (0-0.5) (320-70441-3)	2/24/21	08:47 Pacific		Solid	×	×	×						-	
EB-2 (3.5-4) (320-70441-4)	2/24/21	08:50 Pacific		Solid	×	×	×					(selver)		
EB-3 (0-0.5) (320-70441-5)	2/24/21	09:40 Pacific		Solid	×	×	×						1	
EB-3 (1.5-2) (320-70441-6)	2/24/21	09:45 Pacific		Solid				×	×	×		2578		
EB-4 (0-0.5) (320-70441-7)	2/24/21	09:18 Pacific		Solid	×	×	×							
EB-4 (1.5-2) (320-70441-8)	2/24/21	09:21 Pacific		Solid				×	×	×		200723	- Andrews	
EB-5 (0-0.5) (320-70441-9)	2/24/21	08:19 Pacific		Solid	×	×	×							
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditations status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.	rica places the owners rix being analyzed, the to date, return the signi	hip of method samples must ed Chain of Co	, analyte & accr be shipped ba ustody attesting	editation compli ck to the Eurofin to said complic	ance upon or s TestAmer ance to Eur	out subcor ca labora ofins Test	itract lab tory or ot America.	oratories.	This sa	nple shipm I be provid	ent is forwa	rded under onges to acc	hain-of-custody. If the I	aboratory does not currently be brought to Eurofins
Possible Hazard Identification					Sampl	e Dispo	sal (A	fee ma	y be a	sessed	fsample	s are reta	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	month)
emonument Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverabl	able Rank: 2	2		Specia	Special Instructions/QC Requirements	o Cilen tions/Q	C Requ	iremer	Disposal By Lab	Lab	Arc	Archive For	Months
Empty Kit Relinquished by:		Date:			Time:					Metho	Method of Shipment:	ant:		
Relinquished by:	Date/Time: 7-2			Company	Rec	Received by:	X	18/	9		Date/Time:	te/Time:	26/600	Company
Relinquished by:	Date/Time:	7	1943	Company		Received by:	3	A			Oate	12	305/ M	Company
Relinquished by:	Date/Time:			Company	Rec	Received by:					Date/Time	1		Company

Custody Seals Intact: Custody Seal No.:

Eurofins TestAmerica, Sacramento

## **Chain of Custody Record**

West Sacramento, CA 95605 Phone: 916-373-5600 Fax: 916-372-1059																	America	
Client Information (Sub Contract Lab)	Sampler:			Lab PN Salim	Lab PM: Salimpour, Afsaneh F	fsane	ЬF				Carrier T	Carrier Tracking No(s)	o(s):		COC No: 320-213217.2	217.2		
Client Contact: Shipping/Receiving	Phone:			E-Mail: Afsan	eh.Sali	impoui	E-Mail: Afsaneh.Salimpour@Eurofinset.com	ofinse	E CO		State of Origin: California	Origin: Jia			Page: Page 2 of	of 2		
Company: TestAmerica Laboratories, Inc.					Accredita	Salifor Califor	Accreditations Required (See note): State - California; State Program -	(See no	te): ogram	Call	California				Job #:	1-14		
Address: 880 Riverside Parkway, ,	Due Date Requested: 3/2/2021	:pe						Ā	alysis	Rec	Analysis Requested				Preserva	Ĭš.	es:	
City. West Sacramento State, Zip:	TAT Requested (day	ays):			9-143										A - HCL B - NaOH C - Zn Acetate D - Nitric Acid		M - Hexane N - None O - AsNaO2 P - Na2O4S	
CA, 95605 Phone:	#04				200					(blol					E - NaHS F - MeOF		Q - Na2SO3 R - Na2S2O3	
916-373-5600(Tel) 916-372-1059(Fax)	÷ 0				40)		tsiJ		-	H) tsi L	(pjo				G - Amchlor H - Ascorbic Acid	ъ	S - H2SO4 T - TSP Dode	cahydrate
Email:	.wo #:				_					dard l	он) ро						U - Acetone V - MCAA	
Project Name: Camden Ave and Malpas Drive SQE	Project #: 32016556				_					nst2 ,	Metho				K-EDTA L-EDA		W - pH 4-5 Z - other (specify)	cify)
Site:	SSOW#:									ticides	Focal				Other:			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp,	Matrix (w=water, S=solid, O=waste/oll,	ield Filtered M/SM mohe	9_A1747\A174 	m) ancockan to	Moisture/ (MOD)	M) 80305/8010	294 342E\A180	(MOM) (ADD)				otal Mumber o			
	X	X	- 1	1	_	-			-	В	v					ecial III	Special instructions/Note	vore:
EB-5 (1.5-2) (320-70441-10)	2/24/21	08:22 Pacific		Solid					×	×	×				-			
EB-6 (0-0.5) (320-70441-11)	2/24/21	10:00 Pacific		Solid		×	×	×	-				-		-			
EB-6 (1.5-2) (320-70441-12)	2/24/21	10:02 Pacific		Solid					×	×	×		-		-			
EB-7 (0-0.5) (320-70441-13)	2/24/21	07:59 Pacific		Solid		×	×	×			-		-		1			
EB-7 (1.5-2) (320-70441-14)	2/24/21	08:05 Pacific		Solid					×	×	×				-			
EB-8 (0-0.5) (320-70441-15)	2/24/21	10:08 Pacific		Solid		×	×	×							9			
EB-8 (1.5-2) (320-70441-16)	2/24/21	10:14 Pacific		Solid					×	×	×							
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently restAmerica alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If in equested accreditation status should be brought to Eurofins	StAmerica places the owners ts/matrix being analyzed, the unrent to date, return the sion	hip of method, a samples must be chain of Cus	analyte & accre	editation complied to the Eurofin	ance upc	on out si	ubcontra	act labo	atories.	This so	mple shi	oment is f	orwarder	d under o	hain-of-custo	dy. If the I	aboratory does	not current
Possible Hazard Identification					Sam	ple D.	ispos	I (Af	ee maj	be a	ssesse	d if san	bles a	re reta	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	r than 1	month)	
Oriconirmed Deliverable Requested: I, II, IV, Other (specify)	Primary Deliverabl	able Rank: 2			Spec	Retu	Special Instructions/QC Requirements.	Client ns/QC	Redui		Disposal By Lab	By Lab		Arc	Archive For		Months	1
Empty Kit Relinquished by:		Date:		ľ	Time:		\				Me	Method of Shipment:	ipment:					
Relinquished by:	Date/Time: $\sqrt{-2}$	1	0	Company		Received by:	X.	1	9	9	}		Date/Time	7,5	71	23/	Company	
Reinquished by: Reinquished by:	Date/Time:	6/ Pa	) _{EZ}	Company C		Received by		n	H			٥	Out/Time:	The	1/1	80	M	1/2
Custody Seals Intact: Custody Seal No.:						Cooler T	Cooler Temperature(s) °C and Other Remarks:	ture(s)	C and C	ther Re	marks:						Company	
				15		14	1	1:			1	9	8		6	4	Ver: 11/01/2020	020

