Preliminary Environmental Assessment Los Altos High School Expansion, Los Altos

Prepared for:

Mountain View - Los Altos Union High School District Mountain View, California

August 14, 2020

Prepared by: McCloskey Consultants, Inc.



PRELIMINARY ENVIRONMENTAL ASSESSMENT

LOS ALTOS HIGH SCHOOL EXPANSION

201 Almond Avenue

Los Altos, California

August 14, 2020

Prepared for:

MOUNTAIN VIEW-LOS ALTOS

UNION HIGH SCHOOL DISTRICT

Prepared by:

McCloskey Consultants, Inc.

420 Sycamore Valley Road West

Danville, CA 94526

Christopher M. Vertin Senior Staff Engineer

Than & Marky

Thomas F. McCloskey, P.G., C.E.G., C.Hg. President and Principal Geologist

EXECUTIVE SUMMARY

On behalf of the Mountain View Los Altos Union High School District (MVLAUHSD), McCloskey Consultants, Inc. (MCI) has prepared this Preliminary Environmental Assessment (PEA) Report for the proposed renovation/redevelopment in the northeastern portion of the existing Los Altos High School (LAHS) located at 201 Almond Avenue, in Los Altos, Santa Clara County, California (the "Site") (Figure 1). Los Altos is located in the northern portion of Santa Clara County, southwest of the southern San Francisco Bay.

MCI understands that current redevelopment plans include: (1) demolition of one permanent classroom building (600 Block), four portable structures, an existing small gym and associated exterior area, and (2) construction of a new classroom building and auxiliary gym in place of the existing buildings. The expansion will include the addition of 15 classrooms, with an expected increase in student population of up to approximately 410 students.

This PEA is an initial investigation that provides the information necessary to evaluate if conditions exist at the Site that could pose a risk to human health or the environment. Under Senate Bill 475 (1989), the preparation of a PEA is a formal step in the site review process of the Department of Toxic Substances Control (DTSC). This report is to be reviewed by the DTSC to determine the need for further action at the Site.

The scope of work described herein was presented to the DTSC in the document entitled *"Preliminary Assessment Workplan, Los Altos High School Expansion"* (Workplan), dated May 15, 2020 (McCloskey, 2020), and was developed to address DTSC Schools Program site sampling guidance documents. The Workplan was reviewed and approved by the DTSC on May 26, 2020 prior to implementation of the sampling program.

Summary of Previous Assessment, Soil Sampling and Removal

A Phase I Environmental Site Assessment (ESA) was initially performed across the entire school to identify on and off-site potential environmental concerns that could impact the redevelopment area (McCloskey, 2018a). This was followed by a Phase II ESA (McCloskey, 2018b) to evaluate potential environmental concerns. The Phase I and Phase II ESAs were conducted using ASTM and DTSC documents as guidance. Both these evaluations were conducted by MCI prior to engaging the DTSC in an environmental oversight agreement (October 10, 2019). Demolition of the buildings in the expansion area was completed by October 25, 2019. The removed buildings included the 600-Block classroom building, the small gym, the portable classrooms P-11-P-12 and the portable classrooms P-13-P-16. The demolition included removal

of all the concrete and asphalt in the expansion area and the oil stained concrete and asphalt in the hazardous waste storage area on the northern side of the 600-Block classroom building.

The Site was cultivated with orchards from at least the late-1930s through the mid-1950s. Pesticides and herbicides were commonly applied to row crops and orchards and the presence of residual concentrations of OCPs and arsenic were therefore potential environmental concerns. To address this concern, shallow soil samples were collected at four locations across the expansion area. Two of the samples had detectible concentrations of OCPs but none of the concentrations detected exceed their respective DTSC or USEPA thresholds for school uses. Arsenic was detected in all of the soil samples analyzed. None of the concentrations detected in the soil samples exceeded the regional maximum naturally-occurring background concentration.

Exposed soils and previously exposed soils around the building perimeters were sampled in the Phase II ESA, and identified lead and organochlorine pesticides (OCP) impacted soils around one of the former structures (small gym). Prior to redevelopment of the Site, the impacted soils that exceeded DTSC and/or USEPA regulatory thresholds for school (residential) uses were removed from the Site and disposed at an appropriately-licensed landfill. Confirmation sampling was performed on the excavations to verify all the impact soil was removed prior to mass grading activities.

Bedrock and sediments that could contain naturally-occurring asbestos (NOA) are less than 10 miles from the Site and the soils were tested at nine locations for the presence of naturally-occurring asbestos (NOA) in accordance with DTSC Schools Program guidelines. Eight of the nine samples exceeded the DTSC School Unit screening criteria of 0.01%.

PEA Sampling and Results Summary

Under a DTSC approved PEA Workplan (McCloskey, 2020), additional soil sampling was performed at the Site to evaluate the potential presence of chemicals that could affect the proposed school development. Soil samples were collected from the following areas on the Site: additional building perimeters, areas where residues may have migrated in stormwater runoff to exposed soils, and additional samples to evaluate historical agricultural residues. A total of 19 soil samples (including two duplicate samples) were collected at depth intervals ranging from 0-1/2 feet bgs to 11/2 to 2 feet below ground surface (bgs), depending on the sample location, the presence of absence of asphalt, and the target analytes. Analyses included lead, OCPs and arsenic, and polychlorinated biphenyls (PCBs).

Detected concentrations were compared to DTSC modified Screening Levels (DTSC-SLs) presented in the DTSCs Office of Human and Ecological Risk ("HERO") guidance document Human Health Risk Assessment (HHRA) Note 3 dated April 2019 (HERO, 2019), Regional Screening Levels (RSLs) established by the USEPA Region 9 (USEPA, May 2020) and a Site-specific background concentration for arsenic.

The following summarizes the results of the PEA additional sampling:

- Lead was detected exceeding the DTSC-SLs concentration of 80 mg/Kg at only one location;
- OCPs were detected in seven soil samples but none of the concentrations exceeded their respective the DTSC-SLs or USEPA RSLs;
- Arsenic was detected in soil samples at concentrations up to 11.5 mg/Kg, but plotted using DTSC-recommended statistical methods (normal, gamma and lognormal Q-Q scatter plots, USEPA ProUCL software) indicate that this maximum detected concentration to be naturally occurring; and,
- PCBs were not detected exceeding the laboratory reporting limit in any of the soil samples analyzed.

Conclusions and Recommendations

The results of the Phase II ESA, remedial activities and PEA investigation indicate that the remedial activities performed before DTSC involvement at the Site removed contaminants exceeding regulatory threshold concentrations for school uses everywhere except at one location. This sample was collected at the eastern edge of the Site in a narrow strip of exposed soil between an asphalt roadway and the property fence. The origin of the lead is unclear but additional sampling is recommended along this strip of soil to determine the lateral and the vertical extent of contamination exceeding DTSC guidelines. This work would be done via a Supplemental Site Investigation in accordance with guidelines.

Naturally-occurring asbestos is also present across the Site and dust mitigation during earthdisturbing activities is recommended as well as capping of exposed soils to reduce the potential for future exposure to asbestos fibers. The project has been performing perimeter monitoring (upwind and downwind) during mass grading, foundation excavation, and other earth-disturbing activities. Capping of any exposed soils will be completed after building construction and a longterm Operations and Maintenance Agreement and an Operations and Maintenance Plan negotiated with the DTSC.

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1.0 INTRODUCTION

On behalf of the Mountain View–Los Altos Union High School District (MVLAUHSD), McCloskey Consultants, Inc. (MCI) has prepared this Preliminary Environmental Assessment (PEA) Report for the proposed renovation/redevelopment in the northeastern portion of the existing Los Altos High School (LAHS) located at 201 Almond Avenue, in Los Altos, Santa Clara County, California (the "Site") (Figure 1). Los Altos is in the northern portion of Santa Clara County, southwest of the southern San Francisco Bay. Under Senate Bill 475 (1989), the preparation of a PEA is a formal step in the site evaluation process of the School Site Mitigation Unit

A Scoping Meeting was performed on February 6, 2020. Participants included José Salcedo (Department of Toxic Substances Control [DTSC], Schools Program Unit Chief), Letitia Shen (DTSC, Schools Program Project Manager), Vivek Mathrani (DTSC Toxicologist), Mike Mathiesen (Associate Superintendent, Business Services), Omid Azizi (RGM Kramer), Patrick Maravelias (RGM Kramer), Tom McCloskey (McCloskey Consultants) and Chris Vertin (McCloskey Consultants).

The Site conditions and history were reviewed based on a previous Phase I Environmental Site Assessment (McCloskey, 2018a). The *"Preliminary Assessment Workplan, Los Altos High School Expansion"* (Workplan), dated May 15, 2020, and then prepared for DTSC review and comment. The Workplan was reviewed and approved by the DTSC on May 26, 2020 prior to implementation of the sampling program, and the approval letter is included in Appendix A.

1.1 Project Description

MCI understands that current redevelopment plans include: (1) demolition of one permanent classroom building (600 Block), four portable structures, an existing small gym and associated exterior area; and (2) construction of a new classroom building and auxiliary gym in place of the existing buildings. The expansion will include the addition of 15 classrooms, with an expected increase in student population of up to approximately 410 students.

1.2 Purpose

Under Senate Bill 475 (1989), the preparation of a PEA is a formal step in the review process of the DTSC Schools Unit. This report is to be reviewed by the DTSC to determine the need for further action at the Site.

The purpose of sampling during a PEA investigation is to identify if chemicals or naturallyoccurring compounds are present at the Site that could represent health or hazard risks for the planned future school use. The data obtained are used to evaluate the degree of risk presented by the compounds identified, and ultimately to evaluate appropriate response actions at the Site to render it suitable for school uses. PEA sampling is a one-time event. However, in the event contamination exceeding screening levels is identified, a Supplemental Site Investigation (SSI) may be required to fully characterize the Site and design final mitigation actions.

Specific objectives of this PEA include:

- Determining if hazardous substances (including naturally-occurring substances) are present at the Site;
- Estimating the potential threat to human health and/or the environment posed by the Site conditions;
- Determining if an expedited response action is needed to reduce existing threats to human health or the environment;
- Completing preliminary project scoping activities to determine data gaps and identify possible remedial actions strategies; and,
- Assessing and providing for the informational needs of the community.

This PEA was prepared in general accordance with the following documents:

- *Preliminary Endangerment Assessment Guidance Manual,* latest revision October 2015;
- Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, latest update September 12, 2006;
- Interim Guidance for Sampling Agricultural Properties (Third Revision), latest update August 7, 2008;
- Interim Guidance Naturally-Occurring Asbestos (NOA) at School Sites, latest revision September 24, 2004; and,
- Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals (January 16, 2009).

1.3 Organization of Report

This PEA report is organized, as follows:

- **Section 2.0** Presents a Site description and identifies the physical setting of the Site vicinity, the current Site and vicinity land use, and the contact information for the Site;
- Section 3.0 Summarizes the Site operational history, hazardous waste management information, background research performed to evaluate Site conditions, previous Phase II sampling and previous remediation activities;

- **Section 4.0** Discusses the potential chemicals of environmental concern (COCs) identified in the PEA Workplan;
- **Section 5.0** Discusses the environmental setting, including physical aspects of the Site and vicinity affecting chemical transport pathways in soil, water, and air;
- Sections 6.0 and 7.0 Present the PEA sampling results and laboratory Quality Assurance/Quality Control (QA/QC) methods employed in this evaluation, respectively; and,
- Sections 8.0 and 9.0 Presents human health and ecological screening evaluations, respectively, based on the results of the sampling;
- Section 10.0 Discusses activities performed for public awareness;
- Section 11.0 Presents conclusions and recommendations of the investigation; and,
- Sections 12.0 and 13.0 Present report limitations and references utilized in preparation of this report.

2.0 SITE DESCRIPTION

The Site information provided herein is based on the results of the Phase I Environmental Site Assessment (ESA) (McCloskey, 2018a) and Phase II ESA (McCloskey, 2018b) conducted by MCI in 2018, and a Site visit conducted as part of the PEA Workplan preparation.

2.1 Site Identification and Vicinity

The Site is an irregularly-shaped area within the larger Los Altos High School (LAHS) parcel designated by the San Clara County Assessor's Office (SCCAO) as assessor's parcel number (APN) 170-60-001 (Figure 2). The Site is approximately 1¼-acre (54,450-square-feet) area along the eastern perimeter of LAHS. The school is located in a residential area of Los Altos. The Site has an EPA ID number and DTSC EnviroStor database identification number of 60002914, and the DTSC database Site Code 204320.

The Site is bordered to the north by soccer and softball fields, to the west by a dance room, wrestling room, large gym, boys and girls locker rooms, to the south by the 400 Block of classrooms and a school driveway followed by single-family homes to the east. The entire school, including the Site, is bordered by Jardin Drive and single-family homes to the north and Almond Avenue and single-family homes to the south. The Site is bordered by single-family homes to the east and west.

The Site boundary shown on Figure 2, and the area includes:

- One permanent classroom building (600 Block) (constructed by 1956) Demolished;
- A small gym (constructed by 1961) Demolished;

- Portable classrooms (installed before 1982 and 1998) Removed or demolished;
- One custodial storage building (constructed by 1974);
- Unpaved landscaped areas with exposed soil near baseball field and between 600 Block and 500 Block permanent classroom buildings Removed;
- Northern trench (in playfields and asphalt)- Fire line installed;
- East Trench (below paved concrete driveway) Electrical trench installed;
- Asphalt- and concrete-paved play areas Removed; and,
- Parking areas and a driveway.

2.2 Current Site Use

The Site has been used as a high school since construction of the school in 1951.

2.3 Current Vicinity Land Use

The Site is in a residential area of Los Altos. The school is bordered in all directions by singlefamily residential neighborhoods. Jardin Drive borders the LAHS to the north and Almond Avenue borders to the south.

2.4 Site Contact

The contact information for the Site representative is:

Mr. Mike Mathiesen Associate Superintendent of Business Services 1299 Bryant Avenue Mountain View, California 94040 (650) 940-4666 (office) (650) 940-4650 (main office) Email: mike.mathiesen@mvla.net

3.0 SITE BACKGROUND

3.1 Operational History and Status

3.1.1 Historical and Current Site Land Use

The Site was cultivated with orchards from at least the late-1930s through the early-1950s. The permanent classroom building (600 Block) had been constructed by 1956 and the gym by 1961. The custodial storage building appears to have been constructed by 1974. Portable structures

were installed on the Site between the early-1980s and late 1990s. The remainder of the Site appeared paved with asphalt, with the area adjoining the auto shop classroom/permanent classroom block utilized for storage/parking of vehicles and other items.

3.1.2 Property Ownership

Original ownership of the property (including the Site) was provided in the Phase I ESA (McCloskey, 2018a). Previous property owners included Newhall and Wise (1894), Perry and Georgia Krisher (1929) and J. Rollin and Marion S. Slonaker (unknown – 1951). The Site use by prior owners was unknown. The school property (including the Site) has been continuously owned by the Mountain View-Los Altos Union High School District since construction of the school in 1951.

3.1.3 Prior Surrounding Land Use

Based on historical aerial photographs and topographic maps, the surrounding land use historically was mostly orchards until the early 1950s. Residential development in the surrounding area increased as well as the construction of the high school by 1956. By 1968 the entire surrounding area was built out with residential structures.

3.1.4 Zoning

According to the City of Los Altos zoning map, the Site is zoned as a public and community facility (PCF) and the Site vicinity is zoned residential.

3.1.5 Water Supply and Use

Municipal potable water for LAHS is provided by California Water Service Company.

3.2 Hazardous Substance/Waste Management Information

3.2.1 Site Activities

A reconnaissance of the Site was conducted by Ms. Belinda Blackie of MCI on July 11, 2018 during the Phase I ESA. Ms. Blackie was accompanied at the time of her reconnaissance by LAHS representative Mr. Mike Woodworth. No significant Site access limitations were encountered. At the time of the reconnaissance, the Site was developed with the school's existing small gym, four portable structures, the custodial building and one bank of permanent classrooms, as well as associated exterior areas.

The small gym was located on the northwestern corner of the expansion area and housed a wood-floored basketball court. According to Mr. Woodworth, a natural gas heating unit for the gym was located on the building roof. Interior finishes included painted gypsum board walls and a spray-on acoustic ceiling finish.

To the east and southeast of the gym were four portable buildings housing seven classrooms, of which several were accessed. Classroom interiors included student and teacher desks, storage cabinets, white boards, and other typical classroom furnishings. Interior finishes included vinyl floor tile, painted gypsum board walls and acoustic ceiling tile.

The 600 Block of permanent classrooms was located south of the portables, on the southern portion of the expansion area. Four classrooms were present in the block, including a cooking lab, computer lab, robotics room and auto shop.

The cooking lab (Room 604) included a commercial kitchen with commercial grade BBQs, refrigerator/freezers and sinks. Two propane cylinders for the BBQs were stored on the floor. Several 1-quart to 1-gallon containers of assorted janitorial cleaners were stored beneath a sink. Floor drains were observed in the cooking lab. Immediately outside the cooking lab, with two steel covers visible in the asphalt surface, was a grease trap.

The computer lab (Room 603) was set up as a general classroom, with similar furnishings to those in the portable classrooms.

The robotics lab (Room 602) included work spaces and several pieces of equipment related to robotics assembly. A laser printer and fume extraction unit, as well as other smaller pieces of equipment, were observed within the lab. A plastic storage bin housing assorted metal pieces was staged adjoining the exterior of the classroom.

The auto shop (Room 601) was occupied by an expansion of the robotics lab as well as the auto shop and had two roll-up doors along the northern wall. One above-grade vehicle hoist and three cars were present in the shop, as were several pieces of metal machining equipment and sinks. Two flammable materials storage cabinets within the shop housed two 5-gallon containers of oil and several 1-quart to 1-gallon containers of assorted oil and typical automotive repair-related materials, along with several cans of spray paint. No evidence of significant spills or releases from the stored hazardous materials was observed.

Adjoining the northeastern exterior corner of the auto shop was a concrete pad upon which was a wooden compressor shed and what appeared to be the previous location of a plastic waste oil storage shed. Oil staining of the slab was observed, as was some oil staining of the asphalt adjoining the concrete pad. The former waste oil storage shed was staged on the asphalt adjoining the pad. The shed had integral secondary containment; the secondary containment area had an accumulation of what appeared to be oil.

Interior finishes within the permanent classroom building were similar to those in the portable classrooms, with the exception of sheet vinyl flooring within the cooking lab and a sealed concrete floor within the auto shop.

The primary custodial building (Building 7) was located to the west of the 500 Block of permanent classrooms. Shelving units and cabinets housing numerous 1-gallon bottles of assorted janitorial supplies and cans of paint were located within the building.

Exterior portions of the expansion area included asphalt- and concrete-paved areas, including a basketball court, as well as landscaping and multiple small wooden storage structures utilized by local sports teams and scout packs. The sheds were locked and inaccessible. One propane forklift was parked by the permanent classroom building. Several propane cylinders were stored in the same area.

During the Phase I ESA, a questionnaire was completed by Mr. Mike Mathiesen of the Mountain View-Los Altos Union High School District. Mr. Mathiesen was not aware of any indications of contamination on the Site, and reported no knowledge of environmental cleanup liens, activity and land use limitations, or pending, threatened or past litigation or administrative proceedings related to hazardous substances or petroleum products at the Site. He also reported no receipt of notices from governmental entities regarding possible violation of environmental laws or liability related to the same.

Based on the dates of construction for many of the structures (construction dates pre-dating 1978 for lead based paint (LBP) and the late-1980s for asbestos-containing material (ACM), building materials and coatings may include ACM and LBP. AHERA asbestos surveys were completed at the Site in 2017 prior to the proposed redevelopment. ACM was not identified in the Site structures at the time of the 2017 AHERA asbestos survey.

3.2.2 Regulatory Database Research

During the Phase I ESA, an *Environmental Data Resources (EDR) Radius Map™ Report with GeoCheck®* (EDR Radius Report) was obtained and reviewed to help establish if hazardous materials incidents, radon gas, and/or oil and gas wells have been reported on the Site or in the immediate area of the Site. The following sections outline the results of the research.

3.2.2.1 Site Regulatory Status

The EDR Radius Report was reviewed to help establish if hazardous materials incidents, radon gas, or oil and gas wells have been reported on the Site or in the immediate Site vicinity. LAHS was included in the regulatory agency database report on the Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG), Facility Index System (FINDS), Enforcement and Compliance History Information (ECHO), Certified Unified Program Agency (CUPA) Listings, California Environmental Reporting System (CERS), CERS HAZ WASTE, and HAZNET databases. The SQG listing was from 1986; the type of waste generated was not included in the listing. No RCRA generator violations were documented.

The CUPA listing documented LAHS as a facility with a hazardous materials business plan (HMBP) with 7 to 9 chemicals and as a generator of 100 kg to less than 5 tons of hazardous waste per year.

The CERS listings similarly documented LAHS as a chemical storage facility. A 2016 violation and return to compliance was noted for a drum possibly containing oil stored along a fence behind the auto shop. Additional violations/return to compliance were documented for insufficient hazardous waste storage inspections, failing to prevent oil accumulation in containment under drums, failure to properly handle/manage/label/recycle used oil and fuel filters, and various recordkeeping violations. Other reported violations did not relate to the Site portion of LAHS.

The HAZNET listings were for disposal of wastes including empty containers (1996), organic solids (2001), laboratory waste chemicals, photochemicals/photoprocessing waste, organic liquid mixtures, asbestos-containing waste, and waste/aged inorganics, among others (1994 to 2016).

No significant information was included in the ECHO or FINDS database listings.

Many of the LAHS database listings were associated with the auto shop portion of the Site. None of the listings indicate a significant environmental concern.

On July 7, 2018, MCI received hazardous materials files available from the Santa Clara County Environmental Health Department (SCCEHD) via email. Copies of available documents from the SCCEHD are included in Appendix D of the Phase I ESA.

Documents included 1987 and 1993 hazardous materials and waste inventories, 2010 HMBP and a 2017 California Environmental Reporting System (CERS) submittal indicating LAHS was a hazardous materials user/hazardous waste generator but had no USTs. The 1987 inventory documented storage of a 55-gallon drum of waste oil outside the auto shop without secondary containment, along with interior storage of one 55-gallon drum oil, 5 gallons ethanol and small containers in a flammable storage cabinet. The 1993 inventory documented generation of 50 gallons waste oil; additional wastes documented appeared related to off-Site potions of LAHS. Hazardous materials documented in the auto shop in the 2010 HMBP included 20 cubic feet acetylene, 45 cubic feet oxygen, 5 gallons cleaning solvent, and 55 gallons each of waste oil, waste antifreeze and used oil filters. Materials reportedly were stored within the building. The 2017 document indicated storage of 55 gallons coolant, 63 gallons liquefied petroleum gas, 281 cubic feet oxygen and 55 gallons used oil. Hazardous materials were not reported as being stored in the other on-Site facilities.

A hazardous materials permit obtained from the SCCEHD for LAHS was dated 2006 and a hazardous waste generator permit (for generation of less than 5 tons/year) was dated 1993.

Inspections were reported in 1987, 1993, 2000, 2009, 2013, and 2016. The 2016 inspection noted one 15-gallon drum labeled as oil but possibly containing other waste located along the fence adjoining the bike storage area behind the auto shop classroom. Oil accumulation in containment under the drums also was documented, with no specifics on the location provided. The 2013 inspection noted the presence of used oil and coolant and oxygen and acetylene gas, likely present within the auto shop. Minor violations in the other inspections included deficiencies in labeling, record keeping and training, lack of regular inspections, pooling of oil on top of waste coolant drum, disposal of oil-containing waste in trash dumpster, and open containers.

The SCCEHD also provided documentation related to closure of a 5,000-gallon heating oil Underground Storage Tank (UST) from an unspecified location on the LAHS campus in 1996. The single-walled tank reportedly was empty at the time of removal. Indications of impacted soil were not reported at the time of the removal, however one verification soil sample collected from the bottom of the tank pit demonstrated unspecified fuel oil contamination. Impacted soil was reported to have been removed from the "hot spot" to a depth of approximately 13 feet and another verification sample collected; no analytical data from the sample was available. No further information regarding UST closure activities was available in the SCCEHD file. The specific location of the UST was unable to be documented, but a map associated with the removal was located in some historical documentation and indicated that the tank was previously located on the southwestern portion of the school near the football field and not within the Site boundaries as shown on Figures 2 and 4.

Santa Clara County Fire Department (SCCFD) files were reviewed at the SCCFD office on July 13, 2018. Information included inspection reports dated 2015 and 2016. Minor violations noted were related to the auto shop only and included needing hazardous materials placarding on the shop door and minor hazardous materials storage violations.

In addition to requesting files available at the local regulatory agencies, the on-line State Water Quality Control Board (SWQCB) Geotracker database and the California Department of Toxic Substances Control (DTSC) Envirostor database were reviewed on July 2, 2018. The Site was not included on either database for either agency.

3.2.2.2 Vicinity Land Use and Hazardous Materials

Listings for off-Site facilities in the EDR report, including those identified as "orphan" facilities unable to be plotted due to incorrect or insufficient address information, were reviewed for their potential to impact the Site. Two of the listed off-Site "orphan" facilities were located approximately 2/5 mile southwest and hydraulically cross-gradient from the Site.

The Hillview-Eleanor Area Plume and Los Altos Well Field listings appear likely associated with the same concern, located in the vicinity of Hillview Avenue, Eleanor Avenue, and San Antonio Road. The listings were included in the EDR report on the SEMS-Archive database. Although significant information on the listings was not included in the database report, the Hillview-Eleanor Area Plume was included on the DTSC EnviroStor website, as discussed below. Based on the available information, the listings are unlikely to be of significant concern.

The Hillview-Eleanor Area Plume currently is in the DTSC's site cleanup program, listed as having backlog status as of October 2005 when the Envirostor database was accessed on July 2, 2018 and having a No Further Action as of 11/6/1992 status when accessed on October 14, 2018. The "plume" reportedly consisted of two public domestic water supply wells which were determined to have been impacted by carbon tetrachloride at concentrations exceeding the State drinking water standard (MCL), at levels between 4 and 17 parts per billion (ppb). Investigations conducted included a soil gas survey and search for the contaminant source, which was unable to be identified. The site was referred to the U.S. Environmental Protection Agency (EPA) by the California Department of Health Services (DHS) in 1985, but the plume was rejected as a National Priority List (NPL) candidate. Discontinuation of pumping water from the impacted wells reportedly stabilized the situation in 1990, by preventing the volatilization of carbon tetrachloride to ambient atmosphere. The DTSC issued a Report of Completion of Removal Action following closure of the two wells in 1992. No further actions were documented through the Envirostor website.

Based on the cross-gradient location of the plume and the regulatory status, it appears unlikely to be of significant concern to the Site.

3.2.3 Federal and State Radon Screening

Federal and State radon screening test data for the Site zip code of 94022 are included in the EDR radius map report included in Appendix C of the Phase I ESA. Based on information provided in the regulatory agency database report, two Federal and 49 State radon screening tests have been performed in the Site zip code. Three of the State results (6%) indicated radon concentrations exceeding the EPA action level of 4 pCi/L. Radon concentrations reported in the Federal tests averaged 0.200 pCi/L in the first floor living area, with 100 percent of results less than 4pCi/L; radon testing of the second floor living areas and basements was not reported. The Site is within Federal EPA Radon Zone 2 for Santa Clara County, indicating indoor average radon concentrations between 2 and 4 pCi/L.

Based on the radon test data, radon accumulation does not appear to be a significant concern for the Site.

3.3 Phase II Environmental Site Assessment

The Phase I ESA (McCloskey, 2018a) identified a few Recognized Environmental Concerns (RECs) that resulted in soil sampling to evaluate to evaluate the Site for man-made and naturally-occurring hazardous compounds. A Phase II ESA (McCloskey, 2018b) was performed and the following describes the sampling and the results of that sampling. Both the Phase I and Phase II ESAs were performed prior to an environmental oversight agreement (October 10, 2019) with the DTSC. The Phase I and Phase II ESAs were conducted using ASTM and DTSC School Program guidelines.

3.3.1 Building Perimeter - Sample Collection, Analyses and Analytical Results

The permanent classroom building (600 Block) had been constructed by 1956 and the small gym by 1961. Both may have been treated with termiticides and/or insecticides around the building perimeters, and OCPs and arsenic were therefore identified as potential environmental concerns. Lead-based paint may also have been used and flaking of paint to soil around these two buildings was a potential environmental concern. Exposed soil was only present around the small gym.

To evaluate these potential concerns, four soil samples were collected from exposed soil next to the outside walls of the small gym from a depth of 0- ½ feet, and at a frequency of one sample along each wall of the buildings (SS-1 to SS-4). Three soil samples (SS-9 to SS-11) were also collected next to the outside walls of the building 600 Block from a depth of ½ - 1 foot. These samples were collected beneath the existing asphalt and baserock material. Attempts were made to core the concrete along the southern and western sides of the 600-wing classroom building. The concrete was reinforced with rebar and the sampling locations along the southern and western sides of the building were not able to be cored and sampled. The sampling results are included in Table 1. The sampling locations are shown on Figure 3.

These seven samples were analyzed for OCPs (EPA Test Method 8081), lead and arsenic (EPA Test Method 6010B). The OCP results indicated that mostly low concentrations of pesticides were present around the building perimeter at the gym and the 600-wing classroom building. The pesticides concentrations were compared to the DTSC modified Screening Levels (DTSC-SLs) presented in DTSC Office of Human and Ecological Risk (HERO) guidance document Human Health Risk Assessment (HHRA) Note 3 dated April 2019, (HERO, 2019). If a DTSC-SL has not been established, the soil results were compared to Regional Screening Levels (RSLs) established by the United States Environmental Protection Agency (USEPA) Region 9 (USEPA, May 2020). The detected compounds included chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, gamma-BHC and heptachlor in at least one of the samples collected. Only the concentrations of dieldrin detected at two of the sampling locations around the gym exceeded the regulatory threshold for school uses. No other OCP compounds were detected exceeding their respective laboratory reporting limits.

Arsenic was detected in all of the soil samples analyzed and the concentrations were evaluated using standard statistical methods, as discussed in Section 6.1.2, and the maximum concentration detected (11.5 mg/Kg) is determined to be within naturally-occurring concentrations.

Lead concentrations were detected in all of the soil samples analyzed. Concentrations were compared to the DTSC modified Screening Levels (DTSC-SLs) of 80 milligrams per kilogram (mg/Kg) presented in HERO guidance document Human Health Risk Assessment (HHRA) Note 3 dated April 2019, (HERO, 2019). One sample collected from around the small gym had a lead concentration of 602 mg/Kg and the remaining concentrations were less than the DTSC-SL.

Copies of the analytical results and the chain of custody documentation are included in Appendix D.

3.3.2 Former Agricultural Use - Sample Collection, Analyses and Analytical Results

The Site was cultivated with orchards from at least the late-1930s through the mid-1950s. Pesticides and herbicides were commonly applied to orchards and the presence of residual concentrations of OCPs and arsenic were therefore potential environmental concerns. To address this concern, shallow soil samples were collected at four locations (SS-5 to SS-8) across the expansion area as shown on Figure 3, and analyzed for OCPs (EPA Test Method 8081) and arsenic (EPA Test Method 6010B). The sampling results are included in Table 1.

The OCP results show that two of the four samples had detectible concentrations of 4,4' DDD, 4,4'-DDE, 4,4'-DDT and/or dieldrin. None of the concentrations detected exceed their respective single compound USEPA RSL for school uses. No other compounds were detected exceeding their respective laboratory reporting limits.

Arsenic was detected in all of the soil samples analyzed. None of the concentrations detected in the soil samples exceeded naturally-occurring background concentrations.

Copies of the analytical results and the chain of custody documentation are included in Appendix D.

3.3.3 Naturally-Occurring Asbestos - Sample Collection, Analyses and Analytical Results

Geologic deposits that could contain naturally-occurring asbestos (NOA) are less than 10 miles from the Site and the DTSC Schools Unit guidelines recommend soils be tested for the presence of asbestos fibers (DTSC, 2004). To evaluate the potential presence of NOA in Site soils, three soil samples were initially collected from depths between approximately 6 inches and 2.0 feet below ground surface (bgs) followed by an additional six samples in the Phase II investigation (McCloskey, 2018b). Of the 9 samples analyzed, eight exceeded the DTSC School Unit screening criteria of 0.01%. Because of this, dust control measures and perimeter monitoring for NOA fibers will be needed during construction activities as well as capping and long-term measures to control the long-term release of asbestos fibers. The sampling results are included in Table 2. The approximate sampling locations are shown on Figure 4.

All samples were analyzed by Asbestos TEM Laboratories, Inc. of Berkeley, California. Because of the fine-grained nature of some of the Site soils, analyses by Transmission Electron Microcopy (TEM) Quantitative EPA Method (TEM NOA EPA/CARB Quantitative) was requested to resolve the presence of small asbestos fibers.

Copies of the analytical results and the chain of custody documentation are included in Appendix B.

3.4 Previous Remediation Activities

Because concentrations of pesticides (dieldrin) and lead from flaking lead-based paint were identified in soils around the small gym building, soil with concentrations exceeding the DTSC-SLs or RSLs were excavated in 2019. This work was done before DTSC involvement with the Site. The excavation areas are shown on Figure 5. Photographs of Site activities were taken periodically by MCI to further document the removal action implementation and are included in Appendix F. Approximately 60 cubic yards of in-situ soil was excavated and placed in 10 cubic yard bins. The bins were off-hauled and disposed at an appropriately licensed US Ecology landfill in Beatty, Nevada as a non-hazardous waste prior to Site development. Copies of the waste manifests are included in Appendix C.

Soils were initially excavated to a depth of 1 foot and approximately 6 feet wide on the northern side of the gym, and to a depth of 1½ feet and approximately 3 feet wide on the southern side of the gym. To document that elevated pesticides and metals were removed, verification soil samples were collected from the base and the sidewalls of the excavations. The approximate verification sampling locations are shown on Figure 5. A total of nine samples were initially collected from the base (3 samples) and sidewalls (5 samples and one duplicate) from the excavation on the northern side of the gym. A total of seven samples were initially collected from the base (2 samples and one duplicate) and sidewalls (4 samples) from the excavation on the southern side of the gym.

When OCPs concentrations were detected in the verification samples exceeding the DTSC-SLs, USEPA RSLs, or lead exceeding 80 mg/Kg, additional excavation was performed. Elevated concentrations were detected at three locations (one bottom and two sidewalls) in the northern excavation, and in one sidewall sample from the southern excavation. When elevated concentrations were detected in the sidewall samples, the excavation was extended laterally an additional 3 feet. Bottom sample exceedances resulted in excavation an additional foot deeper. This process was repeated as necessary until verification samples showed that the sampling results were less than the regulatory thresholds. The analytical results for all the verification

samples are summarized in Table 3. Copies of the analytical results and the chain of custody documentation for the verification samples are also included in Appendix D.

3.5 Demolition Activities

Demolition of the buildings in the expansion area was completed by October 25, 2019. The removed buildings included the 600-Block classroom building, the small gym, the portable classrooms P-11-P-12 and the portable classrooms P-13-P-16. The demolition included removal of all the concrete and asphalt in the expansion area and the oil stained concrete and asphalt in the hazardous waste storage area on the northern side of the 600-Block classroom building. The area of the hazardous waste storage was located within the footprint of the one of the new classroom buildings. Due to construction during the winter months, the new classroom building foundation in the area of the former hazardous waste storage was sub-excavated to a depth of 5- feet below existing grade, and the wet soil was lime -treated during the backfilling process. Although no soil was imported to the Site, construction materials including approximately 1,000 cubic yards of virgin quarry fines were imported as stable backfill for one of the building pads.

4.0 POTENTIAL COMPOUNDS OF ENVIRONMENTAL CONCERN

Based on results of the review of historical documents, potential historical practices, interviews conducted during the previous Phase I ESA, and the Site visit conducted by the DTSC,

potential environmental concerns for the Site were established in the Workplan, as described below.

4.1 Existing and Former Building Perimeters

4.1.1 Lead-Based Paint

One former permanent classroom structure (Block 600) and the small gym date back to mid-1950 and the existing custodial storage building date back to late-1960s/early-1970s. Based on historical practices, lead-based paint may have been used on the structures. Aerial photographs suggest that the areas around the existing and former building perimeters were mostly paved and the portable classrooms were placed on existing asphalt. DTSC was also concerned about residues that may have migrated in runoff water. Previous Phase II sampling (McCloskey, 2018b) at the Site (Section 3.3) performed in the areas of exposed surface soil around the small gym identified residual OCPs and lead-based paint which was mitigated prior to demolition of the building, as described in Section 3.4).

Based on these concerns and the Scoping Meeting with the DTSC held on February 7, 2020, existing building perimeters (custodial storage building), the northern side of the existing

permanent classroom (500 Block), possible runoff areas north and east of the former portables (near baseball field and the landscape strip near the fence), and south of the former permanent classroom (600 Block) are considered potential areas of concern for lead-based paint.

4.1.2 Polychlorinated Biphenyls (PCBs)

Window caulking and glazing have been known to contain PCBs for buildings constructed or renovated between 1950 and 1979. Construction of the one existing permanent classroom structure (600 Block) and the small gym were in the mid-1950s and the custodial building was constructed in the late-1960/early 1970s and window caulking/glazing with PCBs may have been utilized. The portable buildings were installed in the early 1980s and late-1990s and window caulking/glazing with PCBs was not likely utilized.

Based on this evaluation, the area south of the existing custodial storage building and the area south of the former permanent classroom (600 Block) are considered potential areas of concern for deposition of PCBs to surface soils. The previous Phase II sampling did not include testing for PCBs, but the exposed soils around the small gym have been removed from the Site.

4.1.3 Organochlorine Pesticides (OCPs) and Arsenic

Based on historical practices prior to 1989 and possible unpaved condition of the Site prior to 1963, the soil around the existing custodial building 7 perimeter and former permanent classroom building (600 Block)may have been treated with OCPs and/or herbicides possibly containing arsenic likely through direct-surface application.

Based on this evaluation, the perimeter of the existing custodial building perimeter and former permanent classroom building (600 Block) (paved and unpaved), were considered potential areas of concern for OCPs and arsenic.

The areas on the north and west sides of the custodial storage building appeared to be covered pool deck.

4.2 Former Agricultural Use

4.2.1 OCPs, Lead and Arsenic

The Site was cultivated with orchards from at least the late-1930s through the mid-1950s. Pesticides were commonly applied to row crops and orchards and the presence of residual concentrations of OCPs, lead and arsenic were therefore identified by the DTSC as potential environmental concerns. Organochlorine pesticides were not widely used until the 1950's, and prior to this lead-arsenate pesticide were used by some farmers. Application of pesticides would likely have been done in a uniform manner to treat the entire crop area. Previous Phase II

sampling evaluated most of the Site for residual agricultural chemicals, but the northern and eastern trench areas were not tested.

The CSM for the Site therefore led to the collection of shallow soil samples from along the northern trench for the presence of residual concentrations of OCPs, lead and arsenic. We understand that the eastern underground utility installation trench was already completed along the paved roadway and by directional drilling and not open trenching. Although the utility installation is complete, potential future repairs to the utilities are a concern. Therefore, shallow soil samples were collected from native soil beneath the asphalt for the presence of residual concentrations of OCPs, lead and arsenic.

4.3 Site Soils – Naturally-Occurring Asbestos

Naturally-occurring asbestos is often present in ultramafic rocks and can be eroded and transported in sediment long distances. The nearest outcrop of ultramafic rock that could contain NOA is approximately 9 miles west of the Site. To evaluate the potential presence of NOA in Site soils, three soil samples were collected from depths between approximately 6 inches and 2.0 feet bgs during the Phase II investigation, and an additional six after the Phase II investigation. Of the 9 samples analyzed, eight exceeded the DTSC School Unit screening criteria of 0.01%.

Based on this evaluation, Site soils are considered an area of concern for NOA.

5.0 ENVIRONMENTAL SETTINGS

This section describes Site environmental conditions that could potentially influence the transport of contaminants from the source through identified potential exposure pathways to an exposed individual or environmental receptor.

5.1 Factors Related to Soil Pathways

5.1.1 Site and Surrounding Area Topography

The Site topography is generally level, with a Site elevation of approximately 133 feet above mean sea level. The vicinity topography slopes very gently towards the northeast. The Site boundaries generally are undelimited in the field but were documented on the provided Site plan overlay).

5.1.2 Evidence of Environmental Impacts

A Phase II ESA was previously performed (McCloskey, 2018b) to evaluate if contamination was present on the Site and is summarized in Section 3.3. Lead and OCP impacted soil were identified

around one of the former structures (small gym). Prior to redevelopment of the Site, the impacted soils that exceeded the regulatory thresholds were removed from the Site and disposed at an appropriately licensed landfill. Confirmation sampling was performed on the excavations to verify all the impact soil was removed prior to mass grading activities. The remediation activities are summarized in Section 3.4.

5.1.3 Site Geologic Setting and Soil Types

The town of Los Altos is located in the northern portion of Santa Clara County, southwest of the San Francisco Bay. Santa Clara County is in the Coast Ranges geomorphic province, which is characterized by northwest-trending mountain ranges and valleys subparallel to the San Andreas Fault.

Based on information contained in the Environmental Data Resources Radius Map[™] Report with Geocheck[®] (EDR Radius Report) prepared for the Phase I ESA (McCloskey, 2018a), soils in the vicinity of the Site are categorized by the USDA Soil Conservation Service as Botella clay loam. The EDR Radius Report is provided in the appendices of the Phase I ESA.

The Botella series is moderately- to well-drained with a moderately coarse texture (EDR, 2018).

The Site is located within the Santa Clara Valley Groundwater Basin, Santa Clara Subbasin. The aquifer system in the subbasin consists primarily of Pleistocene-Holocene age Alluvium. The Pleistocene-Holocene Alluvium is the most significant water-bearing formation in the Subbasin.

Based on vicinity hydrogeological information obtained from the State Water Resources Control Board (SWRCB) Geotracker database, first groundwater in the Site area is expected at depths of approximately 25 to 35 feet beneath ground surface. The groundwater flow direction is documented towards the north-northwest.

5.1.4 Site Accessibility

The Site can be accessed from the northeastern portion of the school property on Jardin Drive or the southeastern portion of the school property on Almond Avenue.

5.1.5 Preventive Measures

Most of the Site was paved or covered with structures prior to the demolition in October 2019. The redevelopment is expected to take approximately two years to complete. The redevelopment will be during the academic school year when students and school personnel could be present if allowed during the Covid-19 pandemic and also the summer months at a time when the number of students and personnel will be at a minimum Preventative measures such

as engineering controls were implemented to mitigate exposure to NOA during the redevelopment activities. Perimeter dust monitoring for asbestos fibers was also conducted.

5.1.6 Nearest Potentially Affected Areas

The planned redevelopment of the Site includes upgrading several portions of the existing school grounds. Multiple single-family residential buildings are located within 1 mile of the Site, and single-family residential structures are present on all sides of the school parcel. The closest sensitive receptors are the single-family residential structures on the east side of the Site.

The following schools were identified within one mile of the Site: Almond Elementary, Santa Rita Elementary School, Covington Elementary School, Egan Junior High School, Bullis Charter School and Los Altos Tiny Tots preschool.

5.2 Factors Related to Water Pathways

5.2.1 Potential Migration Pathways to Groundwater

The primary migration pathway of potentially hazardous substances on the Site is via transport of dissolved chemicals through the unsaturated zone to groundwater. As stated previously, GeoTracker information first groundwater is expected at depths of approximately 25 to 35 feet beneath ground surface and generally flows to the north-northwest. The COCs at the Site include lead-based paint flakes, OCPs/arsenic, PCBs, and NOA, all of which have relatively low solubility and mobilities in soil and are not expected to be capable of significant downward migration into the soil column. Therefore, the likelihood of transport of potentially hazardous substances at the Site to groundwater is very low.

5.2.2 Potential Migration Pathways to Surface Water Bodies

The most likely migration pathway of potentially hazardous substances to surface water bodies is through stormwater runoff, and subsequent discharge to nearby surface water bodies. No creeks or streams were identified in the immediate vicinity of the Site. The nearest large surface water body is San Francisco Bay, located approximately 4½ miles northeast of the Site. Therefore, the likelihood of transport of potentially hazardous substances to surface water bodies is low.

5.2.3 Preventive Measures

As stated, most of the Site and surrounding areas are currently paved or covered with structures. The planned redevelopment is expected to take up to two years for completion and rainfall is expected during the winter months, therefore, transport via surface runoff to storm drains is a potential concern. During grading and construction, a variety of best management practices will be employed to comply with existing State stormwater regulations to control potential runoff and reduce erosion and sediment transport via the stormwater system from the Site.

5.3 Factors Related to Air Pathways

5.3.1 Potential Release Mechanisms

During mass grading and construction, soils will be exposed until construction is finished. Wind transport of affected soils and NOA are anticipated potential pathway for a release of impacted soil to air.

5.3.2 Prevailing Wind Direction and Velocity

The daily prevailing wind direction in the Site vicinity reportedly varies throughout the year. According to Weatherspark.com, the wind in Los Altos most often is from the west between mid-February and early-November, and from the north between early November and mid-February. Wind speeds are variable, but average between approximately 6.8 and 9.3 miles per hour. The windier parts of the year are from mid-February to mid-July.