Job Number: 320-70441-2

Login Number: 70441 List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Mullen, Joan

Creator. Mullen, Joan		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 320-70441-2

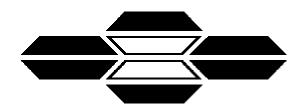
Login Number: 70441

List Sou

List Source: Eurofins TestAmerica, Sacramento

List Number: 2 Creator: Guzman, Juan

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



### ASBESTOS TEM LABORATORIES, INC.

### CARB Method 435 Polarized Light Microscopy Analytical Report

<u>Laboratory Job # 1206-00616</u>

3431 Ettie St.
Oakland, CA 94608
(510) 704-8930
FAX (510) 704-8429



### ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP Lab No. 1866 NVLAP

NVLAP Lab Code: 101891-Oakland CA

Mar/04/2021

Kurt Soenen Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085

RE: LABORATORY JOB # 1206-00616

Polarized light microscopy analytical results for 3 bulk sample(s).

Job Site: 336-10-2

Job No.: Camden Ave and Malpas Drive

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microsope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager

ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

### POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Page: <u>1</u> of

Contact:Kurt Soenen Samples Submittec 3

Report No. 372439

Address: Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Samples Analyzed: 3

Date Submitted: Feb-25-21 Date Reported: Mar-04-21

Sunnyvale, CA 94085

Job Site / No. Camden Ave and Malpas Drive

336-10-2

SAMPLE ID	DUNITG	BESTOS	LOCATION / DESCRIPTION
OAMI LL ID	COUNTED %	TYPE	DESCRIPTION
EB-3(0-0.5)	<0.25%	<b>None Detected</b>	
			No Asbestos Detected
Lab ID # 1206-00616-001	<b>400</b> - Total Points		
EB-5(0-0.5)	<0.25%	None Detected	
L ID + 420C 00C4C 002			No Asbestos Detected
Lab ID # 1206-00616-002	400 - Total Points		
EB-8(0-0.5)	<0.25%	None Detected	
Lab ID # 1206-00616-003	<b>400</b> - Total Points		No Asbestos Detected
Lab 1D # 1200 00010 003	400 - Total Points		
Lab ID #	- Total Points		1
	Total Folino		
Lab ID #	- Total Points		1
Lab ID #	- Total Points		
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Lab ID #	- Total Points		
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Lab ID #	Total Dainta		1
	- Total Points		

QC Reviewer Ruc But

Analys\_\_\_\_\_\_llara Dingman

3431 Ettie St., Oakland, CA 94608

PH. (510) 704-8930

372439

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CALIFORNIA: 3431 Ettie Street Oakland, CA 94608 Phone (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freeport Bivd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798
You may also email this chain of custody to coc@asbestostemiabs.com \* denotes required field

Email: * ksoenen@cornerstoneearth.com	Email: btrinh@cornerstoneearth.com	Email: mchang@cornerstoneearth.com	: flor	After Hours: **	D ISO 13794 D Sensitivity	D TEM EPA Qualitative D TEM EPA Quantitative	tative of Erionite	(Gravimetric)		Respirable Crystalline Silica in Bulk (NIOSH 7503)	DITLE DISTLE DITCLP	9 10 10 10 10 10 10 10 10 10 10 10 10 10	Description *														CERCS 21 1888SAM		
Email: *	Email: bi	Email: m	Billing Email:	An LA	D ISO 10312 E	-	□ TEM-NOA EPA/CARB Quantitative	□ Total Particulates (Gravimetric)	ed	ulk (NICSH 7500) All Species	0090 HSON 0		-	4								STATE OF STREET							
(408) 605-3037	Zip: 94085		n Pre-Paid	□ Hold Samples (Until	D TEM NIOSH 7402	CI PLM 1000 PC Grav. Red.		/lbe	note that 100.2 will be used for all water samples unicss otherwise requested	Crystalline Silica in Bulk (NIOSH 7500) © Single Species © All Species	□ NIOSH 0500		Hold	Sample	0	0	0	0	0	0	0	С	0	D	D				
Phone: * (408) 6	State: * CA Z	PO #:	n Mail n	n 10 DAY D Hold		H	D EPA Soil Screening Qualitative	D ASTM D-6480 Dust Wipe	ter somples unles	-	n TEM Chatfield (Semi-Quant)		Volume or	e Area						7			1		-	6	0		
Pri	St		hall D'Fax	D AV D	□ TEM EPA Yamate Level II	n PLM 400 PC Gravimetric Reduction		D'ASI	be used for all wo	Crystalline Silica Air (NIOSH 7500)	TEM Chatfield		Flow Rate (Ipm)	Off Average		- Contraction								4	× ×	>	eceived		
		336-10-2	Billing Email	48 HR D3 DAY		DPLM 1000 PC DPLM	D 1000 PC D 1200 PC	D ASTM D-5756 Mass	e that 100.2 will b	CI Lead Soil EPA- Cry SW-846 70008 D 5			Flow	uO										The state of the s		Received By	Date/Time Received	Received By	
Contact:* Kurt Soenen	nnyvale	Job#:	n Pickup Bill	0 24 HR 0 48	DIEM CARB Mod. AHERA	-	□ 800 PC □ 100			12		Other **	90	Off Time (min)	. PR			W. 4			100					15:42	7		
Contact:*	City: Sunny		□ Mail □	BH8 0	O TEM AHERA	E PLM 400 Point Count	CARB 435 PLANT 400 PC 10 800 PC	ASTM D-5756 Wt. %	0 100.1 Non Potable Water	-		S Hour TWA		б				4								RIT			
roup	cway	alpas Drive	ne □Fax	HR 116 HR	H				+	TLead Dust Wipe EPA-SW-846 7000B		n Prep Only	Date Collected		17/12/4		ادٍ									N	12		
Cornerstone Earth Group	1259 Oakmead Parkway	Camden Ave and Malpas Drive	Email p. Phone	C2HR D4HR	□ PCM NIOSH 7400 □ A □ B	@ PLM Standard (EPA 600/R-93-1)	CARB 435 Prep Only	d ASTM D-5755 Fiber Count	D 100.2 Potable Drinking Water	□ Lead Paint Chips EPA-SW-846 70008	II Custom Analysis **	Composite Di	Sample Type		SOIL BAL		اد	18-11-19								Broom	tted : 3/24/		
Company: Corne	Address: * 1259	Job Site: Camo	Reporting *	Results Due:*	Asbestos Air	Asbestos Bulk	Asbestos Soils	Asbestos Dust	Asbestos Water	Lead/Silica	Custom/Other	Special Instruct.	Sample #*		E8-3(0-0.5)	EB-5 (0-0.5)	EB-8 (0-05)									Submitted By *	Date/Time Submitted	Submitted By	

accommodated without proper notification from you, and confirmation by ATEM stoff. All samples will be held for 3 months from the date of receipt at ATEM. Additional sample \*\* For any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. This includes dropping off samples for rush, same day analysis. Drop off and processing of samples after hours cannot be storage time may be obtained through ATEM Customer Service.



Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, California 94035 Tel: (408) 245-4600 Fax: (408) 245-4620

RE: Camden @ Malpas

Work Order No.: 2102202

Dear Kurt Soenen:

Torrent Laboratory, Inc. received 5 sample(s) on February 26, 2021 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Kathie Evans

Project Manager

March 04, 2021

Date



**Date:** 3/4/2021

Client: Cornerstone Earth Group
Project: Camden @ Malpas
Work Order: 2102202

### **CASE NARRATIVE**

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Total Page Count: 14 Page 2 of 14



2-Propanol (Isopropyl Alcohol)

### **Sample Result Summary**

Report prepared for: Kurt Soenen Date Received: 02/26/21

Cornerstone Earth Group Date Reported: 03/04/21

·					
SV-2-5					2102202-001
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3
Tetrachloroethylene	ETO15	1	1.5	3.4	7.9
SV-2-15					2102202-002
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	Results ug/m3
Trichloroethylene	ETO15	1	0.81	2.7	22
Tetrachloroethylene	ETO15	1	1.5	3.4	7.8
SV-1-15					2102202-003
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	Results ug/m3
Trichloroethylene	ETO15	1	0.81	2.7	4.6
Tetrachloroethylene	ETO15	1	1.5	3.4	9.7
SV-1-5					2102202-004
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	PQL	Results ug/m3
All compounds were non-detectable for this sample.					
SV-1-5 (IPA)					2102202-005
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	Results ug/m3

ETO15

160000

30000

2400 3100

Total Page Count: 14 Page 3 of 14



SDG:

### **SAMPLE RESULTS**

Report prepared for: Kurt Soenen Date/Time Received: 02/26/21, 3:10 pm

Cornerstone Earth Group Date Reported: 03/04/21

Client Sample ID: SV-2-5 Lab Sample ID: 2102202-001A

Project Name/Location: Camden @ Malpas Sample Matrix: Air

Project Number:

Date/Time Sampled: 02/26/21 / 12:08 Certified Clean WO #:

Canister/Tube ID: A7462 Received PSI: 12.0

Collection Volume (L): Corrected PSI:

Prep Method: TO15-P Prep Batch Date/Time: 3/1/21 12:45:00PM

Prep Batch ID:1129691Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	5:01	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:01	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:01	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:01	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:01	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		03/02/21	5:01	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.9	1.17		03/02/21	5:01	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	95 %			03/02/21	5:01	ВА	454646

Total Page Count: 14 Page 4 of 14



SDG:

### **SAMPLE RESULTS**

Report prepared for: Kurt Soenen Date/Time Received: 02/26/21, 3:10 pm

Cornerstone Earth Group Date Reported: 03/04/21

Client Sample ID: SV-2-15 Lab Sample ID: 2102202-002A

Project Name/Location: Camden @ Malpas Sample Matrix: Air

Project Number:

Date/Time Sampled: 02/26/21 / 12:08 Certified Clean WO #:

Canister/Tube ID: R3560 Received PSI: 12.1

Collection Volume (L): Corrected PSI:

Prep Method: TO15-P Prep Batch Date/Time: 3/1/21 12:45:00PM

Prep Batch ID:1129691Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND	<u>I</u>	03/02/21	5:27	ВА	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:27	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:27	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:27	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:27	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	22	4.10		03/02/21	5:27	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.8	1.15		03/02/21	5:27	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			03/02/21	5:27	BA	454646

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### **SAMPLE RESULTS**

Report prepared for: Kurt Soenen Date/Time Received: 02/26/21, 3:10 pm

Cornerstone Earth Group Date Reported: 03/04/21

Client Sample ID: SV-1-15 Lab Sample ID: 2102202-003A

**Project Name/Location:** Camden @ Malpas Sample Matrix: Air

**Project Number:** 

02/26/21 / 13:37 Certified Clean WO #: Date/Time Sampled:

Canister/Tube ID: 1439 Received PSI: 12.4

Collection Volume (L): Corrected PSI: SDG:

Prep Method: TO15-P Prep Batch Date/Time: 3/1/21 12:45:00PM

Prep Batch ID: 1129691 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND	<u>l</u>	03/02/21	6:18	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	6:18	ВА	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	6:18	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	6:18	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	6:18	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	4.6	0.86		03/02/21	6:18	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.7	1.43		03/02/21	6:18	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	98 %			03/02/21	6:18	BA	454646

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Report prepared for: Kurt Soenen Date/Time Received: 02/26/21, 3:10 pm

Cornerstone Earth Group Date Reported: 03/04/21

Client Sample ID: SV-1-5 Lab Sample ID: 2102202-004A

**Project Name/Location:** Camden @ Malpas Sample Matrix: Air

**Project Number:** 02/26/21 / 14:13 Certified Clean WO #: Date/Time Sampled:

Canister/Tube ID: 8300 Received PSI: 12.8

Collection Volume (L): Corrected PSI:

SDG:

Prep Method: TO15-P Prep Batch Date/Time: 3/1/21 12:45:00PM

Prep Batch ID: 1129691 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	5:52	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:52	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:52	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:52	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:52	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		03/02/21	5:52	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		03/02/21	5:52	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	97 %			03/02/21	5:52	BA	454646

Total Page Count: 14 Page 7 of 14



Report prepared for: Kurt Soenen Date/Time Received: 02/26/21, 3:10 pm

Cornerstone Earth Group Date Reported: 03/04/21

Client Sample ID: SV-1-5 (IPA) Lab Sample ID: 2102202-005A

Project Name/Location: Camden @ Malpas Sample Matrix: Air

Project Number:

Date/Time Sampled: 02/26/21 / 14:13 Certified Clean WO #:

Canister/Tube ID: R3561 Received PSI: 12.0

Collection Volume (L): Corrected PSI:

D 11 (1 TO 15 F

SDG:

Prep Method:TO15-PPrep Batch Date/Time:3/1/2112:45:00PM

Prep Batch ID:1129691Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	2,400	3100	30000	160000	65,040.65		03/01/21	23:31	BA	454646
(S) 4-Bromofluorobenzene	ETO15	2,400	65	135	90 %			03/01/21	23:31	ВА	454646

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Work Order: 2102202 Prep Method: TO15-P Prep Date: 03/01/21 Prep Batch: 1129691 Matrix: Air Analytical Method: ETO15 Analyzed Date: 3/1/2021 Analytical Batch: 454646 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Vinyl Chloride	0.088	0.50	ND	1
1,1-Dichloroethene	0.21	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Benzene	0.14	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Toluene	0.20	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Naphthalene	0.24	0.50	ND	
(S) 4-Bromofluorobenzene			92	

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### LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order: TO15-P 03/01/21 Prep Batch: 1129691 2102202 Prep Method: Prep Date: Matrix: Analytical Method: Analytical Batch: Air Analyzed Date: 3/1/2021 ETO15 454646 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50		8.00	117	119	1.70	65 - 135	30	
Benzene	0.14	0.50		8.00	94.9	94.6	0.396	65 - 135	30	
Trichloroethylene	0.15	0.50		8.00	104	99.9	4.17	65 - 135	30	
Toluene	0.20	0.50		8.00	100	100	0.125	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	94.8	99.7	5.01	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	96.3	96.8		50 - 150		