5.3.3 Local Climate Information

According to Weatherspark.com, the average monthly precipitation in the Los Altos area ranges from a low of 0 inches in late-July, to a high of 3.7 inches in mid-February. The rainy season in the area generally is from October to May. The temperature at the Site throughout the year generally ranges from 44 to 76 degrees Fahrenheit.

5.3.4 Timing of Release Mechanisms

During redevelopment soil will be exposed, and the exposure potential varies upon the activity and could result in a potential release of impacted soil particles into the air.

5.3.5 Potentially Affected Areas

If not controlled the immediate Site vicinity could be affected by the release of impacted soils dispersed by wind.

5.3.6 Preventive Measure

During construction, engineering controls (e.g., dust abatement, plastic sheeting, etc.) have been put into place to control airborne particles. Perimeter NOA monitoring has also been performed during earth disturbing activities to evaluate the effectiveness of the dust control measures.

6.0 PEA SAMPLING AND ANALYSIS

As stated previously, the primary objective of sampling during a PEA investigation is to identify if chemicals or naturally-occurring substances are present at the Site that could represent health or hazard risks for the planned future school use. The scope of work described below was designed to target suspected areas of environmental concern and to analyze soil for the appropriate COCs discussed previously in Section 4.0, and was included in the PEA Workplan (McCloskey, 2020).

During the PEA sampling, a total of 19 soil samples were collected at depth intervals ranging from 0-½ feet bgs to 1½ to 2 feet bgs, depending on the sample location, the presence of asphalt, and the target analytes. Depth intervals are presented on each of the tables included herein. Nearsurface soils were collected using hand augering equipment with a 3 inch-diameter stainless steel auger head. The soil from the upper 6 inches or first encountered soil beneath the concrete or asphalt was placed in new, laboratory-supplied 4-ounce. Soil samples collected from depths deeper than 1 foot were collected using a hand auger and slide hammer. A hand auger was used to advance the borings to a depth of approximately 1½ feet bgs. A slide hammer was used to advance a 2.5-inch diameter, 6-inch long core sampler with a stainless-steel liner. Once the sample was collected, the liner was capped with Teflon™ film, fitted with a tight-fitting cap, and labeled with a unique sample identifier. The stainless-steel liners were then placed in plastic bags for temporary storage in an insulated cooler. Non-dedicated sampling equipment (e.g., drill shoe and slide hammer) was decontaminated prior to and in between sample locations using the procedures described previously to mitigate the potential for cross-contamination between samples.

The samples were then placed in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand delivered by MCI personnel under chain-of-custody to personnel of a California-certified analytical laboratory for shipping.

The samples were analyzed for select analytes at Pace Analytical National Laboratory in Mount Juliet, Tennessee. Laboratory analytical results are summarized in the following tables:

- Table 4 Metals and OCPs; and
- Table 5 PCBs.

Laboratory analytical reports and chain-of-custody forms are included in Appendix D. Detected concentrations were compared to the DTSC modified Screening Levels (DTSC-SLs) presented in DTSC Office of Human and Ecological Risk (HERO) guidance document Human Health Risk Assessment (HHRA) Note 3 dated April 2019, (HERO, 2019). If a DTSC-SL has not been established, the soil results were compared to USEPA Region 9 RSLs (USEPA, May, 2020). The

arsenic results were analyzed by statistical methods using the USEPA ProUCL software. The ProUCL results were evaluated to determine the approximate maximum naturally-occurring background concentrations. The analyses performed is described in Section 6.1.2 and the plots are included in Appendix E.

6.1 Existing and Former Building Perimeters

6.1.1 Soil Sampling and Analyses

To evaluate potential environmental concerns associated with flaking of lead-based paint and PCBs in window caulking/glaze, and the direct application of OCPs and arsenic, soil samples were collected north of former portables P-11/P-12 (near baseball field) (BP-1), east of former portables P-13-P-16 (landscape strip near the fence) (BP-2), south of the former permanent classroom (600 Block) (BP-3 and BP-4), the northern side of the existing permanent classroom (500 Block) (BP-5) and south of the existing custodial storage building (BP-6 through BP-10). The sampling location are shown on Figure 6.

All the near-surface soil samples (locations BP-1 to BP-6 and BP-10) and first encountered soil under the concrete (BP-7 to BP-9) were analyzed for lead (EPA Test Method 6010B). The samples collected south of the former 600 Block building (BP-3 and BP-4) and north of the 500 Block building (BP-5) were also analyzed for OCPs (EPA Test Method 8081), PCBs (EPA Test Method 8082), and arsenic (EPA Test Method 6010B). In the area around the custodial storage building 7 that require concrete or asphalt coring, the samples from the first encountered soil from locations BP-7 to BP-9 were also analyzed for OCPs and arsenic. The deeper samples from sampling locations BP-7 to BP-9 were also analyzed only for arsenic to assist with the evaluation of the naturally-occurring background concentration.

6.1.2 Analytical Results

The laboratory results of the pesticides, arsenic and lead analyses are summarized in Table 4. The laboratory results PCBs analyses are summarized in Table 5. The complete laboratory reports are included in Appendix D.

Concentrations of only 4,4'-DDE were detected in three of the six samples collected around the building perimeters exceeding the laboratory reporting limits. The three samples had detectible concentrations of 4,4'-DDE ranging from 0.00682 mg/Kg to 0.0136 mg/Kg. These concentrations are well below the single compound USEPA RSL concentration of 2.0 mg/Kg for school uses.

Arsenic was not detected in any of the initial three soil samples (BP-3, BP-4 or BP-5) analyzed exceeding the laboratory reporting limits. An additional six discrete soil samples from locations BP-7, BP-8 and BP-9 were then analyzed and concentrations ranged from 3.93 mg/Kg to 11.5

mg/Kg. The arsenic results from the previous Phase II ESA (MCI, 2018b) were included with the PEA Sampling results for the statistical analysis. The arsenic results from all the surface and near surface soil samples were then analyzed by statistical methods using the USEPA ProUCL software to determine the approximate maximum naturally-occurring background concentrations. The background statistics were then performed on all the arsenic results to determine the best statistical fit of the data. The data appeared to be within 5% significance of each the normal, gamma and lognormal distribution. The data was then plotted using Q-Q plots for each normal, gamma and lognormal distribution. The correlation coefficient (R-value) was evaluated for each of the different distribution was 0.968. The R-value for the gamma distribution was 0.991. The R-value for the lognormal distribution was 0.989. The results of the ProUCL statistical analysis are included in Appendix E. The results indicate that all the arsenic concentrations detected at the Site represent naturally-occurring concentrations up to the maximum concentration detected of 11.5 mg/Kg.

Lead concentrations were detected in all but one of the soil samples collected from around the building perimeter exceeding the laboratory reporting limits. The concentrations detected ranged from 1.68 mg/Kg to 159 mg/Kg. Lead concentrations exceeded the DTSC-SL of 80 mg/Kg at one of the sampling locations (BP-2).

No PCBs were detected in any of the samples collected exceeding the laboratory reporting limits.

One duplicate surface soil sample was collected from the area north of former portables P-11/P-12 (near baseball field) (BP-1B). The lead concentration detected in the duplicate sample are very similar to the concentration of the original sample.

6.2 Former Agricultural Use

6.2.1 Soil Sampling and Analyses

To evaluate potential environmental concerns associated with historical agricultural cultivation, surface soil samples were collected at two locations(AG-1 and AG-2) along the northern trench and two locations (AG-3 and AG-4) along the eastern trench. Samples were collected from a depth of 0 to ½ foot bgs or from the first six inches of soil encountered below the asphalt. The approximate sampling locations are shown on Figure 6.

The samples were analyzed for OCPs (EPA Test Method 8081) and arsenic and lead (EPA Test Method 6010B).

6.2.2 Analytical Results

The laboratory results of the pesticides, arsenic and lead analyses are summarized in Table 4. The complete laboratory results are included in Appendix D.

The OCP results indicate that pesticides concentrations were detected at three of the four sampling locations. Concentrations of 4,4'-DDE or 4,4'-DDT were detected in at least one of the samples collected. Concentrations of 4,4'-DDE were detected ranging from 0.00765 mg/Kg to 0.252 mg/Kg. These concentrations are well below the single compound USEPA RSL of 2.0 mg/Kg for school uses. 4,4'-DDT was only detected exceeding the laboratory reporting limit in one of the discrete samples at concentration of 0.0302 mg/Kg. This concentration is well below the single compound USEPA RSL of COP was detected exceeding the laboratory reporting limit in one of the discrete samples at concentration of 1.9 mg/Kg for school uses. No other OCP was detected exceeding the laboratory reporting limit.

Arsenic was detected at three of the four sampling locations and ranged from 1.58 mg/Kg to 4.36 mg/Kg. As described above in Section 6.1.2, the arsenic concentrations appear to be within the estimated naturally-occurring background concentrations at the Site.

Lead concentrations were detected at three of the four sampling locations and ranged from 16.2 mg/Kg to 34.8 mg/Kg. None of the lead concentrations exceeded the DTSC-SL of 80 mg/Kg. The concentrations detected appeared generally consistent with naturally-occurring background concentrations ranging from 6.8 to 16.1 mg/Kg in northern Santa Clara County (Scott, 1991).

One duplicate surface soil sample was collected from the area along the northern trench line (AG-1B). The OCPs and lead concentrations detected in the duplicate samples are very similar to the concentrations of the original samples.

6.3 Investigation-Derived Waste

The investigated-derived waste (IDW) (i.e., soils) generated during this investigation was placed on the ground adjacent to the sampling points. Hand-sampling equipment was decontaminated using a three-bucket decontamination method. Rinsate water generated during the decontamination of the sampling equipment was discharged to the ground in the specific area being sampled. Used gloves were placed in plastic garbage bags and discarded in a municipal refuse dumpster.

6.4 Sampling Variances

The field sampling that was performed in general accordance with the DTSC-approved PEA Workplan. Variances from the Workplan included:

- Sampling locations BP-3 and BP-4 were slightly moved due to the construction of the foundation of some of the new classrooms.
- Per DTSC direction during the PEA Sampling, sampling location BP-6 was slightly moved due to the length of the custodial building and a new sampling location (BP-10) was added to evaluate potential drainage pattern from runoff along the custodial building.

• The six samples (two from each location) collected from BP-7, BP-8 and BP-9 were also analyzed for arsenic to aid in the statistical analysis of the arsenic data.

All the other sampling was performed in accordance with the PEA Workplan.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

Laboratory analytical data from the samples collected at the Site were reviewed for data quality and usability in the risk evaluation. The initial Phase II samples and the PEA samples were analyzed at Pace National Analytical Laboratory in Mount Juliet, Tennessee. The confirmation samples for the remedial activities were all analyzed at Torrent Laboratory, Inc. in Milpitas, California. The NOA analysis was performed at Asbestos TEM Laboratories, Inc. in Berkeley, California.

7.1 Sample Receipt and Hold Times

The laboratory work order numbers for the previous Phase II sampling include the following: L1014122. The samples were collected on July 30, 2018 and received by labs on August 2, 2018. No adverse sample handling conditions were reported by the laboratory upon receipt of the samples. All samples were extracted and analyzed within the specified hold times.

The NOA analysis from Asbestos TEM Laboratories, Inc. is included in work order numbers 359829, 367081, 367501 and 1340-01483. The samples were collected on July 30, 2018 and, October 14 and 15, 2019 and December 6, 2019. Samples were received by labs on August 23, 2018, November 7, 2019, and December 6, 2019. No adverse sample handling conditions were reported by the laboratory upon receipt of the samples. No hold times are specified for the samples analyzed for NOA by PLM and TEM methods.

The laboratory work order numbers for the confirmation sampling include the following: 1910130, 1910131, 1910140, 1910146, and 1910268. The samples were collected on October 14, 15, 16, and 29, 2019, and received by labs on the same day. No adverse sample handling conditions were reported by the laboratory upon receipt of the samples. All samples were extracted and analyzed within the specified hold times.

For the PEA sampling, soil samples were recorded in two work orders identified as L1227097 and L1230611. Laboratory sample identification numbers for Site soil samples include: L1227097-01 through -016 and L1230611-01 through -06. The samples were collected on June 5, 2020 and were received by the laboratories on June 9, 2020. No adverse sample handling conditions were reported by the laboratory upon receipt of the samples. All samples were extracted and analyzed within the specified hold times.

7.2 Evaluation of MS/MSD

Matrix spike/matrix spike duplicates (MS/MSD) were reviewed, by batch, for completeness and accuracy. The results are summarized below:

- For work order L1014122 one analytical batch (#WG1146936) was reviewed for the metal analysis and one analytical batch (#WG1147937) was reviewed for the OCPs analysis. The MS% Recovery and MSD% Recovery was reviewed for all the batches. For batch WG1490560, the lead had a MSD Qualifier stating the associated batch QC was outside the established quality control range for precision. For batch WG1147937, alpha BHC, Beta BHC, Gamma BHC, and dieldrin results had a MS Qualifier stating the sample matrix interfered with the ability to make any accurate determination; spike value is low. The endrin aldehyde result had a MS Qualifier stating the RPD between the primary and confirmatory analysis exceeded 40%. All of the pesticides results had a MSD qualifier that stated the sample matrix interfered with the ability to make any of the other QC summaries and all the other compounds were within the % Recovery Limits.
- For work order 1910130, one analytical batch (#443128) was reviewed for the metal analysis and one analytical batch (#443118) was reviewed for the OCPs analysis. The LCS% Recovery and LCSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batches were 30%.
- For work order 1910131, two analytical batch (#443121 and 443121) were reviewed for the metal analysis, one analytical batch (#443168) for lead and chromium (TCLP) and one analytical batch (#443118) was reviewed for the OCPs analysis. The LCS% Recovery and LCSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batches were 30%, except for batch 443168 which was 20%.
- For work order 1910140, one analytical batch (#443151) was reviewed for the OCPs analysis. The MS% Recovery and MSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The LCS% Recovery and LCSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batches were 30%.

• For work order 1910146, one analytical batch (#443178) was reviewed for the OCPs analysis. The LCS% Recovery and LCSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batches were 30%.

For work order 1910268, one analytical batch (#443484) was reviewed for the OCPs analysis. The LCS% Recovery and LCSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batches were 30%.

- For work order L1227097 two analytical batches (#WG1490492 and WG1490560) were reviewed for the metal analysis, two analytical batches (#WG1492151 and WG1493045) was reviewed for OCPs analysis and two analytical batches (#WG1491271 and WG1492151) was reviewed for PCBs analysis. The MS% Recovery and MSD% Recovery was reviewed for all the batches. For batch WG1490560, the lead had a MS Qualifier stating the sample matrix interfered with the ability to make any accurate determination and the spike value is high. Sample-O1 (BP-1A) also had a qualifier stating the analyte failed the method required serial dilution test and/or subsequent post-spike criteria and these failures indicate matrix interference. For batch WG1492151, the endosulfan sulfate results had a MSD qualifier that stated the associated batch QC was outside the established quality control range for precision. No problems were in any of the other QC summaries and all the other compounds were within the % Recovery Limits.
- For work order L1230611, one analytical batch (#WG1496416) was reviewed for the metal analysis. The MS% Recovery and MSD% Recovery was reviewed and all compounds were within the % Recovery Limits. The control limits for the analytical batch was 20%.

7.3 Reporting Limits

All undiluted reporting limits were at or below the various specified screening levels. A few "J" flags for pesticides and arsenic in some of the samples indicate estimated concentrations between the Method Detection Limit (MDL) and the Reported Detection Limit (RDL); in these instances, the reported concentrations should be considered estimates rather than quantitative.

All the samples were analyzed at a standard dilution of 1x, unless the samples were diluted due to the nature of the matrix (dark, viscous extract).

8.0 HUMAN HEALTH SCREENING EVALUATION

8.1 Arsenic

Arsenic is a naturally-occurring element that is typically present in soils in the San Francisco Bay Area at concentrations that equal or exceed health risk-based screening levels. Arsenic was detected in 20 of the soil samples collected from the Site and ranged from an estimated concentration of 0.971 to 11.5 mg/Kg. The arsenic results (including 11 sampling results from the previous phase II sampling) were analyzed by statistical methods using the USEPA ProUCL software as described in Section 6.1.2. The ProUCL results indicate that the maximum concentration detected of 11.5 mg/Kg is within the naturally-occurring background concentration (Appendix E).

8.2 Lead

Lead concentrations were present at the Site exceeding DTSC-SL for sensitive uses of 80 mg/Kg in soils along the southern side of the small gym. The lead-impacted soil was removed and confirmation sampling indicated that the remaining lead concentrations were within naturally-occurring background concentrations. Lead concentrations identified during the PEA sampling are present at the Site exceeding DTSC-SL for sensitive uses of 80 mg/Kg in soils along the eastern perimeter of the Site (BP-2). Based on the elevated lead concentrations, there is an unacceptable risk to future Site users and mitigation will be required at the Site.

8.3 Naturally-Occurring Asbestos

The NOA concentrations in the alluvial soils underlying the entire Site exceed the DTSC Schools Programs guidelines for NOA. To prevent future exposure to Site soils, all soils will be capped with either classroom buildings, hardscape, artificial turf, or capped with clean import fill soils 6 inches to 1 foot in thickness that is approved prior to import to the Site.

8.4 Carcinogenic Risk

Carcinogenic compounds identified at the Site are shown in Table 6. To evaluate the theoretical cumulative cancer risk, the ratio sum method was used, as described USEPA RSL guidance documents. In this method, cumulative cancer risk is estimated by summing the ratio of the detected concentrations for chemicals with cancer effects divided by the respective single-compound DTSC-SLs or USEPA RSLs, and multiplied by 10⁻⁶, which yields a conservative estimate of the excess risk of cancer for exposure to these chemicals.
The cumulative cancer risk for theoretical exposure to detected compounds is estimated at 7.89 $\times 10^{-7}$, which is less than the DTSC excess cancer risk recommendation of 1 x 10^{-6} .

8.5 Non-Carcinogenic Risk

The cumulative non-cancer Hazard Index (HI) for chemicals with non-cancer effects is calculated to be 0.0011 which is less than the maximum value of 1.0 and is therefore indicating acceptable concentrations of chemicals.

9.0 ECOLOGICAL SCREENING EVALUATION

9.1 Site Characterization

As shown on Figure 2, the entire high school and Site is surrounded on the northern, eastern, southern and western sides by single-family residential structures. There are no wildlife habitats in the immediate vicinity of the Site.

9.2 Biological Characterization

Based on current Site usage and the lack of wildlife habitats in the immediate vicinity of the Site, a biological resource report was not deemed necessary.

10.0 PUBLIC PARTICIPATION

The public outreach for the PEA started with providing a notification of the field sampling work to residents within line of sight of the Site. The notice was reviewed and approved by the DTSC. The District's current intention is to make the PEA available for public review by Education Code, section 17213.1, subdivision (a)(6A), (or "option A"), where the PEA review is reviewed independently of the California Environmental Quality Act (CEQA) review. Copies of the report will be placed at the Los Altos Library, at the Mountain View Los Altos Union High School District Office, and on DTSC's Envirostor database. A public notice will be placed in the local paper, announcing the availability of the PEA for review, the locations, and the date of the public hearing.

11.0 CONCLUSIONS AND RECOMMENDATIONS

A Phase II ESA was previously performed (McCloskey, 2018b) to evaluate if contamination was present on the Site. Elevated lead and OCP concentrations were identified in the soil around one of the former structures. Prior to redevelopment of the Site, the impacted soils that exceeded the regulatory thresholds were removed from the Site and disposed at an appropriately licensed landfill. Confirmation sampling was performed on the excavations to verify all the impact soil

was removed prior to mass grading activities. The previous Phase II ESA sampling and the confirmation sampling was performed prior to the DTSC involvement and was done in accordance with DTSC guidance.

ThePEA sampling was performed to evaluate additional concerns identified by the DTSC. The environmental concerns identified prior to sampling that could have posed a health risk included flaking of lead-based paint around current and historical structures, surface application or injection of OCPs around building perimeters, PCB flaking associated with window caulking and glazing, and NOA. Soil sampling was performed in accordance with the DTSC-approved PEA Workplan to evaluate these concerns (MCI, 2020).

Conclusions of the previous Phase II ESA, remedial activities and PEA investigation are summarized below:

- Lead-Based Paint –Lead-based paint results indicate that flaking of lead-based paint likely occurred in one area of the Site, it was removed. The PEA sampling identified another area of elevated lead of unknown origin and further investigation is recommended.
- **PCBs** PCB results indicate that significant flaking of PCBs from window caulking or glazing did not occur, and no further investigation is recommended.
- OCPs and Arsenic OCP results indicate minimal residues from prior agricultural use. Only 4,4'-DDD, 4,4'-DDE,4,4'-DDT and dieldrin (removed) were detected at low concentrations, and no further investigation is recommended. The statistical analysis indicated that the background concentration for arsenic were present at the Site, and no further investigation is recommended.
- Naturally-Occurring Asbestos NOA results indicate that concentrations exceed the DTSC school guidance, and to prevent future exposure to Site soils, all soils will be capped with either classroom buildings, hardscape, artificial turf, or capped with clean import fill soils 6 inches to 1 foot in thickness that is approved prior to import to the Site.
- Human Health Risk Evaluation Cancer and non-cancer risks were estimated based on the detected concentrations of chemicals at the Site:
 - The cumulative cancer risk for theoretical exposure to detected compounds is estimated at 8.92 x 10^{-7} , which was less than the DTSC excess cancer risk recommendation of 1×10^{-6} .
 - The cumulative non-carcinogenic health hazard index (HI) was estimated at 0.0011, indicating acceptable concentrations of chemicals (i.e., HI<1).

One man-made contaminant (lead) was identified in the soils east of the former portables that exceed DTSC Schools Program acceptable risk guidelines. The lateral and vertical extent of affected soil is not fully delineated and additional soil sampling is recommended to complete

characterization of elevated concentrations. In the DTSC Schools Program process, this is done by performing a Supplement Site Investigation (SSI). At the completion of the SSI, the District would prepare an SSI Report with an updated screening level human health risk analysis.

The elevated metals concentrations identified in shallow would most likely be mitigated by excavation. The soil would be off-hauled and disposed of at an appropriately-licensed landfill prior to Site development. Some of this soil may exceed hazardous waste concentrations which would result in much greater disposal costs. The removal would need to be done under DTSC oversight.

The NOA concentrations in the alluvial soils underlying the entire Site exceed the DTSC Schools Program guidelines for NOA. To prevent future exposure to Site soils, all soils will be capped with either classroom buildings, hardscape, artificial turf, or capped with clean import fill soils 6 inches to 1 foot in thickness that is approved prior to import to the Site.

12.0 LIMITATIONS

This report was prepared for the sole use of Mountain View-Los Altos Union High School District and the California DTSC in evaluating soil quality at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for data presented by others. The accuracy and reliability of contaminant studies are a reflection of the number and type of samples taken and extent of the analyses conducted and are thus inherently limited and can be dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation. Our sampling and analytical plan was designed using accepted environmental principles and our judgment for the performance of a soil quality evaluation and based on the degree of investigation approved by the California DTSC. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information.

13.0 REFERENCES

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TABLES

Approximate Approximate Date alphabetadeltagamma-Endosulfan Endosulfan Endosulfa Endrin Endrin Sample ID Sampling Sampling Arsenic Lead Aldrin 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endrin внс n Sulfate BHC BHC BHC Sampled Ш Aldehyde Ketone Location Depth Concentrations in milligrams per kilogram (mg/Kg) SS-1 0-½ bgs 07/30/2018 9.12 53.7 < 0.0238 <0.0238 <0.0238 <0.0238 0.00083 0.00204 0.00624 0.0227 0.0548</p> < 0.0238 < 0.0238 < 0.0238 <0.0238 <0.0238 <0.0238 0-½ bgs SS-2 07/30/2018 <0.0227 <0.0227 <0.0227 5.73 15.8 < 0.0227 <0.0227 <0.0227 0.185 0.0751 0.0189 < 0.0227 < 0.0227 < 0.0227 < 0.0227 < 0.0227 < 0.0227 Perimeter of Small Gym SS-3 07/30/2018 6.93 < 0.0224 <0.0224 <0.0224 <0.0224 <0.0224 0.00446 0.0224 0.0389 < 0.0224 < 0.0224 < 0.0224 < 0.0224 <0.0224 0-½ bgs 602 0.061 < 0.0224 SS-4 07/30/2018 3.83 11.4 < 0.0239 <0.0239 <0.0239 <0.0239 <0.0239 <0.0239 0.00601 <0.0239 0.0007 < 0.0239 < 0.0239 < 0.0239 < 0.0239 < 0.0239 < 0.0239 0-½ bgs SS-5 07/30/2018 <0.0219 <0.0219 <0.0219 <0.0219 0.00036 ½-1 bgs 6.62 ---< 0.0219 0.0283 0.0049 0.0247 < 0.0219 < 0.0219 < 0.0219 < 0.0219 < 0.0219 <0.0219 Historical SS-6 07/30/2018 <0.0224 <0.0224 <0.0224 <0.0224 ½-1 bgs 0.971 ---< 0.0224 <0.0224 <0.0224 <0.0224 <0.0224 <0.0224 < 0.0224 < 0.0224 < 0.0224 <0.0224 < 0.0224 Agricultural SS-7 07/30/2018 1.91 <0.0227 <0.0227 <0.0227 <0.0227 <0.0227 <0.0227 <0.0227 <0.0227 <0.0227 <0.00227 < 0.0227 < 0.0227 < 0.0227 <0.0227 <0.0227 <0.0227 1-1½ bgs --Sampling SS-8 07/30/2018 9.7 < 0.0226 <0.0226 <0.0226 <0.0226 <0.0226 0.00198 0.135 0.0139 < 0.00226 <0.0226 < 0.0226 < 0.0226 < 0.0226 < 0.0226 <0.0226 ½-1 bgs --SS-9 ½-1 bgs 07/30/2018 <0.0222 <0.0222 <0.0222 <0.0222 0.00025 0.00098 0.00141 <0.00222 < 0.0222 Perimeter of 2.55 5.21 < 0.0222 <0.0222 < 0.0222 < 0.0222 < 0.0222 < 0.0222 600 Wing SS-10 07/30/2018 <0.0221 < 0.0221 <0.0221 <0.0221 <0.0221 <0.0221 <0.0221 <0.0221 <0.00221 < 0.0221 < 0.0221 <0.0221 <0.0221 2.49 1.26 < 0.0221 < 0.0221 ½-1 bgs Classroom SS-11 Building 07/30/2018 2.42 2.92 <0.0225 < 0.0225 <0.0225 < 0.0225 < 0.0225 <0.0225 0.00021 <0.0225 <0.00225 < 0.0225 < 0.0225 <0.0225 < 0.0225 < 0.0225 <0.0225 ½-1 bgs **USEPA RSL - Residential** 0.086 0.30 470** 0.68* 400 0.039 NE 0.57 1.9 2.0 1.9 0.034 470** NE 19 NE NE **HERO HHRA Note 3** 0.11* 80 NE NF NE NE NE TTLC 500 1,000 1.4 NE NE NE 4.0 NE NE NE 8.0 NE NE 0.2 NE NE NE

Table 1. Summary Results for the Pesticide and Metals from Previously Phase II Sampling

Los Altos High School Expansion 201 Almond Avenue, Los Altos, California

<D I Indicates that the compound was not detected at or above stated laboratory detection limits. LISEPA RSI HERO HHRA Note 3 United States Environmental Protection Agency Regional Screening Levels for Residenial Uses (May 2018)

DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, June 2018.

Not Applicable

Not established

TTLC

Total threshold limit concentration for hazardous waste classification.

Not Analyzed health-based goals in soil. RSL for Endosulfan Indicates exceedance of regulatory threshold BOLD

eptachlor	Heptachlor Epoxide	Hexachloro Benzene	Methoxychlor	Chlordane	Toxaphene
<0.0238	<0.0238	<0.0238	<0.0238	0.153	<0.475
<0.0227	<0.0227	<0.0227	<0.0227	<0.227	<0.455
0.00724	<0.0224	<0.0224	<0.0224	0.16	<0.447
<0.0239	<0.0239	<0.0239	<0.0239	<0.239	<0.477
<0.0219	<0.0219	<0.0219	<0.0219	<0.219	<0.438
<0.0224	<0.0224	<0.0224	<0.0224	<0.224	<0.448
<0.0227	<0.0227	<0.0227	<0.0227	<0.227	<0.453
<0.0226	<0.0226	<0.0226	<0.0226	<0.226	<0.453
<0.0222	<0.0222	<0.0222	<0.0222	<0.222	<0.445
<0.0221	<0.0221	<0.0221	<0.0221	<0.221	<0.441
<0.0225	<0.0225	<0.0225	<0.0225	<0.225	<0.451
0.13	0.07	0.21	320	1.7	0.49
NE	NE	NE	NE	0.440	NE
4.7	NE	NE	100.0	2.5	5.0

Cal/EPA does not require cleanup of soil to less than background concentrations. Natural background concentrations of arsenic often exceeds the

Approximate Location	Sample ID	Approximate Sampling Depth	Transmission Electron Microscopy ¹
Northern Perimeter of Small Gym	SS-1	0-½ bgs	<0.001%
North of 600 Wing Classroom Building	SS-8	1-2 bgs	0.031%
Eastern Side of 600 Wing Classroom	SS-11	1-2 bgs	0.077%
East of Portables P-11- P-12	SS-12	2-3' bgs	0.27%
Southern Perimeter of Small Gym	SS-13	1½-2 bgs	0.77%
East of Former Portables P-13-P-16	BP-1	0-½ bgs	0.113%
Near Former Portables P-11-P-12	BP-2	0-½ bgs	0.421%
Northern of Former Small Gym	BP-3	0-½ bgs	0.057%
Along Northern Utility Line	UT-1	0-½ bgs	0.062%
DTSC Schoo	ls Unit Screer	<25% of Samples >0.01%	

Table 2. Summary Results for NOA in Soils

TEM NOA EPA /CARB Quantitative

1

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

BOLD Indicates exceedance of regulatory threshold

DTSC Screening Level - DTSC School Division screening concentration

Table 3. Summary Results for Previous Confirmation Sampling

(Concentrations in milligrams per kilogram [mg/kg])

Approximate Location	Sample ID	Approximate Sampling Depth	Date Sampled	Lead	alpha- BHC	gamma- BHC (Lindane)	beta-BHC	delta- BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma- Chlordane	alpha- Chlordane	4,4'-DDE	Endosulfan I	Dieldrin	Endrin	4,4'-DDD	Endosulfan II	4,4'-DDT	Endrin Aldehyde	Methoxychlor	Endosulfan Sulfate	Endrin Ketone	Chlordane	Toxaphene
	EX-A-SW-1	¾ bgs	10/14/2019	19.8	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.00252 J	0.00208 J	0.00631 J	<0.020	0.0542	<0.020	<0.020	<0.020	0.017 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
	EX-A-SW-1A	¾ bgs	10/16/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
Excavation A	EX-A-SW-2	¾ bgs	10/14/2019	15.8	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0296	<0.020	0.00423 J	<0.020	<0.020	<0.020	0.00504 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
Southern	EX-A-SW-3	¾ bgs	10/14/2019	22.7	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0808	<0.020	0.00187 J	<0.020	<0.020	<0.020	0.00885 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
Side of Small	EX-A-SW-4	¾ bgs	10/14/2019	22.4	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.067	<0.020	0.00817 J	<0.020	<0.020	<0.020	0.0138 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
Gym	EX-A-B-1A	1½ bgs	10/14/2019	20.8	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0493	<0.020	0.0212	<0.020	<0.020	<0.020	0.0187 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
	EX-A-B-1B (Dup)	1½ bgs	10/14/2019	22.3	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0394	<0.020	0.0137 J	<0.020	<0.020	<0.020	0.0146 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
	EX-A-B-2	1½ bgs	10/14/2019	23.9	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0286	<0.020	0.0132 J	<0.020	<0.020	<0.020	0.0324	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
	EX-B-SW-1	½ bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0178	<0.002	0.389	0.00392	<0.002	<0.002	0.0473	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	EX-B-SW-1A	1 bgs	10/29/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00692	<0.002	0.00429	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	EX-B-SW-2	½ bgs	10/15/2019		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.00414 J	0.00327 J	0.0302	<0.020	0.0513	<0.020	<0.020	<0.020	0.0298	<0.020	<0.020	<0.020	<0.020	0.0345 J	<0.085
	EX-B-SW-2A	1 bgs	10/29/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0263	<0.002	0.00513	<0.002	<0.002	<0.002	0.00279	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
Excavation B	EX-B-SW-3A	½ bgs	10/15/2019		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0224	<0.020	0.00467 J	<0.020	<0.020	<0.020	0.00901 J	<0.020	<0.020	<0.020	<0.020	<0.021	<0.085
Northern	EX-B-SW-3B (Dup)	½ bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0209	<0.002	0.00402	<0.002	<0.002	<0.002	0.00941	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
Side of Small	EX-B-SW-4	½ bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0348	<0.002	0.00599	<0.002	<0.002	<0.002	0.00888	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
Gym	EX-B-SW-5	½ bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0553	<0.002	0.00311	<0.002	<0.002	<0.002	0.00481	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	EX-B-B-1	1 bgs	10/15/2019		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.00388 J	0.00252 J	0.1120	<0.020	0.0693	<0.020	<0.020	<0.020	0.0376	<0.020	<0.020	<0.020	<0.020	0.0269 J	<0.085
	EX-B-B-1A	2 bgs	10/29/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.028	<0.002	0.00296	<0.002	<0.002	<0.002	0.00209	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	EX-B-B-2	1 bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00541	<0.002	0.00266	<0.002	<0.002	<0.002	0.0299	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	EX-B-B-3	1 bgs	10/15/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00236	<0.002	0.00203	<0.002	0.0159	<0.002	<0.002	<0.002	<0.002	<0.020	<0.050
	USEPA RSL - Resi	dential		400	0.086	0.57	0.30	NE	0.13	0.039	0.07	NE	NE	2.0	470**	0.034	19	1.9	470**	1.9	NE	320	380	NE	1.7	0.49
	HERO HHRA NO	ote 3		80	0.086	0.57	0.30	0.14	0.13	0.039	0.07	NE	NE	2.0	450**	0.034	19	1.9	450**	1.9	NE	320	NE	NE	1.7	0.45
	TTLC			1,000	NE	4.0	NE	NE	4.7	1.4	NE	NE	NE	NE	NE	8.0	0.2	NE	NE	NE	NE	100.0	NE	NE	2.5	5.0

<d.l.< th=""><th>Indicates that the compound was not detected at or above stated laboratory detection limits.</th></d.l.<>	Indicates that the compound was not detected at or above stated laboratory detection limits.
NE	Not established.
NA	Not Applicable
(Dup)	Duplicate Sample

Not Analyzed

United States Environmental Protection Agency Regional Screening Levels for Residenial Uses (November 2019)

USEPA RSL HERO HHRA Note 3 DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, April 2019. TTLC

Total threshold limit concentration for hazardous waste classification.

BOLD Indicates exceedance of regulatory threshold and areas excavated and removed from the Site during remediation activities.

RSL/ DTSC SL for Endosulfan

*

**

Table 4. Summary Results for Los Altos High School PEA Pesticides and Metals Sampling

(Concentrations in milligrams per kilogram [mg/kg])

Approximate Location	Sample ID	Approximate Sampling Depth	Date Sampled	Arsenic	Lead	Aldrin	alpha- BHC	beta-BHC	delta- BHC	gamma- BHC (Lindane)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Hexachloro benzene	Methoxychlor	Chlordane (Technical)	Toxaphene
	BP-1A	0-½'bgs	6/5/2020		38.7																					
	BP-1B (Duplicate)	0-½'bgs	6/5/2020		33.9																					
	BP-2	0-½'bgs	6/5/2020		159																					
	BP-3	0-½'bgs	6/5/2020	<1.12 ¹	3.99	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	0.00682	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.337	< 0.139 ¹
	BP-4	0-½'bgs	6/5/2020	<1.28 ¹	<0.641	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.385	< 0.159 ¹
Building	BP-5	0-½'bgs	6/5/2020	<1.12 ¹	1.68	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.336	< 0.1391
Building	BP-6	0-½'bgs	6/5/2020		21																					
Sampling	BP-7	¾-1' bgs	6/5/2020	3.93	1.95	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.344	<0.142 ¹
Samping	BP-7	1½-2' bgs	6/5/2020	11.5																						
	BP-8	½-1' bgs	6/5/2020	5.37	73.6	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	0.0136	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.351	< 0.145 ¹
	BP-8	1½-2' bgs	6/5/2020	8.07																						
	BP-9	½-1' bgs	6/5/2020	4.28	13	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	0.0117	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.352	< 0.145 ¹
	BP-9	1½-2' bgs	6/5/2020	4.00																						
	BP-10	0-½'bgs	6/5/2020		21.6																					
	AG-1A	0-½'bgs	6/5/2020	<1.27	21.6	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	0.00882 J	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.381	< 0.1581
Agricultural	AG-1B (Duplicate)	0-½'bgs	6/5/2020	1.58	26.4	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	0.00765 J	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.0238	<0.356	<0.147 ¹
Sampling	AG-2	0-½'bgs	6/5/2020	<2.54 ¹	<2.76	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.331	< 0.1371
Samping	AG-3	0-½'bgs	6/5/2020	4.36	34.8	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	0.252	0.0302	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.327	< 0.135 ¹
	AG-4	0-½'bgs	6/5/2020	2.17	16.2	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	0.048	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.329	< 0.136 ¹
	USEPA RSL - Resi	dential		0.68*	400	0.039	0.086	0.30	NE	0.57	1.9	2.0	1.9	0.034	470***	470***	380	19	NE	NE	0.13	0.07	0.21	320	1.7	0.49
	HERO HHRA Note 3	- DTSC-SLs		0.11*	80	0.039	0.086	0.30	0.14**	0.57	1.9	2.0	1.9	0.034	450***	450***	NE	19	NE	NE	0.13	0.07	0.19	320	1.7	0.45
	TTLC			500	1,000	1.4	NE	NE	NE	4.0	NE	NE	NE	8.0	NE	NE	NE	0.2	NE	NE	4.7	NE	NE	100.0	2.5	5.0
<d.l.< th=""><th>Indicates that the compo</th><th>ound was not deter</th><th>cted at or above</th><th>stated laborat</th><th>ory detection</th><th>n limits.</th><th></th><th></th><th>Not Analyzed</th><th>i</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>*</th><th>Cal/EPA does no arsenic often ex</th><th>ot require cleanu cceeds the health</th><th>o of soil to less tha based goals in soil</th><th>n background co I.</th><th>ncentrations. Natur</th><th>al background cor</th><th>ncentrations of</th></d.l.<>	Indicates that the compo	ound was not deter	cted at or above	stated laborat	ory detection	n limits.			Not Analyzed	i									*	Cal/EPA does no arsenic often ex	ot require cleanu cceeds the health	o of soil to less tha based goals in soil	n background co I.	ncentrations. Natur	al background cor	ncentrations of
NE	Not established.						USEPA RSL	Note 2	United States	s Environmen	tal Protection	Agency Region	al Screening Le	evels for Resider	nial Uses (May 20	20) Andifinal Com. :		10	**	delta BHC listed	l under HCH- mix-	isomers for DTSC-	SL			
NA (Dup)	Not Applicable Duplicate Sample						TTLC	NOTE 3	Total thresho	old limit conce	ai KISK Office (entration for h	azardous wast	e classification	sessment (HHR/	a) NOTE 3, DISC-N	loaified Screenii	ig Leveis, April 20	19.		KOL/ DISC SL TO	rendosuitan					
BHC	Compounds listed under Hexachlorocyclohexanes in USEPA RSLs or HCHs in DTSC-SLs BOLD Indicates exceedance of regulatory threshold Indicates exceedance of regulatory threshold																									

Reported to Method Detection Limit (MDL)

Table 5. Summary Results for Los Altos High School PEA PCBs Sampling

(Concentrations in milligrams per kilogram [mg/kg])

Approximate Location	Sample ID	Approximate Sampling Depth	Date Sampled	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260
	BP-3	0-½'bgs	6/5/2020	<0.0381	<0.0381	<0.0381	<0.0381	<0.0191	<0.0191	<0.0191
Building	BP-4	0-½'bgs	6/5/2020	<0.0436	<0.0436	<0.0436	<0.0436	<0.0218	<0.0218	<0.0218
Perimeter	BP-5	0-½'bgs	6/5/2020	<0.0381	<0.0381	<0.0381	<0.0381	<0.0191	<0.0191	<0.0191
Sampling	BP-6	0-½'bgs	6/5/2020	<0.0387	<0.0387	<0.0387	<0.0387	<0.0194	<0.0194	<0.0194
	BP-10	0-½'bgs	6/5/2020	<0.0409	<0.0409	<0.0409	<0.0409	<0.0204	<0.0204	<0.0204
USEPA RSL - F	4.1	0.2	0.17	0.230	0.23	0.24	0.24			

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

USEPA RSL

HERO HHRA Note 3

United States Environmental Protection Agency Regional Screening Levels for Residenial Uses (May 2020)

DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, April 2019.

Contaminant	Health Effects*	Maximum Concentration Detected	USEPA RSL ¹	[Conc]/[Regulatory Threshold]
4,4'-DDD	N	0.00203	1.9 ¹	0.0011
4,4'-DDE	С	0.252	2.0 ¹	0.1260
4-4'-DDT	С	0.0751	1.9 ¹	0.0395
Dieldrin	С	0.0247	0.034 ¹	0.7265

Table 6. Cumulative Health Risk Determination for Site Soils – Residential Exposure Scenario (Concentrations in milligrams per kilogram [mg/kg])

Cumulative Risk ²	8.92 x 10 ⁻⁷
Non-Cancer Hazard Index ³	0.0011

¹USEPA RSL - United States Environmental Protection Agency Regional Screening Levels for sensitive uses

² Cumulative Risk - calculated by summing the ratio of the detected concentrations for chemicals with cancer effects divided by the respective single-compound USEPA RSL and multiplied by 10-6 which yields a conservative estimate of the excess risk of cancer for exposure to these chemicals.

³ Hazard Index – (Cal/EPA, 2005) calculated by summing the ratio of the detected concentrations for chemicals with non-cancer effects divided by the respective single-compound

USEPA RSL, which yields an estimate of non-cancer effects. A hazard index greater than one suggests further evaluation is necessary. *Health Effects: C = Cancer / N = Non-cancer FIGURES





300 150

0

FIGURE 2

McCloskei

LEGEND:

Approximate Expansion Trench Approximate Area of the School Expansion Approximate Locations of Former Structures Approximate Locations of Existing Structure Approximate location of Historical Agricultural Sampling \otimes \oplus Approximate location of Building Perimeter Sampling Approximate location of Building Perimeter Boring (H) X Approximate location of Previous Phase II Soil Sampling Approximate Graphical Scale (Ft.) 200 0 100

EAGLES



Soil concentrations in mg/kg – milligrams per kilogram. BOLD indicates exceedance of regulatory threshold.



Plan and Select Chemical Results Los Altos High School Expansion 201 Almond Avenue Los Altos, California

FIGURE 3

McCloskei







Soil concentrations in mg/kg – milligrams per kilogram. BOLD indicates exceedance of regulatory threshold.

Approximate Graphical Scale (Ft.)

100

0

200



PEA Sampling Plan and Select Chemical Results Los Altos High School Expansion 201 Almond Avenue Los Altos, California

FIGURE 6

McCloskey

Appendix A

DTSC PEA Workplan Approval Letter





Department of Toxic Substances Control

Jared Blumenfeld Secretary for Environmental Protection Meredith Williams, Ph.D., Director 8800 Cal Center Drive Sacramento, California 95826-3200



Gavin Newsom Governor

May 26, 2020

Mr. Mike Mathiesen Associate Superintendent of Business Services Mountain View Los Altos Union High School District 1299 Bryant Ave Mountain View, California 94040 <u>mike.mathiesen@mvla.net</u>

PRELIMINARY ENVIRONMENTAL ASSESSMENT WORKPLAN – APPROVAL, MOUNTAIN VIEW-LOS ALTOS UNION HIGH SCHOOL DISTRICT, LOS ALTOS HIGH SCHOOL EXPANSION, 201 ALMOND AVENUE, LOS ALTOS, SANTA CLARA COUNTY (PROJECT CODE 204320)

Dear Mr. Mathiesen:

The Department of Toxic Substances Control (DTSC) reviewed the revised *Preliminary Environmental Assessment Workplan* (PEA Workplan – McCloskey Consultants, Inc. [MCI], May 15, 2020) received electronically on May 22, 2020. MCI revised the draft version of the PEA Workplan in response to DTSC comments in a letter dated April 7, 2020 and follow-up correspondence forwarded via email by DTSC on May 7, 2020. The PEA Workplan includes project background information as well as proposed environmental investigation activities.

According to the draft Preliminary Environmental Assessment (PEA) Workplan, the Mountain View Los Altos Union High School District (District) is planning to expand the Los Altos High School, located at 201 Almond Avenue, Los Altos, Santa Clara County, California (Site). The Site includes two (2) of the 30.5 acres within the parcel defined by the Santa Clara County Assessor as Assessor's Parcel Numbers (APN) 170-60-001. The expansion will include the addition of 15 classrooms and will increase the student population by approximately 410 students.

The Site is currently bounded to the north by Jardin Drive followed by residential development; to the east by residential development followed by Alicia Way and residential development; to the south by Almond Avenue followed by residential development; and to the west by residential development, followed by Valencia Drive, then more residential development. The Site includes two trenches; a northern trench which is approximately 370 feet in length and an eastern trench which is approximately 550 feet in length.

Mr. Mathiesen May 26, 2020 Page 2

According to historical photos, the Site was used for orchards from at least 1939 through at least 1950. The original school buildings and a football field were added in 1954. Additional permanent structures and portable buildings were added across the existing Los Altos High School campus between the 1950s and 2016.

The PEA Workplan includes activities to investigate the Site for potential impacts from the following environmental conditions that may pose a threat to human health or the environment:

- Arsenic, lead and organochlorine pesticides (OCP) in soils from potential historical agricultural pesticide use;
- Lead in soils from the potential weathering of lead-based paint applications on structures built prior to 1993;
- OCP in soils from the potential application of termiticides in the area of existing or former structures built prior to 1989;
- Polychlorinated biphenyls in soil from caulking materials around exterior windows and doorframes installed prior to 1979;
- Naturally occurring asbestos (NOA) in soil from the presence of ultramafic rock outcrops within 9 miles from the Site; and,
- Polyaromatic hydrocarbons and total petroleum hydrocarbons in soil gas from a former 5000-gallon heating oil underground storage tank (UST) near the site.

DTSC's comments have been adequately addressed, and the revised PEA Workplan is hereby approved. If Site conditions differ from those presented in the approved PEA Workplan, additional work may be necessary. In accordance with Education Code section 17210.1(b), the District shall provide written notice to residents in the immediate area, approved in form by DTSC, at least five days in advance of field investigation activities. The intent of this requirement is to provide advance notice of fieldwork such as drilling, sampling, and other environmental data collection activities to anyone who lives or works in the line of sight of the proposed Site. Please notify DTSC a minimum of 48 hours in advance of field work or schedule changes.

The PEA Workplan indicates that the District intends to make the Draft PEA Report available for public review in compliance with Option A of the Education Code section 17213.1(a)(6)(A). Pursuant to Education Code section 17213.1, subdivision (a)(6), at the same time the draft PEA Report is submitted to DTSC for review, the District shall publish a DTSC approved notice in a local newspaper of general circulation and post the notice in a prominent manner at the Site. The notice should state the District's intent of making the draft PEA Report available for public review pursuant Option A. A copy of the notice shall be submitted to DTSC with the draft PEA Report. Mr. Mathiesen May 26, 2020 Page 3

If you have any questions regarding the project, please contact me at (916) 255-3744 or via email at Letitia.Shen@dtsc.ca.gov.

Sincerely,

Letitia Shen Project Manager Northern California Schools Unit Site Mitigation and Restoration Program

cc: (via e-mail)

Mr. Elvis Lopez Business Services-Fiscal Services Mountain View Los Altos Union High School District elvis.lopez@mvla.net

Mr. Thomas F. McCloskey, PG, CEG, CHg McCloskey Consultants, Inc. tom@mccloskeyconsultants.com

Mr. Omid Azizi RGM Kramer Inc. omida@rgmkramer.com

Mr. Patrick Maravelias RGM Kramer Inc. patrickm@rgmkramer.com

Mr. Vivek Mathrani, PhD Staff Toxicologist DTSC – Human and Ecological Risk Office <u>Vivek.Mathrani@dtsc.ca.gov</u>

Mr. José Salcedo, PE, Chief Northern California Schools Unit DTSC Sacramento Office Jose.Salcedo@dtsc.ca.gov Appendix B

Previous Phase II Sampling Documentation



ANALYTICAL REPORT

McCloskey Consulting - Danville, CA

Sample Delivery Group: Samples Received: L1014122 08/02/2018

Project Number: Description:

Los Altos High School

Report To:

Tom McCloskey 420 Sycamore Valley Rd West Danville, CA 94526

Entire Report Reviewed By:

Brian Ford

Brian Ford Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SS-6 @ 1/2-1' L1014122-06	12
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SS-8 @ 1/2-1' L1014122-08	14
SS-9 L1014122-09	15
SS-10 L1014122-10	16
SS-11 @ 1/2-1' L1014122-11	17
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Al: Accreditations & Locations	24
Sc: Sample Chain of Custody	25

¹ Cp ² Tc ³ Ss ⁴ Cn ⁵ Ds ⁶ Sr ⁷ Qc ⁸ GI ⁹ AI ¹⁰ Sc

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PROJECT:

SDG: L1014122 DATE/TIME: 08/13/18 09:22

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

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Ср

Tc

Ss

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Ds

Sr

Qc

GI

A

¹⁰Sc

		Collected by Chris Vertin	Collected date/time 07/30/18 12:23	Received date/time 08/02/18 08:45
Batch	Dilution	Preparation	Analysis	Analyst
		date/time	date/time	
WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD
WG1146936	1	08/03/18 11:53	08/07/18 15:29	ST
WG1147937	1	08/06/18 13:32	08/10/18 01:06	ADF
		Collected by	Collected date/time	Received date/time
		Chris Vertin	07/30/18 12:28	08/02/18 08:45
Batch	Dilution	Preparation	Analysis	Analyst
WC1140122	1			ID
WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD
WG1146936	1	08/03/18 11:53	08/07/18 15:57	SI
WG1147937	I	08/06/18 13:32	08/10/18 01:51	ID
		Collected by	Collected date/time	Received date/time
		Chris Vertin	07/30/18 12:42	08/02/18 08:45
Batch	Dilution	Preparation	Analysis	Analyst
11/04/10/22				10
WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD
WG1146936	1	08/03/18 11:53	08/07/18 15:59	SI
WG1147937	I	08/06/18 13:32	08/10/18 02:06	ADF
		Collected by	Collected date/time	Received date/time
		Chris Vertin	07/30/18 12:52	08/02/18 08:45
Batch	Dilution	Preparation	Analysis date/time	Analyst
WG11/8132	1	08/06/18 13:28	08/06/18 13:35	ID
WG1146936	1	08/03/18 11:53	08/07/18 16:02	ST
WG1147937	1	08/06/18 13:32	08/10/18 02:20	TD
WOTH	I	00/00/10 13:32	00/10/10 02.20	TD
		Collected by	Collected date/time	Received date/time
		Chris Vertin	07/30/18 12:04	08/02/18 08:45
Batch	Dilution	Preparation	Analysis	Analyst
W/C11/18132	1	08/06/18 12:28	08/06/18 13:35	חו
WG11/6036	1	08/03/18 11.52	08/07/18 16:05	ST
WG1147937	1	08/06/18 13.33	08/10/18 02:35	TD
W0111357		50,00,10 10.0Z	00/10/10 02:55	10
		Collected by	Collected date/time	Received date/time
		Chris Vertin	07/30/18 11:56	08/02/18 08:45
Batch	Dilution	Preparation	Analysis	Analyst
WG1148132	1	08/06/18 13:28	08/06/18 13:35	ID
WG1146936	1	08/03/18 11:53	08/07/18 16:07	ST
WG1147937	1 01	08/06/18 13.32	08/10/18 02:50	UT TD
	1.01	50/00/10 10.0L	00/10/10 02.00	10
	Batch WG1148132 WG1146936 WG1147937 Batch WG1148132 WG1148132 WG1148132 WG1148132 WG1148132 WG1148132 WG1146936 WG1147937 Batch Batch WG1148132 WG1148132 WG1148132 WG1148132 WG1147937 Batch Batch WG1147937 Batch WG1148132 WG1147937	Batch Dilution WG1148132 1 WG1146936 1 WG1147937 1 Batch Dilution WG1148132 1 WG1148132 1 WG1147937 1 WG1147937 1 WG1147937 1 Batch Dilution WG1148132 1 WG1148132 1 WG1148132 1 WG1147937 1 Batch Dilution WG1148132 1 WG1147937 1 Batch Dilution WG1147937 1 WG1147937 1	Collected by Chris VertinBatchDilutionPreparation date/timeWG1148132108/06/18 13:28WG1147937108/06/18 13:32WG1147937108/06/18 13:22Collected by Chris VertinCollected by Chris VertinBatchDilutionPreparation date/timeWG1148132108/06/18 13:28WG1146936108/03/18 11:53WG1147937108/06/18 13:28WG1148132108/06/18 13:28WG1148132108/06/18 13:28WG1147937108/06/18 13:28WG1147937108/06/18 13:28WG1148132108/06/18 13:28WG1148132108/06/18 13:28WG1148132108/06/18 13:28WG1147937108/06/18 13:28WG1147937108/06/18 13:28WG1147937108/06/18 13:28WG1147937108/06/18 13:22Collected by Chris VertinChris VertinBatchDilutionPreparation date/timeWG1148132108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18 13:32WG1147937108/06/18	Collected by Chris Vertin Collected date/time Batch Dilution Preparation date/time Analysis date/time WG1148132 1 08/06/18 13:28 08/06/18 13:29 WG1146936 1 08/06/18 13:32 08/07/18 15:29 WG1147937 1 08/06/18 13:32 08/07/18 15:29 WG1147937 1 08/06/18 13:32 08/07/18 15:29 WG1148132 08/06/18 13:32 08/06/18 13:35 08/07/18 15:28 Batch Dilution Preparation date/time Analysis date/time 08/06/18 13:35 WG114933 1 08/06/18 13:28 08/06/18 13:35 08/07/18 15:57 WG114937 1 08/06/18 13:28 08/06/18 13:35 WG114937 1 08/06/18 13:28 08/06/18 13:35 WG1148132 1 08/06/18 13:32 08/07/18 15:59 WG1148132 1 08/06/18 13:32 08/07/18 15:29 WG1148132 1 08/06/18 13:32 08/07/18 13:35 WG1148132 1 08/06/18 13:32 08/07/18 13:35 WG1148132

SDG: L1014122

SAMPLE SUMMARY

	SAMPLE SU	JMMA	۲Y	ONE LAB. NATIONWIDE.			
			Collected by	Collected date/time	Received date/time		
SS-7 @ 1-1 1/2' L1014122-07 Solid			Chris Vertin	07/30/18 11:49	08/02/18 08:45		
Method	Batch	Dilution	Preparation	Analysis	Analyst		
			date/time	date/time		^{2}Tc	
Total Solids by Method 2540 G-2011	WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD		
Metals (ICP) by Method 6010B	WG1146936	1	08/03/18 11:53	08/07/18 16:10	ST	3	
Pesticides (GC) by Method 8081	WG1147937	1	08/06/18 13:32	08/10/18 03:05	TD	SS	
			Collected by	Collected date/time	Received date/time	⁴ Cr	
SS-8 @ 1/2-1' L1014122-08 Solid			Chris Vertin	07/30/18 12:14	08/02/18 08:45	-	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Ds	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD	⁶ Sr	
Metals (ICP) by Method 6010B	WG1146936	1	08/03/18 11:53	08/07/18 16:13	ST		
Pesticides (GC) by Method 8081	WG1147937	1	08/06/18 13:32	08/10/18 03:20	TD	⁷ Q(
			Collected by	Collected date/time	Received date/time		
SS-9 L1014122-09 Solid			Chris Vertin	07/30/18 12:20	08/02/18 08:45	⁸ Gl	
Method	Batch	Dilution	Preparation	Analysis	Analyst	9	
			date/time	date/time		ĨAĨ	
Total Solids by Method 2540 G-2011	WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD		
Metals (ICP) by Method 6010B	WG1146936	1	08/03/18 11:53	08/07/18 16:16	ST	¹⁰	
Pesticides (GC) by Method 8081	WG1147937	1	08/06/18 13:32	08/10/18 03:34	TD		
			Collected by	Collected date/time	Received date/time		
SS-10 L1014122-10 Solid			Chris Vertin	07/30/18 13:05	08/02/18 08:45		
Method	Batch	Dilution	Preparation	Analysis	Analyst		
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1148132	1	08/06/18 13:28	08/06/18 13:35	JD		
Metals (ICP) by Method 6010B	WG1146936	1	08/03/18 11:53	08/07/18 16:18	ST		
Pesticides (GC) by Method 8081	WG1147937	1	08/06/18 13:32	08/10/18 03:49	TD		
			Collected by	Collected date/time	Received date/time		
SS-11 @ 1/2-1' L1014122-11 Solid			Chris Vertin	07/30/18 11:42	08/02/18 08:45		
Method	Batch	Dilution	Preparation	Analysis	Analyst		
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1148165	1	08/06/18 13:04	08/06/18 13:12	JD		
Metals (ICP) by Method 6010B	WG1146936	1	08/03/18 11:53	08/07/18 15:12	ST		
Pesticides (GC) by Method 8081	WG1147937	1	08/06/18 13:32	08/10/18 04:04	TD		

SDG: L1014122

CASE NARRATIVE

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Buar Ford

Brian Ford Project Manager



DETECTION SUMMARY

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Metals (ICP) by Method 6010B

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch	Ср
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time		2
SS-1 @ 0-1/2'	L1014122-01	Arsenic	9.12		0.772	2.38	1	08/07/2018 15:29	WG1146936	IC
SS-1 @ 0-1/2'	L1014122-01	Lead	53.7	<u>J3</u>	0.226	0.594	1	08/07/2018 15:29	WG1146936	
SS-2 @ 0-1/2'	L1014122-02	Arsenic	5.73		0.739	2.27	1	08/07/2018 15:57	WG1146936	³ Ss
SS-2 @ 0-1/2'	L1014122-02	Lead	15.8		0.216	0.568	1	08/07/2018 15:57	WG1146936	
SS-3 @ 0-1/2'	L1014122-03	Arsenic	6.93		0.727	2.24	1	08/07/2018 15:59	WG1146936	4
SS-3 @ 0-1/2'	L1014122-03	Lead	602		0.213	0.559	1	08/07/2018 15:59	WG1146936	Cn
SS-4 @ 0-1/2'	L1014122-04	Arsenic	3.83		0.775	2.39	1	08/07/2018 16:02	WG1146936	
SS-4 @ 0-1/2'	L1014122-04	Lead	11.4		0.227	0.596	1	08/07/2018 16:02	WG1146936	⁵Ds
SS-5 @ 1/2-1'	L1014122-05	Arsenic	6.62		0.711	2.19	1	08/07/2018 16:05	WG1146936	
SS-6 @ 1/2-1'	L1014122-06	Arsenic	0.971	J	0.720	2.22	1	08/07/2018 16:07	WG1146936	6
SS-7 @ 1-1 1/2'	L1014122-07	Arsenic	1.91	J	0.736	2.27	1	08/07/2018 16:10	WG1146936	Sr
SS-8 @ 1/2-1'	L1014122-08	Arsenic	9.70		0.736	2.26	1	08/07/2018 16:13	WG1146936	
SS-9	L1014122-09	Arsenic	2.55		0.722	2.22	1	08/07/2018 16:16	WG1146936	⁷ Qc
SS-9	L1014122-09	Lead	5.21		0.211	0.556	1	08/07/2018 16:16	WG1146936	
SS-10	L1014122-10	Arsenic	2.49		0.717	2.21	1	08/07/2018 16:18	WG1146936	8
SS-10	L1014122-10	Lead	1.26		0.210	0.551	1	08/07/2018 16:18	WG1146936	G
SS-11 @ 1/2-1'	L1014122-11	Arsenic	2.42		0.732	2.25	1	08/07/2018 15:12	WG1146936	
SS-11 @ 1/2-1'	L1014122-11	Lead	2.92		0.214	0.563	1	08/07/2018 15:12	WG1146936	⁹ Al

Pesticides (GC) by Method 8081

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
SS-1@0-1/2'	L1014122-01	Gamma BHC	0.000826	J J3 J6	0.000291	0.0238	1	08/10/2018 01:06	WG1147937
SS-1@0-1/2'	L1014122-01	4,4-DDD	0.00204	<u>J J3</u>	0.000195	0.0238	1	08/10/2018 01:06	WG1147937
SS-1@0-1/2'	L1014122-01	4,4-DDE	0.00624	<u>J J3</u>	0.000196	0.0238	1	08/10/2018 01:06	WG1147937
SS-1@0-1/2'	L1014122-01	4,4-DDT	0.0227	<u>J J3</u>	0.000316	0.0238	1	08/10/2018 01:06	WG1147937
SS-1@0-1/2'	L1014122-01	Dieldrin	0.0548	<u> J3 J6</u>	0.000106	0.00238	1	08/10/2018 01:06	WG1147937
SS-1@0-1/2'	L1014122-01	Chlordane	0.153	J	0.0463	0.238	1	08/10/2018 01:06	WG1147937
SS-2 @ 0-1/2'	L1014122-02	4,4-DDE	0.185		0.000188	0.0227	1	08/10/2018 01:51	WG1147937
SS-2 @ 0-1/2'	L1014122-02	4,4-DDT	0.0751		0.000302	0.0227	1	08/10/2018 01:51	WG1147937
SS-2 @ 0-1/2'	L1014122-02	Dieldrin	0.0189		0.000101	0.00227	1	08/10/2018 01:51	WG1147937
SS-3 @ 0-1/2'	L1014122-03	4,4-DDD	0.00446	J	0.000183	0.0224	1	08/10/2018 02:06	WG1147937
SS-3 @ 0-1/2'	L1014122-03	4,4-DDE	0.0224	J	0.000185	0.0224	1	08/10/2018 02:06	WG1147937
SS-3 @ 0-1/2'	L1014122-03	4,4-DDT	0.0389	P	0.000298	0.0224	1	08/10/2018 02:06	WG1147937
SS-3 @ 0-1/2'	L1014122-03	Dieldrin	0.0610	P	0.0000996	0.00224	1	08/10/2018 02:06	WG1147937
SS-3 @ 0-1/2'	L1014122-03	Heptachlor	0.00724	J	0.000113	0.0224	1	08/10/2018 02:06	WG1147937
SS-3 @ 0-1/2'	L1014122-03	Chlordane	0.160	J	0.0436	0.224	1	08/10/2018 02:06	WG1147937
SS-4 @ 0-1/2'	L1014122-04	4,4-DDE	0.00601	J	0.000197	0.0239	1	08/10/2018 02:20	WG1147937
SS-4 @ 0-1/2'	L1014122-04	Dieldrin	0.000699	<u>J P</u>	0.000106	0.00239	1	08/10/2018 02:20	WG1147937
SS-5 @ 1/2-1'	L1014122-05	4,4-DDD	0.000361	<u>J P</u>	0.000179	0.0219	1	08/10/2018 02:35	WG1147937
SS-5 @ 1/2-1'	L1014122-05	4,4-DDE	0.0283		0.000181	0.0219	1	08/10/2018 02:35	WG1147937
SS-5 @ 1/2-1'	L1014122-05	4,4-DDT	0.00490	J	0.000291	0.0219	1	08/10/2018 02:35	WG1147937
SS-5 @ 1/2-1'	L1014122-05	Dieldrin	0.0247		0.0000974	0.00219	1	08/10/2018 02:35	WG1147937
SS-8 @ 1/2-1'	L1014122-08	4,4-DDD	0.00198	<u>J P</u>	0.000186	0.0226	1	08/10/2018 03:20	WG1147937
SS-8 @ 1/2-1'	L1014122-08	4,4-DDE	0.135		0.000187	0.0226	1	08/10/2018 03:20	WG1147937
SS-8 @ 1/2-1'	L1014122-08	4,4-DDT	0.0139	J	0.000301	0.0226	1	08/10/2018 03:20	WG1147937
SS-9	L1014122-09	4,4-DDD	0.000253	J	0.000182	0.0222	1	08/10/2018 03:34	WG1147937
SS-9	L1014122-09	4,4-DDE	0.000977	J	0.000183	0.0222	1	08/10/2018 03:34	WG1147937
SS-9	L1014122-09	4,4-DDT	0.00141	<u>J P</u>	0.000296	0.0222	1	08/10/2018 03:34	WG1147937
SS-11 @ 1/2-1'	L1014122-11	4,4-DDE	0.000205	J	0.000186	0.0225	1	08/10/2018 04:04	WG1147937

PROJECT:

SDG: L1014122 DATE/TIME: 08/13/18 09:22



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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.2		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	9.12		0.772	2.38	1	08/07/2018 15:29	WG1146936
Lead	53.7	<u>J3</u>	0.226	0.594	1	08/07/2018 15:29	<u>WG1146936</u>

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U	J3	0.000277	0.0238	1	08/10/2018 01:06	WG1147937	7
Alpha BHC	U	<u>J3 J6</u>	0.000229	0.0238	1	08/10/2018 01:06	WG1147937	
Beta BHC	U	<u>J3 J6</u>	0.000360	0.0238	1	08/10/2018 01:06	WG1147937	8
Delta BHC	U	<u>J3</u>	0.000179	0.0238	1	08/10/2018 01:06	WG1147937	Ğ
Gamma BHC	0.000826	J J3 J6	0.000291	0.0238	1	08/10/2018 01:06	WG1147937	
4,4-DDD	0.00204	<u>J J3</u>	0.000195	0.0238	1	08/10/2018 01:06	WG1147937	⁹ 11
4,4-DDE	0.00624	<u>J J3</u>	0.000196	0.0238	1	08/10/2018 01:06	WG1147937	
4,4-DDT	0.0227	<u>J J3</u>	0.000316	0.0238	1	08/10/2018 01:06	WG1147937	10
Dieldrin	0.0548	<u>J3 J6</u>	0.000106	0.00238	1	08/10/2018 01:06	WG1147937	Sc
Endosulfan I	U	<u>J3</u>	0.000254	0.0238	1	08/10/2018 01:06	WG1147937	
Endosulfan II	U	J3	0.000273	0.0238	1	08/10/2018 01:06	WG1147937	
Endosulfan sulfate	U	<u>J3</u>	0.000202	0.0238	1	08/10/2018 01:06	WG1147937	
Endrin	U	<u>J3</u>	0.000260	0.0238	1	08/10/2018 01:06	WG1147937	
Endrin aldehyde	U	<u>J3</u>	0.000288	0.0238	1	08/10/2018 01:06	WG1147937	
Endrin ketone	U	<u>J3</u>	0.000189	0.0238	1	08/10/2018 01:06	WG1147937	
Heptachlor	U	<u>J3</u>	0.000120	0.0238	1	08/10/2018 01:06	WG1147937	
Heptachlor epoxide	U	<u>J3</u>	0.000449	0.0238	1	08/10/2018 01:06	WG1147937	
Hexachlorobenzene	U	J3	0.000266	0.0238	1	08/10/2018 01:06	WG1147937	
Methoxychlor	U	J3	0.000315	0.0238	1	08/10/2018 01:06	WG1147937	
Chlordane	0.153	J	0.0463	0.238	1	08/10/2018 01:06	WG1147937	
Toxaphene	U		0.0428	0.475	1	08/10/2018 01:06	WG1147937	
(S) Decachlorobiphenyl	61.7			10.0-148		08/10/2018 01:06	WG1147937	
(S) Tetrachloro-m-xylene	56.2			21.0-146		08/10/2018 01:06	WG1147937	

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.0		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.73		0.739	2.27	1	08/07/2018 15:57	WG1146936
Lead	15.8		0.216	0.568	1	08/07/2018 15:57	<u>WG1146936</u>

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000265	0.0227	1	08/10/2018 01:51	WG1147937	⁷ Oc
Alpha BHC	U		0.000219	0.0227	1	08/10/2018 01:51	WG1147937	QC
Beta BHC	U		0.000344	0.0227	1	08/10/2018 01:51	WG1147937	8
Delta BHC	U		0.000172	0.0227	1	08/10/2018 01:51	WG1147937	ĞI
Gamma BHC	U		0.000279	0.0227	1	08/10/2018 01:51	WG1147937	
4,4-DDD	U		0.000186	0.0227	1	08/10/2018 01:51	WG1147937	⁹ 11
4,4-DDE	0.185		0.000188	0.0227	1	08/10/2018 01:51	WG1147937	
4,4-DDT	0.0751		0.000302	0.0227	1	08/10/2018 01:51	WG1147937	10
Dieldrin	0.0189		0.000101	0.00227	1	08/10/2018 01:51	WG1147937	Sc
Endosulfan I	U		0.000243	0.0227	1	08/10/2018 01:51	WG1147937	
Endosulfan II	U		0.000261	0.0227	1	08/10/2018 01:51	WG1147937	
Endosulfan sulfate	U		0.000193	0.0227	1	08/10/2018 01:51	WG1147937	
Endrin	U		0.000249	0.0227	1	08/10/2018 01:51	WG1147937	
Endrin aldehyde	U		0.000275	0.0227	1	08/10/2018 01:51	WG1147937	
Endrin ketone	U		0.000181	0.0227	1	08/10/2018 01:51	WG1147937	
Heptachlor	U		0.000115	0.0227	1	08/10/2018 01:51	WG1147937	
Heptachlor epoxide	U		0.000430	0.0227	1	08/10/2018 01:51	WG1147937	
Hexachlorobenzene	U		0.000255	0.0227	1	08/10/2018 01:51	WG1147937	
Methoxychlor	U		0.000301	0.0227	1	08/10/2018 01:51	WG1147937	
Chlordane	U		0.0443	0.227	1	08/10/2018 01:51	WG1147937	
Toxaphene	U		0.0409	0.455	1	08/10/2018 01:51	WG1147937	
(S) Decachlorobiphenyl	90.7			10.0-148		08/10/2018 01:51	<u>WG1147937</u>	
(S) Tetrachloro-m-xylene	80.4			21.0-146		08/10/2018 01:51	WG1147937	

ONE LAB. NATIONWIDE.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.4		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.93		0.727	2.24	1	08/07/2018 15:59	WG1146936
Lead	602		0.213	0.559	1	08/07/2018 15:59	WG1146936

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ँSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000261	0.0224	1	08/10/2018 02:06	WG1147937	⁷ Oc
Alpha BHC	U		0.000216	0.0224	1	08/10/2018 02:06	WG1147937	QC
Beta BHC	U		0.000339	0.0224	1	08/10/2018 02:06	WG1147937	8
Delta BHC	U		0.000169	0.0224	1	08/10/2018 02:06	WG1147937	ĞI
Gamma BHC	U		0.000274	0.0224	1	08/10/2018 02:06	WG1147937	
4,4-DDD	0.00446	J	0.000183	0.0224	1	08/10/2018 02:06	WG1147937	⁹ A I
4,4-DDE	0.0224	J	0.000185	0.0224	1	08/10/2018 02:06	WG1147937	A
4,4-DDT	0.0389	Ρ	0.000298	0.0224	1	08/10/2018 02:06	WG1147937	10
Dieldrin	0.0610	Ρ	0.0000996	0.00224	1	08/10/2018 02:06	WG1147937	Sc
Endosulfan I	U		0.000239	0.0224	1	08/10/2018 02:06	WG1147937	
Endosulfan II	U		0.000257	0.0224	1	08/10/2018 02:06	WG1147937	
Endosulfan sulfate	U		0.000190	0.0224	1	08/10/2018 02:06	WG1147937	
Endrin	U		0.000245	0.0224	1	08/10/2018 02:06	WG1147937	
Endrin aldehyde	U		0.000271	0.0224	1	08/10/2018 02:06	WG1147937	
Endrin ketone	U		0.000178	0.0224	1	08/10/2018 02:06	WG1147937	
Heptachlor	0.00724	J	0.000113	0.0224	1	08/10/2018 02:06	WG1147937	
Heptachlor epoxide	U		0.000423	0.0224	1	08/10/2018 02:06	WG1147937	
Hexachlorobenzene	U		0.000251	0.0224	1	08/10/2018 02:06	WG1147937	
Methoxychlor	U		0.000296	0.0224	1	08/10/2018 02:06	WG1147937	
Chlordane	0.160	J	0.0436	0.224	1	08/10/2018 02:06	WG1147937	
Toxaphene	U		0.0403	0.447	1	08/10/2018 02:06	WG1147937	
(S) Decachlorobiphenyl	132			10.0-148		08/10/2018 02:06	WG1147937	
(S) Tetrachloro-m-xylene	58.6			21.0-146		08/10/2018 02:06	WG1147937	

ONE LAB. NATIONWIDE.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.8		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.83		0.775	2.39	1	08/07/2018 16:02	WG1146936
Lead	11.4		0.227	0.596	1	08/07/2018 16:02	WG1146936

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000278	0.0239	1	08/10/2018 02:20	WG1147937	⁷ Oc
Alpha BHC	U		0.000230	0.0239	1	08/10/2018 02:20	WG1147937	QC
Beta BHC	U		0.000361	0.0239	1	08/10/2018 02:20	WG1147937	8
Delta BHC	U		0.000180	0.0239	1	08/10/2018 02:20	WG1147937	ĞI
Gamma BHC	U		0.000292	0.0239	1	08/10/2018 02:20	WG1147937	
4,4-DDD	U		0.000196	0.0239	1	08/10/2018 02:20	WG1147937	⁹ A I
4,4-DDE	0.00601	J	0.000197	0.0239	1	08/10/2018 02:20	WG1147937	A
4,4-DDT	U		0.000317	0.0239	1	08/10/2018 02:20	WG1147937	10
Dieldrin	0.000699	JP	0.000106	0.00239	1	08/10/2018 02:20	WG1147937	Sc
Endosulfan I	U		0.000255	0.0239	1	08/10/2018 02:20	WG1147937	
Endosulfan II	U		0.000274	0.0239	1	08/10/2018 02:20	WG1147937	
Endosulfan sulfate	U		0.000203	0.0239	1	08/10/2018 02:20	WG1147937	
Endrin	U		0.000261	0.0239	1	08/10/2018 02:20	WG1147937	
Endrin aldehyde	U		0.000289	0.0239	1	08/10/2018 02:20	WG1147937	
Endrin ketone	U		0.000190	0.0239	1	08/10/2018 02:20	WG1147937	
Heptachlor	U		0.000120	0.0239	1	08/10/2018 02:20	WG1147937	
Heptachlor epoxide	U		0.000451	0.0239	1	08/10/2018 02:20	WG1147937	
Hexachlorobenzene	U		0.000267	0.0239	1	08/10/2018 02:20	WG1147937	
Methoxychlor	U		0.000316	0.0239	1	08/10/2018 02:20	WG1147937	
Chlordane	U		0.0465	0.239	1	08/10/2018 02:20	WG1147937	
Toxaphene	U		0.0429	0.477	1	08/10/2018 02:20	WG1147937	
(S) Decachlorobiphenyl	74.5			10.0-148		08/10/2018 02:20	WG1147937	
(S) Tetrachloro-m-xylene	71.3			21.0-146		08/10/2018 02:20	WG1147937	

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SS-5 @ 1/2-1' Collected date/time: 07/30/18	12:04	C X	SAMPLE	RESUL	.TS - (05	ONE LA
Total Solids by Method	2540 G-201	1					
Analyte	Result %	Qualifier	Dilution Analysi date / t	i s .ime	Batch		
Total Solids	91.4		1 08/06/2	2018 13:35	WG11481	32	
Metals (ICP) by Method	6010B						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.62		0.711	2.19	1	08/07/2018 16:05	WG1146936
Pesticides (GC) by Meth	od 8081						
Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) ma/ka	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.000255	0.0219	1	08/10/2018 02:35	WG1147937
Alpha BHC	U		0.000211	0.0219	1	08/10/2018 02:35	WG1147937
Beta BHC	U		0.000331	0.0219	1	08/10/2018 02:35	WG1147937
Delta BHC	U		0.000165	0.0219	1	08/10/2018 02:35	WG1147937
Gamma BHC	U		0.000268	0.0219	1	08/10/2018 02:35	WG1147937
4,4-DDD	0.000361	JP	0.000179	0.0219	1	08/10/2018 02:35	WG1147937
4,4-DDE	0.0283	_	0.000181	0.0219	1	08/10/2018 02:35	WG1147937
4,4-DDT	0.00490	J	0.000291	0.0219	1	08/10/2018 02:35	WG1147937
Dieldrin	0.0247	-	0.0000974	0.00219	1	08/10/2018 02:35	WG1147937
Endosulfan I	U		0.000234	0.0219	1	08/10/2018 02:35	WG1147937
Endosulfan II	U		0.000252	0.0219	1	08/10/2018 02:35	WG1147937
Endosulfan sulfate	U		0.000186	0.0219	1	08/10/2018 02:35	WG1147937
Endrin	U		0.000240	0.0219	1	08/10/2018 02:35	WG1147937
Endrin aldehyde	U		0.000265	0.0219	1	08/10/2018 02:35	WG1147937
Endrin ketone	U		0.000174	0.0219	1	08/10/2018 02:35	WG1147937
Heptachlor	U		0.000110	0.0219	1	08/10/2018 02:35	WG1147937
Heptachlor epoxide	U		0.000414	0.0219	1	08/10/2018 02:35	WG1147937
Hexachlorobenzene	U		0.000245	0.0219	1	08/10/2018 02:35	WG1147937
Methoxychlor	U		0.000290	0.0219	1	08/10/2018 02:35	WG1147937
Chlordane	U		0.0427	0.219	1	08/10/2018 02:35	WG1147937
Toxaphene	U		0.0394	0.438	1	08/10/2018 02:35	WG1147937
(S) Decachlorobiphenyl	99.5			10.0-148		08/10/2018 02:35	WG1147937
(S) Tetrachloro-m-xylene	75.1			21.0-146		08/10/2018 02:35	WG1147937

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WG1148132

Dilution Analysis

date / time

08/07/2018 16:07

ONE LAB. NATIONWIDE.

Batch

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Collected date/time: 07/30/	18 11:56		07 111	L1014122
Total Solids by Metho	od 2540 G-20	011		
	Result	Qualifier	Dilution	Analysis
Analyte	%			date / time
Total Solids	90.3		1	08/06/2018 13:35
Metals (ICP) by Metho	od 6010B			
Metals (ICP) by Metho	Result (dry)	Qualifier	MDL (dry) RDL (dry)
Metals (ICP) by Metho Analyte	od 6010B Result (dry) mg/kg	Qualifier	MDL (mg/kg	dry) RDL (dry) g mg/kg
Metals (ICP) by Metho Analyte Arsenic	od 6010B Result (dry) mg/kg 0.971	Qualifier	MDL (mg/kg 0.720	dry) RDL (dry) j mg/kg 2.22

Pesticides (GC) by M	lethod 8081							Ds
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		ຶSr j
Aldrin	U		0.000260	0.0224	1.01	08/10/2018 02:50	WG1147937	
Alpha BHC	U		0.000216	0.0224	1.01	08/10/2018 02:50	WG1147937	700
Beta BHC	U		0.000339	0.0224	1.01	08/10/2018 02:50	WG1147937	QC
Delta BHC	U		0.000169	0.0224	1.01	08/10/2018 02:50	WG1147937	8
Gamma BHC	U		0.000274	0.0224	1.01	08/10/2018 02:50	WG1147937	ĞI
4,4-DDD	U		0.000184	0.0224	1.01	08/10/2018 02:50	WG1147937	
4,4-DDE	U		0.000185	0.0224	1.01	08/10/2018 02:50	WG1147937	⁹ A I
4,4-DDT	U		0.000298	0.0224	1.01	08/10/2018 02:50	WG1147937	A
Dieldrin	U		0.0000996	0.00224	1.01	08/10/2018 02:50	WG1147937	10
Endosulfan I	U		0.000239	0.0224	1.01	08/10/2018 02:50	WG1147937	Sc
Endosulfan II	U		0.000257	0.0224	1.01	08/10/2018 02:50	WG1147937	
Endosulfan sulfate	U		0.000191	0.0224	1.01	08/10/2018 02:50	WG1147937	
Endrin	U		0.000245	0.0224	1.01	08/10/2018 02:50	WG1147937	
Endrin aldehyde	U		0.000270	0.0224	1.01	08/10/2018 02:50	WG1147937	
Endrin ketone	U		0.000178	0.0224	1.01	08/10/2018 02:50	WG1147937	
Heptachlor	U		0.000113	0.0224	1.01	08/10/2018 02:50	WG1147937	
Heptachlor epoxide	U		0.000423	0.0224	1.01	08/10/2018 02:50	WG1147937	
Hexachlorobenzene	U		0.000250	0.0224	1.01	08/10/2018 02:50	WG1147937	
Methoxychlor	U		0.000297	0.0224	1.01	08/10/2018 02:50	WG1147937	
Chlordane	U		0.0436	0.224	1.01	08/10/2018 02:50	WG1147937	
Toxaphene	U		0.0403	0.448	1.01	08/10/2018 02:50	WG1147937	
(S) Decachlorobiphenyl	79.5			10.0-148		08/10/2018 02:50	WG1147937	
(S) Tetrachloro-m-xylene	75.9			21.0-146		08/10/2018 02:50	WG1147937	

ONE LAB. NATIONWIDE.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.3		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.91	J	0.736	2.27	1	08/07/2018 16:10	WG1146936

	Result (drv)	Qualifier	MDL (drv)	RDL (drv)	Dilution	Δnalysis	Batch	
Analyte	ma/ka	quanter	ma/ka	ma/ka	Dilation	date / time		
Aldrin	U		0.000264	0.0227	1	08/10/2018 03:05	WG1147937	
Alpha BHC	U		0.000219	0.0227	1	08/10/2018 03:05	WG1147937	
Beta BHC	U		0.000343	0.0227	1	08/10/2018 03:05	WG1147937	
Delta BHC	U		0.000171	0.0227	1	08/10/2018 03:05	WG1147937	
Gamma BHC	U		0.000278	0.0227	1	08/10/2018 03:05	WG1147937	
4,4-DDD	U		0.000186	0.0227	1	08/10/2018 03:05	WG1147937	
4,4-DDE	U		0.000187	0.0227	1	08/10/2018 03:05	WG1147937	
4,4-DDT	U		0.000301	0.0227	1	08/10/2018 03:05	WG1147937	
Dieldrin	U		0.000101	0.00227	1	08/10/2018 03:05	WG1147937	
Endosulfan I	U		0.000242	0.0227	1	08/10/2018 03:05	WG1147937	
Endosulfan II	U		0.000261	0.0227	1	08/10/2018 03:05	WG1147937	
Endosulfan sulfate	U		0.000193	0.0227	1	08/10/2018 03:05	WG1147937	
Endrin	U		0.000248	0.0227	1	08/10/2018 03:05	WG1147937	
Endrin aldehyde	U		0.000274	0.0227	1	08/10/2018 03:05	WG1147937	
Endrin ketone	U		0.000180	0.0227	1	08/10/2018 03:05	WG1147937	
Heptachlor	U		0.000114	0.0227	1	08/10/2018 03:05	WG1147937	
Heptachlor epoxide	U		0.000428	0.0227	1	08/10/2018 03:05	WG1147937	
Hexachlorobenzene	U		0.000254	0.0227	1	08/10/2018 03:05	WG1147937	
Methoxychlor	U		0.000300	0.0227	1	08/10/2018 03:05	WG1147937	
Chlordane	U		0.0442	0.227	1	08/10/2018 03:05	WG1147937	
Toxaphene	U		0.0408	0.453	1	08/10/2018 03:05	WG1147937	
(S) Decachlorobiphenyl	80.2			10.0-148		08/10/2018 03:05	WG1147937	
(S) Tetrachloro-m-xylene	72.1			21.0-146		08/10/2018 03:05	WG1147937	

Total Solids

SAMPLE RESULTS - 08 L1014122

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Total Solids by Method	2540 G-2	2011		
	Result	Qualifier	Dilution	Analysis
Analyte	%			date / tin

88.3

Batch WG1148132 08/06/2018 13:35

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	9.70		0.736	2.26	1	08/07/2018 16:13	WG1146936

date / time

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time	_	6
Aldrin	U		0.000264	0.0226	1	08/10/2018 03:20	WG1147937	
Alpha BHC	U		0.000219	0.0226	1	08/10/2018 03:20	WG1147937	7
Beta BHC	U		0.000343	0.0226	1	08/10/2018 03:20	WG1147937	
Delta BHC	U		0.000171	0.0226	1	08/10/2018 03:20	WG1147937	E
Gamma BHC	U		0.000277	0.0226	1	08/10/2018 03:20	WG1147937	
4,4-DDD	0.00198	JP	0.000186	0.0226	1	08/10/2018 03:20	WG1147937	L
4,4-DDE	0.135		0.000187	0.0226	1	08/10/2018 03:20	WG1147937	9
4,4-DDT	0.0139	J	0.000301	0.0226	1	08/10/2018 03:20	<u>WG1147937</u>	
Dieldrin	U		0.000101	0.00226	1	08/10/2018 03:20	WG1147937	[1
Endosulfan I	U		0.000242	0.0226	1	08/10/2018 03:20	<u>WG1147937</u>	
Endosulfan II	U		0.000260	0.0226	1	08/10/2018 03:20	WG1147937	L
Endosulfan sulfate	U		0.000193	0.0226	1	08/10/2018 03:20	<u>WG1147937</u>	
Endrin	U		0.000248	0.0226	1	08/10/2018 03:20	WG1147937	
Endrin aldehyde	U		0.000274	0.0226	1	08/10/2018 03:20	<u>WG1147937</u>	
Endrin ketone	U		0.000180	0.0226	1	08/10/2018 03:20	WG1147937	
Heptachlor	U		0.000114	0.0226	1	08/10/2018 03:20	<u>WG1147937</u>	
Heptachlor epoxide	U		0.000428	0.0226	1	08/10/2018 03:20	WG1147937	
Hexachlorobenzene	U		0.000254	0.0226	1	08/10/2018 03:20	WG1147937	
Methoxychlor	U		0.000300	0.0226	1	08/10/2018 03:20	WG1147937	
Chlordane	U		0.0442	0.226	1	08/10/2018 03:20	WG1147937	
Toxaphene	U		0.0408	0.453	1	08/10/2018 03:20	WG1147937	
(S) Decachlorobiphenyl	88.4			10.0-148		08/10/2018 03:20	WG1147937	
(S) Tetrachloro-m-xylene	81.4			21.0-146		08/10/2018 03:20	WG1147937	
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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.0		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.55		0.722	2.22	1	08/07/2018 16:16	WG1146936
Lead	5.21		0.211	0.556	1	08/07/2018 16:16	<u>WG1146936</u>

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	[°] Sr j
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000259	0.0222	1	08/10/2018 03:34	WG1147937	7
Alpha BHC	U		0.000215	0.0222	1	08/10/2018 03:34	WG1147937	QC
Beta BHC	U		0.000337	0.0222	1	08/10/2018 03:34	WG1147937	8
Delta BHC	U		0.000168	0.0222	1	08/10/2018 03:34	WG1147937	Ğl
Gamma BHC	U		0.000272	0.0222	1	08/10/2018 03:34	WG1147937	
4,4-DDD	0.000253	J	0.000182	0.0222	1	08/10/2018 03:34	WG1147937	⁹ AI
4,4-DDE	0.000977	J	0.000183	0.0222	1	08/10/2018 03:34	WG1147937	
4,4-DDT	0.00141	JP	0.000296	0.0222	1	08/10/2018 03:34	WG1147937	10
Dieldrin	U		0.0000989	0.00222	1	08/10/2018 03:34	WG1147937	Sc
Endosulfan I	U		0.000238	0.0222	1	08/10/2018 03:34	WG1147937	
Endosulfan II	U		0.000256	0.0222	1	08/10/2018 03:34	WG1147937	
Endosulfan sulfate	U		0.000189	0.0222	1	08/10/2018 03:34	WG1147937	
Endrin	U		0.000243	0.0222	1	08/10/2018 03:34	WG1147937	
Endrin aldehyde	U		0.000269	0.0222	1	08/10/2018 03:34	WG1147937	
Endrin ketone	U		0.000177	0.0222	1	08/10/2018 03:34	WG1147937	
Heptachlor	U		0.000112	0.0222	1	08/10/2018 03:34	WG1147937	
Heptachlor epoxide	U		0.000420	0.0222	1	08/10/2018 03:34	WG1147937	
Hexachlorobenzene	U		0.000249	0.0222	1	08/10/2018 03:34	WG1147937	
Methoxychlor	U		0.000295	0.0222	1	08/10/2018 03:34	WG1147937	
Chlordane	U		0.0433	0.222	1	08/10/2018 03:34	WG1147937	
Toxaphene	U		0.0400	0.445	1	08/10/2018 03:34	WG1147937	
(S) Decachlorobiphenyl	85.3			10.0-148		08/10/2018 03:34	WG1147937	
(S) Tetrachloro-m-xylene	78.4			21.0-146		08/10/2018 03:34	WG1147937	

Collected date/time: 07/30/18 13:05

SAMPLE RESULTS - 10 L1014122

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.7		1	08/06/2018 13:35	WG1148132

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.49		0.717	2.21	1	08/07/2018 16:18	WG1146936
Lead	1.26		0.210	0.551	1	08/07/2018 16:18	<u>WG1146936</u>