Total Page Count: 14



### **Laboratory Qualifiers and Definitions**

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC)** - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

**Units:** the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg/m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### LABORATORY QUALIFIERS:

- **B** Indicates when the analyte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- **E** Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- ND Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
- **NR** Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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### Sample Receipt Checklist

Client Name: Cornerstone Earth Group Date and Time Received: <u>2/26/2021</u> <u>3:10:00PM</u>

Project Name: Camden @ Malpas Received By: Katherene Evans

Work Order No.: 2102202 Physically Logged By: Katherene Evans

Checklist Completed By: Katherene Evans

Carrier Name: Client Drop Off

#### **Chain of Custody (COC) Information**

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? **Not Present** 

#### **Sample Receipt Information**

Custody seals intact on shipping container/cooler? Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? Yes

Samples containers intact? Yes

Sufficient sample volume for indicated test? <u>Yes</u>

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? Temperature: °C

No VOA vials submitted Water-VOA vials have zero headspace?

Water-pH acceptable upon receipt? N/A

pH Checked by: na pH Adjusted by: na

#### **Comments:**

Summas rec'd at ambient temperature

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### **Login Summary Report**

Client ID: TL5119 Cornerstone Earth Group QC Level: II

Project Name: Camden @ Malpas TAT Requested: 5+ day:5

Project #: 2/26/2021

Report Due Date: 3/5/2021 Time Received: 3:10 pm

Comments:

Work Order #: 2102202

WO Sample ID	<u>Client</u> Sample ID	Collection Date/Time	<u>Matrix</u>	Scheduled Sample Test Requested S Disposal On Hold On Hold Tests	Subbed
2102202-001A	SV-2-5	02/26/21 12:08	Air	VOC_A_PCE+T	
Sample Note:	PCE & Breakdowns plus IP	Α			
2102202-002A	SV-2-15	02/26/21 12:08	Air		
2102202-003A	SV-1-15	02/26/21 13:37	Air	VOC_A_PCE+T	
				VOC_A_PCE+T	
2102202-004A	SV-1-5	02/26/21 14:13	Air	VOC A POET	
2102202-005A	SV-1-5 (IPA)	02/26/21 14:13	Air	VOC_A_PCE+T	
2102202-003A	3V-1-3 (II A)	02/20/21 14.13	All	VOC_A_PCE+T	
Sample Note:	Shroud sample (IPA only)				

Total Page Count: 14 Page 13 of 14



<b>Torrent</b>
LABORATORY, INC.

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# **CHAIN OF CUSTODY**

LAB WORK ORDER NO

	AX: 408.263.8293 ww.torrentlab.com	• NOTE: SHA	DED A	REAS	ARE F	OR TO	RREN	TLAB	USEC	NLY •	<u> </u>	102200
Company Name: Cornerstone De	inth Group	□ 🛣 Env. 🔲	Special	Projec	t#:					PO #	#:	
Address: 1259 calmed Pkuy	,			Projec	t Name	: C	umde	en	<u>a_1</u>	Talpas		01
Address: 1259 oakmen Pkuy City: Sunnyrale	State: CA	Zip Code: 94085		Comments: cc. birinh@ cornerstancearth.com								hicom
	ell:			SAMP	LER:	Ross	T	المالمة	•	Quote	) #: 	
REPORT TO: Kurt Soepen B	ILLTO: Some			EMAIL	K.	soen	en@	Co	cneri	tone	earth.	Com
TURNAROUND TIME:	SAMPLE TYPE:	REPORT FORMAT:				7						
□ 10 Work Days □ 4 Work Days □ 1 Work Day □ 7 Work Days □ 3 Work Days □ Noon - Nxt Day ≤ 5 Work Days □ 2 Work Days □ 2 - 8 Hours	Indoor Air Ambient Air Soil/Gas Vapor Other	Level II - Std.  Excel - EDD  EDF StdEDD  QC Level III  QC Level IV	nitial Vac. ("Hg)	Final Vac. ("Hg)	Flow Controller #	Breakdown	SSIM	7	Janodase Secondary			ANALYSIS REQUESTED
LAB ID CLIENT'S DATE / TIME SAMPLE I.D. SAMPLED	MATRIX # OF CONT	CONT CANISTER I.D.	Initia	Final	Flow	TO 15	TO 1	TO 17	Siot 1500			REMARKS
DOSA 5V-2-5 12:02-12:08	SV 1	12 A7462	29.7	4.5	E69	X			X			
002A SV-2-15 12:34-12:4	sV	·   R3560	30	4.5	E59	$\boxtimes$			X		1	e p
0039 SV-1-15 2-26-21	sv	N1439	30	5.0	EII	X	,		X			
004A SV-1-5 2-26-21 2:07-2:13 2-26-21	5V	8300	30	<del> </del>	E108	X			X			* 1
MYN 5V-1-5(1PA) 2:08-2:13	Shroud Atm	V R3561	30	5.0	EIO				X			
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1 Relinquished By: Print:	Tinue 2/26/2	Time: 3:10	Receiv	red By;	un	Ų	Print:	مر	3		wa	Time:
2 Relinquished By: Print:	Date:	Time:	Receiv	ved By:	*	5	Print:	i s	<del>-</del> 1	Date:	a a	Time:
Were Samples Received in Good Condition?  NOTE: Samples are discarded by the laboratory 30		es on Ice? Yes NO			_		1018					] Yes   NO   DHA Zwbiant
	Labeled By:	uniess outer arrangements are Date:			4	$5w^{\prime\prime}$	Temp	ク	rec	rd C	Page	of temp Rev. 1