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000257	0.0221	1	08/10/2018 03:49	WG1147937	7 Oc
Alpha BHC	U		0.000213	0.0221	1	08/10/2018 03:49	WG1147937	QC
Beta BHC	U		0.000334	0.0221	1	08/10/2018 03:49	WG1147937	8
Delta BHC	U		0.000167	0.0221	1	08/10/2018 03:49	WG1147937	ĞI
Gamma BHC	U		0.000270	0.0221	1	08/10/2018 03:49	WG1147937	
4,4-DDD	U		0.000181	0.0221	1	08/10/2018 03:49	WG1147937	⁹ 11
4,4-DDE	U		0.000182	0.0221	1	08/10/2018 03:49	WG1147937	
4,4-DDT	U		0.000293	0.0221	1	08/10/2018 03:49	WG1147937	10
Dieldrin	U		0.0000981	0.00221	1	08/10/2018 03:49	WG1147937	Sc
Endosulfan I	U		0.000236	0.0221	1	08/10/2018 03:49	WG1147937	
Endosulfan II	U		0.000254	0.0221	1	08/10/2018 03:49	WG1147937	
Endosulfan sulfate	U		0.000187	0.0221	1	08/10/2018 03:49	WG1147937	
Endrin	U		0.000241	0.0221	1	08/10/2018 03:49	WG1147937	
Endrin aldehyde	U		0.000267	0.0221	1	08/10/2018 03:49	WG1147937	
Endrin ketone	U		0.000175	0.0221	1	08/10/2018 03:49	WG1147937	
Heptachlor	U		0.000111	0.0221	1	08/10/2018 03:49	WG1147937	
Heptachlor epoxide	U		0.000417	0.0221	1	08/10/2018 03:49	WG1147937	
Hexachlorobenzene	U		0.000247	0.0221	1	08/10/2018 03:49	WG1147937	
Methoxychlor	U		0.000292	0.0221	1	08/10/2018 03:49	WG1147937	
Chlordane	U		0.0430	0.221	1	08/10/2018 03:49	WG1147937	
Toxaphene	U		0.0397	0.441	1	08/10/2018 03:49	WG1147937	
(S) Decachlorobiphenyl	87.5			10.0-148		08/10/2018 03:49	<u>WG1147937</u>	
(S) Tetrachloro-m-xylene	83.2			21.0-146		08/10/2018 03:49	WG1147937	

SAMPLE RESULTS - 11

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.7		1	08/06/2018 13:12	WG1148165

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.42		0.732	2.25	1	08/07/2018 15:12	WG1146936
Lead	2.92		0.214	0.563	1	08/07/2018 15:12	WG1146936

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶ Sr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.000263	0.0225	1	08/10/2018 04:04	WG1147937	700
Alpha BHC	U		0.000217	0.0225	1	08/10/2018 04:04	WG1147937	QC
Beta BHC	U		0.000341	0.0225	1	08/10/2018 04:04	WG1147937	8
Delta BHC	U		0.000170	0.0225	1	08/10/2018 04:04	WG1147937	Ğl
Gamma BHC	U		0.000276	0.0225	1	08/10/2018 04:04	WG1147937	
4,4-DDD	U		0.000185	0.0225	1	08/10/2018 04:04	WG1147937	⁹ A I
4,4-DDE	0.000205	J	0.000186	0.0225	1	08/10/2018 04:04	WG1147937	A
4,4-DDT	U		0.000300	0.0225	1	08/10/2018 04:04	WG1147937	10
Dieldrin	U		0.000100	0.00225	1	08/10/2018 04:04	WG1147937	Sc
Endosulfan I	U		0.000241	0.0225	1	08/10/2018 04:04	WG1147937	
Endosulfan II	U		0.000259	0.0225	1	08/10/2018 04:04	WG1147937	
Endosulfan sulfate	U		0.000192	0.0225	1	08/10/2018 04:04	WG1147937	
Endrin	U		0.000247	0.0225	1	08/10/2018 04:04	WG1147937	
Endrin aldehyde	U		0.000273	0.0225	1	08/10/2018 04:04	WG1147937	
Endrin ketone	U		0.000179	0.0225	1	08/10/2018 04:04	WG1147937	
Heptachlor	U		0.000114	0.0225	1	08/10/2018 04:04	WG1147937	
Heptachlor epoxide	U		0.000426	0.0225	1	08/10/2018 04:04	WG1147937	
Hexachlorobenzene	U		0.000252	0.0225	1	08/10/2018 04:04	WG1147937	
Methoxychlor	U		0.000299	0.0225	1	08/10/2018 04:04	WG1147937	
Chlordane	U		0.0439	0.225	1	08/10/2018 04:04	WG1147937	
Toxaphene	U		0.0406	0.451	1	08/10/2018 04:04	WG1147937	
(S) Decachlorobiphenyl	83.9			10.0-148		08/10/2018 04:04	WG1147937	
(S) Tetrachloro-m-xylene	80.1			21.0-146		08/10/2018 04:04	WG1147937	

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1014122-01.02.03.04.05.06.07.08.09.10

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Method Blank (MB)

(MB) R3331415-1 08/06/*	18 13:35			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1014122-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1014122-01 08/06/	18 13:35 • (DUP) F	R3331415-3 0	8/06/18 13:	35		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.2	85.8	1	1.91		10

Laboratory Control Sample (LCS)

(LCS) R3331415-2 08/06/18 13:35						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	%	%	%	%		
Total Solids	50.0	50.0	100	85.0-115		

SDG: L1014122 DATE/TIME: 08/13/18 09:22

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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(MB) R3331409-1 08/0	06/18 13:12			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1014963-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1014963-01 08/06/1	18 13:12 • (DUP) F	R3331409-3 C	8/06/18 13	:12		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.0	85.5	1	0.617		10

Laboratory Control Sample (LCS)

(LCS) R3331409-2 08/0	6/18 13:12				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1014122 DATE/TIME: 08/13/18 09:22

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1014122-01,02,03,04,05,06,07,08,09,10,11

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Method Blank (MB)

(MB) R3331727-1 08	/07/18 15:21			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.650	2.00
Lead	U		0.190	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3331727-8 08/07/18 18:38 • (LCSD) R3331727-9 08/07/18 18:40										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Arsenic	100	98.9	95.7	98.9	95.7	80.0-120			3.27	20
Lead	100	99.4	96.6	99.4	96.6	80.0-120			2.83	20

L1014122-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1014122-01 08/07/18	3 15:29 • (MS) R	3331727-6 08/	07/18 15:37 • (N	1SD) R3331727	-7 08/07/18 15	:40						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	119	9.12	123	123	96.2	96.2	1	75.0-125			0.0335	20
Lead	119	53.7	201	154	124	84.0	1	75.0-125		<u>13</u>	26.6	20

DATE/TIME: 08/13/18 09:22 Pesticides (GC) by Method 8081

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3331709-3 08/0	07/18 17:38			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200

Beta BHC	U	0.000303	0.0200
Delta BHC	U	0.000151	0.0200
Gamma BHC	U	0.000245	0.0200
4,4-DDD	U	0.000164	0.0200
4,4-DDE	U	0.000165	0.0200
4,4-DDT	U	0.000266	0.0200
Dieldrin	U	0.0000890	0.00200
Endosulfan I	U	0.000214	0.0200
Endosulfan II	U	0.000230	0.0200
Endosulfan sulfate	U	0.000170	0.0200
Endrin	U	0.000219	0.0200
Endrin aldehyde	U	0.000242	0.0200
Endrin ketone	U	0.000159	0.0200
Heptachlor	U	0.000101	0.0200
Heptachlor epoxide	U	0.000378	0.0200
Hexachlorobenzene	U	0.000224	0.0200
Methoxychlor	U	0.000265	0.0200
Chlordane	U	0.0390	0.200
Toxaphene	U	0.0360	0.400
(S) Decachlorobiphenyl	95.6		10.0-148
(S) Tetrachloro-m-xylene	93.7		21.0-146

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

LCS) R3331709-1 08/07/18 17:08 • (LCSD) R3331709-2 08/07/18 17:23										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Aldrin	0.0666	0.0567	0.0548	85.1	82.3	55.0-137			3.41	29
Alpha BHC	0.0666	0.0550	0.0534	82.6	80.2	55.0-136			2.95	28
Beta BHC	0.0666	0.0507	0.0497	76.1	74.6	53.0-133			1.99	28
Delta BHC	0.0666	0.0531	0.0520	79.7	78.1	53.0-139			2.09	29
Gamma BHC	0.0666	0.0544	0.0531	81.7	79.7	54.0-136			2.42	29
4,4-DDD	0.0666	0.0575	0.0562	86.3	84.4	51.0-141			2.29	29
4,4-DDE	0.0666	0.0587	0.0566	88.1	85.0	53.0-142			3.64	30
4,4-DDT	0.0666	0.0635	0.0619	95.3	92.9	47.0-143			2.55	30
Dieldrin	0.0666	0.0586	0.0568	88.0	85.3	54.0-141			3.12	29
Endosulfan I	0.0666	0.0564	0.0548	84.7	82.3	54.0-141			2.88	29

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Pesticides (GC) by Method 8081

QUALITY CONTROL SUMMARY

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3331709-1 08/07/18 17:08 • (LCSD) R3331709-2 08/07/18 17:23										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Endosulfan II	0.0666	0.0554	0.0540	83.2	81.1	53.0-140			2.56	28
Endosulfan sulfate	0.0666	0.0555	0.0546	83.3	82.0	52.0-141			1.63	29
Endrin	0.0666	0.0592	0.0575	88.9	86.3	52.0-137			2.91	29
Endrin aldehyde	0.0666	0.0514	0.0510	77.2	76.6	30.0-127			0.781	31
Endrin ketone	0.0666	0.0579	0.0572	86.9	85.9	51.0-139			1.22	28
Heptachlor	0.0666	0.0603	0.0587	90.5	88.1	53.0-144			2.69	29
Heptachlor epoxide	0.0666	0.0567	0.0550	85.1	82.6	54.0-137			3.04	28
Hexachlorobenzene	0.0666	0.0488	0.0475	73.3	71.3	50.0-135			2.70	28
Methoxychlor	0.0666	0.0595	0.0590	89.3	88.6	49.0-145			0.844	29
(S) Decachlorobiphenyl				95.6	97.4	10.0-148				
(S) Tetrachloro-m-xylene				91.3	90.5	21.0-146				

L1014122-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1014122-01 08/10/18 01:06 • (MS) R3332622-1 08/10/18 01:21 • (MSD) R3332622-2 08/10/18 01:36

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Aldrin	0.0791	U	0.0296	0.0467	37.4	59.0	1	19.0-152		<u>J3</u>	44.9	24
Alpha BHC	0.0791	U	0.0282	0.0506	35.6	64.0	1	39.0-152	<u>J6</u>	<u>J3</u>	57.0	21
Beta BHC	0.0791	U	0.0258	0.0462	32.6	58.4	1	38.0-150	<u>J6</u>	<u>J3</u>	56.8	20
Delta BHC	0.0791	U	0.0289	0.0472	36.5	59.6	1	34.0-155		<u>J3</u>	48.1	21
Gamma BHC	0.0791	0.000826	0.0283	0.0487	35.7	61.6	1	38.0-153	<u>J6</u>	<u>J3</u>	53.1	21
4,4-DDD	0.0791	0.00204	0.0358	0.0529	42.6	64.2	1	22.0-160		<u>J3</u>	38.6	25
4,4-DDE	0.0791	0.00624	0.0395	0.0572	42.0	64.3	1	10.0-160		<u>J3</u>	36.7	27
4,4-DDT	0.0791	0.0227	0.0625	0.0976	50.3	94.6	1	10.0-160		<u>J3</u>	43.8	28
Dieldrin	0.0791	0.0548	0.0744	0.121	24.8	83.9	1	30.0-158	<u>J6</u>	<u>J3</u>	47.9	25
Endosulfan I	0.0791	U	0.0348	0.0491	44.0	62.0	1	31.0-155		<u>J3</u>	34.0	25
Endosulfan II	0.0791	U	0.0333	0.0526	42.0	66.5	1	32.0-156		<u>J3</u>	45.1	25
Endosulfan sulfate	0.0791	U	0.0367	0.0559	46.4	70.6	1	31.0-158		<u>J3</u>	41.3	24
Endrin	0.0791	U	0.0374	0.0512	47.3	64.7	1	30.0-149		<u>J3</u>	31.1	25
Endrin aldehyde	0.0791	U	0.0828	0.0588	105	74.3	1	20.0-157	<u>P</u>	<u>J3</u>	33.9	26
Endrin ketone	0.0791	U	0.0328	0.0555	41.4	70.1	1	32.0-154		<u>J3</u>	51.4	23
Heptachlor	0.0791	U	0.0345	0.0538	43.5	68.0	1	18.0-160		<u>J3</u>	43.9	23
Heptachlor epoxide	0.0791	U	0.0335	0.0474	42.3	59.9	1	31.0-154		<u>J3</u>	34.4	25
Hexachlorobenzene	0.0791	U	0.0304	0.0506	38.4	64.0	1	26.0-146		<u>J3</u>	49.9	21
Methoxychlor	0.0791	U	0.0398	0.0643	50.3	81.2	1	10.0-160		<u>J3</u>	47.0	27
(S) Decachlorobiphenyl					45.3	73.0		10.0-148				
(S) Tetrachloro-m-xylene					42.3	64.7		21.0-146				

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ACCOUNT: McCloskey Consulting - Danville, CA PROJECT:

SDG: L1014122 DATE/TIME: 08/13/18 09:22

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GLOSSARY OF TERMS

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
Р	RPD between the primary and confirmatory analysis exceeded 40%.

SDG: L1014122

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska
Alaska	17-026	Nevada
Arizona	AZ0612	New Hamp
Arkansas	88-0469	New Jersey
California	2932	New Mexic
Colorado	TN00003	New York
Connecticut	PH-0197	North Caro
Florida	E87487	North Caro
Georgia	NELAP	North Caro
Georgia ¹	923	North Dako
ldaho	TN00003	Ohio–VAP
Illinois	200008	Oklahoma
Indiana	C-TN-01	Oregon
lowa	364	Pennsylvar
Kansas	E-10277	Rhode Islar
Kentucky ¹⁶	90010	South Caro
Kentucky ²	16	South Dako
Louisiana	AI30792	Tennessee
Louisiana ¹	LA180010	Texas
Maine	TN0002	Texas ⁵
Maryland	324	Utah
Massachusetts	M-TN003	Vermont
Michigan	9958	Virginia
Minnesota	047-999-395	Washington
Mississippi	TN00003	West Virgin
Missouri	340	Wisconsin
Montana	CERT0086	Wyoming

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee ¹⁴	2006
Texas	T 104704245-17-14
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA
-	

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

McCloskey Consulting - Danville, CA

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



L1014122

PAGE: 24 of 26

08/13/18 09:22



	1		Billing Inte	ormation:			1	-	1	Analysis / C	Container / F	reservative	-	Chain of Custor	dy Page of
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roject Los Altos High Scho escription:	lol			City/State Collected:	Los Altos, CA							6		Phone: 615-758-5 Phone: 800-767-5 Fax: 615-758-585	858 859 9
hone: 925. 786.2667 ax:	Client Project	#		Lab Project	. #	1		1						L# L10	14122
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55-4 @ 0-42'			1		12:52	TT	X	X	X		100			3	04
59-5 C 1/-1'			1/2-1'		12:04		X	X		1.1.1				1.000	65
SS-6 C 1/2-1'			1/2-1'	-	11:56	1	X	×							06
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55-8 C 1/2-1'			1/2-1'		12:14	17	X	X			100				09
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ASBESTOS TEM LABORATORIES, INC.

EPA Quantitative Bulk Test Method Transmission Electron Microscopy Analytical Report

Laboratory Report # 359829

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com



Aug/28/2018

Tom McCloskey McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526

RE: <u>LABORATORY REPORT #359829</u> Transmission electron microscopy analytical results for 3 bulk material sample(s). Job Site: Los Altos High School Job No.:

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to $\sim 3/8"$ gravel size. If the submitted sample was >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, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~ 60 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids in dimethyl sulfoxide and acetone wick washers. After sufficient time to dissolve the filter material, the TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

Sincerely Yours,

R. me Pai

Laboratory Manager

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Contact:	Tom McCloske	y				REPORT NO	<u>. 359829</u>
Address:	McCloskey Con	sultants	+			Date:	<u>Aug-28-18</u>
	Danville, CA 9	4526	ι			Date Received:	<u>Aug-23-18</u>
Job Site /	Los Altos High	School			Tota	l Samples Analyzed:	3
110.					SAM	PLE DESCRIPT	ION
Client Sar	nple # SS	-1 @0-0.5'			GAN		
Laboratory S	Sample # 1340-01	090-001					
		SAM	IPLE PREPA	AR	ATION PARAMI	ETERS	
Weight o	of Material Susper	nded (mg):	59.18		Filter Type	& Pore Size <u>M</u>	CE0.22um
Volume	of Suspension Wa	ter (ml):	500		Effective Fi	lter Area (sq.mm)	346
Volume	of Suspension Fil	tered (ml):	0.5				
DI	ASBES ETECTED IN	STOS SCAN AR	EA		CALCU CONCENT	LATED ASBEST FRATION (WEI	FOS GHT %)
CHR	YSOTILE	AMPH	IBOLE		CHRYSOTILE	AMPHIBOLE	ΤΟΤΑΙ
< 5 μm	≥ 5 µm	< 5 µm	≥5 µm				TOTAL
NSD	NSD	NSD	NSD		<0.0001	<0.0001	<0.0001
			COMN	/EN	ITS		
No Asbestos	Detected				Filter Loading:	Moderate	
					SAED Photo ID N	los.	
		TEM / A	ANALYTIC	AL	PARAMETERS		
Grid Op. # Sc. Fiber	anned For Large	20	Grid Area	(sq.ı	nm) <u>0.0086</u>	Bundle Scan Area (s	q.mm)0.172
Grid Op. # Sc.	anned For Small	20	Grid Area	(sq.1	nm) <u>0.0086</u>	Fiber Scan Area (sq.	mm) <u>0.172</u>
Fiber	s & Bundles		Magnificatio	on:	18,000X		
	NOTATION K	EY			4	to M.	1
Chrys Chrysotil Amph Amphibo NSD - No Structur Non-Ash - Non-A	e Asbestos le Asbestos res Detected Asbestos	1 um = 1 mic 1 mm = 1 mil 1 sq.mm = 1 sq.mm 1 cc = 1 cubic	ron = 0.001 mn limeter square millimet	n er	Analyst Sig Meg	gnature Sumner - M	lane
1,011 1,50, 11,011-7					Lab QC R	eviewer Signature	
ASBESTOS TEM www.asbes	LABORATORIE	S, INC.	600 BANC	CROI	FT WAY, STE. A, BE Vith Offices in Reno, A	RKELEY, CA 947, 5 (NV (775) 359-3377	1 0) 704-8930

Contact:	Tom McCloske	У				REPORT NO). <u>359829</u>	
Address:	McCloskey Cor	nsultants	st			Date:	<u>Aug-28-18</u>	
	Danville, CA 9	valley Rd we	st			Date Received:	<u>Aug-23-18</u>	
Job Site /	Los Altos High	School			Tota	l Samples Analyzed:	3	
110.					SAM	PLE DESCRIPT	ION	
Client Sa	mple # S	S-8 @1-2'						
Laboratory	Sample # 1340-0	1090-002						
		SAN	IPLE PREP	ARA	TION PARAMI	ETERS		
Weight	of Material Suspen	nded (mg):	59.92		Filter Type	& Pore Size M	CE0.22um	
Volume	of Suspension Wa	ater (ml):	500		Effective Fi	lter Area (sq.mm)	346	
Volume	of Suspension Fil	tered (ml):	0.5					
D	ASBES ETECTED IN	STOS I SCAN AF	REA		CALCU CONCENT	LATED ASBEST	FOS GHT %)	
CHR	RYSOTILE	AMPE	IIBOLE	ſ	CHRYSOTILE	AMPHIBOLE	ΤΟΤΑΙ	
< 5 μm	≥ 5 µm	< 5 μm	≥5 µm	L			TOTIL	
NSD	NSD	8	NSD		<0.0001	0.031	0.031	
			COMN	/EN	ITS			-
Actinolite As	sbestos Detected				Filter Loading:	Moderate		
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Grid Op. # Sc	canned For Large	20	Grid Area	(sq.n	nm) <u>0.0086</u>	Bundle Scan Area (s	q.mm) 0.172	•
Grid Op. # Sc	canned For Small	20	Grid Area	(sq.n	nm)0.0086	Fiber Scan Area (sq.	mm)0.172	-
Fiber	rs & Bundles		Magnificatio	on:	18,000X			
	NOTATION K	EY				11 11	>	
Chrys Chrysotil	le Asbestos	 1 um = 1 mic	cron = 0.001 mm	n	\mathcal{O}	ta Meisi	hang	
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	Astesios	1 cc = 1 cubi			Lab QC Re	eviewer Signature		

Contact:	Tom McCloske	у					REPORT NO	. <u>359829</u>	
Address:	McCloskey Con	sultants	1				Date:	<u>Aug-28-18</u>	
	Danville, CA 9	4526	st				Date Received:	<u>Aug-23-18</u>	
Job Site /	Los Altos High	School				Tot	al Samples Analyzed:	3	
110.						SAN	IPLE DESCRIPT	ION	
Client Sa	mple # SS	5-11 @1-2'				SAN.			
Laboratory	Sample # 1340-0	1090-003							
		SAN	IPLE PREF	PAR	ATION PAR	RAM	IETERS		
Weight	of Material Susper	nded (mg):	59.56		Filter	Туре	e & Pore Size <u>M</u>	CE0.22um	
Volume	of Suspension Wa	ter (ml):	500		Effec	tive F	Filter Area (sq.mm)	346	
Volume	of Suspension Fil	tered (ml):	0.5						
D	ASBES ETECTED IN	STOS SCAN AR	REA		CA CON(LCU CEN	ULATED ASBEST TRATION (WEI	FOS GHT %)	
CHE	RYSOTILE	AMPH	IBOLE		CHRYSOT	TILE	AMPHIBOLE	TOTAL	
< 5 μm	$\geq 5 \mu m$	< 5 μm	≥5 µm						
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Grid Op. # So	canned For Large	20	Grid Area	a (sq.:	mm) <u>0.0086</u>	5	Bundle Scan Area (s	q.mm) 0.172	
Grid Op. # So	canned For Small	20	Grid Area	a (sq.:	mm)0.0086	5	Fiber Scan Area (sq.	mm) <u>0.172</u>	
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	NOTATION K	EY					4 11-	2 -	
Chrys Chrysoti Amph Amphibo NSD - No Structu Non-Asb Non-	le Asbestos ole Asbestos ıres Detected Asbestos	1 um = 1 mic 1 mm = 1 mi 1 sq.mm = 1 1 cc = 1 cubi	eron = 0.001 m llimeter square millime c centimeter	m eter		yst Si	ignature Summer - M	ang	
ASBESTOS TEM		S INC	600 BAN	CRO	Lab	QC F A, BF	Reviewer Signature ERKELEY, CA 9476	1 0) 704-8930	
www.asbe	stostemlabs.com	<i>b</i> , 11 (C.	000 B/11		With Offices in	Reno,	NV (775) 359-3377		

												-	359829										
-8	-	ASBE CALIFOI NEVAD/ You	STOS RNIA: 60 A: 1350 F U may also	S TEM 0 Bancroft Freeport B o email this	Way, Suit	DRAT e A, Berki Sparks, N Istody to <u>ce</u>	ORIES eley, CA 94 V 89431 DC@nsbesto	S CHA 1710 Pho Pho Istemiabs.cc	IN OF ne (510) 70 ne (775) 35	CUSTOI 04-8930 Fax (5) 9-3377 Fax (7) * denotes requ)Y 10) 704-8429 75) 359-2798 <i>lired field</i>	1											
Company: Mc(Yesley Carsu	tauts	Conti	oct." Tom	Mc Costav	1 /Chris	5 Vertin	Phon	e: 925	786.2667	Em	all: *											
Address: *420	Sycamore Va	lley Rd West	City:	" Daville	1	(State	"CA	Zip: 94526	Em	ail:											
Job Site:" LOS /	Altos High "	School		100	Job #:				PO #:		Em	ail:											
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Results Dun:*	DZHR D4H	R 0.6HR	D 8 HR	D 24 HR	ci 48 H	R = 3 DA	Y □4 DA	Y SDAY	D10 DAY	Hold Samp	les al	fter Hours: **	see below										
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Asbestos	II PLM Standard (E	PA 600/R-93-1)	1	11 PLM 400 P	C DPLN	1000 PC	IT PLM 40	O PC Grav. Re	d DP	TW 1000 NC Glan	Red. DTEM	EPA Qualitative	o TEM EPA Quantitatve										
BUR	m JEM Chatfield (S	em)-Quant)	3	PREP ONLY		D Custo	m Analysis:																
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Asbestos Dust	D ASTM D-5755 Fit	ber Count D	ASTM D-53	755 Wt. %	D AS	M D-5756 I	Mass	D ASTM	D-6480-99 D	ust Wipe	D Total Part	culates (Grav.)											
Asbestos Water	D 100.2 Potable Dr	inking Water DI	100.1 Non 1	Potable Wat	er o REPOI	RI TO STATE	: ED1 #		_	2.7	1000	127-08-1	And the second se										
Lead/Silica	D Lead Dust D Lead Air D Lead Spil D Silica Dust Airborne by NIOSH 7500 D Crystalline Silica (Single Species) D Silica Dust Bulk by NIOSH D Crystalline Silica in Sulk																						
Sample Storage	D No Test, Hold Un	til:	D Test AN	D Hold Until:		All somples w	ill be held for 3	months from t	ne wate of recei	ptatATEM Additio	nal sample stored	e time may be obtaine	d through ATTM Castomer Service.										
Custom Order	n Sensitivity:	a Comp	osite i	8 Hour TWA	o Sp	ecial Inst	ructions:																
REANALYSIS	Original Login/	Lot #	1	New An	alvsis Type:			TAT:		Special Instruc	tions:												
Sample # *	Sample Type	Date Collected	Time	Time	Total	Flow Rate (ipm)		Flow Rate (lpm)		Flow Rate (lpm)		Flow Rate (lpm)		Flow Rate (lpm)		Flow Rate (lpm)		m)	Volume on	Bold		Descrip	ation *
			Dn	Off	Time (min)	Dn	Off	Average	Area Sampled	Sample													
95-100.12'	Bulk Soil	7/30/18	12:23			-				a	-												
55-8e1-2'	1.1		12:16		1																		
55-11 e1-2'	1	1	11:44						1	0													
					1																		
									1	0													
										0													
						-																	
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	1									0													
1	11 1/1	11	1					-															
Submitted By +/-	In for					Received	Ву					MB											
Date/Time Submit	fted * 18/23/	18				Date/Tim	e Received					- Mar	(in) (interaction (in)										
Submitted By	1 1					Received I	Ву																
Date/Time Submi	ited					Date/Time	e Received	1															

** 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. Drap off and processing of somples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff.



ASBESTOS TEM LABORATORIES, INC.

CARB/EPA Quantitative Bulk Test Method Transmission Electron Microscopy Analytical Report

Laboratory Report # 367081

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com



Nov/14/2019

Tom McCloskey McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526

RE: <u>LABORATORY REPORT #367081</u> Transmission electron microscopy analytical results for 2 bulk material sample(s). Job Site: Los Altos High School Job No.:

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to $\sim 3/8"$ gravel size. If the submitted sample was $>\sim 1$ quart, the sample may have been split using a 1/2" riffle splitter following ASTM Method C-702-98 to reduce the sample volume for pulverization. The remaining aliquot, or entire original sample, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~ 60 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

Sincerely Yours,

R. me Poi

Laboratory Manager

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

Co	ontact:	Tom McCloskey	I					REPORT NO	<u>. 367081</u>	
A	ddress:	McCloskey Con	sultants	at				Date:	<u>Nov-13-19</u>	
		Danville, CA 94	4526	SL				Date Received:	<u>Nov-07-19</u>	
Jol	b Site / No	Los Altos High S	School				Tota	al Samples Analyzed:	2	
	110.						SAM	PLF DESCRIPT	ION	
С	lient Sam	ple # SS	-12@2-3'				07111			
L	aboratory Sa	mple # 1340-01	461-001							
			SAN	IPLE PREP	AR	ATION	PARAM	ETERS		
	Weight of	Material Suspen	ded (mg):	62.04			Filter Type	& Pore Size M	CE0.22um	
	Volume of	f Suspension Wat	ter (ml):	500			Effective Fi	ilter Area (sq.mm)	346	
	Volume of	f Suspension Filt	ered (ml):	0.5						
	AS DE	BESTOS ST TECTED IN	RUCTUR SCAN AF	ES REA	_	(CALCU CONCENT	LATED ASBEST FRATION (WEI)	TOS GHT %)	
	CHRY	SOTILE	AMPH	IBOLE		CHRY	YSOTILE	AMPHIBOLE	TOTAL	
	< 5 μm	≥sµm	< 5 µm	≥ 5 µm]					
	NSD	NSD	6	3		<	0.001	0.27	0.27	
		С	'OMMEN'	ГS						
А	ctinolite Asbe	estos Detected					Filter Load	ling: Moderate		
							SAED F	Photo		
							II	D Nos.		
			TEM /	ANALYTIC	AL	PARA	METERS			
Grie	d Op. # Scar	nned For Large	20	Grid Area	ı (sq.	mm)	0.0097	Bundle Scan Area (s	q.mm) 0.194	_
Grid	Fibers	a Bundles	1	Grid Area	ı (sq.	mm)	0.0097	Fiber Scan Area (sq.	mm)0.0097	_
	Fibers	& Bundles		Magnificati	on:	18,00	0X			
		νοτατιονι μι	7.57	_				1	_	
Chrvs	- Chrysotile	Ashestos	1 um = 1 mic	ron = 0.001 mm	n		\sim	Jan	T	
Amph.	- Amphibole	Asbestos	1 mm = 1 mi	llimeter	tor		Analyst Sig	gnature	- 1	
Non-As	sb Non-As	bestos	1 sq.nnn = 1 1 cc = 1 cubi	c centimeter	101		K '	me pour	-7	
							Lab QC R	eviewer Signature		
ASBES W	TOS TEM L ww.asbesto	ABORATORIE	S, INC.	600 BANG	CRO	FT WAY With Offi	, STE. A, BE ces in Reno,	RKELEY, CA 947(5 0 NV (775) 359-3377) 0) 704-8930	

Con	tact:	Tom McCloskey	7					REPORT NO). <u>367081</u>	
Add	lress:	McCloskey Con 420 Sycamore V	sultants alley Rd Wee	st				Date:	<u>Nov-13-19</u>	<u>)</u>
		Danville, CA 94	4526	51				Date Received:	<u>Nov-07-19</u>	<u>)</u>
Job S	Site /	Los Altos High S	School				Tota	al Samples Analyzed:	2	
							SAM	IPI F DESCRIPT	TION	
Cli	ent Samj	ple # SS-1	3@1 1/2-2	2'			GAN	I LE DESCRIT		7
Lab	oratory Sa	mple # 1340-01	461-002							
			SAN	IPLE PREP	PAR	ATION	N PARAM	ETERS		
	Weight of	Material Suspen	ded (mg):	58.95			Filter Type	& Pore Size <u>M</u>	CE0.22um	
	Volume of	Suspension Wat	ter (ml):	500			Effective Fi	ilter Area (sq.mm)	346	
	Volume of	f Suspension Filt	ered (ml):	0.5						
	AS DE	BESTOS ST FECTED IN	RUCTUR SCAN AR	ES REA		(CALCU CONCENT	ULATED ASBEST FRATION (WEI	FOS GHT %)	
	CHRY	SOTILE	AMPH	IBOLE		CHR	YSOTILE	AMPHIBOLE	TOTAL	
	< 5 µm	≥ 5 µm	< 5 µm	≥ 5 µm]					
	NSD	NSD	4	1		<	:0.001	0.77	0.77	
		С	OMMEN'	ГЅ						
Act	inolite Asbe	estos Detected.	ornblende) Of	served			Filter Load	ling: Moderate		
	i-Regulated		filliblende) of	5501 VCU.			SAED I	Photo		
							II	D Nos.		
			TEM /	ANALYTIC	CAL	PARA	METERS			
Grid (Op. # Scan	ned For Large	20	Grid Area	a (sq.	mm)	0.0097	Bundle Scan Area (s	sq.mm) <u>0.194</u>	
Grid C	Fibers	& Bundles	1	Grid Area	a (sa.	mm)	0.0097	Fiber Scan Area (sq.	.mm) 0.0097	1
ond c	Fibers	& Bundles		Magnificati	on:	18,00	00X			
				8					-	
Character (]]h	NOTATION KI	EY				~	Jan	I	
Amph A	Amphibole	Asbestos	1 mm = 1 min 1 mm = 1 min	llimeter			Analyst Si	gnature		
NSD - No Non-Ash	Structure	s Detected bestos	1 sq.mm = 1 1 cc = 1 cubi	square millime c centimeter	ter		R.	me kan		
							Lab QC R	eviewer Signature		
ASBEST	OS TEM L	ABORATORIE	S, INC.	600 BAN	CRO	FT WAY With Off	, STE. A, BE ices in Reno.	RKELEY, CA 947, NV (775) 359-3377	(0) 704-8930	

-8	-	ASBE	STOS	TEM	LAB	ORAT	ORIE	S CHA		CUSTO	DY 10) 704 9	420				
		NEVAD	A: 1350 Fr u may also	eeport Bl email this	vd. #104, chain of c	, Sparks, N ustody to co	V 89431	Pho pstemlabs.co	ne (775) 359	-3377 Fax (7 denotes requ	75) 359-2 lired field	798				
Company: MCL	- Mc Closler (ansultants	Conta	The The	McClo	slov		Phon	e: " 925.8	2786.2	24.7	Email: "Tom Q MC	closter consultants ca			
Address: * 420	Sycamore V	alla Rel Wes	+ City: *	Danvill	e	1		State	" CA Zi	p: 94526		Email:				
Job Site:* LOS A	Altos High S	School	. 0		Job #:				PO #:			Email:				
Reporting *	©Email V □Ph	one 🗆 Fax	🗆 Mail	a FTP	D Pickup	Billing	- 63	Fax u Em	nail U Mail	u Pre-Paid	u On Rece	sipt: 0 3	^a Party			
Results Due:*	02 HR 04 H	R 06HR	D 8 HR	🗆 24 HR	± 48 F	HR D3DA	Y 04 DA	Y OSDAN	10 DAY	D Hold Samp	ples	After Hours: **	see below			
Asbestos Air	TI PCM (NIOSH 740	0A 0 T	EM AHERA	D TEM C	ARB Mod.	AHERA	D TEM EP	A Yamate Levi	el II II IEA	A NIOSH 740Z		0 150 10312	0 150 13794			
Asbestos	PLM Standard (El	PA 600/R-93-1)	0	PLM 400 PM	C II PL	M 1000 PC	D PLM 40	O PC Grav. Re	ad. n PLA	/ 1000 PC Grav.	Red. ti	TEM EPA Qualitative	a TEM EPA Quantitatve			
Duik	pTEM Chatfield (Se	emi-Quant)	0	PREP ONLY		🗆 Custo	m Analysis:	**								
Asbestos Soils	CARB 435 Prep O	inly	CARB 43	5 PLM 400 I	PC	II CA	RB 435 PLM	1000 PC	EI EPA Se	oil Screening Qu	alitative	XTEM EPA/CARB	Quantitative			
Asbestos Dust	C ASTM D-5755 Fib	er Count 1	ASTM D-575	6 W1. %	DAS	STM D-5756	Mass	DASTM	D-6480-99 Dus	Wipe	I Total	Particulates (Gray.)				
Asbestos Water	D 100.2 Potable Dri	inking Water u	100.1 Non Pr	otable Wate	er a REPO	IRT TO STATE	EDT W									
Lead/Silica	D Lead Paint Chips	o Lead Dust Wipe	ti Lead Air Cassette	to Lead So	iil 🗆 Silid	a Dust Airbo	me by NIOS	H 7500 50	Crystalline Silica recles}	s (Single	C Silica Dust Bulk by NIDSH Crystalline Silica in Bulk 7500 (Single Species)					
Sample Storage	D No Test, Hold Un	Hit	Test AND	Hold Until:		All samples w	III be heid for 1	I months from I	the date of receipt	at ATEM. Additio	nini ranahija r	lorage time may be absolve	d through ATEM Customer Service.			
Custom Order	🗆 Sensitivity.	🗆 Comp	posite 8	Hour TWA	o Sp	pecial Instr	ructions:			-						
REANALYSIS	Original Login/	Lot #		New An	alysis Type:			TAT:		Special Instruc	ctions:					
Sample # *	Sample Type	Date Collected	Time	Time	Total	al Flow Rate (lpm)			Volume or	Hold	1	Descrip	tion *			
			On	Off	Time (min)	On	011	Average	Area Sampled	Sample						
55-12e 2-3	Soil	10-14-19	11:30			1	1			п						
55-13e112-2	Soil	10.15.19	11:34							п	1					
		1200														
	1									D	-					
									1							
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the second se	as him a	12.11.				Date Inter	- Mar 2014 - 2318									
Date/Time Submit	tted - //. / [9	15:20				Date/IIm	e Received						and the second s			

21-1081

** 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. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff.



ASBESTOS TEM LABORATORIES, INC.

CARB/EPA Quantitative Bulk Test Method Transmission Electron Microscopy Analytical Report

Laboratory Report # 367501

600 Bancroft Way, Ste. A Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429 www.asbestostemlabs.com



Dec/12/2019

Tom McCloskey/Chris McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526

RE: <u>LABORATORY REPORT #367501</u> Transmission electron microscopy analytical results for 4 bulk material sample(s). Job Site: Los Altos H.S. Job No.:

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to $\sim 3/8"$ gravel size. If the submitted sample was $>\sim 1$ quart, the sample may have been split using a 1/2" riffle splitter following ASTM Method C-702-98 to reduce the sample volume for pulverization. The remaining aliquot, or entire original sample, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~ 60 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

Sincerely Yours,

R. me Bri

Laboratory Manager

Disclaimer - These results relate only to the samples tested as received and must not be reproduced, except in full, with the approval of the laboratory. Incorrect or illegible information supplied by the customer may adversely affect the validity of test results.

0	Contact:	Tom McCloske	y/Chris					REPORT NO	<u>. 367501</u>						
I	Address:	McCloskey Con 420 Sycamore V	sultants /alley Rd We	st		Date: <u>Dec-12-19</u>									
		Danville, CA 9	4526	51				Date Received:	Dec-09-19						
J	ob Site /	Los Altos H.S.					Tete	l Comples Analyzadı							
	No.					Total Samples Analyzed: 4									
	Client S	ample #	BP-1		SAMPLE DESCRIPTION										
]	Laborator	y Sample # 1340-02	484-001												
	SAMPLE PREPARATION PARAMETERS														
	Weigh	t of Material Susper	nded (mg):	60.57		Filter Type	& Pore Size <u>M</u>	CE0.22um							
	Volum	e of Suspension Wa	ter (ml):	500			Effective Fi	ilter Area (sq.mm)	346						
	Volum	e of Suspension Fil	tered (ml):	0.5											
]	ASBESTOS ST DETECTED IN	RUCTUR SCAN AF	ES REA	CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)										
	CH	RYSOTILE	AMPH	IIBOLE		CHR	YSOTILE	AMPHIBOLE	TOTAL						
_	< 5 µ1	n ≥5µm	< 5 μm	≥ 5 µm]]										
	NSI	D NSD	16	2			<0.001	0.113	0.113						
		('OMMEN'	ТS				•							
l ſ	Regulated	Amphibole (15 Actino	lite) and Non-	Regulated Amph	ibole	(3	Filter Load	ling: Moderate							
	Hornblend	e) Asbestos Detected.													
						SAED Photo ID Nos.									
			TEM /	ANALYTIC	CAL	PARA	METERS								
			20	0.114	,		0.0007	Dundle Seen Area (a	a.mm) 0.194						
Gr	id Op. # S Fib	ers & Bundles	20	Grid Area	a (sq.	.mm)	0.0097	Bundle Scan Area (s	q.mm) <u> </u>	-					
Gri	id Op. # S	Scanned For Small	5	Grid Area	a (sq.	.mm)	0.0097	Fiber Scan Area (sq.	mm) <u>0.0485</u>	_					
	Pit	ers & Dundles		Magnificati	on:	15,0	00X								
		NOTATION K	EY				C	land	lan 2						
Chrys	Chryso	tile Asbestos	1 um = 1 mid	cron = 0.001 mm	m		A malwat Si		0						
Amph NSD -	Amphi No Struc	bole Asbestos tures Detected	1 mm = 1 mi 1 sq.mm = 1	square millime	ter	Analyst Signature									
Non-A	Asb Nor	-Asbestos	1 cc = 1 cubi	c centimeter											
1 CE -	000000		a Dic				Lab QC R	eviewer Signature	10) 704 9020						
ASBE	s fos tE www.asb	M LABORATORIE	5, INC.	600 BAN	FT WAY, STE. A, BERKELEY, CA 947 50 0) 704-8930 With Offices in Reno, NV (775) 359-3377										

Contact: Tom McCloskey/Chris REPORT NO. 3	67501											
Address: McCloskey Consultants Date: 420 Sycamore Valley Rd West 1	Dec-12-19											
Danville, CA 94526 Date Received:	Dec-09-19											
Job Site / Los Altos H.S. No. Total Samples Analyzed:	4											
	T											
Client Sample # BP-2	1											
Laboratory Sample # 1340-01484-002												
SAMPLE PREPARATION PARAMETERS												
Weight of Material Suspended (mg): 60.62 Filter Type & Pore Size MCE0.2	22um											
Volume of Suspension Water (ml): 500 Effective Filter Area (sq.mm) 346	<u>5</u>											
Volume of Suspension Filtered (ml): 0.5												
ASBESTOS STRUCTURES DETECTED IN SCAN AREA CONCENTRATION (WEIGHT	`%)											
CHRYSOTILE AMPHIBOLE CHRYSOTILE AMPHIBOLE TO	OTAL											
$<5\mu\text{m}$ $\geq 5\mu\text{m}$ $< 5\mu\text{m}$ $\geq 5\mu\text{m}$												
NSD NSD 21 1 <0.001 0.421	0.421											
COMMENTS												
Regulated Amphibole (18 Actinolite) and Non-Regulated Amphibole (4 Filter Loading: Moderate												
SAED Photo	SAED Dhoto											
ID Nos.												
TEM / ANALYTICAL PARAMETERS												
Grid Op. # Scanned For Large 20 Grid Area (sq.mm) 0.0097 Bundle Scan Area (sq.mm)	0.194											
Fibers & Bundles	0.0097											
Fibers & Bundles												
Magnification:												
NOTATION KEY	7											
	Analyst Signature											
Chrys Chrysotile Asbestos1 um = 1 micron = 0.001 mmAnalyst SignatureAmph Amphibole Asbestos1 mm = 1 millimeterAnalyst Signature												
Chrys Chrysotile Asbestos1 um = 1 micron = 0.001 mmAnalyst SignatureAmph Amphibole Asbestos1 mm = 1 millimeterAnalyst SignatureNSD - No Structures Detected1 sq.mm = 1 square millimeterIlora DungmanNon-Asb - Non-Asbestos1 cc = 1 cubic centimeterIlora Dungman												
Chrys Chrysotile Asbestos1 um = 1 micron = 0.001 mmAmph Amphibole Asbestos1 um = 1 milimeterAmph Amphibole Asbestos1 mm = 1 milimeterAnalyst SignatureNSD - No Structures Detected1 sq.mm = 1 square millimeterI cc = 1 cubic centimeterNon-Asb Non-Asbestos1 cc = 1 cubic centimeterLab QC Reviewer Signature												

Contac	rt: '	Tom McCloskey	/Chris					REPORT NO). <u>367501</u>							
Addres	ss: l	McCloskey Con 420 Sycamore V	sultants Valley Rd Way	st		Date: <u>Dec-12-19</u>										
]	Danville. CA 94	aney Ku wes 1526	51				Date Received:	Dec-09-19							
Job Site	e/ l	Los Altos H.S.						Duc Recented	<u></u>							
No).						Tota	Il Samples Analyzed:	4							
Clion	t Samı	alo #	DD 2				SAM	PLE DESCRIPT	TION	1						
Chen	t Sam		BP-3													
Labora	atory Sa	mple # 1340-01	484-003													
	SAMPLE PREPARATION PARAMETERS															
We	Weight of Material Suspended (mg): 62.2 Filter Type & Pore Size MCE0.22um															
Vo	olume of	Suspension Wat	ter (ml):	500		Effective Filter Area (so mm) 346										
Volume of Suprension Filtered (ml): 0.5																
V(volume of Suspension Filtered (ml):															
	AS DE	BESTOS ST FECTED IN	RUCTUR SCAN AR	ES REA	CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)											
	CHRY	SOTILE	AMPH	IBOLE]				ТОТАТ	7						
< !	5 µm	\geq 5 μ m	< 5 µm	≥5 µm]	СНК	YSOTILE	AMPHIBOLE	IOIAL							
N	SD	NSD	19	NSD			<0.001	0.057	0.057							
				DQ												
Regula	ated Amn	hibole (15 Actino	UMMEN	IS Regulated Amph	ihole	(4	Filtor Load	ling: Moderate								
Hornb	lende) A	sbestos Detected.	inc) and i ton i		10010	(Filter Load	ing. Moderate								
						SAED Photo										
) Nos.								
			TEM / A	ANALYTIC	CAL	PARA	METERS									
Grid Op	. # Scan	ned For Large	20	Grid Area	a (sq.	mm)	0.0097	Bundle Scan Area (s	q.mm)0.194	_						
	Fibers d	& Bundles	5	C : 1 A		、 	0.0097	Eiber Seen Area (ag	mm) 0.0485							
Grid Op.	# Scan Fibers d	ned For Small . & Bundles		Grid Area	a (sq.	mm)	0.0097	Fiber Scall Area (sq.	IIIII) <u></u>	_						
				Magnificati	on:											
	1	NOTATION KI	EY					Ter A								
Chrys Chr	rysotile A	Asbestos	1 um = 1 mic	aron = 0.001 mm	m		Analyst St	mature								
Amph Am NSD - No S	ipnibole tructures	Aspestos s Detected	1 min = 1 min 1 sq.mm = 1	square millime	ter			ma Dinama	n							
Non-Asb	Non-Asł	pestos	1 cc = 1 cubi	c centimeter				y								
							Lab QC R	eviewer Signature								
ASBESTOS <u>www.</u>	SBESTOS TEM LABORATORIES, INC.600 BANCROFT WAY, STE. A, BERKELEY, CA 947(500) 704-8930www.asbestostemlabs.comWith Offices in Reno, NV (775) 359-3377															

Conta	act:	Tom McCloskey	/Chris					REPORT NO). <u>367501</u>						
Addr	ess:	McCloskey Con 420 Sycamore V	sultants Valley Rd Way	st		Date: <u>Dec-12-19</u>									
		Danville, CA 94	4526	St.				Date Received:	Dec-09-19						
Job Si	ite /	Los Altos H.S.						2 1							
N	No.						Tota	Il Samples Analyzed:	4						
Clie	nt Sam	plo#					SAM	PLE DESCRIPT	TION	1					
Che	nt Samj		01-1												
Labo	ratory Sa	mple # 1340-01	484-004												
SAMPLE PREPARATION PARAMETERS															
Weight of Material Suspended (mg): 59.88 Filter Type & Pore Size MCE0.22um															
v	/olume of	Suspension Wat	ter (ml):	500			Effective Fi	ilter Area (sq.mm)	346						
, v	Volume of Suspension Filtered (ml): 0.5														
	AS DE	BESTOS ST FECTED IN	RUCTUR SCAN AR	ES REA	CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)										
	CHRY	SOTILE	AMPH	IBOLE		СШР	VSOTIL F		тотат						
<	: 5 µm	≥ 5 µm	< 5 µm	$\geq 5 \ \mu m$		СПК	ISUILLE	AMPHIBULE	IUIAL						
	NSD	NSD	14	NSD		<	<0.001	0.062	0.062						
			OMMEN	ГС				i							
Regu	lated Amr	hibole (12 Actino	lite) and Non-l	Regulated Amph	ibole	(2	Filter Load	ing: Moderate							
Horn	blende) Å	sbestos Detected.	,	6											
						SAED Photo									
								1105.							
			TEM / A	ANALYTIC	AL	PARA	METERS								
Grid O	p. # Scan	ned For Large	20	Grid Area	a (sq.	.mm)	0.0097	Bundle Scan Area (s	sq.mm) 0.194	_					
	Fibers	& Bundles	5	G : 1 A	1	、 、	0.0097	Fiber Seen Area (ag	mm) 0.0485						
Grid Op	p. # Scan Fibers	ned For Small & Bundles		Grid Area	a (sq.	.mm)	0.0097	Fiber Scall Area (sq.		_					
				Magnificati	on:										
]	NOTATION KI	EY					100 A	×-						
Chrys Ch	hrysotile	Asbestos	1 um = 1 mic	ron = 0.001 mi	m		Analyst Si								
Ampn An NSD - No	Structure:	Aspestos s Detected	1 sq.mm = 1 mm 1 sq.mm = 1	square millime	ter			ana Dinama	n						
Non-Asb	- Non-As	bestos	1 cc = 1 cubi	c centimeter											
	a ======		a n.c					eviewer Signature	40) 704 0020						
ASBESTO www	S TEM L v.asbesto	ABORATORIE	S, INC.	600 BAN	CRO	FT WAY With Off	(, STE. A, BE fices in Reno,	RKELEY, CA 947⊅ NV (775) 359-3377	U U) /04-8930						

36750	ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY CALIFORNIA: 500 Bancroft Way, Suite A, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429 NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798 You may also email this chain of custody to core@astreatemiobs.com * denotes required field	a contract. Tom McClaster / Chris Vertix Phone: ATTER 975 786, 24671 Email: Fange me closter Consultants con	d West Gar: Danville State: OA 210: 64576 Email: alore & Constrance tal Com	Ich #: For #: Email:	In Fax In Mail I of FTP ID Pickup Billing D Fax D Email D Mail D Pre-Paid D On Receipt: D 3" Porty	E 6HR E B HR EL-24 HR E A 8 HR (X3 DAV) E 4 DAV LE DAY LED DAY E HIELD AT B HELD Sumples After Hours: ** see below	D TEM AHEHA D TEM CARB Mod AHERA D TEM EPA Yamate Level II U TEM NIDSH 7402 U ISO 10312 U ISO 13794	2/R-93-1) DPLM 400 PC DPLM 1000 PC Grav, Red. Dr 3UM 1000 PC Grav, Red. Dr 7EM EPA Qualitative D TEM EPA Quantitative	uant) OPREP DNLY D.C.Ustom Analysik: **	D CAR8 435 PUM 400 PC D CARB 435 PUM 1000 PC D EPA Soll Screening Qualitative XTEM EPA/CARB Quantitative	ent a ASIM D-5756 WL % D ASTM D-5756 Mass D ASTM D-6480-99 Dust Wipe D Total Particulates (Grav.)	Water ID 100.1 Non Potable Water ID REPORT TO STATE: EDT #	ead Dust a Lead Air Jupad Soil Disifica Dust Airborne by NIOSH 7500 a Crystalline Silica (Single a Silica Dust Bulk by NIOSH a Crystalline Silica in Bulk Cassette Cassette Cassette	Test AND Hold Until: An summer, will be held for 3 months from the other of receipt of ATEM. Additional somple storage time may be obtained through ATEM Customer Service.	D Composite B Hour TWA D Special Instructions:	/ New Analysis Type: TAT: Special Instructions:	ate Callected Time Time Total How Rate (Ipm) Volume or Hold Description Description	V vol es even	-0-10 10 04	13:37	1541 1 12 112 112 112 112 112 112 112 112		n			Received By	Date/Time Received	Received By	
	STOS TEM L NA: 600 Bancroft W 1350 Freeport Blvd. may also email this cho	Contact." Tom	Contact." Tom	City: * Danul		n Mail 10 ETP	DI BHR D-24 HR	EMAHERA DI TEMIC	DI PLM 400 PC	O PREP ONLY	D CAR8 435 PLM 400 P	ASIM D-S756 WE %	100.1 Non Potable Wate	o Lead Air D Lead Sol Cassette	I Test AND Hold Until:	osite B Hour TWA	I. New Ana	Time Time On Off	1.0 2.	15 24	15:37	1541	64.61						
ASBE CALIFOF NEVAD/ You	orgultants	are Vallev Rol West	H.S.	1 In Phone They	D4HR D6HR	NIOSH 7400A	tandard (EPA 600/R-93-1)	chatfield (Semi-Quant)	435 Prep Only	D-5755 Fiber Coent a	Potable Drinking Water 13	Paint In Lead Dust Wipe	st. Hold Until:	ivity: 0 Comp	tinal Login/Lot#	Ne Type Date Collected	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-1-11-11		-				1/1	1 T	Det 9.19 -			
Ç		Company: MrC(62key C	Address: + 420 3rcdm	Job Site:* Las Altos	Reporting * D Ema	Results Due:* a 2 HR	Asbestos Air II PCM (Asbestos II PLM S	DININ	Asbestos Soils 10 CARB	Asbestos Dust a ASTM	Asbestos Water 0 100.2	Lead/Silica o Lead F	Sample Storage III No Te.	Custom Order to Sensiti	REANALYSIS Orig	Sample # * Samp	100	1-10	1 7-19	51-2				111	Submitted By • ///-	Date/Time Submitted • /	Submitted By	

Any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, af more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff.



ASBESTOS TEM LABORATORIES, INC.

CARB Method 435 Polarized Light Microscopy Analytical Report

Laboratory Job # 1340-01483

630 Bancroft Way Berkeley, CA 94710 (510) 704-8930 FAX (510) 704-8429



CA DPH ELAP

NVLAP Lab Code: 101891-0 Berkeley, CA

Dec/12/2019

Tom McCloskey/Chris McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526

RE: LABORATORY JOB # 1340-01483

Polarized light microscopy analytical results for 4 bulk sample(s). Job Site: Job No.: Los Altos H.S.

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 $\sim 3/8"$ 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, R me Be

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

Contact:Tom McCloskey/Chris Vertin

Samples Submittec 4

amples Analyzed: 4

Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526

Samples Analyzed: 4 Job Site / No. Los Altos H.S. Report No.**367500**Date Submitted:Dec-09-19Date Reported:Dec-10-19

SAMPLE ID	AS POINTS COUNTED %	BESTOS TYPE	LOCATION / DESCRIPTION
BP-1	<0.25%	None Detected	
Lab ID # 1340-01483-001	400 - Total Points		No Asbestos Detected
BP-2	<0.25%	None Detected	No Aspestos Detected
Lab ID # 1340-01483-002	400 - Total Points		
BP-3	<0.25%	None Detected	
Lab ID # 1340-01483-003	400 - Total Points		No Asbestos Detected
UT-1	<0.25%	None Detected	
Lab ID # 1340-01483-004	400 - Total Points		No Asbestos Detected
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		-
Lab ID #	- Total Points		
Lab ID #	- Total Points		
Lab ID #	- Total Points		

QC Reviewer R me Buil

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ASBESTOS TEM LABORATORIES, INC. 600 BANCROFT WAY, STE. A, BERKELEY, CA 94710 PH. (510) 704-8930

Appendix C

Remediation Documentation and Weigh Tags



Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos H.S.

Work Order No.: 1910130

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 7 sample(s) on October 14, 2019 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

October 15, 2019 Date



Date: 10/15/2019

Client: McCloskey Consultants Project: Los Altos H.S. Work Order: 1910130

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 Analytical, Inc.


Sample Result Summary

Report prepared for:	Tom McCloskey				Date	Received: 1	0/14/19
	McCloskey Consultants				Date	Reported: 1	0/15/19
EX-A-SW-1	-					- 19 ⁻	10130-001
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	19.8	mg/Kg
gamma-Chlordane		SW8081B	10	1.6	20	2.52	ug/Kg
alpha-Chlordane		SW8081B	10	1.7	20	2.08	ug/Kg
4,4'-DDE		SW8081B	10	1.9	20	6.31	ug/Kg
Dieldrin		SW8081B	10	1.5	20	54.2	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	17.0	ug/Kg
EX-A-SW-2						19 [.]	10130-002
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	15.8	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	29.6	ug/Kg
Dieldrin		SW8081B	10	1.5	20	4.23	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	5.04	ug/Kg
EX-A-SW-3						19 [.]	10130-003
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	22.7	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	80.8	ug/Kg
Dieldrin		SW8081B	10	1.5	20	1.87	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	8.85	ug/Kg
EX-A-SW-4						19 ⁻	10130-004
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	22.4	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	67.0	ug/Kg
Dieldrin		SW8081B	10	1.5	20	8.17	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	13.8	ug/Kg
EX-A-B-1A@1 1/2'						19 [.]	10130-005
Parameters:		<u>Analysis</u> Method	<u>DF</u>	MDL	PQL	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	20.8	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	49.3	ug/Kg
Dieldrin		SW8081B	10	1.5	20	21.2	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	18.7	ug/Kg

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com



Sample Result Summary

Report prepared for:	Tom McCloskey	Date	Received:	10/14/19			
	McCloskey Consultants				Date	Reported:	10/15/19
EX-A-B-1B@1 1/2'						1	910130-006
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	PQL	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	22.3	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	39.4	ug/Kg
Dieldrin		SW8081B	10	1.5	20	13.7	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	14.6	ug/Kg
EX-A-B-2						1	910130-007
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	PQL	<u>Results</u>	<u>Unit</u>
Lead		SW6010B	1	0.12	3.0	23.9	mg/Kg
4,4'-DDE		SW8081B	10	1.9	20	28.6	ug/Kg
Dieldrin		SW8081B	10	1.5	20	13.2	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	32.4	ug/Kg



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S				Date/Time	e Received Date	d: 10/1 • Repo	4/19, 3 rted: 10	:00 pm)/15/19
Client Sample ID:	EX-A-SW-1				Lab Samp	ole ID:	191013	30-001A			
Project Name/Location:	Los Altos H	I.S.			Sample M	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / 1	13:40									
SDG:											
Prep Method: 3050B					Prep Batcl	h Date/Tir	ne: 10/14	l/19 4	4:40:00F	PM	
Prep Batch ID: 1117395					Prep Analy	/st:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	19.8		mg/Kg	10/15/19	12:25	PPATEL	443128
Prep Method: 3546 OCP					Prep Batcl	h Date/Tin	ne: 10/14	1/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	/st:	MSA	т			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usin	ig thei	r MDL.	Į				4	Į		Į
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	20:12	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:12	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	20:12	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	20:12	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	2.52	J	ug/Kg	10/14/19	20:12	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	2.08	J	ug/Kg	10/14/19	20:12	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	6.31	J	ug/Kg	10/14/19	20:12	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Dieldrin	SW8081B	10	1.5	20	54.2		ug/Kg	10/14/19	20:12	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	20:12	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	20:12	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	17.0	J	ug/Kg	10/14/19	20:12	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	20:12	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	20:12	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	20:12	LA	443118
TOM (// /O)	014/06215	P					<i>c :</i>	10// // -			
	SW8081B		48 - 12	5	89.3		%	10/14/19	20:12	LA	443118
DCBP (S)	SW8081B		38 - 13	5	92.6		%	10/14/19	20:12	LA	443118
NOTE: Sample diluted due to	o nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s		Date/Time Received: 10/14/19, 3:00 pm Date Reported: 10/15/19						
Client Sample ID:	EX-A-SW-2	2			Lab Samp	ole ID:	191013	80-002A			
Project Name/Location:	Los Altos H	I.S.			Sample M	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / [.]	13:42									
SDG:											
Prep Method: 3050B					Prep Batcl	h Date/Tin	ne: 10/14	l/19 4	4:40:00F	PM	
Prep Batch ID: 1117395					Prep Analy	yst:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	15.8		mg/Kg	10/15/19	12:35	PPATEL	443128
Prep Method: 3546 OCP					Prep Batcl	h Date/Tin	10/14	/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	yst:	MSA	т			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	re reported usin	g thei	r MDL.		<u>.</u>			<u> </u>	II		
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	20:25	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:25	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	20:25	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	20:25	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:25	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	20:25	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	29.6		ug/Kg	10/14/19	20:25	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Dieldrin	SW8081B	10	1.5	20	4.23	J	ug/Kg	10/14/19	20:25	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	20:25	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	20:25	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	5.04	J	ug/Kg	10/14/19	20:25	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	20:25	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	20:25	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	20:25	LA	443118
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	93.5		%	10/14/19	20:25	LA	443118
DCBP (S)	SW8081B		38 - 13	5	96.5		%	10/14/19	20:25	LA	443118
NOTE: Sample diluted due to	nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s				Date/Time	e Received Date	d: 10/1 e Repo	4/19, 3 rted: 1(:00 pm)/15/19
Client Sample ID:	EX-A-SW-3	3			Lab Samp	ole ID:	191013	80-003A			
Project Name/Location:	Los Altos H	I.S.			Sample M	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / 1	13:59									
SDG:											
Prep Method: 3050B					Prep Batcl	h Date/Tin	ne: 10/14	/19 4	4:40:00	PM	
Prep Batch ID: 1117395					Prep Analy	/st:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	22.7	1 1	mg/Kg	10/15/19	12:38	PPATEL	443128
Prep Method: 3546_OCP					Prep Batcl	h Date/Tin	ne: 10/14	/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	/st:	MSA	г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usin	g thei	r MDL.		<u>.</u>	-11		<u> </u>	ĮĮ		<u> </u>
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	20:38	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:38	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	20:38	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	20:38	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:38	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	20:38	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	80.8		ug/Kg	10/14/19	20:38	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Dieldrin	SW8081B	10	1.5	20	1.87	J	ug/Kg	10/14/19	20:38	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	20:38	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	20:38	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	8.85	J	ug/Kg	10/14/19	20:38	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	20:38	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	20:38	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	20:38	LA	443118
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	96.9		%	10/14/19	20:38	LA	443118
DCBP (S)	SW8081B		38 - 13	5	99.2		%	10/14/19	20:38	LA	443118
NOTE: Sample diluted due to	nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s				Date/Time	e Received Date	d: 10/1 e Repo	14/19, 3 rted: 1(:00 pm)/15/19
Client Sample ID:	EX-A-SW-4	ļ			Lab Samp	ole ID:	191013	30-004A			
Project Name/Location:	Los Altos H	I.S.			Sample M	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / 1	14:15									
SDG:											
Prep Method: 3050B					Prep Batch	h Date/Tin	ne: 10/14	l/19 4	4:40:00	PM	
Prep Batch ID: 1117395					Prep Analy	/st:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	22.4	1 1	mg/Kg	10/15/19	12:41	PPATEL	443128
Prep Method: 3546_OCP					Prep Batch	h Date/Tin	ne: 10/14	I/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	/st:	MSA	т			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usin	g thei	r MDL.			-!!			ĮĮ		<u> </u>
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	20:52	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:52	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	20:52	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	20:52	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	20:52	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	20:52	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	67.0		ug/Kg	10/14/19	20:52	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Dieldrin	SW8081B	10	1.5	20	8.17	J	ug/Kg	10/14/19	20:52	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	20:52	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	20:52	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	13.8	J	ug/Kg	10/14/19	20:52	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	20:52	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	20:52	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	20:52	LA	443118
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	91.5		%	10/14/19	20:52	LA	443118
DCBP (S)	SW8081B		38 - 13	5	94.3		%	10/14/19	20:52	LA	443118
NOTE: Sample diluted due to	nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s				Date/Time	e Received Date	d: 10/1 • Repo	4/19, 3 rted: 10	:00 pm)/15/19
Client Sample ID:	EX-A-B-1A	@1 1/2			Lab Samp	le ID:	191013	30-005A			
Project Name/Location:	Los Altos H	I.S.			Sample M	atrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / 1	3:45									
SDG:											
Prep Method: 3050B					Prep Batch	n Date/Tir	ne: 10/14	l/19 4	4:40:00	PM	
Prep Batch ID: 1117395					Prep Analy	/st:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	20.8		mg/Kg	10/15/19	12:44	PPATEL	443128
Prep Method: 3546_OCP					Prep Batch	n Date/Tir	ne: 10/14	l/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	/st:	MSA	г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	re reported usin	g thei	r MDL.	1		4		<u>I</u>	II		<u>I</u>
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	21:05	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:05	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	21:05	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	21:05	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:05	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	21:05	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	49.3		ug/Kg	10/14/19	21:05	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Dieldrin	SW8081B	10	1.5	20	21.2		ug/Kg	10/14/19	21:05	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	21:05	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	21:05	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	18.7	J	ug/Kg	10/14/19	21:05	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	21:05	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	21:05	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	21:05	LA	443118
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	95.5		%	10/14/19	21:05	LA	443118
DCBP (S)	SW8081B		38 - 13	5	97.3		%	10/14/19	21:05	LA	443118
NOTE: Sample diluted due to	nature of the matri	x (dark,	viscous ex	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s	Date/Time Received: 10/14/19, 3:00 pm Date Reported: 10/15/19							00 pm //15/19
Client Sample ID:	EX-A-B-1B	@1 1/2			Lab Sam	ple ID:	19101:	30-006A			
Project Name/Location:	Los Altos H	I.S.			Sample N	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 /	13:47									
SDG:											
Prep Method: 3050B					Prep Batc	h Date/Tim	ne: 10/14	4/19 4	4:40:00F	PM	
Prep Batch ID: 1117395					Prep Anal	yst:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	22.3		mg/Kg	10/15/19	12:48	PPATEL	443128
Prep Method: 3546_OCP					Prep Batc	h Date/Tim	ne: 10/14	4/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Anal	yst:	MSA	т			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usir	g thei	r MDL.	<u> </u>				<u>.</u>	I		L
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	21:19	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:19	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	21:19	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	21:19	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:19	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	21:19	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	39.4		ug/Kg	10/14/19	21:19	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Dieldrin	SW8081B	10	1.5	20	13.7	J	ug/Kg	10/14/19	21:19	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	21:19	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	21:19	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	14.6	J	ug/Kg	10/14/19	21:19	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	21:19	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	21:19	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	21:19	LA	443118
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	84.0		%	10/14/19	21:19	LA	443118
DCBP (S)	SW8081B		38 - 13	5	87.5		%	10/14/19	21:19	LA	443118
NOTE: Sample diluted due to	o nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	s				Date/Time	e Received Date	d: 10/1 e Repo	14/19, 3 rted: 1(:00 pm)/15/19
Client Sample ID:	EX-A-B-2				Lab Samp	le ID:	191013	30-007A			
Project Name/Location:	Los Altos H	I.S.			Sample M	atrix:	Soil				
Project Number:											
Date/Time Sampled:	10/14/19 / 1	4:02									
SDG:											
Prep Method: 3050B					Prep Batch	n Date/Tir	ne: 10/14	l/19 4	4:40:00	PM	
Prep Batch ID: 1117395					Prep Analy	/st:	IRNA	Z			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead	SW6010B	1	0.12	3.0	23.9	1	mg/Kg	10/15/19	12:51	PPATEL	443128
Prep Method: 3546_OCP					Prep Batch	n Date/Tir	ne: 10/14	/19 1	2:23:00	PM	
Prep Batch ID: 1117370					Prep Analy	/st:	MSA	г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usin	g thei	r MDL.	<u> </u>		1		<u>.</u>	ĮĮ		<u> </u>
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/14/19	21:54	LA	443118
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:54	LA	443118
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/14/19	21:54	LA	443118
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/14/19	21:54	LA	443118
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/14/19	21:54	LA	443118
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/14/19	21:54	LA	443118
4,4'-DDE	SW8081B	10	1.9	20	28.6		ug/Kg	10/14/19	21:54	LA	443118
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Dieldrin	SW8081B	10	1.5	20	13.2	J	ug/Kg	10/14/19	21:54	LA	443118
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/14/19	21:54	LA	443118
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/14/19	21:54	LA	443118
4,4'-DDT	SW8081B	10	1.3	20	32.4		ug/Kg	10/14/19	21:54	LA	443118
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/14/19	21:54	LA	443118
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/14/19	21:54	LA	443118
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/14/19	21:54	LA	443118
		A	cceptance	e Limits							
ICMX (S)	SW8081B		48 - 12	5	96.5		%	10/14/19	21:54	LA	443118
DCBP (S)	SW8081B		38 - 13	5	101		%	10/14/19	21:54	LA	443118
NOTE: Sample diluted due to	o nature of the matri	x (dark,	viscous e	xtract)							



MB Summary Report

Work Order:	1910130	Prep	Method:	3546_OCP	Prep	Date:	10/14/19	Prep Batch:	1117370
Matrix:	Soil	Analy	tical	SW8081B	Anal	yzed Date:	10/14/2019	Analytical	443118
Units:	ug/Kg	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
alpha-BHC		0.13	2.0	ND					
gamma-BHC (Lind	lane)	0.16	2.0	ND					
beta-BHC		0.32	2.0	ND					
delta-BHC		0.16	2.0	ND					
Heptachlor		0.11	2.0	ND					
Aldrin		0.20	2.0	ND					
Heptachlor Epoxid	e	0.078	2.0	ND					
gamma-Chlordane	9	0.16	2.0	ND					
alpha-Chlordane		0.17	2.0	ND					
4,4'-DDE		0.19	2.0	ND					
Endosulfan I		0.18	2.0	ND					
Dieldrin		0.15	2.0	ND					
Endrin		0.19	2.0	ND					
4,4'-DDD		0.57	2.0	ND					
Endosulfan II		0.58	2.0	ND					
4,4'-DDT		0.13	2.0	ND					
Endrin Aldehyde		0.15	2.0	ND					
Methoxychlor		0.20	2.0	ND					
Endosulfan Sulfate	e	0.12	2.0	ND					
Endrin Ketone		0.094	2.0	ND					
Chlordane		2.1	20	ND					
Toxaphene		8.5	50	ND					
TCMX (S)				92.0					
DCBP (S)				104					



MB Summary Report

Work Order:	1910130	Prep I	Method:	3050B	Prep	Date:	10/14/19	Prep Batch:	1117395
Matrix:	Soil	Analy	tical	SW6010B	Analy	zed Date:	10/15/2019	Analytical	443128
Units:	mg/Kg	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Antimony		0.050	5.00	ND					
Arsenic		0.15	1.30	ND					
Barium		0.055	5.00	0.100					
Beryllium		0.055	5.00	ND					
Cadmium		0.10	5.00	ND					
Chromium		0.075	5.00	0.11					
Cobalt		0.070	5.00	ND					
Copper		0.20	5.00	ND					
Lead		0.10	1.30	ND					
Molybdenum		0.050	5.00	0.16					
Nickel		0.50	5.00	ND					
Selenium		0.22	5.00	ND					
Silver		0.15	5.00	ND					
Thallium		0.55	5.00	ND					
Vanadium		0.10	5.00	ND					
Zinc		0.30	5.00	ND					



Work Order: 1910130 3546_OCP 10/14/19 Prep Batch: 1117370 **Prep Method:** Prep Date: Matrix: Soil Analytical 10/14/2019 Analytical SW8081B Analyzed Date: 443118 Method: Batch: Units: ug/Kg % Method LCS % LCSD % LCS/LCSD Spike Parameters MDL PQL Blank Conc. Recovery Recovery % RPD Recovery % RPD Lab Limits Qualifier Conc. Limits gamma-BHC (Lindane) 0.16 2.0 ND 40 91.3 90.5 0.825 25 - 135 30 40 - 130 30 Heptachlor 0.11 2.0 ND 40 90.3 89.7 0.556 ND 90.0 25 - 140 30 Aldrin 0.20 2.0 40 91.3 1.38 Dieldrin 0.15 2.0 ND 40 88.1 87.1 1.14 60 - 130 30 Endrin 0.19 2.0 ND 40 84.4 83.7 0.595 55 - 135 30 4,4'-DDT 0.13 2.0 ND 40 86.4 86.2 0.289 45 - 140 30 TCMX (S) 91.0 48 - 125 100 88.8 DCBP (S) 103 100 38 - 135 100 Work Order: 1910130 **Prep Method:** 3050B 10/14/19 Prep Date: Prep Batch: 1117395 Matrix: Analytical Analyzed Date: 10/15/2019 Analytical Soil SW6010B 443128 Method: Batch: Units: mg/Kg Method LCS % LCSD % LCS/LCSD Spike % **Parameters** MDL PQL Blank Conc. Recovery Recovery % RPD Recovery % RPD Lab Conc. Limits Limits Qualifier ND 0.050 5.00 50 95.7 94.9 0.839 80 - 120 30 Antimony 0.15 1.30 ND 50 96.2 95.6 0.626 80 - 120 30 Arsenic 80 - 120 2.25 30 Barium 5.00 0.100 50 98.7 96.6 0.055 Beryllium 0.055 5.00 ND 50 101 99.0 2.00 80 - 120 30 Cadmium 50 100 97.6 80 - 120 30 0.10 5.00 ND 2.43 Chromium 0.075 5.00 0.11 50 102 98.4 3.59 80 - 120 30 Cobalt 0.070 5.00 ND 50 101 97.9 3.02 80 - 120 30 Copper 0.20 5.00 ND 50 99.2 96.8 2.45 80 - 120 30 3.00 ND 50 101 99.0 2.00 80 - 120 30 Lead 0.10 Molybdenum 0.050 5.00 0.16 50 102 98.6 3.39 80 - 120 30 Nickel 0.50 5.00 ND 50 100 97.6 2.43 80 - 120 30 5.00 ND 50 92.1 91.6 30 Selenium 0.22 0.653 80 - 120 Silver 0.15 5.00 ND 50 96.1 94.9 1.26 80 - 120 30 Thallium 0.20 5.00 ND 50 96.6 95.8 0.832 80 - 120 30 Vanadium 0.10 5.00 ND 50 102 98.2 3.80 80 - 120 30 Zinc 0.30 5.00 ND 50 96.9 95.1 1.87 80 - 120 30

LCS/LCSD Summary Report

Raw values are used in quality control assessment.



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 gualifier 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.



Sample Receipt Checklist

Client Name: <u>McCloskey Consultants</u> Project Name: <u>Los Altos H.S.</u> Work Order No.: 1910130 Date and Time Received: <u>10/14/2019</u> <u>3:00:00PM</u> Received By: Helena Ueng 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?	<u>Yes</u>
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?	Yes
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: 8.0 °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: N/A	pH Adjusted by: N/A

Comments:

Sample chilling begun



Login Summary Report

Client ID:	TL5324	McCloskey Consultants	QC Level:	П
Project Name:	Los Altos H.S.		TAT Requested:	1 Day Rush:1
Project # :			Date Received:	10/14/2019
Report Due Date:	10/15/2019		Time Received:	3:00 pm

Comments:

Work Order # : 1910130

WO Sample ID	<u>Client</u> Sample ID	<u>Collection</u> <u>Date/Time</u>	<u>Matrix</u>	<u>Scheduled Sample Te</u> <u>Disposal On Hold O</u>	<u>est</u> n Hold	<u>Requested</u> <u>Tests</u>	<u>Subbed</u>
1910130-001A	EX-A-SW-1	10/14/19 13:40	Soil	04/11/20		Pest_S_8081OCP Met_S_AsPb	
Sample Note:	*1-DAY RUSH! OCPs, L	ead					
1910130-002A	EX-A-SW-2	10/14/19 13:42	Soil	04/11/20		Met_S_AsPb Pest_S_80810CP	
1910130-003A	EX-A-SW-3	10/14/19 13:59	Soil	04/11/20		Met_S_AsPb	
1910130-004A	EX-A-SW-4	10/14/19 14:15	Soil	04/11/20		Met_S_AsPb	
1910130-005A	EX-A-B-1A@1 1/2'	10/14/19 13:45	Soil	04/11/20		Met_S_AsPb Pest_S_80810CP	
1910130-006A	EX-A-B-1B@1 1/2'	10/14/19 13:47	Soil	04/11/20		Met_S_AsPb Pest S 80810CP	
1910130-007A	EX-A-B-2	10/14/19 14:02	Soil	04/11/20		Met_S_AsPb Pest_S_80810CP	



	483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293 www.torrentlab.com	• NOTE: SHADE	HAIN OF ED AREAS ARE	F CUSTODY	LAB WORK ORDER NO 1910130	
Company Name: MCI - Me Closke	-1	🔀 Env. 🗖 DOD	Food D Specia	Project Name: Los Altos	H.S.	
Address: 420 Sycamore 1/91	ley Rol West		Project #	and the second sec		
City: Denville	State: 🕰 Zi	o Code: 94526	Comments:			
Telephone:	Cell: 925.786	2667	Email:			
REPORT TO: Jon Mc Closlay / Chris	SAMPLER: Wiris Ver	rtin	P.O. #	QUO	TE #	
TURNAROUND TIME:	SAMPLE TYPE:	REPORT FORMAT:				
10 Work Days 4 Work Days 10 Work Days 3 Work Days Noon	Day Storm Water Air Waste Water Wipe Ground Water Othe	Excel/ EDD EDF CC Level III			ANALYSIS REQUESTED	
LAB ID CANISTER CLIENT'S SAMPLE	I.D. DATE / TIME MATRIX		RES. Che		REMARKS	
00 A EX-A-SW-1	10-14-19 13:40 Soil	1 Uozgkars	XX			
002A EX-A-5W-2	13:42					
003A EX-A-SW-3	13:59					
004A EX-A-SW-4	14:15			R		
DOSA EX-A-B-IA@	13:45			1 X X	20U	
006A EX-A-B-1Be	13:47			(-i	DAY	
8077 EX-A-B-2	14:02					
Relinquished By Print:	Rutin Date: 10/14/19 Date:	Time: R 15:00 Time: R	eceived By: Hall eceived By:	Print: Da Print: Da	te: Time:	
Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment Sample seals intact? Yes NO Page of /						
Log In By: Date:	Labeled By:	Date:	Log In F	Reviewed By:	Date: Rev 3.	



Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos H.S.

Work Order No.: 1910131

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 4 sample(s) on October 14, 2019 for the analyses presented in the following Report.

As requested on the Chain of Custody, the four samples received were combined into a 4:1 point composite for analysis.

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

October 16, 2019 Date



Date: 10/16/2019

Client: McCloskey Consultants Project: Los Altos H.S. Work Order: 1910131

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 Analytical, Inc.

All analyses except for TCLP lead were cancelled by the client the day after sample receipt. Accordingly, pesticide and CAM17 metals data is not presented in this report. As analyses had already been done, data is available upon client request and associated QC data appears in the report.

<u>TCLP</u>

Note: Extraction of 100 g sample/2000 g TCLP Fluid #1 was performed according to Toxicity Characteristic Leaching Procedure (SW-846 1311 TCLP) which was rotated in a rotary shaker@ 32 RPM for 18 hours (+/- 2 hours).

Date Prepared: 10/15/19 at 4:00 PM to 10/16/19 at 10:30 AM



Sample Result Summary

Report prepared for:	Tom McCloskey				Date	Received: 1	0/14/19
	McCloskey Consultants				Date	Reported: 1	0/16/19
EX-A-SP-1 Composite						19	10131-005
Parameters:		<u>Analysis</u> Method	DF	MDL	PQL	<u>Results</u>	<u>Unit</u>
•		metriou					

All compounds were non-detectable for this sample.



Report prepared for:	Tom McCloskey McCloskey Con	, sultant:	s				Date/Time	e Received Date	d: 10/ e Repo	14/19, 3: orted: 10	00 pm /16/19
Client Sample ID: Project Name/Location: Project Number: Date/Time Sampled: SDG:	EX-A-SP-1 Los Altos H 10/14/19 /	Compo I.S.	osite		Lab Sample Sample Ma	e ID: trix:	191013 Soil	1-005A			
Prep Method: 1311/3010B Prep Batch ID: 1117445					Prep Batch Prep Analys	Date/Tii	me: 10/16 IRNA	/19 1 Z	1:20:00	MAM	
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Lead (TCLP)	SW6010B	1	0.050	0.20	ND		mg/L	10/16/19	15:22	PPATEL	443168



1910131 3546_OCP 10/14/19 Work Order: Prep Method: Prep Date: Prep Batch: 1117370 Soil SW8081B 443118 Matrix: Analytical 10/14/2019 Analyzed Date: Analytical Method: Batch: Units: ug/Kg Method Lab PQL MDL Blank Qualifier Parameters Conc. alpha-BHC 0.13 2.0 ND gamma-BHC (Lindane) 0.16 2.0 ND beta-BHC 0.32 ND 2.0 delta-BHC 0.16 2.0 ND ND Heptachlor 0.11 2.0 Aldrin 0.20 2.0 ND Heptachlor Epoxide 0.078 ND 2.0 gamma-Chlordane 0.16 2.0 ND alpha-Chlordane 0.17 2.0 ND 4,4'-DDE ND 0.19 2.0 Endosulfan I 0.18 2.0 ND Dieldrin 0.15 2.0 ND Endrin 0.19 2.0 ND 4,4'-DDD ND 0.57 2.0 Endosulfan II 0.58 2.0 ND 4.4'-DDT 0.13 2.0 ND Endrin Aldehyde 0.15 2.0 ND Methoxychlor 0.20 2.0 ND Endosulfan Sulfate 0.12 2.0 ND 0.094 Endrin Ketone 2.0 ND Chlordane 2.1 20 ND 50 ND Toxaphene 8.5 TCMX (S) 92.0 DCBP (S) 104 Work Order: 1910131 **Prep Method:** 7471BP Prep Date: 10/14/19 Prep Batch: 1117392 Soil Matrix: Analytical SW7471B Analyzed Date: 10/15/2019 Analytical 443121 Method: Batch: mg/Kg Units: Method Lab MDL PQL Qualifier Parameters Blank Conc. Mercury 0.083 0.50 ND

MB Summary Report

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MB Summary Report

Work Order:	1910131	Prep l	Method:	3050B	Prep	Date:	10/14/19	Prep Batch:	1117395
Matrix:	Soil	Analy Metho	tical od:	SW6010B	SW6010B Analyzed Date:		10/15/2019 Analytical Batch:		443128
Units:	mg/kg								
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Antimony		0.050	5.00	ND					
Arsenic		0.15	1.30	ND					
Barium		0.055	5.00	0.100					
Beryllium		0.055	5.00	ND					
Cadmium		0.10	5.00	ND					
Chromium		0.075	5.00	0.11					
Cobalt		0.070	5.00	ND					
Copper		0.20	5.00	ND					
Lead		0.10	1.30	ND					
Molybdenum		0.050	5.00	0.16					
Nickel		0.50	5.00	ND					
Selenium		0.22	5.00	ND					
Silver		0.15	5.00	ND					
Thallium		0.55	5.00	ND					
Vanadium		0.10	5.00	ND					
Zinc		0.30	5.00	ND					
Work Order:	1910131	Prep	Method:	1311/3010B	Prep	Date:	10/16/19	Prep Batch:	1117445
Matrix:	Soil	Analy	tical	SW6010B	Anal	yzed Date:	10/16/2019	Analytical	443168
Units:	mg/L	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Chromium (TCLP)		0.010	0.20	ND					
Lead (TCLP)		0.050	0.20	ND					



Work Order: 3546_OCP 10/14/19 1117370 1910131 **Prep Method:** Prep Date: Prep Batch: Matrix: Analytical Soil Analytical SW8081B Analyzed Date: 10/14/2019 443118 Method: Batch: Units: ug/Kg Method LCS % LCSD % LCS/LCSD % Spike Parameters MDL PQL Blank Conc. Recovery Recovery % RPD Recovery % RPD Lab Limits Qualifier Conc. Limits 25 - 135 gamma-BHC (Lindane) 0.16 2.0 ND 40 91.3 90.5 0.825 30 40 - 130 Heptachlor 0.11 2.0 ND 40 90.3 89.7 0.556 30 90.0 25 - 140 30 Aldrin 0.20 2.0 ND 40 91.3 1.38 Dieldrin 0.15 2.0 ND 40 88.1 87.1 1.14 60 - 130 30 Endrin 0.19 2.0 ND 40 84.4 83.7 0.595 55 - 135 30 4,4'-DDT 0.13 2.0 ND 40 86.4 86.2 0.289 45 - 140 30 TCMX (S) 91.0 48 - 125 100 88.8 DCBP (S) 103 100 38 - 135 100 Work Order: 1910131 **Prep Method:** 7471BP 10/14/19 Prep Date: Prep Batch: 1117392 Matrix: Analytical Analyzed Date: 10/15/2019 Soil SW7471B Analytical 443121 Method: Batch: Units: mg/Kg Method LCS % LCSD % LCS/LCSD Spike % **Parameters** MDL PQL Blank Conc. Recovery Recovery % RPD Recovery % RPD Lab Qualifier Conc. Limits Limits 0.047 ND 80 - 120 0.50 1.25 97.2 95.4 2.49 30 Mercury Work Order: 1910131 Prep Method: 3050B Prep Date: 10/14/19 Prep Batch: 1117395 Matrix: Soil Analytical SW6010B Analyzed Date: 10/15/2019 Analytical 443128 Method: Batch: Units: mg/Kg Method LCS % LCSD % LCS/LCSD Spike % MDL PQL % RPD **Parameters** Blank Conc. Recovery Recovery % RPD Recovery Lab Conc. Limits Limits Qualifier Antimony 0.050 5.00 ND 50 95.7 94.9 0.839 80 - 120 30 0.15 1.30 ND 50 96.2 95.6 0.626 80 - 120 30 Arsenic Barium 0.055 5.00 0.100 50 98.7 96.6 2.25 80 - 120 30 99.0 80 - 120 30 Beryllium 0.055 5.00 ND 50 101 2.00 Cadmium 5.00 ND 50 100 97.6 2.43 80 - 120 30 0.10 Chromium 0.075 5.00 0.11 50 102 98.4 3.59 80 - 120 30 Cobalt 0.070 5.00 ND 50 101 97.9 3.02 80 - 120 30 80 - 120 5.00 ND 50 99.2 96.8 2.45 30 Copper 0.20 0.10 3.00 ND 50 101 99.0 2.00 80 - 120 30 Lead Molybdenum 0.050 5.00 0.16 50 102 98.6 3.39 80 - 120 30 30 5.00 ND 50 100 97.6 Nickel 0.50 2.43 80 - 120 5.00 ND 50 92.1 91.6 80 - 120 30 Selenium 0.22 0.653 0.15 Silver 5.00 ND 50 96.1 94.9 80 - 120 30 1.26 Thallium 0.20 5.00 ND 50 96.6 95.8 0.832 80 - 120 30 Vanadium 0.10 5.00 ND 50 102 98.2 3.80 80 - 120 30 Zinc 0.30 5.00 ND 50 96.9 95.1 80 - 120 30

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

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1.87



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1910131		Prep Meth	od: 1311	/3010B	Prep Da	te:	10/16/19	Prep Bat	t ch: 111	7445
Matrix:	Soil		Analytical	SW6	6010B	Analyze	d Date:	10/16/2019	Analytic	al 443	3168
Units:	mg/L		Method:						Batch:		
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chromium (TCLP)		0.010	0.20	ND	10	90.5	92.0	1.64	80 - 120	20	
Lead (TCLP)		0.050	0.20	ND	10	91.1	93.4	2.49	80 - 120	20	



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.



Sample Receipt Checklist

Client Name: <u>McCloskey Consultants</u> Project Name: <u>Los Altos H.S.</u> Work Order No.: 1910131 Date and Time Received: <u>10/14/2019</u> <u>3:00:00PM</u> Received By: Helena Ueng 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?	<u>Yes</u>
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?	Yes
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: 8.0 °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: N/A	pH Adjusted by: N/A

Comments:

Sample chilling begun



Login Summary Report

Client ID:	TL5324	McCloskey Consultants	QC Level:	II
Project Name:	Los Altos H.S.		TAT Requested:	1 Day Rush:1
Project # :			Date Received:	10/14/2019
Report Due Date:	10/16/2019		Time Received:	3:00 pm
Comments:				

Work Order # : 1910131

WO Sample ID	<u>Client</u> Sample ID	Collection Date/Time	<u>Matrix</u>	Scheduled Sample Disposal On Hold	<u>Test</u> <u>On Hold</u>	Requested Subbed
1910131-001A	EX-A-SP-1A	10/14/19 14:05	Soil	04/11/20		
1910131-002A	EX-A-SP-1B	10/14/19 14:07	Soil	04/11/20		Composite
1910131-003A	EX-A-SP-1C	10/14/19 14:08	Soil	04/11/20		Composite
1910131-004A	EX-A-SP-1D	10/14/19 14:10	Soil	04/11/20		Composite
1910131-005A	EX-A-SP-1 Composite	10/14/19	Soil	04/11/20		Pest_S_8081OCP Hg_S_7471B Met_S_6010B CAM17 Met_S_CAM17TCLP

Sample Note: *1-DAY RUSH! OCPs; CAM17; STLC & TCLP Lead

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ABORATORY, INC.	air Frontage Road CA 95035 08.263.5258 .263.8293 • Montab.com	CHA	IN OF CUSTODY REAS ARE FOR TORRENT LAB USE	LAB WORK ORDER NO
Company Name: MCL -			iood 🔲 Special Project Name: 🛵 A	Hos H.S.
Address: 420 Sycamore Valley Rol Was	÷		Project #	
City: Danville State: (IA Zip Code: C	94526	Comments: 44pt composite San	nde
Telephone: C	ell: 925.786.2667		Email:	0 T
REPORT TO: Tom Mc Clasker/ Chris Vat SAMPLER	a: (Ihris Vertin		P.O. #	QUOTE #
TURNAROUND TIME:	PLE TYPE: REPOR	RT FORMAT:		
10 Work Days 4 Work Days 1 Work Days 1 Work Days 3 Work Days 0 S 0 G	torm Water Air Exce Vaste Water Wipe EDF Ground Water Other QC	el/ EDD : Level III	- Lead	ANALYSIS REQUESTED
5 Work Days 2 - 8 Hours S		Level IV	LP. LP.	
LAB ID CANISTER I.D. CLIENT'S SAMPLE I.D. DATE SAM	IPLED MATRIX # OF	CONT TYPE PRES.	ST RA	REMARKS
001A EX-A-SP-1A 10.14	19 14:09 Soil 1	4029kg		All standi
0021 EX-A-SP-18	14:07		V V X V _ _	2 4-p1 (omposile
DOTA EX-A-SP-IC	14:08		$\Lambda \Lambda / \Lambda $	(OUSA)
COHA EX-A-SP-ID	14:10			HICOMP
			RUSH	
			I-DAY	
			8	
Relinguished By: Relinguished By: Print: Print: Print:	Datey 10/14/19 15. Date: Time:	:00 Receive	d By: Print: Helenchy d By: Print:	Date: Time: (0) (4) (5) Date: Time:
۲ ۲	<u>م</u> دد		+10	
Were Samples Received in Good Condition?	NO Samples on Ice?	Yes NO Method	Temp Gun # > Temp	Sample seals intact? Yes NO N/A
Log In By: Date: I	Labeled By:	Date:	Log In Reviewed By:	Page of





Change Order

Work Order: 1910131	Serial #: CO19-0607		Print Date:	10/16/2019
Project Name: Los Altos H.S.				
Client: McCloskey Consultants	Requested By:	Chris Vertin		
		Requested Date	<u>Requested</u> <u>Time</u>	Extended Price

Do not report any data except for TCLP Pb for 005; CAM17, OCPs, STLC extraction already 10/15/2019 12:00:00PM done/started at the time of the request

Page 1 of 1

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Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos H.S.