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Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, California 94035 Tel: (408) 245-4600 Fax: (408) 245-4620

RE: Camden @ Malpas

Work Order No.: 2105201

May 26, 2021

Date

Dear Ron Helm:

Torrent Laboratory, Inc. received 8 sample(s) on May 19, 2021 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Kathie Evans

**Project Manager** 

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Date: 5/26/2021

Client: Cornerstone Earth Group
Project: Camden @ Malpas
Work Order: 2105201

#### **CASE NARRATIVE**

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

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SVP-7

### **Sample Result Summary**

Report prepared for: Ron Helm Date Received: 05/19/21

Cornerstone Earth Group Date Reported: 05/26/21

2105201-001

SVP-/					21052	201-001
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Trichloroethylene	ETO15	1	0.81	2.7	4.2	
Tetrachloroethylene	ETO15	1	1.5	3.4	10	
SVP-6					21052	201-002
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Tetrachloroethylene	ETO15	1	1.5	3.4	9.9	
SVP-5					21052	201-003
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Tetrachloroethylene	ETO15	1	1.5	3.4	9.5	
SVP-4					21052	201-004
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Tetrachloroethylene	ETO15	1	1.5	3.4	11	
SVP-3					21052	201-005
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Tetrachloroethylene	ETO15	1	1.5	3.4	29	
SVP-2					21052	201-006
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
2-Propanol (Isopropyl Alcohol)	ETO15	1	1.3	12	91	
Tetrachloroethylene	ETO15	1	1.5	3.4	11	
SVP-2(IPA)					21052	201-007
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
2-Propanol (Isopropyl Alcohol)	ETO15	2400	3100	30000	110000	
SVP-1					21052	201-008
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results ug/m3	
Tetrachloroethylene	ETO15	1	1.5	3.4	7.0	

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Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Sample Matrix:

Certified Clean WO #:

2105201-001A Soil Vapor

Client Sample ID: SVP-7 Lab Sample ID:

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 14:31

Canister/Tube ID: A11710 Received PSI: 11.0

Collection Volume (L): Corrected PSI:

SDG:

Prep Method:TO15-PPrep Batch Date/Time:5/20/217:30:00PM

Prep Batch ID:1131884Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/21/21	17:53	BA	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	17:53	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	17:53	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	17:53	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	17:53	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	4.2	0.78		05/21/21	17:53	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	10	1.47		05/21/21	17:53	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/21/21	17:53	BA	456688

Total Page Count: 20 Page 4 of 20



Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

2105201-002A Soil Vapor

Client Sample ID: SVP-6

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 15:01

Canister/Tube ID: A7548 Received PSI: 11.4

Collection Volume (L): Corrected PSI:

SDG:

Prep Method:TO15-PPrep Batch Date/Time:5/20/217:30:00PM

Prep Batch ID:1131884Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/21/21	18:19	ВА	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	18:19	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:19	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	18:19	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:19	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/21/21	18:19	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.9	1.46		05/21/21	18:19	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/21/21	18:19	BA	456688

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Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

2105201-003A

Soil Vapor

Client Sample ID: SVP-5

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 15:39

Canister/Tube ID: R3555 Received PSI: 12.1

Collection Volume (L): Corrected PSI:

SDG:

Prep Method:TO15-PPrep Batch Date/Time:5/20/217:30:00PM

Prep Batch ID:1131884Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND	•	05/21/21	18:44	ВА	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	18:44	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:44	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	18:44	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:44	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/21/21	18:44	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.5	1.40		05/21/21	18:44	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	97 %			05/21/21	18:44	BA	456688

Total Page Count: 20 Page 6 of 20



Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Certified Clean WO #:

2105201-004A

Soil Vapor

Lab Sample ID:

Sample Matrix:

Client Sample ID: SVP-4

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 16:10

Canister/Tube ID: 6315 Received PSI: 11.3

Collection Volume (L): Corrected PSI:

SDG:

Prep Method: TO15-P Prep Batch Date/Time: 5/22/21 6:00:00AM

Prep Batch ID: 1131887 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/22/21	9:45	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	9:45	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	9:45	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	9:45	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	9:45	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	9:45	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	11	1.62		05/22/21	9:45	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/22/21	9:45	BA	456691

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Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

2105201-005A

Soil Vapor

11.1

Client Sample ID: SVP-3

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 16:46

Canister/Tube ID: R3557 Received PSI:

Collection Volume (L): Corrected PSI:

SDG:

Prep Method:TO15-PPrep Batch Date/Time:5/22/216:00:00AM

Prep Batch ID: 1131887 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/22/21	16:07	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:07	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:07	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:07	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:07	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:07	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	29	4.28		05/22/21	16:07	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	92 %			05/22/21	16:07	BA	456691

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Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

2105201-006A

Soil Vapor

Client Sample ID: SVP-2

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 17:24

Canister/Tube ID: N1439 Received PSI: 12.2

Collection Volume (L): Corrected PSI:

SDG:

Prep Method: TO15-P Prep Batch Date/Time: 5/22/21 6:00:00AM

Prep Batch ID: 1131887 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	91	36.99		05/22/21	16:32	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:32	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:32	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:32	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:32	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:32	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	11	1.62		05/22/21	16:32	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	95 %			05/22/21	16:32	BA	456691

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SDG:

#### **SAMPLE RESULTS**

Ron Helm Report prepared for: Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Client Sample ID: SVP-2(IPA) Lab Sample ID: 2105201-007A

**Project Name/Location:** Camden @ Malpas Sample Matrix: Soil Vapor 336-10-3

**Project Number:** 05/19/21 / 17:24 Certified Clean WO #: Date/Time Sampled:

Canister/Tube ID: A7561 Received PSI: 11.1

Collection Volume (L): Corrected PSI:

Prep Method: TO15-P Prep Batch Date/Time: 5/22/21 6:00:00AM

Prep Batch ID: 1131887 Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	2,400	3100	30000	110000	44,715.45		05/22/21	11:24	BA	456691
(S) 4-Bromofluorobenzene	ETO15	2,400	65	135	95 %			05/22/21	11:24	BA	456691

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Report prepared for: Ron Helm Date/Time Received: 05/19/21, 7:00 pm

Cornerstone Earth Group Date Reported: 05/26/21

Lab Sample ID:

Sample Matrix:

Certified Clean WO #:

2105201-008A

Soil Vapor

Client Sample ID: SVP-1

Project Name/Location: Camden @ Malpas

Project Number: 336-10-3

**Date/Time Sampled:** 05/19/21 / 18:11

Canister/Tube ID: A11718 Received PSI: 11.7

Collection Volume (L): Corrected PSI:

SDG:

Prep Method: TO15-P Prep Batch Date/Time: 5/22/21 6:00:00AM

Prep Batch ID:1131887Prep Analyst:BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	Ву	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND	<u>I</u>	05/22/21	16:57	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:57	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:57	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:57	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:57	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:57	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.0	1.03		05/22/21	16:57	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	93 %			05/22/21	16:57	BA	456691

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Work Order: 2105201 Prep Method: TO15-P Prep Date: 05/20/21 Prep Batch: 1131884 Matrix: Air Analytical Method: ETO15 Analyzed Date: 5/20/2021 Analytical Batch: 456688 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND	•	
1,1-Difluoroethane	0.13	5.0	ND		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	ND		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	ND		
Ethyl Acetate	0.13	0.50	0.28		
Tetrahydrofuran	0.15	0.50	ND		
Benzene	0.14	0.50	0.24		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		

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Work Order: 2105201 Prep Method: TO15-P Prep Date: 05/20/21 Prep Batch: 1131884 Matrix: Air Analytical Method: ETO15 Analyzed Date: 5/20/2021 Analytical Batch: 456688 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			100	

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Work Order: 2105201 Prep Method: TO15-P Prep Date: 05/22/21 Prep Batch: 1131887 Matrix: Air Analytical Method: ETO15 Analyzed Date: 5/22/2021 Analytical Batch: 456691 Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND		
1,1-Difluoroethane	0.13	5.0	0.52		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	0.23		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	0.13		
Ethyl Acetate	0.13	0.50	0.24		
Tetrahydrofuran	0.15	0.50	0.15		
Benzene	0.14	0.50	0.19		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		

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Work Order: 2105201 Prep Method: TO15-P Prep Date: 05/22/21 Prep Batch: 1131887 Matrix: Air Analytical Method: ETO15 Analyzed Date: 5/22/2021 Analytical Batch: 456691 Units: ppbv

			1	
Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	1
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			95	

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### **LCS/LCSD Summary Report**

Raw values are used in quality control assessment.

Work Order: TO15-P 05/20/21 1131884 2105201 Prep Method: Prep Date: Prep Batch: Matrix: Analytical Method: Analytical Air Analyzed Date: 5/20/2021 ETO15 456688 Batch: Units: ppbv

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	130	123	5.53	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	99.1	94.5	4.78	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	100	99.5	0.751	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	103	100	2.09	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	103	99.3	3.46	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	104	103		50 - 150		

Work Order: Prep Method: TO15-P Prep Date: Prep Batch: 1131887 2105201 05/22/21 Matrix: Air Analytical **ETO15 Analyzed Date:** 5/22/2021 Analytical 456691 Method: Batch: Units: ppbv

Parameters	MDL PQL Method Spike Conc. Conc.		LCS % Recovery			% Recovery Limits	% RPD Limits	Lab Qualifier		
1,1-Dichloroethene	0.21	0.50	ND	8.00	126	124	1.90	65 - 135	30	
Benzene	0.14	0.50	0.52	8.00	95.3	95.7	0.392	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	104	106	1.55	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	99.3	98.6	0.632	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	103	103	0.485	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	99.3	99.3		50 - 150		

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### **Laboratory Qualifiers and Definitions**

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC)** - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

**Units:** the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg/m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### **LABORATORY QUALIFIERS:**

- **B** Indicates when the analyte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- **E** Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- ND Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
- **NR** Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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### Sample Receipt Checklist

Client Name: Cornerstone Earth Group Date and Time Received: 5/19/2021 7:00:00PM

Project Name: Camden @ Malpas Received By: Helena Ueng

Work Order No.: 2105201 Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

#### Chain of Custody (COC) Information

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

#### **Sample Receipt Information**

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition?