Work Order No.: 1910140

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 9 sample(s) on October 15, 2019 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

October 16, 2019 Date



Date: 10/16/2019

Client: McCloskey Consultants Project: Los Altos H.S. Work Order: 1910140

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 Analytical, Inc.



Sample Result Summary

Report prepared for:	Tom McCloskey				Date	Received: 1	0/15/19
	McCloskey Consultants				Date	Reported: 1	0/16/19
EX-B-SW-1	-					19	10140-001
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	1	0.19	2.0	17.8	ug/Kg
Endrin		SW8081B	1	0.19	2.0	3.92	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	47.3	ug/Kg
Dieldrin		SW8081B	20	3.0	40	389	ug/Kg
EX-B-SW-2						19	10140-002
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	<u>Results</u>	<u>Unit</u>
gamma-Chlordane		SW8081B	10	1.6	20	4.14	ug/Kg
alpha-Chlordane		SW8081B	10	1.7	20	3.27	ug/Kg
4,4'-DDE		SW8081B	10	1.9	20	30.2	ug/Kg
Dieldrin		SW8081B	10	1.5	20	51.3	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	29.8	ug/Kg
Chlordane		SW8081B	10	21	200	34.5	ug/Kg
EX-B-SW-3A						19	10140-003
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	PQL	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	10	1.9	20	22.4	ug/Kg
Dieldrin		SW8081B	10	1.5	20	4.67	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	9.01	ug/Kg
EX-B-SW-3B						19	10140-004
Parameters:		<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	1	0.19	2.0	20.9	ug/Kg
Dieldrin		SW8081B	1	0.15	2.0	4.02	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	9.41	ug/Kg
EX-B-SW-4						19	10140-005
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	1	0.19	2.0	34.8	ug/Kg
Dieldrin		SW8081B	1	0.15	2.0	5.99	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	8.88	ug/Kg
EX-B-SW-5						19	10140-006
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	1	0.19	2.0	55.3	ug/Kg
Dieldrin		SW8081B	1	0.15	2.0	3.11	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	4.81	ug/Kg

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Sample Result Summary

Report prepared for:	Tom McCloskey				Date	Received:	10/15/19
	McCloskey Consultants				Date	Reported:	10/16/19
EX-B-B-1						- 19	910140-007
Parameters:		<u>Analysis</u> <u>Method</u>	DF	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
gamma-Chlordane		SW8081B	10	1.6	20	3.88	ug/Kg
alpha-Chlordane		SW8081B	10	1.7	20	2.52	ug/Kg
4,4'-DDE		SW8081B	10	1.9	20	112	ug/Kg
Dieldrin		SW8081B	10	1.5	20	69.3	ug/Kg
4,4'-DDT		SW8081B	10	1.3	20	37.6	ug/Kg
Chlordane		SW8081B	10	21	200	26.9	ug/Kg
EX-B-B-2						19	¥10140-008
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	<u>Results</u>	<u>Unit</u>
Dieldrin		SW8081B	1	0.15	2.0	5.41	ug/Kg
4,4'-DDD		SW8081B	1	0.57	2.0	2.66	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	29.9	ug/Kg
4,4'-DDE		SW8081B	3	0.58	6.0	101	ug/Kg
EX-B-B-3						19	€10140-009
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	<u>MDL</u>	PQL	<u>Results</u>	<u>Unit</u>
Dieldrin		SW8081B	1	0.15	2.0	2.36	ug/Kg
4,4'-DDD		SW8081B	1	0.57	2.0	2.03	ug/Kg
4,4'-DDT		SW8081B	1	0.13	2.0	15.9	ug/Kg
4,4'-DDE		SW8081B	3	0.58	6.0	82.8	ug/Kg



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						1:00 pm 10/16/19
Client Sample ID:	EX-B-SW-1				Lab Sample	e ID:	191014	0-001A			
Project Name/Location:	Los Altos H	I.S.			Sample Ma	trix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 / 1	11:11									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 [·]	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analys	st:	MSA	г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
4,4'-DDE	SW8081B	1	0.19	2.0	17.8		ug/Kg	10/15/19	23:37	LA	443151
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Endrin	SW8081B	1	0.19	2.0	3.92		ug/Kg	10/15/19	23:37	LA	443151
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
4,4'-DDT	SW8081B	1	0.13	2.0	47.3		ug/Kg	10/15/19	23:37	LA	443151
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/15/19	23:37	LA	443151
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/15/19	23:37	LA	443151
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/15/19	23:37	LA	443151
	014/00045	A	cceptance	e ∟imits -			<u>.</u>	10/15/10	oo o -		
ICMX (S)	SW8081B		48 - 12	5	93.2		%	10/15/19	23:37	LA	443151
DCBP (S)	SW8081B		38 - 13	5	110		%	10/15/19	23:37	LA	443151
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 ·	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analys	st:	MSA	Г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
Dieldrin	SW8081B	20	3.0	40	389	-	ug/Kg	10/16/19	12:48	LA	443151



Report prepared for:	Tom McCloskey McCloskey Con	McCloskey Date/Time Received: 10/15/19, oskey Consultants Date Reported: 7							:00 pm 0/16/19		
Client Sample ID:	EX-B-SW-2	2			Lab Samp	ble ID:	19101	40-002A			
Project Name/Location:	Los Altos H	I.S.			Sample M	latrix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 /	11:15									
SDG:											
Prep Method: 3546_OCP					Prep Batcl	h Date/Tir	ne: 10/1	5/19	1:59:00F	РМ	
Prep Batch ID: 1117408					Prep Analy	yst:	MSA	T			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usir	ng thei	r MDL.						<u> </u>		
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/15/19	23:50	LA	443151
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/15/19	23:50	LA	443151
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/15/19	23:50	LA	443151
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/15/19	23:50	LA	443151
gamma-Chlordane	SW8081B	10	1.6	20	4.14	J	ug/Kg	10/15/19	23:50	LA	443151
alpha-Chlordane	SW8081B	10	1.7	20	3.27	J	ug/Kg	10/15/19	23:50	LA	443151
4,4'-DDE	SW8081B	10	1.9	20	30.2		ug/Kg	10/15/19	23:50	LA	443151
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Dieldrin	SW8081B	10	1.5	20	51.3		ug/Kg	10/15/19	23:50	LA	443151
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/15/19	23:50	LA	443151
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/15/19	23:50	LA	443151
4,4'-DDT	SW8081B	10	1.3	20	29.8		ug/Kg	10/15/19	23:50	LA	443151
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/15/19	23:50	LA	443151
Chlordane	SW8081B	10	21	200	34.5	J	ug/Kg	10/15/19	23:50	LA	443151
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/15/19	23:50	LA	443151
		А	cceptance	e Limits			-				
TCMX (S)	SW8081B		48 - 12	5	108		%	10/15/19	23:50	LA	443151
DCBP (S)	SW8081B		38 - 13	5	108		%	10/15/19	23:50	LA	443151
NOTE: Sample diluted due to	o nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						:00 pm 0/16/19
Client Sample ID:	EX-B-SW-3	BA			Lab Samp	le ID:	19101	40-003A			
Project Name/Location:	Los Altos H	I.S.			Sample M	atrix:	Soil				
Project Number:					•						
Date/Time Sampled:	10/15/19 / ⁻	11:17									
SDG:											
Prep Method: 3546_OCP					Prep Batch	n Date/Tir	ne: 10/1	5/19	1:59:00F	M	
Prep Batch ID: 1117408					Prep Analy	/st:	MSA	T			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	re reported usin	ng thei	r MDL.			1			<u>I</u> I		
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/16/19	0:04	LA	443151
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/16/19	0:04	LA	443151
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/16/19	0:04	LA	443151
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/16/19	0:04	LA	443151
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	10/16/19	0:04	LA	443151
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	10/16/19	0:04	LA	443151
4,4'-DDE	SW8081B	10	1.9	20	22.4		ug/Kg	10/16/19	0:04	LA	443151
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Dieldrin	SW8081B	10	1.5	20	4.67	J	ug/Kg	10/16/19	0:04	LA	443151
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/16/19	0:04	LA	443151
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/16/19	0:04	LA	443151
4,4'-DDT	SW8081B	10	1.3	20	9.01	J	ug/Kg	10/16/19	0:04	LA	443151
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/16/19	0:04	LA	443151
Chlordane	SW8081B	10	21	200	ND		ug/Kg	10/16/19	0:04	LA	443151
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/16/19	0:04	LA	443151
-		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	111		%	10/16/19	0:04	LA	443151
DCBP (S)	SW8081B		38 - 13	5	110		%	10/16/19	0:04	LA	443151
NOTE: Sample diluted due to	nature of the matri	x (dark,	viscous e	xtract)							


Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S			Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						
Client Sample ID:	EX-B-SW-3	BB			Lab Samp	le ID:	19101	40-004A				
Project Name/Location:	Los Altos H	I.S.			Sample Ma	atrix:	Soil					
Project Number:												
Date/Time Sampled:	10/15/19 / 1	11:19										
SDG:												
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/1	5/19 ⁻	1:59:00F	M		
Prep Batch ID: 1117408		Prep Analyst: MSAT										
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch	
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
4,4'-DDE	SW8081B	1	0.19	2.0	20.9		ug/Kg	10/16/19	0:44	LA	443151	
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Dieldrin	SW8081B	1	0.15	2.0	4.02		ug/Kg	10/16/19	0:44	LA	443151	
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
4,4'-DDT	SW8081B	1	0.13	2.0	9.41		ug/Kg	10/16/19	0:44	LA	443151	
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/16/19	0:44	LA	443151	
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/16/19	0:44	LA	443151	
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/16/19	0:44	LA	443151	
		A	cceptance	e Limits								
TCMX (S)	SW8081B		48 - 12	5	92.0		%	10/16/19	0:44	LA	443151	
DCBP (S)	SW8081B		38 - 13	5	106		%	10/16/19	0:44	LA	443151	



Report prepared for:	Tom McCloskey McCloskey Con	, sultant:	s		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						
Client Sample ID:	EX-B-SW-4	ŀ			Lab Sampl	e ID:	191014	40-005A			
Project Name/Location:	Los Altos H	.S.			Sample Ma	trix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 / 1	1:23									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 <i>ŕ</i>	1:59:00F	PM	
Prep Batch ID: 1117408	Prep Analyst: MSAT										
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
4,4'-DDE	SW8081B	1	0.19	2.0	34.8		ug/Kg	10/16/19	0:58	LA	443151
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Dieldrin	SW8081B	1	0.15	2.0	5.99		ug/Kg	10/16/19	0:58	LA	443151
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
4,4'-DDT	SW8081B	1	0.13	2.0	8.88		ug/Kg	10/16/19	0:58	LA	443151
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/16/19	0:58	LA	443151
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/16/19	0:58	LA	443151
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/16/19	0:58	LA	443151
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	96.7		%	10/16/19	0:58	LA	443151
DCBP (S)	SW8081B		38 - 13	5	111		%	10/16/19	0:58	LA	443151



Report prepared for:	Tom McCloskey McCloskey Con	, sultant	S		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						
Client Sample ID:	EX-B-SW-5	5			Lab Sample	e ID:	191014	40-006A			
Project Name/Location:	Los Altos H	I.S.			Sample Ma	trix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 / 1	11:27									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/1	5/19 ⁻	1:59:00P	M	_
Prep Batch ID: 1117408	Prep Analyst: MSAT										
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
4,4'-DDE	SW8081B	1	0.19	2.0	55.3		ug/Kg	10/16/19	1:11	LA	443151
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Dieldrin	SW8081B	1	0.15	2.0	3.11		ug/Kg	10/16/19	1:11	LA	443151
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
4,4'-DDT	SW8081B	1	0.13	2.0	4.81		ug/Kg	10/16/19	1:11	LA	443151
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/16/19	1:11	LA	443151
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/16/19	1:11	LA	443151
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/16/19	1:11	LA	443151
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	95.6		%	10/16/19	1:11	LA	443151
DCBP (S)	SW8081B		38 - 13	5	114		%	10/16/19	1:11	LA	443151



Report prepared for:	Tom McCloskeyDate/Time Received: 10/15/19, 1:00 pMcCloskey ConsultantsDate Reported: 10/16/1									:00 pm 0/16/19	
Client Sample ID:	EX-B-B-1				Lab Samp	le ID:	19101	40-007A			
Project Name/Location:	Los Altos H	I.S.			Sample M	atrix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 /	11:13									
SDG:											
Prep Method: 3546_OCP					Prep Batch	n Date/Tir	ne: 10/1	5/19	1:59:00F	M	
Prep Batch ID: 1117408					Prep Analy	/st:	MSA	T			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
The results shown below a	are reported usir	ng thei	r MDL.						<u> </u>		
alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	10/16/19	1:25	LA	443151
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	10/16/19	1:25	LA	443151
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	10/16/19	1:25	LA	443151
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	10/16/19	1:25	LA	443151
gamma-Chlordane	SW8081B	10	1.6	20	3.88	J	ug/Kg	10/16/19	1:25	LA	443151
alpha-Chlordane	SW8081B	10	1.7	20	2.52	J	ug/Kg	10/16/19	1:25	LA	443151
4,4'-DDE	SW8081B	10	1.9	20	112		ug/Kg	10/16/19	1:25	LA	443151
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Dieldrin	SW8081B	10	1.5	20	69.3		ug/Kg	10/16/19	1:25	LA	443151
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	10/16/19	1:25	LA	443151
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	10/16/19	1:25	LA	443151
4,4'-DDT	SW8081B	10	1.3	20	37.6		ug/Kg	10/16/19	1:25	LA	443151
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	10/16/19	1:25	LA	443151
Chlordane	SW8081B	10	21	200	26.9	J	ug/Kg	10/16/19	1:25	LA	443151
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	10/16/19	1:25	LA	443151
		А	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	103		%	10/16/19	1:25	LA	443151
DCBP (S)	SW8081B		38 - 13	5	107		%	10/16/19	1:25	LA	443151
NOTE: Sample diluted due to	o nature of the matri	x (dark,	viscous e	xtract)							



Report prepared for:	Tom McCloskey McCloskey Con	/ Isultant	s		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						
Client Sample ID:	EX-B-B-2				Lab Samp	le ID:	191014	40-008A			
Project Name/Location:	Los Altos H	I.S.			Sample Ma	atrix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 / 1	11:21									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 <i>ŕ</i>	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analy	st:	MSA	г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND	1	ug/Kg	10/16/19	1:38	LA	443151
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Dieldrin	SW8081B	1	0.15	2.0	5.41		ug/Kg	10/16/19	1:38	LA	443151
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
4,4'-DDD	SW8081B	1	0.57	2.0	2.66		ug/Kg	10/16/19	1:38	LA	443151
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
4,4'-DDT	SW8081B	1	0.13	2.0	29.9		ug/Kg	10/16/19	1:38	LA	443151
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/16/19	1:38	LA	443151
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/16/19	1:38	LA	443151
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/16/19	1:38	LA	443151
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	95.0		%	10/16/19	1:38	LA	443151
DCBP (S)	SW8081B		38 - 13	5	111		%	10/16/19	1:38	LA	443151
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 1	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analy	st:	MSA	Г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
4,4'-DDE	SW8081B	3	0.58	6.0	101	1	ug/Kg	10/16/19	13:02	LA	443151

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Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	5		Date/Time Received: 10/15/19, 1:00 pm Date Reported: 10/16/19						
Client Sample ID:	EX-B-B-3				Lab Sampl	e ID:	191014	10-009A			
Project Name/Location:	Los Altos H	I.S.			Sample Ma	atrix:	Soil				
Project Number:											
Date/Time Sampled:	10/15/19 / ⁻	11:25									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19 <i>*</i>	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analys	st:	MSA	т			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Dieldrin	SW8081B	1	0.15	2.0	2.36		ug/Kg	10/16/19	1:51	LA	443151
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
4,4'-DDD	SW8081B	1	0.57	2.0	2.03		ug/Kg	10/16/19	1:51	LA	443151
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
4,4'-DDT	SW8081B	1	0.13	2.0	15.9		ug/Kg	10/16/19	1:51	LA	443151
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/16/19	1:51	LA	443151
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/16/19	1:51	LA	443151
Toxaphene	SW8081B	1	8.5	50 Limite	ND		ug/Kg	10/16/19	1:51	LA	443151
TCMY (S)	C/1/10001 D	A	10 40	5	02.4		0/	10/16/10	1.51	1 4	110151
	SW0001D SW0001D		40 - 12	5 5	92.4		70 0/	10/16/19	1.51		443131
	300001B		30 - 13	5	100		70	10/10/19	1.51	LA	443131
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/15	5/19	1:59:00F	PM	
Prep Batch ID: 1117408					Prep Analys	st:	MSA	Г			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
4,4'-DDE	SW8081B	3	0.58	6.0	82.8		ug/Kg	10/16/19	13:15	LA	443151



MB Summary Report

Work Order:	1910140	Prep l	Method:	3546_OCP	Prep	Date:	10/15/19	Prep Batch:	1117408
Matrix:	Soil	Analy	tical	SW8081B	Anal	yzed Date:	10/15/2019	Analytical	443151
Units:	ug/Kg	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
alpha-BHC		0.13	2.0	ND					
gamma-BHC (Linda	ine)	0.16	2.0	ND					
beta-BHC		0.32	2.0	ND					
delta-BHC		0.16	2.0	ND					
Heptachlor		0.11	2.0	ND					
Aldrin		0.20	2.0	ND					
Heptachlor Epoxide	l.	0.078	2.0	ND					
gamma-Chlordane		0.16	2.0	ND					
alpha-Chlordane		0.17	2.0	ND					
4,4'-DDE		0.19	2.0	ND					
Endosulfan I		0.18	2.0	ND					
Dieldrin		0.15	2.0	ND					
Endrin		0.19	2.0	ND					
4,4'-DDD		0.57	2.0	ND					
Endosulfan II		0.58	2.0	ND					
4,4'-DDT		0.13	2.0	ND					
Endrin Aldehyde		0.15	2.0	ND					
Methoxychlor		0.20	2.0	ND					
Endosulfan Sulfate		0.12	2.0	ND					
Endrin Ketone		0.094	2.0	ND					
Chlordane		2.1	20	ND					
Toxaphene		8.5	50	ND					
TCMX (S)				90.2					
DCBP (S)				106					



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1910140		Prep Metho	d: 3546	_OCP	Prep Dat	te:	10/15/19	Prep Bat	ch: 1117	7408
Matrix:	Soil		Analytical	SW8081B		Analyzee	d Date:	10/15/2019	Analytical 443151		3151
Units:	ug/Kg		wethod.								
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lind	ane)	0.16	2.0	ND	40	93.3	98.8	5.73	25 - 135	30	
Heptachlor		0.11	2.0	ND	40	96.6	102	5.04	40 - 130	30	
Aldrin		0.20	2.0	ND	40	92.8	98.5	6.01	25 - 140	30	
Dieldrin		0.15	2.0	ND	40	91.5	96.6	5.32	60 - 130	30	
Endrin		0.19	2.0	ND	40	99.4	105	5.39	55 - 135	30	
4,4'-DDT		0.13	2.0	ND	40	100	104	3.91	45 - 140	30	
TCMX (S)					100	90.3	94.4		48 - 125		
DCBP (S)					100	106	112		38 - 135		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1910140		Prep Metho	d: 3546_0	CP	Prep Date:	10/1	5/19	Prep Batch:	1117408	3
Matrix:	Soil		Analytical	nalytical SW8081B		Analyzed Date: 10/16/2019			Analytical	443151	
Spiked Sample:	1910140-003A		Method:						Batch:		
Units:	ug/Kg										
Parameters		MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindar	ne)	1.59	20.0	ND	40	112	114	1.77	25 - 135	30	
Heptachlor		1.05	20.0	ND	40	122	123	1.22	40 - 130	30	
Aldrin		1.95	20.0	ND	40	113	116	2.18	25 - 140	30	
Dieldrin		1.48	20.0	ND	40	109	110	0.412	60 - 130	30	
Endrin		1.88	20.0	ND	40	117	118	1.49	55 - 135	30	
4,4'-DDT		1.29	20.0	ND	40	122	115	5.15	45 - 140	30	
TCMX (S)					100	112	114		48 - 125		
DCBP (S)					100	119	114		38 - 135		



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 gualifier 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.



Sample Receipt Checklist

Client Name: <u>McCloskey Consultants</u> Project Name: <u>Los Altos H.S.</u> Work Order No.: 1910140 Date and Time Received: <u>10/15/2019</u> <u>1:00:00PM</u> Received By: Helena Ueng Physically Logged By: Helena Ueng Checklist Completed By: Helena Ueng Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
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?	Yes
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?	Yes	Temperature:	3.0	°C
Water-VOA vials have zero headspace?	No VOA vials subm	nitted		
Water-pH acceptable upon receipt?	<u>N/A</u>			
pH Checked by: N/A	pH Adjusted by: N	/Α		

Comments:



Login Summary Report

Client ID:	TL5324	McCloskey Consultants	QC Level:	II
Project Name:	Los Altos H.S.		TAT Requested:	1 Day Rush:1
Project # :			Date Received:	10/15/2019
Report Due Date:	10/16/2019		Time Received:	1:00 pm

Comments:

Work Order # : 1910140

WO Sample ID	<u>Client</u> Sample ID	<u>Collection</u> <u>Date/Time</u>	<u>Matrix</u>	<u>Scheduled</u> Sam Disposal On H	ple <u>Test</u> Iold <u>On Hold</u>	<u>Requested</u> <u>Tests</u>	<u>Subbed</u>
1910140-001A	EX-B-SW-1	10/15/19 11:11	Soil	04/12/20		Pest_S_80810CP	
Sample Note:	*1-DAY RUSH! OCPs						
1910140-002A	EX-B-SW-2	10/15/19 11:15	Soil	04/12/20			
1910140-003A	EX-B-SW-3A	10/15/19 11:17	Soil	04/12/20		Pest_S_8081OCP	
1910140-004A	EX-B-SW-3B	10/15/19 11:19	Soil	04/12/20		Pest_S_8081OCP	
1910140-005A	EX-B-SW-4	10/15/19 11:23	Soil	04/12/20		Pest_S_8081OCP	
1910140-006A	EX-B-SW-5	10/15/19 11:27	Soil	04/12/20		Pest_S_8081OCP	
1910140-007A	EX-B-B-1	10/15/19 11:13	Soil	04/12/20		Pest_S_80810CP	
1910140-008A	EX-B-B-2	10/15/19 11:21	Soil	04/12/20		Pest_S_80810CP	
1910140-009A	EX-B-B-3	10/15/19 11:25	Soil	04/12/20		Pest_S_80810CP	
	-					Pest_S_80810CP	



	483 Sinclair Fronta Milpitas, CA 95035 Phone: 408.263.52 FAX: 408.263.8293 www.torrentlab.com	ge Road 5 58 1	• NOTE: SHA	CHA	IN OF	CUST OR TORREN	T LAB USE ONL	lab work order no y• 19/0140
Company Name: MCI - McClo	skey		Env.] Special	Project #:	os Altas	lf.5.	PO #:
Address: 420 Sxcamore Valle	y Rd West	*			Project Name			
city: Danville	State: QA	Zip Cod	e: 94526		Comments:	Aut		
Telephone:	Cell: 925.78	6.2667	Sec. 2.		SAMPLER: (tins Ver	tin Qi	uote #:
REPORT TO: TOM Mc loskey / Wis	BILL TO:				EMAIL:			
TURNAROUND TIME:	SAMPLE TYPE	: RE	PORT FORMAT:					
10 Work Days 4 Work Days	ay Storm Water	Air	Excel - EDD					ANALYSIS
7 Work Days 3 Work Days Noon - No	t Day	Other	EDF 🛄 StdEDD)				REQUESTED
5 Work Days 2 Work Days 2 - 8 Hour	rs Soil D Pro	oduct / Bulk	QC Level IV	je,				1
LAB ID CANISTER I.D. CLIENT'S SAMPLE I.	D. DATE / TIME SAMPLED	MATRIX #	OF CONT ONT TYPE	0				REMARKS
001A Ex-B-SW-1	10/15/19 11-11	501 X	1 402 glass	X				
0024 Ex-B - Sw.2	11:15				1	-		
-003A Ex-B-Sw-3A	1417							
-004A EX-B-SW-3B	11:19					R,		
-005A EX-B-5w-4	123					10	SL	
-016A EX-B-5W-5	11:25	7				1-0		
007N EX-B-B-1	1113					-1	Y	
-008H EX-B-B-2	(1:21			ų.				2月77年,武士。
-009K EX-B-B-3	11:25						1	
h								
Relinquished By: Belinquished By: Print:	ertin' 10/1. Date:	5/19 Tir Tir	ne: 3:10 ne:	Receiv	ved By: Her ved By:	Print: 7 Hefer Print:	Dat	le: Time: /370 te: Time:
Were Samples Received in Good Condition?	Yes NO S 30 days from date of r	amples on Ice?	NO ner arrangements	Metho are made	d of Shipment	0/2	Sample 2 #2	e seals intact? Yes NO



Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos H.S.

Work Order No.: 1910146

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 1 sample(s) on October 16, 2019 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

October 17, 2019 Date



Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos H.S.

Work Order No.: 1910146

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Kathie Evans Project Manager

October 17, 2019 Date



Date: 10/17/2019

Client: McCloskey Consultants Project: Los Altos H.S. Work Order: 1910146

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 Analytical, Inc.



Date: 10/17/2019

Client: McCloskey Consultants Project: Los Altos H.S. Work Order: 1910146

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.

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Sample Result Summary

Report prepared for:	Tom McCloskey	Date	Date Received:				
	McCloskey Consultants				Date	Reported: 1	0/17/19
EX-A-SW-1A						19 [,]	10146-001
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE		SW8081B	1	0.19	2.0	10.2	ug/Kg

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S				Date/Time	e Received Date	1: 10/1 Repo	6/19, 3 rted: 1	3:03 pm 0/17/19
Client Sample ID:	EX-A-SW-1	A			Lab Sample	e ID:	191014	46-001A			
Project Name/Location:	Los Altos H	I.S.			Sample Ma	trix:	Soil				
Project Number:											
Date/Time Sampled:	10/16/19 / 1	14:20									
SDG:											
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/16	6/19 5	5:51:00F	PM	
Prep Batch ID: 1117463					Prep Analys	st:	SNA	RASIMHAN			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
4,4'-DDE	SW8081B	1	0.19	2.0	10.2		ug/Kg	10/17/19	1:25	LA	443178
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Dieldrin	SW8081B	1	0.15	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
4,4'-DDT	SW8081B	1	0.13	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/17/19	1:25	LA	443178
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/17/19	1:25	LA	443178
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/17/19	1:25	LA	443178
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	69.6		%	10/17/19	1:25	LA	443178
DCBP (S)	SW8081B		38 - 13	5	93.0		%	10/17/19	1:25	LA	443178



MB Summary Report

Work Order:	1910146	Prep l	Method:	3546_OCP	Prep	Date:	10/16/19	Prep Batch:	1117463
Matrix:	Soil	Analy	tical	SW8081B	Anal	yzed Date:	10/17/2019	Analytical	443178
Units:	ug/Kg	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
alpha-BHC		0.13	2.0	ND					
gamma-BHC (Linda	ane)	0.16	2.0	ND					
beta-BHC		0.32	2.0	ND					
delta-BHC		0.16	2.0	ND					
Heptachlor		0.11	2.0	ND					
Aldrin		0.20	2.0	ND					
Heptachlor Epoxide)	0.078	2.0	ND					
gamma-Chlordane		0.16	2.0	ND					
alpha-Chlordane		0.17	2.0	ND					
4,4'-DDE		0.19	2.0	ND					
Endosulfan I		0.18	2.0	ND					
Dieldrin		0.15	2.0	ND					
Endrin		0.19	2.0	ND					
4,4'-DDD		0.57	2.0	ND					
Endosulfan II		0.58	2.0	ND					
4,4'-DDT		0.13	2.0	ND					
Endrin Aldehyde		0.15	2.0	ND					
Methoxychlor		0.20	2.0	ND					
Endosulfan Sulfate		0.12	2.0	ND					
Endrin Ketone		0.094	2.0	ND					
Chlordane		2.1	20	ND					
Toxaphene		8.5	50	ND					
TCMX (S)				90.4					
DCBP (S)				93.5					



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1910146		Prep Metho	d: 3546	_OCP	Prep Dat	te:	10/16/19	Prep Bat	ch: 1117	7463
Matrix:	Soil		Analytical	SW8	081B	Analyzee	d Date:	10/17/2019	Analytica Batch:	al 443	3178
Units:	ug/Kg		Wethou.					Batch.			
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lind	lane)	0.16	2.0	ND	40	91.3	90.0	1.38	25 - 135	30	
Heptachlor		0.11	2.0	ND	40	93.7	91.8	2.16	40 - 130	30	
Aldrin		0.20	2.0	ND	40	89.4	87.8	1.69	25 - 140	30	
Dieldrin		0.15	2.0	ND	40	87.6	86.4	1.44	60 - 130	30	
Endrin		0.19	2.0	ND	40	92.2	90.6	1.92	55 - 135	30	
4,4'-DDT		0.13	2.0	ND	40	83.6	81.3	2.73	45 - 140	30	
TCMX (S)					100	91.3	89.8		48 - 125		
DCBP (S)					100	92.9	92.9		38 - 135		



Laboratory Qualifiers and Definitions

DEFINITIONS:

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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)

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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 gualifier 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.



Sample Receipt Checklist

Client Name: <u>McCloskey Consultants</u> Project Name: <u>Los Altos H.S.</u> Work Order No.: 1910146 Date and Time Received: <u>10/16/2019</u> <u>3:03:00PM</u> Received By: Helena Ueng Physically Logged By: Helena Ueng Checklist Completed By: Helena Ueng Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
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?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	<u>Yes</u>
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?	Yes	Temperature:	5.0	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?	<u>N/A</u>			
pH Checked by: N/A	pH Adjusted by: N	/A		

Comments:



Login Summary Report

Client ID:	TL5324	McCloskey Consultants			QC Level:	II	
Project Name:	Los Altos H.S.				TAT Request	ed: 1 Day Rush:1	
Project # :					Date Receive	d: 10/16/2019	
Report Due Date:	10/17/2019				Time Receive	ed: 3:03 pm	
Comments:							
Work Order # :	1910146						
WO Sample ID	<u>Client</u> Sample ID	<u>Collection</u> Date/Time	<u>Matrix</u>	Scheduled Sam Disposal On	nple <u>Test</u> Hold <u>On Hold</u>	<u>Requested</u> <u>Tests</u>	<u>Subbed</u>
1910146-001A	EX-A-SW-1A	10/16/19 14:20	Soil	04/13/20		Pest_S_80810CP	
Sample Note:	*1-DAY RUSH! C)CPs					



	483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293 www.torrentlab.com	• NOTE: SHADED A	IN OF CUSTODY REAS ARE FOR TORRENT LAB USE ONLY •	LAB WORK ORDER NO
Company Name: MCI - Mc Closka	Y C	Env. 🔲 Special	Project #: 105 Altos H.S PO #:	
Address: 420 Syramore Valley	Polivost		Project Name:	
City: Danville	State: (A Zip	Code: 94526	Comments:	
Telephone:	Cell: 925,786.2467	7	SAMPLER: hrs Vertin Quote #:	
REPORT TO: TOM Mc Closley / Chris	BILL TO:		EMAIL:	
TURNAROUND TIME:	SAMPLE TYPE:	REPORT FORMAT:		
10 Work Days 4 Work Days 1 Work D 7 Work Days 3 Work Days Noon - N: 5 Work Days 2 Work Days 2 - 8 Hou	Air Air Air Waste Water Air Wipe Ground Water Other rs Soil Product / Bulk	Level II - Sta. Excel - EDD EDF StdEDD QC Level III QC Level IV		ANALYSIS REQUESTED
LAB ID CANISTER I.D. CLIENT'S SAMPLE I.	D. DATE / TIME MATRIX	# OF CONT CONT TYPE		REMARKS
-00/X EX-A-5W-1A	10.16.19 14-20 Soil	1 Hozghas X		研究的资料
Refindujshed By: / Print:		Time: Receiv	ed By:	
2 Relinquished By: Print:	Date:	Time: Receiv	ed By: Print: Date:	7.000 Time:
Were Samples Received in Good Condition?	Yes NO Samples on I y 30 days from date of receipt unles	ce? Yes NO Methods so other arrangements are made	t of Shipment \underline{D} Sample seals $5 + \frac{1}{2}$	



Tom McCloskey McCloskey Consultants 420 Sycamore Valley Road West Danville, California 94526 Tel: 925 786 2667 Email: tom@mccloskeyconsultants.com

RE: Los Altos High School

Work Order No.: 1910268

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 3 sample(s) on October 29, 2019 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.

Patti L Sandrock QA Officer

October 30, 2019 Date



Date: 10/30/2019

Client: McCloskey Consultants Project: Los Altos High School Work Order: 1910268

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 Analytical, Inc.



Sample Result Summary

Report prepared for:	Tom McCloskey	Date Received: 10/29/19 Date Reported: 10/30/19								
	McCloskey Consultants									
EX-B-SW-1A	-					• 19 [·]	1910268-007			
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>			
4,4'-DDE		SW8081B	1	0.19	2.0	6.92	ug/Kg			
Dieldrin		SW8081B	1	0.15	2.0	4.29	ug/Kg			
EX-B-SW-2A		1910268-00								
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	PQL	<u>Results</u>	<u>Unit</u>			
4,4'-DDE		SW8081B	1	0.19	2.0	26.3	ug/Kg			
Dieldrin		SW8081B	1	0.15	2.0	5.13	ug/Kg			
4,4'-DDT		SW8081B	1	0.13	2.0	2.79	ug/Kg			
EX-B-B-1A@2'						19 [.]	10268-003			
Parameters:		<u>Analysis</u> <u>Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>			
4,4'-DDE		SW8081B	1	0.19	2.0	28.0	ug/Kg			
Dieldrin		SW8081B	1	0.15	2.0	2.96	ug/Kg			
4,4'-DDT		SW8081B	1	0.13	2.0	2.09	ug/Kg			



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S		Date/Time Received: 10/29/19, 1:38 pr Date Reported: 10/30/1						
Client Sample ID: Project Name/Location:	EX-B-SW-1A Los Altos High School 10/27/19 / 12:54				Lab Samp Sample M	le ID: atrix:	1910268-001A Soil				
Date/Time Sampled: SDG:											
Prep Method: 3546_OCP Prep Batch ID: 1117791					Prep Batch Prep Analy	n Date/Tii /st:	me: 10/29 SNAI)/19 3 RASIMHAN	3:27:00F	ΡM	
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
4,4'-DDE	SW8081B	1	0.19	2.0	6.92		ug/Kg	10/29/19	18:17	LA	443484
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Dieldrin	SW8081B	1	0.15	2.0	4.29		ug/Kg	10/29/19	18:17	LA	443484
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
4,4'-DDT	SW8081B	1	0.13	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/29/19	18:17	LA	443484
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/29/19	18:17	LA	443484
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/29/19	18:17	LA	443484
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	85.8		%	10/29/19	18:17	LA	443484
DCBP (S)	SW8081B		38 - 13	5	82.7		%	10/29/19	18:17	LA	443484



Report prepared for:	Tom McCloskey McCloskey Con	/ Isultant	s		Date/Time Received: 10/29/19, 1:38 pm Date Reported: 10/30/19						
Client Sample ID:	EX-B-SW-2		Lab Samp	le ID:	19102	68-002A					
Project Name/Location:	Los Altos H		Sample Ma	atrix:	Soil						
Project Number:	10/27/10 / /	12.57									
SDG:	10/27/13/	12.57									
Prep Method: 3546_OCP					Prep Batch	Date/Ti	me: 10/2	9/19 3	3:27:00F	PM	
Prep Batch ID: 1117791					Prep Analy	st:	SNA	RASIMHAN			
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
4,4'-DDE	SW8081B	1	0.19	2.0	26.3		ug/Kg	10/29/19	18:30	LA	443484
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Dieldrin	SW8081B	1	0.15	2.0	5.13		ug/Kg	10/29/19	18:30	LA	443484
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
4,4'-DDT	SW8081B	1	0.13	2.0	2.79		ug/Kg	10/29/19	18:30	LA	443484
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/29/19	18:30	LA	443484
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/29/19	18:30	LA	443484
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/29/19	18:30	LA	443484
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	87.7		%	10/29/19	18:30	LA	443484
DCBP (S)	SW8081B		38 - 13	5	83.0		%	10/29/19	18:30	LA	443484
UCDF (3)	200001B		30 - 13	ບ	03.U		%	10/29/19	10:30	LA	44348



Report prepared for:	Tom McCloskey McCloskey Con	/ sultant	S				Date/Time	e Received Date	d: 10/2 • Repo	9/19, 1 r ted: 1	:38 pm 0/30/19
Client Sample ID: Project Name/Location:	EX-B-B-1A@2' Los Altos High School 10/27/19 / 13:00				Lab Samp Sample M	le ID: atrix:	1910268-003A Soil				
Project Number: Date/Time Sampled: SDG:											
Prep Method: 3546_OCP Prep Batch ID: 1117791					Prep Batch Prep Analy	n Date/Tii /st:	me: 10/29 SNAI)/19 3 RASIMHAN	3:27:00F	Μ	
Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	Ву	Analytical Batch
alpha-BHC	SW8081B	1	0.13	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
gamma-BHC (Lindane)	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
beta-BHC	SW8081B	1	0.32	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
delta-BHC	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Heptachlor	SW8081B	1	0.11	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Aldrin	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Heptachlor Epoxide	SW8081B	1	0.078	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
gamma-Chlordane	SW8081B	1	0.16	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
alpha-Chlordane	SW8081B	1	0.17	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
4,4'-DDE	SW8081B	1	0.19	2.0	28.0		ug/Kg	10/29/19	18:44	LA	443484
Endosulfan I	SW8081B	1	0.18	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Dieldrin	SW8081B	1	0.15	2.0	2.96		ug/Kg	10/29/19	18:44	LA	443484
Endrin	SW8081B	1	0.19	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
4,4'-DDD	SW8081B	1	0.57	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Endosulfan II	SW8081B	1	0.58	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
4,4'-DDT	SW8081B	1	0.13	2.0	2.09		ug/Kg	10/29/19	18:44	LA	443484
Endrin Aldehyde	SW8081B	1	0.15	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Methoxychlor	SW8081B	1	0.20	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Endosulfan Sulfate	SW8081B	1	0.12	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Endrin Ketone	SW8081B	1	0.094	2.0	ND		ug/Kg	10/29/19	18:44	LA	443484
Chlordane	SW8081B	1	2.1	20	ND		ug/Kg	10/29/19	18:44	LA	443484
Toxaphene	SW8081B	1	8.5	50	ND		ug/Kg	10/29/19	18:44	LA	443484
		A	cceptance	e Limits							
TCMX (S)	SW8081B		48 - 12	5	88.4		%	10/29/19	18:44	LA	443484
DCBP (S)	SW8081B		38 - 13	5	86.6		%	10/29/19	18:44	LA	443484



MB Summary Report

Work Order:	der: 1910268 Prep Method: 3546_OCP Prep Date		Date:	10/29/19	Prep Batch:	1117791			
Matrix:	Soil	Analy	tical	SW8081B	Anal	Analyzed Date:		Analytical	443484
Units:	ug/Kg	Method: ug/Kg				Batch:			
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
alpha-BHC		0.13	2.0	ND					
gamma-BHC (Lind	dane)	0.16	2.0	ND					
beta-BHC		0.32	2.0	ND					
delta-BHC		0.16	2.0	ND					
Heptachlor		0.11	2.0	ND					
Aldrin		0.20	2.0	ND					
Heptachlor Epoxic	le	0.078	2.0	ND					
gamma-Chlordane	e	0.16	2.0	ND					
alpha-Chlordane		0.17	2.0	ND					
4,4'-DDE		0.19	2.0	ND					
Endosulfan I		0.18	2.0	ND					
Dieldrin		0.15	2.0	ND					
Endrin		0.19	2.0	ND					
4,4'-DDD		0.57	2.0	ND					
Endosulfan II		0.58	2.0	ND					
4,4'-DDT		0.13	2.0	ND					
Endrin Aldehyde		0.15	2.0	ND					
Methoxychlor		0.20	2.0	ND					
Endosulfan Sulfat	е	0.12	2.0	ND					
Endrin Ketone		0.094	2.0	ND					
Chlordane		2.1	20	ND					
Toxaphene		8.5	50	ND					
TCMX (S)				96.2					
DCBP (S)				92.3					



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1910268		Prep Method: 3546_O		_OCP	Prep Date:		10/29/19	Prep Batch: 1117791			
Matrix:	Soil		Analytical Method	SW8	081B	Analyze	Analyzed Date:		Analytical 443484			
Units:	ug/Kg		wethod:						Daton:			
Parameters		MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier	
gamma-BHC (Linda	ane)	0.16	2.0	ND	40	100	98.6	1.51	25 - 135	30		
Heptachlor		0.11	2.0	ND	40	101	101	0.247	40 - 130	30		
Aldrin		0.20	2.0	ND	40	99.1	98.4	0.760	25 - 140	30		
Dieldrin		0.15	2.0	ND	40	96.2	95.3	1.04	60 - 130	30		
Endrin		0.19	2.0	ND	40	102	101	0.988	55 - 135	30		
4,4'-DDT		0.13	2.0	ND	40	101	101	0.248	45 - 140	30		
TCMX (S)					100	100	99.2		48 - 125			
DCBP (S)					100	97.6	94.7		38 - 135			



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 gualifier 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.



Sample Receipt Checklist

Client Name: <u>McCloskey Consultants</u> Project Name: <u>Los Altos High School</u> Work Order No.: 1910268 Date and Time Received: <u>10/29/2019</u> <u>1:38:00PM</u> Received By: Katherene Evans 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?	<u>Yes</u>
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?	Yes
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: 7.0 °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: N/A	pH Adjusted by: N/A

Comments:

Samples transported on ice



Login Summary Report

Client ID:	TL5324	McClosk	ey Consult	ants			QC	Clevel:	I	l	
Project Name:	Los Altos High	School					TA	T Reques	ted:	1 Day Rush:1	
Project # :							Da	te Receive	ed:	10/29/2019	
Report Due Date:	10/30/2019						Tir	ne Receiv	ed:	1:38 pm	
Comments:											
Work Order # :	1910268										
WO Sample ID	<u>Client</u> Sample ID		<u>Colle</u> Date/	<u>ction</u> /Time	<u>Matrix</u>	<u>Scheduled</u> <u>Disposal</u>	<u>Sample</u> On Hold	<u>Test</u> On Hold	<u>Reques</u> Tests	sted	Subbed
1910268-001A	EX-B-SW-1A		10/27/19	12:54	Soil	04/24/20			Pest S	8081OCP	
Sample Note:	*1-DAY RUSH!	OCPs							_	_	
1910268-002A	EX-B-SW-2A		10/27/19	12:57	Soil	04/24/20					
1910268-003A	EX-B-B-1A@2	2'	10/27/19	13:00	Soil	04/24/20			Pest_S	_80810CP	

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com

Pest_S_80810CP


Torrowt	483 Sinclair Frontage Road Milpitas, CA 95035	CHA	IN OF CUSTODY	LAB WORK ORDER NO
LABORATORY, INC.	Phone: 408.263.5258 FAX: 408.263.8293	• NOTE: SHADED A	REAS ARE FOR TORRENT LAB USE O	NLY. 1910268
Company Name: MCT - Mc Closlan	1 Augustants	Env. D Special	Project #:	PO #:
Address: 420 Sycamore Valley	Rd West		Project Name: Los Altos High S	chool.
City: Danville	State: CA 2	Zip Code: 94526	Comments:	
Telephone:	Cell:		SAMPLER his Vortin	Quote #:
REPORT TO: Ton Mc (Islay / Chris	BILL TO: MCL-		EMAIL:	
TURNAROUND TIME: Vert	SAMPLE TYPE:	REPORT FORMAT:		
10 Work Days 4 Work Days 1 Work I	Day Storm Water Ai	r Excel - EDD		ANALYSIS
7 Work Days 3 Work Days Noon - N	Nxt Day Waste Water W	her EDF StdEDD		REQUESTED
5 Work Days 2 Work Days 2 - 8 Hol	urs Soil Product / Bul			
LAB ID CANISTER I.D. CLIENT'S SAMPLE I	I.D. DATE / TIME SAMPLED MATE	RIX # OF CONT CONT CONT TYPE		REMARKS
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0024 EX-B-SW-2A	12.57	X		
003A EX-B-B-IAe	2 1300		Y.	
			RICL	
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			I-DAV	
1 Relinquished By	etin Date:	Time:	Print:	Date: Time:
Relinquished By: Print:	Date:	Time: Receiv	ed By: Print:	Date: Time:
Were Samples Received in Good Condition?	Ves NO Samples of	on Ice?	f of Shipment Dio AL S	ample seals intact?
NOTE: Samples are discarded by the laborator	ry 30 days from date of receipt ur	nless other arrangements are mad	700 1127	
Log In By: Date:	Labeled By:	Date:	Temp	Page of Bey 4

ease print or type.		<u>Ga</u>	KP	44		n Approved	. OMB No.	2050-00
UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Page 1 of 3. E	mergency Response	e Phone	4. Manifest	Tracking N 133	umber 317	08 F	E
5. Generator's Name and Mailing Address 1299 BRYANT STREET MOUNTAIN VIEW, CA 94403 USA 925-765-1532 Generator's Phone:	Gen 20 LC	erator's Site Address 1 ALMOND AV IS ALTOS, CA	(if different th E 94022 U	an mailing addre: SA	ss) aad2 lane	6. Internau	ne m Itam 1	
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	100							
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ga. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Cla and Packing Group (if any))	ss, ID Number,	10. Contai No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	5
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Highway 95, 11 Milles S of Beatty Beatty, NV 89003 USA Facilitys Phone: 775-553-2203				elhongmenta				
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orm 8700-22	(Rev.	12-17)	Previous editions are obsolete.	

Appendix D

Laboratory Analytical Reports



ANALYTICAL REPORT

McCloskey Consulting - Danville, CA

Sample Delivery Group: Samples Received: L1227097 06/09/2020

Project Number: Description:

Los Altos High School PEA Sampling

Report To:

Tom McCloskey/Chris Vertin 420 Sycamore Valley Rd West Danville, CA 94526



Brian Ford

Brian Ford Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

PROJECT:

SDG: L1227097 DATE/TIME: 06/17/20 18:50 Тс

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ACCOUNT: McCloskey Consulting - Danville, CA PROJECT:

SDG: L1227097 DATE/TIME: 06/17/20 18:50 PAGE: 2 of 38

SAMPLE SUMMARY

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BP-1A L1227097-01 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 09:15	Received da 06/09/20 08	te/time 1:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490976	1	06/11/20 22:20	06/11/20 22:31	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:17	TRB	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BP-1B L1227097-02 Solid			Chris Vertin	06/05/20 09:18	06/09/20 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:35	TRB	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BP-2 L1227097-03 Solid			Cinis Vertin	00/03/20 03:10	00/03/20 00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:38	TRB	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BP-3 L1227097-04 Solid			Chris Vertin	06/05/20 09:50	06/09/20 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:47	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1492151	1	06/16/20 00:03	06/16/20 11:52	HMH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1492151	1	06/16/20 00:03	06/16/20 10:23	MTJ	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BP-4 L1227097-05 Solid			Chris Vertin	06/05/20 09:45	06/09/20 08	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Calida by Mathad 2E40 C 2011	WC1400077	1	date/time	date/time	KDW	Mt Juliat TN
I utal sullus by Method 6010R	WC14909//	1	06/11/20 22:05	06/12/20 10-50		Mt Juliot TN
Pesticides (GC) by Method 8081	WG1490300 WC1/03151	ı 1	00/11/20 14.49	06/16/20 13:00	алт НМЦ	Mt Juliot TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1492151	1	06/16/20 00:03	06/16/20 10:37	MTJ	Mt. Juliet, Th
			Collected by	Collected data lim-	Docoised de	to/time
BP-5 L1227097-06 Solid			Chris Vertin	06/05/20 09:34	06/09/20 08	::45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:53	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1492151	1	06/16/20 00:03	06/16/20 12:17	HMH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1492151	1	06/16/20 00:03	06/16/20 10:50	MTJ	Mt. Juliet, TN

PROJECT:

SDG: L1227097

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PD 6 11227007 07 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 12:57	Received da 06/09/20 08	te/time 8:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:56	TRB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1491271	1	06/12/20 08:21	06/13/20 12:05	MTJ	Mt. Juliet, TN
BP-7 (0.75-1) L1227097-08 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 11:47	Received da 06/09/20 08	te/time 8:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 19:59	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 12:29	HMH	Mt. Juliet, TN
BP-8 (0.5-1) L1227097-09 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 11:38	Received da 06/09/20 08	te/time 3:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt Juliet TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 20:02	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 12:42	НМН	Mt. Juliet, TN
BP-9 (0.5-1) L1227097-10 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 11:30	Received da 06/09/20 08	te/time 3:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 20:05	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 12:54	HMH	Mt. Juliet, TN
BP-10 L1227097-11 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 12:50	Received da 06/09/20 08	te/time 8:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 20:08	TRB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1491271	1	06/12/20 08:21	06/13/20 12:46	MTJ	Mt. Juliet, TN
AG-1A L1227097-12 Solid			Collected by Chris Vertin	Collected date/time 06/05/20 10:56	Received da 06/09/20 08	te/time 8:45
Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490978	1	06/11/20 21:48	06/11/20 22:02	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 20:11	TRB	Mt. Juliet, TN
	14/04/1000/15	1	00,40,000,00,00	00/10/20 12:00		MA LUCAL TH

PROJECT:

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			Collected by	Collected date/time	Received da	te/time
AG-18 L1227097-13 Solid			Chins vertin	06/05/20 10.58	06/09/20 06	0.40
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1490978	1	06/11/20 21:48	06/11/20 22:02	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	1	06/11/20 14:49	06/12/20 20:14	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 13:19	HMH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AG-2 L1227097-14 Solid			Chris Vertin	06/05/20 15:07	06/09/20 08	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1490978	1	06/11/20 21:48	06/11/20 22:02	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490560	5	06/11/20 14:49	06/13/20 16:41	CCE	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 13:31	HMH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AG-3 L1227097-15 Solid			Chris Vertin	06/05/20 14:06	06/09/20 08	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1490978	1	06/11/20 21:48	06/11/20 22:02	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490492	1	06/10/20 18:35	06/12/20 15:30	TRB	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/16/20 13:43	HMH	Mt. Juliet, TN
Pesticides (GC) by Method 8081	WG1493045	1	06/16/20 06:28	06/17/20 02:15	HMH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AG-4 L1227097-16 Solid			Chris Vertin	06/05/20 14:30	06/09/20 08	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1490978	1	06/11/20 21:48	06/11/20 22:02	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1490492	1	06/10/20 18:35	06/12/20 15:38	TRB	Mt. Juliet, TN
	WC140204E	1	0040100 00 00	00/10/20 12 50		

SDG: L1227097

CASE NARRATIVE

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Buar Ford

Brian Ford Project Manager



SDG: L1227097 DATE/TIME: 06/17/20 18:50

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DETECTION SUMMARY

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Metals (ICP) by Method 6010B

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch	Ср
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time		2
BP-1A	L1227097-01	Lead	38.7	J5 O1	0.281	0.562	1	06/12/2020 19:17	WG1490560	IC
BP-1B	L1227097-02	Lead	33.9		0.277	0.555	1	06/12/2020 19:35	WG1490560	
BP-2	L1227097-03	Lead	159		0.283	0.567	1	06/12/2020 19:38	WG1490560	³ Ss
BP-3	L1227097-04	Lead	3.99		0.280	0.561	1	06/12/2020 19:47	WG1490560	
BP-5	L1227097-06	Lead	1.68		0.280	0.560	1	06/12/2020 19:53	WG1490560	4
BP-6	L1227097-07	Lead	21.0		0.285	0.570	1	06/12/2020 19:56	WG1490560	Cn
BP-7 (0.75-1)	L1227097-08	Lead	1.95		0.287	0.573	1	06/12/2020 19:59	WG1490560	
BP-8 (0.5-1)	L1227097-09	Lead	73.6		0.293	0.586	1	06/12/2020 20:02	WG1490560	⁵ Ds
BP-9 (0.5-1)	L1227097-10	Lead	13.0		0.293	0.586	1	06/12/2020 20:05	WG1490560	
BP-10	L1227097-11	Lead	21.6		0.301	0.601	1	06/12/2020 20:08	WG1490560	6
AG-1A	L1227097-12	Lead	21.6		0.318	0.636	1	06/12/2020 20:11	WG1490560	Sr
AG-1B	L1227097-13	Arsenic	1.58	J	1.19	2.38	1	06/12/2020 20:14	WG1490560	
AG-1B	L1227097-13	Lead	26.4		0.297	0.594	1	06/12/2020 20:14	WG1490560	⁷ Qc
AG-3	L1227097-15	Arsenic	4.36		1.09	2.18	1	06/12/2020 15:30	WG1490492	
AG-3	L1227097-15	Lead	34.8		0.272	0.544	1	06/12/2020 15:30	WG1490492	8
AG-4	L1227097-16	Arsenic	2.17	J	1.10	2.19	1	06/12/2020 15:38	WG1490492	G
AG-4	L1227097-16	Lead	16.2		0.274	0.548	1	06/12/2020 15:38	WG1490492	
										⁹ Al

Pesticides (GC) by Method 8081

	10											
			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch			
Client ID Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time					
BP-3	L1227097-04	4,4-DDE	0.00682	J	0.00411	0.0224	1	06/16/2020 11:52	WG1492151			
BP-8 (0.5-1)	L1227097-09	4,4-DDE	0.0136	J	0.00429	0.0234	1	06/16/2020 12:42	WG1493045			
BP-9 (0.5-1)	L1227097-10	4,4-DDE	0.0117	J	0.00429	0.0234	1	06/16/2020 12:54	WG1493045			
AG-1A	L1227097-12	4,4-DDE	0.00882	J	0.00465	0.0254	1	06/16/2020 13:06	WG1493045			
AG-1B	L1227097-13	4,4-DDE	0.00765	J	0.00435	0.0238	1	06/16/2020 13:19	WG1493045			
AG-3	L1227097-15	4,4-DDE	0.252		0.00399	0.0218	1	06/16/2020 13:43	WG1493045			
AG-3	L1227097-15	4,4-DDT	0.0302		0.00683	0.0218	1	06/17/2020 02:15	WG1493045			
AG-4	L1227097-16	4,4-DDE	0.0480		0.00401	0.0219	1	06/16/2020 13:56	WG1493045			

SDG: L1227097

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.9		1	06/11/2020 22:31	WG1490976	Tc

Metals (ICP) by Method 6010B

Collected date/time: 06/05/20 09:15

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	38.7	J5 O1	0.281	0.562	1	06/12/2020 19:17	WG1490560

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.1		1	06/11/2020 22:16	WG1490977	Tc

Metals (ICP) by Method 6010B

Collected date/time: 06/05/20 09:18

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	33.9		0.277	0.555	1	06/12/2020 19:35	WG1490560

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.2		1	06/11/2020 22:16	WG1490977	Tc

Metals (ICP) by Method 6010B

Collected date/time: 06/05/20 09:10

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	159		0.283	0.567	1	06/12/2020 19:38	WG1490560

SDG:

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.2		1	06/11/2020 22:16	WG1490977

Metals (ICP) by Method 6010B

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		1.12	2.24	1	06/12/2020 19:47	WG1490560
Lead	3.99		0.280	0.561	1	06/12/2020 19:47	<u>WG1490560</u>

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ٌSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00422	0.0224	1	06/16/2020 11:52	WG1492151	7
Alpha BHC	U		0.00413	0.0224	1	06/16/2020 11:52	WG1492151	QC
Beta BHC	U		0.00425	0.0224	1	06/16/2020 11:52	WG1492151	8
Delta BHC	U		0.00388	0.0224	1	06/16/2020 11:52	WG1492151	Ğl
Gamma BHC	U		0.00386	0.0224	1	06/16/2020 11:52	WG1492151	
4,4-DDD	U		0.00415	0.0224	1	06/16/2020 11:52	WG1492151	9 <mark>/</mark> 1
4,4-DDE	0.00682	J	0.00411	0.0224	1	06/16/2020 11:52	WG1492151	A
4,4-DDT	U		0.00703	0.0224	1	06/16/2020 11:52	WG1492151	10
Dieldrin	U		0.00386	0.0224	1	06/16/2020 11:52	WG1492151	Sc
Endosulfan I	U		0.00407	0.0224	1	06/16/2020 11:52	WG1492151	
Endosulfan II	U		0.00376	0.0224	1	06/16/2020 11:52	WG1492151	
Endosulfan sulfate	U		0.00408	0.0224	1	06/16/2020 11:52	WG1492151	
Endrin	U		0.00393	0.0224	1	06/16/2020 11:52	WG1492151	
Endrin aldehyde	U		0.00380	0.0224	1	06/16/2020 11:52	WG1492151	
Endrin ketone	U		0.00798	0.0224	1	06/16/2020 11:52	WG1492151	
Heptachlor	U		0.00480	0.0224	1	06/16/2020 11:52	WG1492151	
Heptachlor epoxide	U		0.00380	0.0224	1	06/16/2020 11:52	WG1492151	
Hexachlorobenzene	U		0.00388	0.0224	1	06/16/2020 11:52	WG1492151	
Methoxychlor	U		0.00543	0.0224	1	06/16/2020 11:52	WG1492151	
Chlordane	U		0.116	0.337	1	06/16/2020 11:52	WG1492151	
Toxaphene	U		0.139	0.449	1	06/16/2020 11:52	WG1492151	
(S) Decachlorobiphenyl	58.3			10.0-135		06/16/2020 11:52	WG1492151	
(S) Tetrachloro-m-xylene	59.7			10.0-139		06/16/2020 11:52	WG1492151	

Polychlorinated Biphenyls (GC) by Method 8082

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0132	0.0381	1	06/16/2020 10:23	WG1492151
PCB 1221	U		0.0132	0.0381	1	06/16/2020 10:23	WG1492151
PCB 1232	U		0.0132	0.0381	1	06/16/2020 10:23	WG1492151
PCB 1242	U		0.0132	0.0381	1	06/16/2020 10:23	WG1492151
PCB 1248	U		0.00828	0.0191	1	06/16/2020 10:23	WG1492151
PCB 1254	U		0.00828	0.0191	1	06/16/2020 10:23	WG1492151
PCB 1260	U		0.00828	0.0191	1	06/16/2020 10:23	WG1492151
(S) Decachlorobiphenyl	67.7			10.0-135		06/16/2020 10:23	WG1492151
(S) Tetrachloro-m-xylene	65.5			10.0-139		06/16/2020 10:23	WG1492151

SDG: L1227097

DF-4 Collected date/time: 06/05/20 09:45

SAMPLE RESULTS - 05



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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	%			date / time		5
Total Solids	78.0		1	06/11/2020 22:16	WG1490977	Ĺ

Metals (ICP) by Method 6010B

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		1.28	2.57	1	06/12/2020 19:50	WG1490560
Lead	U		0.321	0.641	1	06/12/2020 19:50	<u>WG1490560</u>

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	[°] Sr j
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00482	0.0257	1	06/16/2020 12:05	WG1492151	7
Alpha BHC	U		0.00472	0.0257	1	06/16/2020 12:05	WG1492151	QC
Beta BHC	U		0.00486	0.0257	1	06/16/2020 12:05	WG1492151	8
Delta BHC	U		0.00444	0.0257	1	06/16/2020 12:05	WG1492151	Ğ
Gamma BHC	U		0.00441	0.0257	1	06/16/2020 12:05	WG1492151	
4,4-DDD	U		0.00475	0.0257	1	06/16/2020 12:05	WG1492151	9 <mark>01</mark>
4,4-DDE	U		0.00469	0.0257	1	06/16/2020 12:05	WG1492151	Al
4,4-DDT	U		0.00804	0.0257	1	06/16/2020 12:05	WG1492151	10
Dieldrin	U		0.00441	0.0257	1	06/16/2020 12:05	WG1492151	Sc
Endosulfan I	U		0.00466	0.0257	1	06/16/2020 12:05	WG1492151	
Endosulfan II	U		0.00430	0.0257	1	06/16/2020 12:05	WG1492151	
Endosulfan sulfate	U		0.00467	0.0257	1	06/16/2020 12:05	WG1492151	
Endrin	U		0.00449	0.0257	1	06/16/2020 12:05	WG1492151	
Endrin aldehyde	U		0.00435	0.0257	1	06/16/2020 12:05	WG1492151	
Endrin ketone	U		0.00912	0.0257	1	06/16/2020 12:05	WG1492151	
Heptachlor	U		0.00549	0.0257	1	06/16/2020 12:05	WG1492151	
Heptachlor epoxide	U		0.00435	0.0257	1	06/16/2020 12:05	WG1492151	
Hexachlorobenzene	U		0.00444	0.0257	1	06/16/2020 12:05	WG1492151	
Methoxychlor	U		0.00621	0.0257	1	06/16/2020 12:05	WG1492151	
Chlordane	U		0.132	0.385	1	06/16/2020 12:05	WG1492151	
Toxaphene	U		0.159	0.513	1	06/16/2020 12:05	WG1492151	
(S) Decachlorobiphenyl	51.0			10.0-135		06/16/2020 12:05	WG1492151	
(S) Tetrachloro-m-xylene	64.5			10.0-139		06/16/2020 12:05	WG1492151	

Polychlorinated Biphenyls (GC) by Method 8082

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0151	0.0436	1	06/16/2020 10:37	WG1492151
PCB 1221	U		0.0151	0.0436	1	06/16/2020 10:37	WG1492151
PCB 1232	U		0.0151	0.0436	1	06/16/2020 10:37	WG1492151
PCB 1242	U		0.0151	0.0436	1	06/16/2020 10:37	WG1492151
PCB 1248	U		0.00947	0.0218	1	06/16/2020 10:37	WG1492151
PCB 1254	U		0.00947	0.0218	1	06/16/2020 10:37	WG1492151
PCB 1260	U		0.00947	0.0218	1	06/16/2020 10:37	WG1492151
(S) Decachlorobiphenyl	52.1			10.0-135		06/16/2020 10:37	WG1492151
(S) Tetrachloro-m-xylene	63.4			10.0-139		06/16/2020 10:37	WG1492151

DP-J Collected date/time: 06/05/20 09:34

SAMPLE RESULTS - 06

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.2		1	06/11/2020 22:16	WG1490977

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		1.12	2.24	1	06/12/2020 19:53	WG1490560
Lead	1.68		0.280	0.560	1	06/12/2020 19:53	WG1490560

Pesticides (GC) by Method 8081

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	Šr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00421	0.0224	1	06/16/2020 12:17	WG1492151	7 00
Alpha BHC	U		0.00413	0.0224	1	06/16/2020 12:17	WG1492151	
Beta BHC	U		0.00425	0.0224	1	06/16/2020 12:17	WG1492151	8
Delta BHC	U		0.00388	0.0224	1	06/16/2020 12:17	WG1492151	Ğ
Gamma BHC	U		0.00386	0.0224	1	06/16/2020 12:17	WG1492151	
4,4-DDD	U		0.00415	0.0224	1	06/16/2020 12:17	WG1492151	⁹ 🗸 I
4,4-DDE	U		0.00410	0.0224	1	06/16/2020 12:17	WG1492151	
4,4-DDT	U		0.00703	0.0224	1	06/16/2020 12:17	WG1492151	10
Dieldrin	U		0.00386	0.0224	1	06/16/2020 12:17	WG1492151	Sc
Endosulfan I	U		0.00407	0.0224	1	06/16/2020 12:17	WG1492151	
Endosulfan II	U		0.00376	0.0224	1	06/16/2020 12:17	WG1492151	
Endosulfan sulfate	U		0.00408	0.0224	1	06/16/2020 12:17	WG1492151	
Endrin	U		0.00392	0.0224	1	06/16/2020 12:17	WG1492151	
Endrin aldehyde	U		0.00380	0.0224	1	06/16/2020 12:17	WG1492151	
Endrin ketone	U		0.00797	0.0224	1	06/16/2020 12:17	WG1492151	
Heptachlor	U		0.00480	0.0224	1	06/16/2020 12:17	WG1492151	
Heptachlor epoxide	U		0.00380	0.0224	1	06/16/2020 12:17	WG1492151	
Hexachlorobenzene	U		0.00388	0.0224	1	06/16/2020 12:17	WG1492151	
Methoxychlor	U		0.00543	0.0224	1	06/16/2020 12:17	WG1492151	
Chlordane	U		0.115	0.336	1	06/16/2020 12:17	WG1492151	
Toxaphene	U		0.139	0.448	1	06/16/2020 12:17	WG1492151	
(S) Decachlorobiphenyl	67.1			10.0-135		06/16/2020 12:17	WG1492151	
(S) Tetrachloro-m-xylene	72.2			10.0-139		06/16/2020 12:17	WG1492151	

Polychlorinated Biphenyls (GC) by Method 8082

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0132	0.0381	1	06/16/2020 10:50	WG1492151
PCB 1221	U		0.0132	0.0381	1	06/16/2020 10:50	<u>WG1492151</u>
PCB 1232	U		0.0132	0.0381	1	06/16/2020 10:50	WG1492151
PCB 1242	U		0.0132	0.0381	1	06/16/2020 10:50	WG1492151
PCB 1248	U		0.00827	0.0191	1	06/16/2020 10:50	WG1492151
PCB 1254	U		0.00827	0.0191	1	06/16/2020 10:50	WG1492151
PCB 1260	U		0.00827	0.0191	1	06/16/2020 10:50	WG1492151
(S) Decachlorobiphenyl	69.0			10.0-135		06/16/2020 10:50	<u>WG1492151</u>
(S) Tetrachloro-m-xylene	73.4			10.0-139		06/16/2020 10:50	WG1492151

SDG: L1227097

DF-0 Collected date/time: 06/05/20 12:57

SAMPLE RESULTS - 07

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	87.8		1	06/11/2020 22:16	<u>WG1490977</u>	Τ

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	21.0		0.285	0.570	1	06/12/2020 19:56	WG1490560

Polychlorinated Biphenyls (GC) by Method 8082

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ٌS
PCB 1016	U		0.0134	0.0387	1	06/13/2020 12:05	WG1491271	
PCB 1221	U		0.0134	0.0387	1	06/13/2020 12:05	WG1491271	7
PCB 1232	U		0.0134	0.0387	1	06/13/2020 12:05	WG1491271	
PCB 1242	U		0.0134	0.0387	1	06/13/2020 12:05	WG1491271	8
PCB 1248	U		0.00841	0.0194	1	06/13/2020 12:05	WG1491271	Ğ
PCB 1254	U		0.00841	0.0194	1	06/13/2020 12:05	WG1491271	
PCB 1260	U		0.00841	0.0194	1	06/13/2020 12:05	WG1491271	9
(S) Decachlorobiphenyl	99.5			10.0-135		06/13/2020 12:05	WG1491271	A 1
(S) Tetrachloro-m-xylene	93.8			10.0-139		06/13/2020 12:05	WG1491271	10 C

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	L
Analyte	%			date / time		Ē
Total Solids	87.2		1	06/11/2020 22:16	WG1490977	ĺ

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	1.95		0.287	0.573	1	06/12/2020 19:59	WG1490560

	Posult (dn/)	Qualifier	MDL (dry)	PDL (dry)	Dilution	Analysis	Batch	
Analyto	ma/ka	Qualifier	ma/ka	ma/ka	Dilution	dato / timo	batch	
Analyte	під/ку		niy/ky	111g/kg	4		WC1402045	
Aldrin	U		0.00431	0.0229	1	06/16/2020 12:29	<u>WG1493045</u>	
Alpha BHC	U		0.00422	0.0229	1	06/16/2020 12:29	<u>WG1493045</u>	
Beta BHC	U		0.00434	0.0229	1	06/16/2020 12:29	WG1493045	
Delta BHC	U		0.00397	0.0229	1	06/16/2020 12:29	WG1493045	
Gamma BHC	U		0.00394	0.0229	1	06/16/2020 12:29	WG1493045	
4,4-DDD	U		0.00424	0.0229	1	06/16/2020 12:29	WG1493045	
4,4-DDE	U		0.00419	0.0229	1	06/16/2020 12:29	WG1493045	
4,4-DDT	U		0.00719	0.0229	1	06/16/2020 12:29	WG1493045	
Dieldrin	U		0.00394	0.0229	1	06/16/2020 12:29	WG1493045	
Endosulfan I	U		0.00416	0.0229	1	06/16/2020 12:29	WG1493045	
Endosulfan II	U		0.00384	0.0229	1	06/16/2020 12:29	WG1493045	
Endosulfan sulfate	U		0.00417	0.0229	1	06/16/2020 12:29	WG1493045	
Endrin	U		0.00401	0.0229	1	06/16/2020 12:29	WG1493045	
Endrin aldehyde	U		0.00389	0.0229	1	06/16/2020 12:29	WG1493045	
Endrin ketone	U		0.00815	0.0229	1	06/16/2020 12:29	WG1493045	
Heptachlor	U		0.00491	0.0229	1	06/16/2020 12:29	WG1493045	
Heptachlor epoxide	U		0.00389	0.0229	1	06/16/2020 12:29	WG1493045	
Hexachlorobenzene	U		0.00397	0.0229	1	06/16/2020 12:29	WG1493045	
Methoxychlor	U		0.00555	0.0229	1	06/16/2020 12:29	WG1493045	
Chlordane	U		0.118	0.344	1	06/16/2020 12:29	WG1493045	
Toxaphene	U		0.142	0.458	1	06/16/2020 12:29	WG1493045	
(S) Decachlorobiphenyl	66.2			10.0-135		06/16/2020 12:29	WG1493045	
(S) Tetrachloro-m-xylene	73.0			10.0-139		06/16/2020 12:29	WG1493045	

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.4		1	06/11/2020 22:16	WG1490977

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	73.6		0.293	0.586	1	06/12/2020 20:02	WG1490560

	Result (drv)	Qualifier	MDL (drv)	RDL (drv)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00440	0.0234	1	06/16/2020 12:42	WG1493045	
Alpha BHC	U		0.00431	0.0234	1	06/16/2020 12:42	WG1493045	
Beta BHC	U		0.00444	0.0234	1	06/16/2020 12:42	WG1493045	
Delta BHC	U		0.00405	0.0234	1	06/16/2020 12:42	WG1493045	
Gamma BHC	U		0.00403	0.0234	1	06/16/2020 12:42	WG1493045	
4,4-DDD	U		0.00433	0.0234	1	06/16/2020 12:42	WG1493045	
4,4-DDE	0.0136	J	0.00429	0.0234	1	06/16/2020 12:42	WG1493045	
4,4-DDT	U	_	0.00735	0.0234	1	06/16/2020 12:42	WG1493045	
Dieldrin	U		0.00403	0.0234	1	06/16/2020 12:42	WG1493045	
Endosulfan I	U		0.00425	0.0234	1	06/16/2020 12:42	WG1493045	
Endosulfan II	U		0.00392	0.0234	1	06/16/2020 12:42	WG1493045	
Endosulfan sulfate	U		0.00426	0.0234	1	06/16/2020 12:42	WG1493045	
Endrin	U		0.00410	0.0234	1	06/16/2020 12:42	WG1493045	
Endrin aldehyde	U		0.00397	0.0234	1	06/16/2020 12:42	WG1493045	
Endrin ketone	U		0.00833	0.0234	1	06/16/2020 12:42	WG1493045	
Heptachlor	U		0.00501	0.0234	1	06/16/2020 12:42	WG1493045	
Heptachlor epoxide	U		0.00397	0.0234	1	06/16/2020 12:42	WG1493045	
Hexachlorobenzene	U		0.00405	0.0234	1	06/16/2020 12:42	WG1493045	
Methoxychlor	U		0.00567	0.0234	1	06/16/2020 12:42	WG1493045	
Chlordane	U		0.121	0.351	1	06/16/2020 12:42	WG1493045	
Toxaphene	U		0.145	0.469	1	06/16/2020 12:42	WG1493045	
(S) Decachlorobiphenyl	66.9			10.0-135		06/16/2020 12:42	WG1493045	
(S) Tetrachloro-m-xylene	74.4			10.0-139		06/16/2020 12:42	WG1493045	

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.3		1	06/11/2020 22:16	WG1490977

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	13.0		0.293	0.586	1	06/12/2020 20:05	WG1490560

	Result (drv)	Qualifier	MDL (drv)	RDL (drv)	Dilution	Analysis	Batch	
Analyte	ma/ka	Qualifier	ma/ka	ma/ka	Dilution	date / time	baten	
Aldrin	11g/kg		0.00441	0.0224	1		WC140204E	
	U		0.00441	0.0234	1	06/16/2020 12.54	WG1493045	
Alpha BHC	U		0.00431	0.0234	1	06/16/2020 12:54	WG1493045	
Beta BHC	U		0.00444	0.0234	1	06/16/2020 12:54	WG1493045	
Delta BHC	U		0.00406	0.0234	1	06/16/2020 12:54	WG1493045	
Gamma BHC	U		0.00403	0.0234	1	06/16/2020 12:54	WG1493045	
4,4-DDD	U		0.00434	0.0234	1	06/16/2020 12:54	WG1493045	
4,4-DDE	0.0117	J	0.00429	0.0234	1	06/16/2020 12:54	WG1493045	
4,4-DDT	U		0.00735	0.0234	1	06/16/2020 12:54	WG1493045	
Dieldrin	U		0.00403	0.0234	1	06/16/2020 12:54	WG1493045	
Endosulfan I	U		0.00426	0.0234	1	06/16/2020 12:54	WG1493045	
Endosulfan II	U		0.00393	0.0234	1	06/16/2020 12:54	WG1493045	
Endosulfan sulfate	U		0.00427	0.0234	1	06/16/2020 12:54	WG1493045	
Endrin	U		0.00410	0.0234	1	06/16/2020 12:54	WG1493045	
Endrin aldehyde	U		0.00397	0.0234	1	06/16/2020 12:54	WG1493045	
Endrin ketone	U		0.00834	0.0234	1	06/16/2020 12:54	WG1493045	
Heptachlor	U		0.00502	0.0234	1	06/16/2020 12:54	WG1493045	
Heptachlor epoxide	U		0.00397	0.0234	1	06/16/2020 12:54	WG1493045	
Hexachlorobenzene	U		0.00406	0.0234	1	06/16/2020 12:54	WG1493045	
Methoxychlor	U		0.00567	0.0234	1	06/16/2020 12:54	WG1493045	
Chlordane	U		0.121	0.352	1	06/16/2020 12:54	WG1493045	
Toxaphene	U		0.145	0.469	1	06/16/2020 12:54	WG1493045	
(S) Decachlorobiphenyl	66.5			10.0-135		06/16/2020 12:54	WG1493045	
(S) Tetrachloro-m-xylene	76.6			10.0-139		06/16/2020 12:54	WG1493045	

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	83.1		1	06/11/2020 22:16	WG1490977	Tc

Metals (ICP) by Method 6010B

Collected date/time: 06/05/20 12:50

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	21.6		0.301	0.601	1	06/12/2020 20:08	WG1490560

Polychlorinated Biphenyls (GC) by Method 8082

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		°S
PCB 1016	U		0.0142	0.0409	1	06/13/2020 12:46	WG1491271	
PCB 1221	U		0.0142	0.0409	1	06/13/2020 12:46	WG1491271	7
PCB 1232	U		0.0142	0.0409	1	06/13/2020 12:46	WG1491271	
PCB 1242	U		0.0142	0.0409	1	06/13/2020 12:46	WG1491271	8
PCB 1248	U		0.00888	0.0204	1	06/13/2020 12:46	WG1491271	Ĩ
PCB 1254	U		0.00888	0.0204	1	06/13/2020 12:46	WG1491271	
PCB 1260	U		0.00888	0.0204	1	06/13/2020 12:46	WG1491271	9
(S) Decachlorobiphenyl	89.2			10.0-135		06/13/2020 12:46	WG1491271	-
(S) Tetrachloro-m-xylene	87.9			10.0-139		06/13/2020 12:46	WG1491271	10

Collected date/time: 06/05/20 10:56

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	78.7		1	06/11/2020 22:02	WG1490978

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		1.27	2.54	1	06/12/2020 20:11	WG1490560
Lead	21.6		0.318	0.636	1	06/12/2020 20:11	WG1490560

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	°Sr ,
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00478	0.0254	1	06/16/2020 13:06	WG1493045	700
Alpha BHC	U		0.00468	0.0254	1	06/16/2020 13:06	WG1493045	
Beta BHC	U		0.00482	0.0254	1	06/16/2020 13:06	WG1493045	8
Delta BHC	U		0.00440	0.0254	1	06/16/2020 13:06	WG1493045	ĞI
Gamma BHC	U		0.00437	0.0254	1	06/16/2020 13:06	WG1493045	
4,4-DDD	U		0.00470	0.0254	1	06/16/2020 13:06	WG1493045	⁹
4,4-DDE	0.00882	J	0.00465	0.0254	1	06/16/2020 13:06	WG1493045	A
4,4-DDT	U		0.00797	0.0254	1	06/16/2020 13:06	WG1493045	10
Dieldrin	U		0.00437	0.0254	1	06/16/2020 13:06	WG1493045	Sc
Endosulfan I	U		0.00462	0.0254	1	06/16/2020 13:06	WG1493045	
Endosulfan II	U		0.00426	0.0254	1	06/16/2020 13:06	WG1493045	
Endosulfan sulfate	U		0.00463	0.0254	1	06/16/2020 13:06	WG1493045	
Endrin	U		0.00445	0.0254	1	06/16/2020 13:06	WG1493045	
Endrin aldehyde	U		0.00431	0.0254	1	06/16/2020 13:06	WG1493045	
Endrin ketone	U		0.00904	0.0254	1	06/16/2020 13:06	WG1493045	
Heptachlor	U		0.00544	0.0254	1	06/16/2020 13:06	WG1493045	
Heptachlor epoxide	U		0.00431	0.0254	1	06/16/2020 13:06	WG1493045	
Hexachlorobenzene	U		0.00440	0.0254	1	06/16/2020 13:06	WG1493045	
Methoxychlor	U		0.00615	0.0254	1	06/16/2020 13:06	WG1493045	
Chlordane	U		0.131	0.381	1	06/16/2020 13:06	WG1493045	
Toxaphene	U		0.158	0.509	1	06/16/2020 13:06	WG1493045	
(S) Decachlorobiphenyl	61.9			10.0-135		06/16/2020 13:06	WG1493045	
(S) Tetrachloro-m-xylene	72.0			10.0-139		06/16/2020 13:06	WG1493045	

Collected date/time: 06/05/20 10:58

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.2		1	06/11/2020 22:02	WG1490978

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.58	J	1.19	2.38	1	06/12/2020 20:14	WG1490560
Lead	26.4		0.297	0.594	1	06/12/2020 20:14	WG1490560

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	°Sr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00447	0.0238	1	06/16/2020 13:19	WG1493045	700
Alpha BHC	U		0.00437	0.0238	1	06/16/2020 13:19	WG1493045	
Beta BHC	U		0.00450	0.0238	1	06/16/2020 13:19	WG1493045	8
Delta BHC	U		0.00411	0.0238	1	06/16/2020 13:19	WG1493045	ĞI
Gamma BHC	U		0.00409	0.0238	1	06/16/2020 13:19	WG1493045	
4,4-DDD	U		0.00440	0.0238	1	06/16/2020 13:19	WG1493045	⁹
4,4-DDE	0.00765	J	0.00435	0.0238	1	06/16/2020 13:19	WG1493045	AI
4,4-DDT	U		0.00745	0.0238	1	06/16/2020 13:19	WG1493045	10
Dieldrin	U		0.00409	0.0238	1	06/16/2020 13:19	WG1493045	Šc
Endosulfan I	U		0.00431	0.0238	1	06/16/2020 13:19	WG1493045	
Endosulfan II	U		0.00398	0.0238	1	06/16/2020 13:19	WG1493045	
Endosulfan sulfate	U		0.00432	0.0238	1	06/16/2020 13:19	WG1493045	
Endrin	U		0.00416	0.0238	1	06/16/2020 13:19	WG1493045	
Endrin aldehyde	U		0.00403	0.0238	1	06/16/2020 13:19	WG1493045	
Endrin ketone	U		0.00845	0.0238	1	06/16/2020 13:19	WG1493045	
Heptachlor	U		0.00508	0.0238	1	06/16/2020 13:19	WG1493045	
Heptachlor epoxide	U		0.00403	0.0238	1	06/16/2020 13:19	WG1493045	
Hexachlorobenzene	U		0.00411	0.0238	1	06/16/2020 13:19	WG1493045	
Methoxychlor	U		0.00575	0.0238	1	06/16/2020 13:19	WG1493045	
Chlordane	U		0.122	0.356	1	06/16/2020 13:19	WG1493045	
Toxaphene	U		0.147	0.475	1	06/16/2020 13:19	WG1493045	
(S) Decachlorobiphenyl	70.1			10.0-135		06/16/2020 13:19	WG1493045	
(S) Tetrachloro-m-xylene	75.3			10.0-139		06/16/2020 13:19	WG1493045	

Collected date/time: 06/05/20 15:07

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.7		1	06/11/2020 22:02	WG1490978

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		2.54	11.0	5	06/13/2020 16:41	WG1490560
Lead	U		1.15	2.76	5	06/13/2020 16:41	WG1490560

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	°Sr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00414	0.0220	1	06/16/2020 13:31	WG1493045	7 0 0
Alpha BHC	U		0.00406	0.0220	1	06/16/2020 13:31	WG1493045	
Beta BHC	U		0.00418	0.0220	1	06/16/2020 13:31	WG1493045	8
Delta BHC	U		0.00381	0.0220	1	06/16/2020 13:31	WG1493045	ĞI
Gamma BHC	U		0.00379	0.0220	1	06/16/2020 13:31	WG1493045	
4,4-DDD	U		0.00408	0.0220	1	06/16/2020 13:31	WG1493045	⁹ A I
4,4-DDE	U		0.00403	0.0220	1	06/16/2020 13:31	WG1493045	A
4,4-DDT	U		0.00691	0.0220	1	06/16/2020 13:31	WG1493045	10
Dieldrin	U		0.00379	0.0220	1	06/16/2020 13:31	WG1493045	Šc
Endosulfan I	U		0.00400	0.0220	1	06/16/2020 13:31	WG1493045	
Endosulfan II	U		0.00369	0.0220	1	06/16/2020 13:31	WG1493045	
Endosulfan sulfate	U		0.00401	0.0220	1	06/16/2020 13:31	WG1493045	
Endrin	U		0.00386	0.0220	1	06/16/2020 13:31	WG1493045	
Endrin aldehyde	U		0.00374	0.0220	1	06/16/2020 13:31	WG1493045	
Endrin ketone	U		0.00784	0.0220	1	06/16/2020 13:31	WG1493045	
Heptachlor	U		0.00472	0.0220	1	06/16/2020 13:31	WG1493045	
Heptachlor epoxide	U		0.00374	0.0220	1	06/16/2020 13:31	WG1493045	
Hexachlorobenzene	U		0.00381	0.0220	1	06/16/2020 13:31	WG1493045	
Methoxychlor	U		0.00534	0.0220	1	06/16/2020 13:31	WG1493045	
Chlordane	U		0.114	0.331	1	06/16/2020 13:31	WG1493045	
Toxaphene	U		0.137	0.441	1	06/16/2020 13:31	WG1493045	
(S) Decachlorobiphenyl	80.1			10.0-135		06/16/2020 13:31	WG1493045	
(S) Tetrachloro-m-xylene	82.2			10.0-139		06/16/2020 13:31	WG1493045	

Collected date/time: 06/05/20 14:06

SAMPLE RESULTS - 15 L1227097

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.8		1	06/11/2020 22:02	WG1490978

Metals (ICP) by Method 6010B

() j							
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.36		1.09	2.18	1	06/12/2020 15:30	WG1490492
Lead	34.8		0.272	0.544	1	06/12/2020 15:30	WG1490492

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	ຶSr
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00409	0.0218	1	06/16/2020 13:43	WG1493045	
Alpha BHC	U		0.00401	0.0218	1	06/16/2020 13:43	WG1493045	QC
Beta BHC	U		0.00413	0.0218	1	06/16/2020 13:43	WG1493045	8
Delta BHC	U		0.00377	0.0218	1	06/16/2020 13:43	WG1493045	GI
Gamma BHC	U		0.00375	0.0218	1	06/16/2020 13:43	WG1493045	
4,4-DDD	U		0.00403	0.0218	1	06/16/2020 13:43	WG1493045	⁹ ΔI
4,4-DDE	0.252		0.00399	0.0218	1	06/16/2020 13:43	WG1493045	
4,4-DDT	0.0302		0.00683	0.0218	1	06/17/2020 02:15	WG1493045	10
Dieldrin	U		0.00375	0.0218	1	06/16/2020 13:43	WG1493045	Sc
Endosulfan I	U		0.00395	0.0218	1	06/16/2020 13:43	WG1493045	
Endosulfan II	U		0.00365	0.0218	1	06/16/2020 13:43	WG1493045	
Endosulfan sulfate	U		0.00396	0.0218	1	06/16/2020 13:43	WG1493045	
Endrin	U		0.00381	0.0218	1	06/16/2020 13:43	WG1493045	
Endrin aldehyde	U		0.00369	0.0218	1	06/16/2020 13:43	WG1493045	
Endrin ketone	U		0.00774	0.0218	1	06/16/2020 13:43	WG1493045	
Heptachlor	U		0.00466	0.0218	1	06/16/2020 13:43	WG1493045	
Heptachlor epoxide	U		0.00369	0.0218	1	06/16/2020 13:43	WG1493045	
Hexachlorobenzene	U		0.00377	0.0218	1	06/16/2020 13:43	WG1493045	
Methoxychlor	U		0.00527	0.0218	1	06/16/2020 13:43	WG1493045	
Chlordane	U		0.112	0.327	1	06/16/2020 13:43	WG1493045	
Toxaphene	U		0.135	0.436	1	06/16/2020 13:43	WG1493045	
(S) Decachlorobiphenyl	74.5			10.0-135		06/16/2020 13:43	WG1493045	
(S) Decachlorobiphenyl	73.2			10.0-135		06/17/2020 02:15	WG1493045	
(S) Tetrachloro-m-xylene	78.2			10.0-139		06/16/2020 13:43	WG1493045	
(S) Tetrachloro-m-xylene	70.6			10.0-139		06/17/2020 02:15	WG1493045	

AG-4 Collected date/time: 06/05/20 14:30

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.2		1	06/11/2020 22:02	WG1490978

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.17	J	1.10	2.19	1	06/12/2020 15:38	WG1490492
Lead	16.2		0.274	0.548	1	06/12/2020 15:38	WG1490492

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	°Sr j
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Aldrin	U		0.00412	0.0219	1	06/16/2020 13:56	WG1493045	700
Alpha BHC	U		0.00403	0.0219	1	06/16/2020 13:56	WG1493045	QC
Beta BHC	U		0.00415	0.0219	1	06/16/2020 13:56	WG1493045	8
Delta BHC	U		0.00379	0.0219	1	06/16/2020 13:56	WG1493045	Ğ
Gamma BHC	U		0.00377	0.0219	1	06/16/2020 13:56	WG1493045	
4,4-DDD	U		0.00406	0.0219	1	06/16/2020 13:56	WG1493045	⁹ A I
4,4-DDE	0.0480		0.00401	0.0219	1	06/16/2020 13:56	WG1493045	A
4,4-DDT	U		0.00687	0.0219	1	06/16/2020 13:56	WG1493045	10
Dieldrin	U		0.00377	0.0219	1	06/16/2020 13:56	WG1493045	Šc
Endosulfan I	U		0.00398	0.0219	1	06/16/2020 13:56	WG1493045	
Endosulfan II	U		0.00367	0.0219	1	06/16/2020 13:56	WG1493045	
Endosulfan sulfate	U		0.00399	0.0219	1	06/16/2020 13:56	WG1493045	
Endrin	U		0.00384	0.0219	1	06/16/2020 13:56	WG1493045	
Endrin aldehyde	U		0.00372	0.0219	1	06/16/2020 13:56	WG1493045	
Endrin ketone	U		0.00779	0.0219	1	06/16/2020 13:56	WG1493045	
Heptachlor	U		0.00469	0.0219	1	06/16/2020 13:56	WG1493045	
Heptachlor epoxide	U		0.00372	0.0219	1	06/16/2020 13:56	WG1493045	
Hexachlorobenzene	U		0.00379	0.0219	1	06/16/2020 13:56	WG1493045	
Methoxychlor	U		0.00530	0.0219	1	06/16/2020 13:56	WG1493045	
Chlordane	U		0.113	0.329	1	06/16/2020 13:56	WG1493045	
Toxaphene	U		0.136	0.438	1	06/16/2020 13:56	WG1493045	
(S) Decachlorobiphenyl	72.6			10.0-135		06/16/2020 13:56	WG1493045	
(S) Tetrachloro-m-xylene	75.5			10.0-139		06/16/2020 13:56	WG1493045	

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3538100-1 06/1	1/20 22:31			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1227092-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1227092-01 06/11/2	0 22:31 • (DUP)	R3538100-3 (06/11/20 2	2:31		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.3	91.1	1	0.249		10

Laboratory Control Sample (LCS)

(LCS) R3538100-2 06/11	1/20 22:31				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

SDG: L1227097

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1227097-02.03.04.05.06.07.08.09.10.11

Method Blank (MB)

(MB) R3538096-1 06/1	1/20 22:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1227097-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1227097-06 06/11/2)S) L1227097-06 06/11/20 22:16 • (DUP) R3538096-3 06/11/20 22:16								
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	%	%		%		%			
Total Solids	89.2	90.9	1	1.88		10			

Laboratory Control Sample (LCS)

(LCS) R3538096-2 06/1	1/20 22:16				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1227097 DATE/TIME: 06/17/20 18:50 Sc

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1227097-12,13,14,15,16

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Method Blank (MB)

(MB) R3538095-1 06/11/	20 22:02				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.000				
					³ Ss

L1227125-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1227125-02 06/11/20	0 22:02 • (DUP)	R3538095-3	06/11/20	22:02		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.0	86.0	1	1.16		10

Laboratory Control Sample (LCS)

(LCS) R3538095-2 06/1	1/20 22:02				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1227097

DATE/TIME: 06/17/20 18:50

PAGE: 26 of 38

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1227097-15,16

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Method Blank (MB)