Yes

Samples in proper container/bottle?

Yes

Samples containers intact?

Yes

Sufficient sample volume for indicated test? Yes

#### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? Temperature: °C

Water-VOA vials have zero headspace? <u>No VOA vials submitted</u>

Water-pH acceptable upon receipt? <u>N/A</u>

pH Checked by: N/A pH Adjusted by: N/A

#### **Comments:**

Summa canisters received at ambient temperature

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### **Login Summary Report**

Client ID: TL5119 Cornerstone Earth Group QC Level: II

 Project Name:
 Camden @ Malpas
 TAT Requested:
 5+ day:5

 Project #:
 336-10-3
 Date Received:
 5/19/2021

 Report Due Date:
 5/26/2021
 Time Received:
 7:00 pm

Comments: Per Ross, project manager is Ron Helms instead of Kurt S

Work Order #: 2105201

WO Sample ID	<u>Client</u> Sample ID	Collection Date/Time	<u>Matrix</u>	Scheduled Disposal	Sample On Hold	<u>Test</u> On Hold	Requested Tests	Subbed
2105201-001A	SVP-7	05/19/21 14:31	Air				VOC_A_PCE+T	
Sample Note:	PCE & Breakdowns plus IF	'A (leak check)						
2105201-002A	SVP-6	05/19/21 15:01	Air					
2105201-003A	SVP-5	05/19/21 15:39	Air				VOC_A_PCE+T	
							VOC_A_PCE+T	
2105201-004A	SVP-4	05/19/21 16:10	Air				1/00 A DOE: T	
2105201-005A	SVP-3	05/19/21 16:46	Air				VOC_A_PCE+T	
							VOC_A_PCE+T	
2105201-006A	SVP-2	05/19/21 17:24	Air				VOC A DCE+T	
2105201-007A	SVP-2(IPA)	05/19/21 17:24	Air				VOC_A_PCE+T	
							VOC_A_PCE+T	
Sample Note:	-007A: Shroud sample (IPA	only)						
2105201-008A	SVP-1	05/19/21 18:11	Air					
							VOC_A_PCE+T	

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483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

## **CHAIN OF CUSTODY**

2/052-D/

I A D O D A T O D V I I I O	TORY, INC. FAX: 408.263.8293 www.torrentlab.com • NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY• 2/0520/												
On the second of	orth Group.		Env.	Special	Projec	t#:	_				PO	#:	
Address: 1259 Oaknead P	kwu '	-			Projec	t Name	Car	nden	1 @	Ma	Spas		
City: Sunnyvale	State: CA	Zip Code	9 4085	ć	Comm								wth.com
Telephone: 408 245 4600	ell:				SAMP	LER:	Ross	s J	nliv	u	Quote	#:	10
REPORT TO: Kurt Soenen	11000:cc. btri	nhec	ornerston	eeoi	MAIL		13	Ks	ene	2000	orne	rstore	earth.com
TURNAROUND TIME:	SAMPLE TYPE:	100.00	PORT FORMAT:				Proc			220			1
10 Work Days 4 Work Days 1 Work Day	Indoor Air		Level II - Std. Excel - EDD	<u>a</u>	G.	# 1	1			1			ANALYSIS
7 Work Days 3 Work Days Noon - Nxt Da	y Ambient Air Soil/Gas Vapor		EDF StdEDD		("H	rolle	100 S	_		3 8	J.		REQUESTED
5 Work Days 2 Work Days 2 - 8 Hours	Other	-	QC Level III QC Level IV	Vac.	Vac.	Controller	53	SSIM	_	ا ک			1
LAB ID CLIENT'S DATE / TIME SAMPLED	MATRIX # OF CONT	CONT	CANISTER I.D.	Initial	Final Vac. ("Hg)	Flow	TO 15 PC Breaks	TO 15	TO 17	1015			REMARKS
00/A SVP-7 5/19/2/ 2:25-2:3/	sv 1	14.	411710	29	5	Ells	X						
5/19/2/ 2:55-3:01	1 1	Summ	A7548	29	4	E60	X					l l	
013 A SVP-5 3:33-3:39			R3555	29	4.5	E4	X	-					
004A SVP-4 5/19/21	1		6315	30	5	£97	X						
519/21 5VP-3 4:40-4:46			R3557	30	45	Eld	X						
WOR 5VP-2 5/19/21 5/18-5:24	1		N1439	30	4	E9)	X					Ш	
ON SUP-2(IPA) 5/19/2/ 5:18-512	Shoud 1 Atm		A7561	30	6	E4,	2			X		12	
W8A SVP-1 5/19/21 6:01-6:11	SV 1	V	A11718	30	5	EZ	×Χ				ļ		
L. Company													
							i I						
1 Relinquished By: 7 Print: Ross T	whe 5/19/21	Tim	1e: 700	Receiv	ed By:	1	He	Print:	llec	1	Date:	9/21	Time: 1900
2 Relinquished By: Print:	Date:	Tim	ne:	Receiv	red By:			Print:			Date:		Time:
. /~			Yes D		d of Ship	ment _	2	5		S	ample sea	ls intact?	Yes NO PN/A
NOTE: Samples are discarded by the laboratory 30							-	omn		°C		Done	of Pay 1

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