Method Bian	k (IVID)				1 Cn
(MB) R3538223-1	06/12/20 14:31				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Тс
Arsenic	U		1.00	2.00	
Lead	U		0.250	0.500	³ Ss

Laboratory Control Sample (LCS)

(LCS) R3538223-2 06/12	2/20 14:34				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	103	103	80.0-120	
Lead	100	106	106	80.0-120	

L1226975-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1226975-01 06/12/2	0 14:37 • (MS) F	3538223-5 0	6/12/20 14:45 •	(MSD) R35382	223-6 06/12/20	D 14:47						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	103	5.21	102	104	93.8	96.1	1	75.0-125			2.35	20
Lead	103	4.56	107	108	99.7	100	1	75.0-125			0.491	20

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY <u>L1227097-01,02,03,04,05,06,07,08,09,10,11,12,13,14</u>

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Method Blank (MB)

(MB) R3538226-1 06/12/20	D 19:12				CP
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	⁻Tc
Arsenic	U		0.460	2.00	
Lead	U		0.250	0.500	³ Ss
					00

Laboratory Control Sample (LCS)

(LCS) R3538226-2 06/12	/20 19:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	103	103	80.0-120	
Lead	100	106	106	80.0-120	

L1227097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1227097-01 06/12/2	0 19:17 • (MS) R	3538226-5 06	5/12/20 19:26 •	(MSD) R35382	26-6 06/12/20) 19:29						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	112	6.45	118	113	98.8	95.0	1	75.0-125			3.70	20
Lead	112	38.7	188	161	133	109	1	75.0-125	<u>J5</u>		15.3	20

Pesticides (GC) by Method 8081

QUALITY CONTROL SUMMARY

(MB) R3539234-1 06/16/2	20 11:03				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Тс
Aldrin	U		0.00376	0.0200	
Alpha BHC	U		0.00368	0.0200	³ Ss
Beta BHC	U		0.00379	0.0200	00
Delta BHC	U		0.00346	0.0200	4
Gamma BHC	U		0.00344	0.0200	Cn
4,4-DDD	U		0.00370	0.0200	
4,4-DDE	U		0.00366	0.0200	⁵ Ds
4,4-DDT	U		0.00627	0.0200	20
Dieldrin	U		0.00344	0.0200	6
Endosulfan I	U		0.00363	0.0200	Sr
Endosulfan II	U		0.00335	0.0200	
Endosulfan sulfate	U		0.00364	0.0200	
Endrin	U		0.00350	0.0200	40
Endrin aldehyde	U		0.00339	0.0200	8
Endrin ketone	U		0.00711	0.0200	GI
Heptachlor	U		0.00428	0.0200	
Heptachlor epoxide	U		0.00339	0.0200	⁹ АI
Hexachlorobenzene	U		0.00346	0.0200	<i>/</i> u
Methoxychlor	U		0.00484	0.0200	10
Chlordane	U		0.103	0.300	Sc
Toxaphene	U		0.124	0.400	
(S) Decachlorobiphenyl	71.8			10.0-135	
(S) Tetrachloro-m-xylene	71.8			10.0-139	

Laboratory Control Sample (LCS)

(LCS) R3539234-2 06/10	6/20 11:28					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/kg	mg/kg	%	%		
Aldrin	0.0666	0.0507	76.1	34.0-136		
Alpha BHC	0.0666	0.0509	76.4	34.0-139		
Beta BHC	0.0666	0.0497	74.6	34.0-133		
Delta BHC	0.0666	0.0527	79.1	34.0-135		
Gamma BHC	0.0666	0.0519	77.9	34.0-136		
4,4-DDD	0.0666	0.0480	72.1	33.0-141		
4,4-DDE	0.0666	0.0488	73.3	34.0-134		
4,4-DDT	0.0666	0.0493	74.0	30.0-143		
Dieldrin	0.0666	0.0497	74.6	35.0-137		
Endosulfan I	0.0666	0.0497	74.6	34.0-134		

SDG: L1227097
QUALITY CONTROL SUMMARY

LCS Qualifier

Laboratory Control Sample (LCS)

(LCS) R3539234-2 06/16/20 11:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	%	%
Endosulfan II	0.0666	0.0481	72.2	35.0-132
Endosulfan sulfate	0.0666	0.0492	73.9	35.0-132
Endrin	0.0666	0.0505	75.8	34.0-137
Endrin aldehyde	0.0666	0.0466	70.0	23.0-121
Endrin ketone	0.0666	0.0494	74.2	35.0-144
Heptachlor	0.0666	0.0501	75.2	36.0-141
Heptachlor epoxide	0.0666	0.0486	73.0	36.0-134
Hexachlorobenzene	0.0666	0.0471	70.7	33.0-129
Methoxychlor	0.0666	0.0460	69.1	28.0-150
(S) Decachlorobiphenyl			72.8	10.0-135
(S) Tetrachloro-m-xylene			72.5	10.0-139

L1227686-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1227686-01 06/16/20 18:28 • (MS) R3539234-3 06/16/20 18:40 • (MSD) R3539234-4 06/16/20 18:52

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	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Aldrin	0.0978	U	0.0785	0.0719	80.3	73.6	1	20.0-135			8.78	37
Alpha BHC	0.0978	U	0.0797	0.0729	81.5	74.6	1	27.0-140			8.85	35
Beta BHC	0.0978	U	0.0706	0.0624	72.2	63.8	1	23.0-141			12.4	37
Delta BHC	0.0978	U	0.0790	0.0678	80.8	69.4	1	21.0-138			15.2	35
Gamma BHC	0.0978	U	0.0791	0.0703	80.9	71.9	1	27.0-137			11.8	36
4,4-DDD	0.0978	U	0.0882	0.0763	90.2	78.1	1	15.0-152			14.5	39
4,4-DDE	0.0978	U	0.0766	0.0677	78.4	69.2	1	10.0-152			12.4	40
4,4-DDT	0.0978	U	0.0727	0.0584	74.3	59.8	1	10.0-151			21.7	40
Dieldrin	0.0978	U	0.0807	0.0709	82.6	72.5	1	17.0-145			13.0	37
Endosulfan I	0.0978	U	0.0772	0.0683	79.0	69.8	1	20.0-137			12.3	36
Endosulfan II	0.0978	U	0.0775	0.0656	79.3	67.1	1	15.0-141			16.6	37
Endosulfan sulfate	0.0978	U	0.0961	0.0649	98.3	66.4	1	15.0-143		<u>J3</u>	38.8	38
Endrin	0.0978	U	0.0816	0.0699	83.5	71.5	1	19.0-143			15.5	37
Endrin aldehyde	0.0978	U	0.0750	0.0594	76.7	60.8	1	10.0-139			23.1	40
Endrin ketone	0.0978	U	0.0644	0.0523	65.9	53.5	1	17.0-149			20.9	38
Heptachlor	0.0978	U	0.0841	0.0772	86.0	79.0	1	22.0-138			8.55	37
Heptachlor epoxide	0.0978	U	0.0760	0.0672	77.8	68.8	1	22.0-138			12.3	36
Hexachlorobenzene	0.0978	U	0.0815	0.0754	83.3	77.2	1	25.0-126			7.67	35
Methoxychlor	0.0978	U	0.0712	0.0545	72.8	55.7	1	10.0-159			26.6	40
(S) Decachlorobiphenyl					79.7	78.2		10.0-135				
(S) Tetrachloro-m-xylene					64.4	69.4		10.0-139				



SDG: L1227097 DATE/TIME: 06/17/20 18:50 PAGE: 30 of 38 ¹⁰Sc

Pesticides (GC) by Method 8081

QUALITY CONTROL SUMMARY L1227097-08,09,10,12,13,14,15,16

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Method Blank (MB)

(MB) R3539235-1	06/16/20	11:15	
		MB Result	М

	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	ľΤ
Aldrin	U		0.00376	0.0200	
Alpha BHC	U		0.00368	0.0200	3 S
Beta BHC	U		0.00379	0.0200	
Delta BHC	U		0.00346	0.0200	4
Gamma BHC	U		0.00344	0.0200	C
4,4-DDD	U		0.00370	0.0200	
4,4-DDE	U		0.00366	0.0200	5
4,4-DDT	U		0.00627	0.0200	Ľ
Dieldrin	U		0.00344	0.0200	6
Endosulfan I	U		0.00363	0.0200	S
Endosulfan II	U		0.00335	0.0200	
Endosulfan sulfate	U		0.00364	0.0200	7
Endrin	U		0.00350	0.0200	
Endrin aldehyde	U		0.00339	0.0200	8
Endrin ketone	U		0.00711	0.0200	G
Heptachlor	U		0.00428	0.0200	
Heptachlor epoxide	U		0.00339	0.0200	9Δ
Hexachlorobenzene	U		0.00346	0.0200	Ĺ
Methoxychlor	U		0.00484	0.0200	10
Chlordane	U		0.103	0.300	S
Toxaphene	U		0.124	0.400	
(S) Decachlorobiphenyl	69.1			10.0-135	
(S) Tetrachloro-m-xylene	69.4			10.0-139	

Laboratory Control Sample (LCS)

(LCS) R3539235-2 06/16/20 11:40							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
Aldrin	0.0666	0.0401	60.2	34.0-136			
Alpha BHC	0.0666	0.0403	60.5	34.0-139			
Beta BHC	0.0666	0.0397	59.6	34.0-133			
Delta BHC	0.0666	0.0418	62.8	34.0-135			
Gamma BHC	0.0666	0.0409	61.4	34.0-136			
4,4-DDD	0.0666	0.0380	57.1	33.0-141			
4,4-DDE	0.0666	0.0388	58.3	34.0-134			
4,4-DDT	0.0666	0.0388	58.3	30.0-143			
Dieldrin	0.0666	0.0396	59.5	35.0-137			
Endosulfan I	0.0666	0.0396	59.5	34.0-134			

SDG: L1227097

DATE/TIME: 06/17/20 18:50

QUALITY CONTROL SUMMARY <u>11227097-08,09,10,12,13,14,15,16</u>

LCS Qualifier

Laboratory Control Sample (LCS)

(LCS) R3539235-2 06/16/20 11:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	%	%
Endosulfan II	0.0666	0.0381	57.2	35.0-132
Endosulfan sulfate	0.0666	0.0387	58.1	35.0-132
Endrin	0.0666	0.0401	60.2	34.0-137
Endrin aldehyde	0.0666	0.0342	51.4	23.0-121
Endrin ketone	0.0666	0.0391	58.7	35.0-144
Heptachlor	0.0666	0.0397	59.6	36.0-141
Heptachlor epoxide	0.0666	0.0386	58.0	36.0-134
Hexachlorobenzene	0.0666	0.0374	56.2	33.0-129
Methoxychlor	0.0666	0.0360	54.1	28.0-150
(S) Decachlorobiphenyl			80.3	10.0-135
(S) Tetrachloro-m-xylene			79.4	10.0-139

L1226434-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1226434-12 06/16/20 17:01 • (MS) R3539235-3 06/16/20 17:13 • (MSD) R3539235-4 06/16/20 17:26												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Aldrin	0.0636	U	0.0512	0.0511	80.5	76.7	1	20.0-135			0.195	37
Alpha BHC	0.0636	U	0.0519	0.0520	81.6	78.1	1	27.0-140			0.192	35
Beta BHC	0.0636	U	0.0462	0.0471	72.6	70.7	1	23.0-141			1.93	37
Delta BHC	0.0636	U	0.0522	0.0526	82.1	79.0	1	21.0-138			0.763	35
Gamma BHC	0.0636	U	0.0517	0.0519	81.3	77.9	1	27.0-137			0.386	36
4,4-DDD	0.0636	U	0.0584	0.0589	91.8	88.4	1	15.0-152			0.853	39
4,4-DDE	0.0636	0.00481	0.0586	0.0560	84.6	76.9	1	10.0-152			4.54	40
4,4-DDT	0.0636	U	0.0524	0.0504	82.4	75.7	1	10.0-151			3.89	40
Dieldrin	0.0636	U	0.0536	0.0538	84.3	80.8	1	17.0-145			0.372	37
Endosulfan I	0.0636	U	0.0514	0.0516	80.8	77.5	1	20.0-137			0.388	36
Endosulfan II	0.0636	U	0.0501	0.0508	78.8	76.3	1	15.0-141			1.39	37
Endosulfan sulfate	0.0636	U	0.0493	0.0507	77.5	76.1	1	15.0-143			2.80	38
Endrin	0.0636	U	0.0542	0.0538	85.2	80.8	1	19.0-143			0.741	37
Endrin aldehyde	0.0636	U	0.0445	0.0465	70.0	69.8	1	10.0-139			4.40	40
Endrin ketone	0.0636	U	0.0411	0.0424	64.6	63.7	1	17.0-149			3.11	38
Heptachlor	0.0636	U	0.0561	0.0560	88.2	84.1	1	22.0-138			0.178	37
Heptachlor epoxide	0.0636	U	0.0502	0.0501	78.9	75.2	1	22.0-138			0.199	36
Hexachlorobenzene	0.0636	U	0.0559	0.0553	87.9	83.0	1	25.0-126			1.08	35
Methoxychlor	0.0636	U	0.0462	0.0469	72.6	70.4	1	10.0-159			1.50	40
(S) Decachlorobiphenyl					81.8	76.6		10.0-135				
(S) Tetrachloro-m-xylene					65.6	61.7		10.0-139				

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PROJECT:

SDG: L1227097 DATE/TIME: 06/17/20 18:50

PAGE: 32 of 38 Polychlorinated Biphenyls (GC) by Method 8082

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3538467-1 06/13/2	IB) R3538467-1 06/13/20 11:10							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/kg		mg/kg	mg/kg				
PCB 1016	U		0.0118	0.0340				
PCB 1221	U		0.0118	0.0340				
PCB 1232	U		0.0118	0.0340				
PCB 1242	U		0.0118	0.0340				
PCB 1248	U		0.00738	0.0170				
PCB 1254	U		0.00738	0.0170				
PCB 1260	U		0.00738	0.0170				
(S) Decachlorobiphenyl	68.5			10.0-135				
(S) Tetrachloro-m-xylene	67.1			10.0-139				

Laboratory Control Sample (LCS)

_CS) R3538467-2 06/13/20 11:24									
Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
mg/kg	mg/kg	%	%						
0.167	0.144	86.2	37.0-145						
0.167	0.124	74.3	36.0-141						
		71.2	10.0-135						
		68.9	10.0-139						
	0 11:24 Spike Amount mg/kg 0.167 0.167	O 11:24 LCS Result mg/kg mg/kg 0.167 0.144 0.167 0.124	O 11:24 LCS Result LCS Rec. mg/kg mg/kg % 0.167 0.144 86.2 0.167 0.124 74.3 71.2 68.9	Note CS Result LCS Rec. Rec. Limits mg/kg mg/kg % % 0.167 0.144 86.2 37.0-145 0.167 0.124 74.3 36.0-141 71.2 10.0-135 68.9 10.0-139					



DATE/TIME: 06/17/20 18:50 Polychlorinated Biphenyls (GC) by Method 8082

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3539115-1 06/16/20 09:56								
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/kg		mg/kg	mg/kg				
PCB 1016	U		0.0118	0.0340				
PCB 1221	U		0.0118	0.0340				
PCB 1232	U		0.0118	0.0340				
PCB 1242	U		0.0118	0.0340				
PCB 1248	U		0.00738	0.0170				
PCB 1254	U		0.00738	0.0170				
PCB 1260	U		0.00738	0.0170				
(S) Decachlorobiphenyl	70.7			10.0-135				
(S) Tetrachloro-m-xylene	68.0			10.0-139				

Laboratory Control Sample (LCS)

_CS) R3539115-2 06/16/20 10:09								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
PCB 1260	0.167	0.158	94.6	37.0-145				
PCB 1016	0.167	0.132	79.0	36.0-141				
(S) Decachlorobiphenyl			79.1	10.0-135				
(S) Tetrachloro-m-xylene			76.0	10.0-139				

L1227686-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1227686-01 06/16/20 18:45 • (MS) R3539115-3 06/16/20 18:59 • (MSD) R3539115-4 06/16/20 19:12												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
PCB 1260	0.245	U	0.178	0.198	72.5	80.8	1	10.0-160			10.9	38
PCB 1016	0.245	U	0.189	0.203	77.2	82.6	1	10.0-160			6.74	37
(S) Decachlorobiphenyl					71.0	76.7		10.0-135				
(S) Tetrachloro-m-xylene					79.0	79.7		10.0-139				

ACCOUNT:	
McCloskey Consulting - Danville, C	24

SDG: L1227097 DATE/TIME: 06/17/20 18:50 PAGE: 34 of 38

GLOSSARY OF TERMS

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample [this will only be present on a dry report basis for soils]
MDI	Method Detection Limit
MDL (drv)	Method Detection Limit
RDL	Reported Detection Limit.
RDL (drv)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Ne
Alaska	17-026	Ne
Arizona	AZ0612	Ne
Arkansas	88-0469	Ne
California	2932	Ne
Colorado	TN00003	Ne
Connecticut	PH-0197	No
Florida	E87487	No
Georgia	NELAP	No
Georgia ¹	923	No
Idaho	TN00003	Oh
Illinois	200008	Ok
Indiana	C-TN-01	Ore
lowa	364	Per
Kansas	E-10277	Rhe
Kentucky ¹⁶	90010	Sou
Kentucky ²	16	Sou
Louisiana	AI30792	Ter
Louisiana ¹	LA180010	Tex
Maine	TN0002	Tex
Maryland	324	Uta
Massachusetts	M-TN003	Ver
Michigan	9958	Virg
Minnesota	047-999-395	Wa
Mississippi	TN00003	We
Missouri	340	Wis
Montana	CERT0086	Wv

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1 4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

McCloskey Consulting - Danville, CA

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



L1227097

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om McCloskey/Chris Vertin	om McCloskey/Chris Vertin		tom@mccl	oskeyco	n@gm		1				647 ⁴ 1	1	194 1			Mount Juliet, TN 371 Phone: 615-758-5858 Phone: 800-767-5859							
Los Altos High School PEA Sampling		Collected:	Los Al	ltos,	, CA	PT MT C	T ET		100								- 10	Fax: 615-758-5859					
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BP-1A	Grab	SS	0-1/2'	6.5	.20	9:15	1		14		X		-						-01				
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3P-5		SS				9:34		X	X	X	X	đ.							-64				
BP-6		SS		- secol	12:57	10:32	av			X	X						10	1 - A. M.	-07				
BP-7	100-4	SS	0.75-1	the p		11:47			X		X	1			1			0	-68				
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om McCloskey/Chris Vertin			Email To: tom@mcc	loskeycor	nsultants.	com;cmvertin	@gm									12 Mr Ph	065 Lebanon Rd ount Juliet, TN 371 ione: 615-758-5858	
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BP-8	Grab	SS	1/2-1'	6-5	.20	11:38	1		X		X						A	-09
BP-8	01	SS	1.5-1'	1		12:53	1		*	-	X	CMV		31		t	fold)	
BP-9		SS	1/2-1'			11:30			X	100	X	C.u.l		8-3% 1300			TT	-10
BP-9		SS	1.5-2'		1.	11:36			7		×	CMV				U	told	10
BP-10		SS	0-1/2'		-	12:50				X	×	Sec.					England -	~1
AG-1A		SS	0-1/2			10:56		X	X		X							-12
A6-1B		SS	0-1/2'		-	10:59		X	X		X							13
AG-2		SS	~4/2-1	1	-	19:07	1	X	X		X	lef.	1					77
AG-3		SS	~1/2-1	-	1-	14:06	1	X	X		X					1	7	71
AG-4		SS	~1-1	1	1	14:30	1	X	X		\times	1. (Lat.)			10-		2000	74
* Matrix: ss - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	Remarks: H	BP-	801	1.5-Z	,						pH Flow		Temp		COC Se COC Si Bottle	al Prese gned/Acc s arrive	Receipt Che ent/Intact: curate: e intact:	NP NN
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ANALYTICAL REPORT

McCloskey Consulting - Danville, CA

Sample Delivery Group: Samples Received: L1230611 06/09/2020

Project Number: Description:

Los Altos High School PEA Sampling

Report To:

Tom McCloskey/Chris Vertin 420 Sycamore Valley Rd West Danville, CA 94526

Entire Report Reviewed By:

Brian Ford

Brian Ford Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

PROJECT:

SDG: L1230611 DATE/TIME: 06/23/20 20:39 Тс

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¹Cp ²Tc ³Ss ⁴Cn ⁵Ds ⁶Sr ⁷Qc ⁸Gl ⁹Al ¹⁰Sc

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SDG: L1230611 DATE/TIME: 06/23/20 20:39

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

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Sr

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			Collected by	Collected date/time	Received date/time		
BP-7 (0.75-1) L1230611-01 Solid		Dil ii		A 1 :			
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	IAV	Mt Juliet TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/21/20 23:44	EL	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
BP-8 (0.5-1) L1230611-02 Solid			Chris Vertin	06/05/20 11:38	06/09/20 08	3:45	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	JAV	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/22/20 00:12	EL	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	to/timo	
			Chris Vertin	06/05/20 11.30	06/09/20 08:45		
BP-9 (0.5-1) L1230611-03 Solid			enns vertin	00/03/20 11.50	00/03/20 00	5.75	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1490977	1	06/11/20 22:05	06/11/20 22:16	JAV	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/22/20 00:15	EL	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
BP-7 (1.5-2) L1230611-04 Solid			Chris Vertin	06/05/20 12:48	06/09/20 08:45		
Method	Batch	Dilution	Preparation	Δnalvsis	Δnalvst	Location	
Method .	Batch	Dilation	date/time	date/time	Analyse	Election	
Total Solids by Method 2540 G-2011	WG1496762	1	06/22/20 14:26	06/22/20 14:34	KBC	Mt Juliet TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/22/20 00:18	FI	Mt. Juliet TN	
	W01+30+10	I	00/21/20 00.43	00/22/20 00.10	LL	20 08:45 yst Location V Mt. Juliet, T . Mt. Juliet, T ed date/time 20 08:45 yst Location C Mt. Juliet, T . Mt. Juliet, T red date/time 20 08:45	
			Collected by	Collected date/time	Received da	te/time	
BP-8 (1.5-2) L1230611-05 Solid			Chris Vertin	06/05/20 12:53	06/09/20 08	3:45	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1496762	1	06/22/20 14:26	06/22/20 14:34	KBC	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/22/20 00:21	EL	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
BP-9 (1.5-2) L1230611-06 Solid			Chris Vertin	06/05/20 11:36	06/09/20 08	3:45	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time	,		
Total Solids by Method 2540 G-2011	WG1496762	1	06/22/20 14:26	06/22/20 14:34	KBC	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1496416	1	06/21/20 06:43	06/22/20 00:24	EL	Mt. Juliet. TN	

SDG: L1230611

CASE NARRATIVE

*

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Buar Ford

Brian Ford Project Manager



DETECTION SUMMARY

*

Metals (ICP) by Method 6010B

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch	Ср
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time		2
BP-7 (0.75-1)	L1230611-01	Arsenic	3.93		0.527	2.29	1	06/21/2020 23:44	WG1496416	IC
BP-8 (0.5-1)	L1230611-02	Arsenic	5.37		0.539	2.34	1	06/22/2020 00:12	WG1496416	
BP-9 (0.5-1)	L1230611-03	Arsenic	4.28		0.539	2.34	1	06/22/2020 00:15	WG1496416	³ Ss
BP-7 (1.5-2)	L1230611-04	Arsenic	11.5		0.527	2.29	1	06/22/2020 00:18	WG1496416	
BP-8 (1.5-2)	L1230611-05	Arsenic	8.07		0.536	2.33	1	06/22/2020 00:21	WG1496416	4
BP-9 (1.5-2)	L1230611-06	Arsenic	4.00		0.516	2.24	1	06/22/2020 00:24	WG1496416	Cn

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.2		1	06/11/2020 22:16	<u>WG1490977</u>	Tc

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.93		0.527	2.29	1	06/21/2020 23:44	WG1496416

SAMPLE RESULTS - 02 L1230611



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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.4		1	06/11/2020 22:16	<u>WG1490977</u>	Tc

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.37		0.539	2.34	1	06/22/2020 00:12	WG1496416

ACCOUNT:

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.3		1	06/11/2020 22:16	<u>WG1490977</u>	Tc

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.28		0.539	2.34	1	06/22/2020 00:15	WG1496416



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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.2		1	06/22/2020 14:34	WG1496762	Tc

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.5		0.527	2.29	1	06/22/2020 00:18	WG1496416

ONE LAB. NATIONWIDE.

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.8		1	06/22/2020 14:34	<u>WG1496762</u>	Tc

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.07		0.536	2.33	1	06/22/2020 00:21	WG1496416

SAMPLE RESULTS - 06 L1230611

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.2		1	06/22/2020 14:34	WG1496762	Tc

Metals (ICP) by Method 6010B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.00		0.516	2.24	1	06/22/2020 00:24	WG1496416

PAGE: 11 of 19

WG1490977

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3538096-1 06/11	/20 22:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1227097-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1227097-06 06/11/2	0 22:16 • (DUP)) R3538096-3	06/11/20	22:16		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.2	90.9	1	1.88		10

Laboratory Control Sample (LCS)

(LCS) R3538096-2 06/	11/20 22:16				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3541757-1 06/22/20 14:34						
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	%		%	%		
Total Solids	0.000					

L1230317-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1230317-02 06/22/2	20 14:34 • (DUP)) R3541757-3	06/22/20	14:34		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	8.47	8.30	1	2.05		10

Laboratory Control Sample (LCS)

(LCS) R3541757-2 06/2	2/20 14:34				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1230611 DATE/TIME: 06/23/20 20:39

WG1496416

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3541166-1 06/21/2	20 23:38			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.460	2.00

Laboratory Control Sample (LCS)

(LCS) R3541166-2 06/21/2	0 23:41				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	98.4	98.4	80.0-120	

L1230611-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1230611-01 06/21/20 23:44 • (MS) R3541166-5 06/21/20 23:52 • (MSD) R3541166-6 06/21/20 23:55												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	115	3.93	109	104	91.8	87.0	1	75.0-125			5.17	20

GLOSSARY OF TERMS

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

SDG: L1230611

ACCREDITATIONS & LOCATIONS

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Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Neb
Alaska	17-026	Nev
Arizona	AZ0612	Nev
Arkansas	88-0469	Nev
California	2932	Nev
Colorado	TN00003	Nev
Connecticut	PH-0197	Nor
Florida	E87487	Nor
Georgia	NELAP	Nor
Georgia ¹	923	Nor
ldaho	TN00003	Ohi
Illinois	200008	Okl
Indiana	C-TN-01	Ore
lowa	364	Pen
Kansas	E-10277	Rho
Kentucky ¹⁶	90010	Sou
Kentucky ²	16	Sou
Louisiana	Al30792	Ten
Louisiana ¹	LA180010	Tex
Maine	TN0002	Tex
Maryland	324	Uta
Massachusetts	M-TN003	Ver
Michigan	9958	Virg
Minnesota	047-999-395	Was
Mississippi	TN00003	Wes
Missouri	340	Wis
Montana	CERT0086	Wvo

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1 4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

McCloskey Consulting - Danville, CA

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



L1230611

DATE/TIME: 06/23/20 20:39

McCloskey Consulting	- Danville,	СА	Billing Info Tom Mc 420 Syca Danville	rmation Closke Imore ¹ , CA 94	y Valley R IS26	d W.	Pres Chk			A	nalvsis /	Contain	er / Pres	ervative			Chain of Custody	Page of 2
Danville, CA 94526		. e.e.	E-mail T-m													1	Lines Laborate Rd	<u></u>
Tom McCloskey/Chris Vertin			tom@mcc	loskeyco	onsultants	.com;cmvertir	n@gm	1			a fair	1	3				Mount Juliet, TN 371 Phone: 615-758-585	
Project Description:	a a f	City/State Collected:	Los A	ltos	, CA	Please Cit	rcle: T ET					2					Phone: 800-767-585 Fax: 615-758-5859	间预告
Phone: 925-786-2667	Client Project	• 		Lab Pr MCC	oject # CONDC	A-LAHS			Pres	S							sog # 642 E048	17047
Competed by (print):	Site/Facility I	D#		P.O. #	l.			Pres	Clr-No	NoPre	Pres						Acctnum: MCC	306M
Collected by (signature):	Rush? (Same D Next D Two Da	Lab MUST Be lay <u>X</u> Five I ly <u>5</u> Day y <u>10</u> Da	Notified) Day (Rad Only) IV (Rad Only)	Quot	e # Date Resul	ts Needed	No,	14ozClr-No	381CA 4oz(382 4ozClr-	0 4ozClr-No						Template: T168 Prelogin: P778 PM: 110 - Brian PB:	1835 1535 Ford
Packed on Ice N YX	Three C	Day		1		1	of	010	s 80	is 80	2010						Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	1	Date	Lime	<u> </u>	As 6	00	PCB	Pb	10		-			Semarks :	Sample # (lab only
BRIA	Grab	SS	0-1/2'	6.9	5.20	9:15	1				X	1.1	-					-01
BP-IB		SS	1		1	9:18	11			い度に	X		1.1					- 1
BP-2		SS	100			9:10					X			100			1 200	-03
BP-3		SS			1.1	9:50		X	X	×	X		1		22. 246	3/26		-cy
BP-4	10 at 9-	SS				9:45		X	X	X	X				31	1		-es
BP-5		SS		A	1.1	9:34		X	X	X	X	1	-					-69
BP-6		55			125	10:32	av	-		X	X		1.				1. A. M	7
BP-7	14 14 5	55	0.75-1			11:47		12	X		×		1.0			1. 2.2.2	0	-18
BP-7		55	15-2		1	12:48	1		×	1111	×	CMV	$= t^{-1}$		24	100	(Hold)	
		SS	1	-	. 96 .				1					1.5			\sim	
* Matrix: SS - Soll AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: Ho	6 Bl	2-7-	1.5 -	z' -	đ					pH Flow		Temp Other		CUC COC Bott Corr	Sam Scal P Signed les ar rect bo	ple Receipt Ch Present/Intact: d/Accurate: rrive Intact: ottles used:	NP NP
DW - Drinking Water OT - Other	Samples returned	f via: Courier	in ^{den er}		Track	ing # 47	94	_δ	84	2	418	2		7	Suff VOA	Zero H	If Applicabl leadspace: ion Correct/Che	$\frac{1}{2}$ $-\frac{1}{2}$
Reiinquiched by : (Sknayure)		ate:	Tim 12	202	Rece	ved by: (Signal	ture)			1	Trip Blan	ik Receiv	ed; Ye + 1	S/ Meol	RAD	Screen	1 10.5 mR/hr:	2-
Relinguished by: (Signature)	D	ate:	Tim	et 🥡	Rece	ived by: (Signa	(ure)		K	X	Temp: 4./to	2=4	Botth	19	li lif pre	eservatio	on required by Log	In: Date/Time
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Closkey Consulting	; - Danville	e, CA	Billing Infor Tom Mc(420 Syca Danville,	mation: Closkey more Val CA 9452	lley Rd W 6	v.	Pres Chk			Ar.	nalvsis /	Containe	r / Preservative		Chain of Custody	Page Zot Z																								
teport to: Tom McCloskey/Chris Vertin			Email To: tom@mcd	loskeyconsi	ultants.con	n;cmvertin	@gm		「「「「						12065 Lebanon Rd Mount Juliet, TN 371 Phone: 615-758-5854																									
Project Description: Altos High School PEA Sampling		City/State Collected:	Los A	ltos,	CA	Please Cin	cle: F ET				4				Phone: 800-767 5859 Fax: 615-758-5859	面积热																								
Phone: 925-786-2667	Client Proje	ct#.		Lab Proje	ct #	AHS			es	-					50G # 47	27097																								
Colleging by (print):	Site/Facility	ID#		P.O.#	and and an		.O.#		P.O.#																							res	Ir-NoPr	loPres	Pres				Table # 6/ Acctnum: MCC	230611 CONDCA
Collected by (signature):	Rush?	(Lab MUST Br Day X Five Day 5 Da	Notified) Day y (Rad Only) av (Rad Only)	Quote #	Results No	eeded		4ozClr-NoF	81CA 4ozC	32 4ozClr-N	4ozClr-Nol				Template: T168 Prelogin: P778 PM: 110 - Brian	835 535 Ford																								
Packed on ice N Y	Comp/Gra	b Matrix *	Depth	Date		te Time		e Time		e Time		Time		5 6010 4	CPs 80	CBs 808	9 6010				PB: Shipped Via: Remarks	Sample # (lah only)																		
02.9	Gal	ss	1/2-1'	10-5-	20 1	1:24	1	A	×	PC	X					209																								
BF-0 RP-8	aran	SS	15-1'	1		12:53	T		×		×	CMV		5-	(Hold)																									
BP-9		SS	1/2-1'			1:30	IT		X	Sec.	X				Y	-10																								
BP-9		SS	1.5-2"		12.00	1136			×	-	×	CAV			(Hold)																									
BP-10		SS	0-1/2"	1000	1	2:50			1	X	×					-1																								
AG-IA	All Carlos	SS	0-1/2'			10.56		X	X		X			2 2 3 1		m																								
A6-1B		SS	0-1/2'			10:58		X	X		X	1. Jawa				-13																								
AG-2		SS	~42-1			19:07		X	X		X					-14																								
AG-3		SS	~1/2-1	1000		14:06		X	X	1 TR	X				1000	75																								
AG-4		SS	-1/2-1	1		14:30	11	X	X	1.1	X	1				74																								
• Matrix: ss - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	BP-	-8 e 1 9 e 1.	19-2' 5-2'				100			pH Flow		Temp Other	COC Seal COC Seal Bottles Correct	Present/Intact: ed/Accurate: arrive intact: bottles used: nt volume cent	NP NN N																								
of - Other	Samples return	Samples returned via: UPS XFedEx Courier			Tracking	· P	3						2	VOA Zero	If Applicable Headspace:	eN																								
Rejinglijshed by : (Agnature)	Industried by : (Renature) Date: 6.8.20) Time	:020	Received	by; (Signati	ure)			1.7	Trip Blan	k Receiv	ed: Yes No HCL / MeoH TBR	Preserva RAD Scre	tion Correct/Chee en <0.5 mR/hr;	cked: _Y_N																								
(gelinquished by'; (Signature)		Date:	Tim	1. 	Received	by: (Signat	ure)	and a second	X	X	Temph 4.1EC	经门	Bottles Received	If preserva	ation required by Logi	n: Date/Time																								
Relinquished by : (Signature)	- 5.	Date:	Tim	e:	Received	for lab by:	(Signat	ure) 1	Why h	J.	Date:	-05	Time:	Hold:	tte de ^{ser} a de sera	Candition: NCF OK																								

Andy Vann

From: Sent: To: Subject:

Brian Ford Wednesday, June 17, 2020 11:04 PM Project Service; Sample Storage; Brian Ford L1227097 *MCCCONDCA* re-log and log off hold Please log the following samples for ASICP and TS. Transfer TS for re-logs. R5 due 06/24.

L1227097-08 (BP-7 (0.75-1)) L1227097-09 (BP-8 (0.5-1)) L1227097-10 (BP-9 (0.5-1)) (BP-7 (1.5-2)) (BP-8 (1.5-2)) (BP-9 (1.5-2))

Thanks,

Brian Ford

Project Manager Pace Analytical National Center for Testing & Innovation 12065 Lebanon Road | Mt. Juliet, TN 37122 direct 615.773.9772 | cell 615.881.4570 bford@pacenational.com | pacenational.com This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received. Appendix E

Arsenic Statistical Analyses

	A B C	D E	F	G H I I K	T.
1		Background Statistics	for Uncer	sored Full Data Sets	L
2	User Selected Options	;			
3	Date/Time of Computation	ProUCL 5.16/24/2020	2:30:42 PM	Λ	
4	From File	WorkSheet.xls			
5	Full Precision	OFF			
6	Confidence Coefficient	95%			
7	Coverage	95%			
8	New or Future K Observations	1			
9	Number of Bootstrap Operations	2000			
10					
11	Arsenic				
12					
13	General Statistics				
14	Total N	Jumber of Observations	20	Number of Distinct Observations	20
15		Minimum	0.971	First Quartile	2.473
16		Second Largest	9.7	Median	4.14
17		Maximum	11.5	Third Quartile	6.698
18		Mean	4.877	SD	2.959
19		Coefficient of Variation	0.607	Skewness	0.77
20		Mean of logged Data	1.394	SD of logged Data	0.662
21					
22		Critical Values for	or Backgrou	und Threshold Values (BTVs)	
23	Tolera	nce Factor K (For UTL)	2.396	d2max (for USL)	2.557
24					
25			Normal	GOF Test	
26	Sha	apiro Wilk Test Statistic	0.93	Shapiro Wilk GOF Test	
27	5% Sha	piro Wilk Critical Value	0.905	Data appear Normal at 5% Significance Level	
28		Lilliefors Test Statistic	0.169	Lilliefors GOF Test	
29	5%	Lilliefors Critical Value	0.192	Data appear Normal at 5% Significance Level	
30		Data appea	r Normal a	t 5% Significance Level	
31					
32		Background Sta	atistics As:	suming Normal Distribution	
33	95% UT	L with 95% Coverage	11.97	90% Percentile (z)	8.668
34		95% UPL (t)	10.12	95% Percentile (z)	9.743
35		95% USL	12.44	99% Percentile (z)	11.76
36			1		
37		and a start of the	Gamma	GOF Test	
38		A-D Test Statistic	0.208	Anderson-Darling Gamma GOF Test	
39		5% A-D Critical Value	0.749	Detected data appear Gamma Distributed at 5% Significance	Level
40		K-S Test Statistic	0.128	Kolmogorov-Smirnov Gamma GOF Test	
41		5% K-S Critical Value	0.195	Detected data appear Gamma Distributed at 5% Significance	Level
42		Detected data appear (Jamma Di	stributed at 5% Significance Level	
43					
44			Gamma	Statistics	
45		K nat (MLE)	2.775	k star (bias corrected MLE)	2.392
46		meta nat (MLE)	1./5/	Theta star (bias corrected MLE)	2.038
47		Noon (bios corrector)	111	nu star (bias corrected)	95.69
48	WLE	mean (bias corrected)	4.8//	MLE Sd (bias corrected)	3.153
49		Background Sto	tistics Ass	Iming Gamma Distribution	
50	95% Wilson Hilforty (WU)	Approx Commo LID	11 2		0.000
51	95% Hawking Wivley (PM)	Approx. Gamma UPL	11.5	90% Percentile	9.099
52		Applox. Gainina OPL	11.01	95% Percentile	10.94

1	А	В	С	ſ	D C	E	F	G	Н	Ĩ.,	J	К	L
53	95%	WH Approx	k. Gamma U	TL with	n 95%	Coverage	14.92				99	% Percentile	14.99
54	95%	HW Approx	k. Gamma U	TL with	n 95%	Coverage	15.7						
55					95%	WH USL	15.96				ç	95% HW USL	16.91
56													
57							Lognorma	GOF Test					
58			SI	napiro V	Wilk Te	st Statistic	0.974		Shap	iro Wilk Log	normal G	OF Test	
59			5% Sł	apiro V	Wilk Crit	tical Value	0.905		Data appea	r Lognormal	at 5% Sigi	nificance Level	
60				Lillie	fors Te	st Statistic	0.119		Lill	iefors Logno	rmal GOF	Test	
61			5	% Lillie	fors Crit	tical Value	0.192		Data appea	r Lognormal	at 5% Sigi	nificance Level	
62					Da	ata appear l	ognormal	at 5% Sign	ificance Lev	/el			
63													
64					Backg	ground Stat	istics assu	iming Logn	ormal Distril	oution			
65			95% L	JTL wit	h 95%	Coverage	19.68				90%	Percentile (z)	9.411
66					95	5% UPL (t)	13.02				95%	Percentile (z)	11.97
67						95% USL	21.88				99%	Percentile (z)	18.79
68													
69					Nonp	arametric I	Distribution	n Free Back	ground Stat	tistics			
70					1	Data appea	r Normal a	at 5% Signif	icance Leve				
71							_						
72				N	onpara	metric Upp	er Limits fo	or Backgrou	und Thresho	ld Values			
73				C	Order of	Statistic, r	20			95% U	TL with 9	5% Coverage	11.5
74		App	prox, f used	to com	pute ac	hieved CC	1.053	pproximate	e Actual Con	fidence Coe	ficient ach	nieved by UTL	0.642
75								Approxima	ate Sample S	Size needed	to achieve	e specified CC	59
76	95%	6 Percentile	Bootstrap I	JTL wit	th 95%	Coverage	11.5		95% BCA	Bootstrap U	TL with 9	5% Coverage	11.5
77						95% UPL	11.41				9	0% Percentile	9.178
78				90%	% Cheb	yshev UPL	13.97				9	5% Percentile	9.79
79				95%	% Cheb	yshev UPL	18.09				9	9% Percentile	11.16
80						95% USL	11.5						
81													0
82	٢	Note: The us	se of USL te	ends to	yield a	conservativ	e estimate	e of BTV, es	specially whe	en the sampl	e size star	ts exceeding 2	0.
83		Therefore, o	one may use	USL t	o estim	ate a BTV o	only when	the data set	t represents	a backgroun	d data set	free of outliers	S
84				and c	consists	of observa	tions colled	cted from cl	ean unimpac	cted locations	5.		
85		The	e use of USL	tends	to prov	ide a balan	ce betwee	n false posi	tives and fall	se negatives	provided	the data	
86		repre	esents a ba	ckgrou	nd data	set and wh	ien many o	onsite obser	vations need	d to be comp	ared with	the BTV.	
87													

	A	В	С	D	E	F	G	н	1			<	L
1				Goodness	of-Fit Test	Statistics for	or Uncensor	ed Full Da	ata Sets wi	ithout Nor	n-Detects		
2		User Selec	ted Options	5									
3	Date	/Time of Co	mputation	ProUCL 5.	16/24/2020	2:49:07 PM							
4		E.J.	From File	WorkShee	t.xls								
5	-	Full Confidence (Precision	OFF									
6		onnuence c	Joemicient	0.95									
7	-												
8	Areanic												
9	Arsenic												
10	-		Raw S	tatistics									
12			Numbe	er of Valid O	hearvations	20							
12			Number	of Distinct O	hservations	20							
10			i tullioor (of Distinct O	Minimum	0.971							
15					Maximum	11.5							
16				Mean	f Raw Data	4 877							
17			Standard	Deviation o	f Raw Data	2.959							
18					Khat	2.775							
19					Theta hat	1.757							
20					Kstar	2.392							
21					Theta star	2.038							
22			Mean of	Log Transfo	ormed Data	1.394							
23		Standard D	Deviation of	Log Transfo	ormed Data	0.662							
24													
25		No	ormal GOF	Test Result	s								
26													
27			Co	orrelation Co	befficient R	0.968							
28			Sha	piro Wilk Te	est Statistic	0.93							
29			Shapiro Wi	ilk Critical (0	.05) Value	0.905							
30		A	Approximate	e Shapiro Wi	ilk P Value	0.172							
31				Lilliefors Te	st Statistic	0.169							
32			Lilliefo	rs Critical (0	.05) Value	0.192							
33	Data appear	Normal at (0.05) Signi	ficance Leve	el								
34		0		Toot Day /									
5		Gar	nma GOF	est Results	5								
50			0-	rolation O-	officiant D	0.001							
0			Co		efficient R	0.991							
0			Δ.	A-D Tes		0.208							
9			4-1	K-S Tor	st Statistic	0.149							
1			K-	S Critical(0)		0.120							
2 [Data appear	Gamma Dis	tributed at	(0.05) Siani	ficance Levi	el							
3		Con Start		, and									
4		Logno	ormal GOF	Test Result	ts								
5													
3			Cor	relation Coe	efficient R	0.989							
7			Shap	oiro Wilk Tes	t Statistic	0.974							
8		5	Shapiro Will	k Critical (0.0	05) Value	0.905							
Э		Ap	oproximate	Shapiro Will	k P Value	0.838							
D			L	illiefors Tes	t Statistic	0.119							
1			Lilliefors	s Critical (0.0	05) Value	0.192							
2 C)ata appear L	ognormal a	t (0.05) Sig	inificance Le	evel								

	A B C D F	F	G H I I K	1
1	UCL Statis	stics for Un	censored Full Data Sets	L
2				
3	User Selected Options			
4	Date/Time of Computation ProUCL 5.16/24/2020	2:31:44 PM		
5	From File WorkSheet.xls			
6	Full Precision OFF			
7	Confidence Coefficient 95%			
8	Number of Bootstrap Operations 2000			
9				
10				
11	Arsenic			
12				
13		General	Statistics	
14	Total Number of Observations	20	Number of Distinct Observations 2	20
15			Number of Missing Observations	0
16	Minimum	0.971	Mean 4	4.877
17	Maximum	11.5	Median 4	4.14
18	SD	2.959	Std. Error of Mean	0.662
19	Coefficient of Variation	0.607	Skewness 0).77
20				
21		Normal	GOF Test	
22	Shapiro Wilk Test Statistic	0.93	Shapiro Wilk GOF Test	
23	5% Shapiro Wilk Critical Value	0.905	Data appear Normal at 5% Significance Level	
24	Lilliefors Test Statistic	0.169	Lilliefors GOF Test	
25	5% Lilliefors Critical Value	0.192	Data appear Normal at 5% Significance Level	
26	Data appea	r Normal a	5% Significance Level	
27				
28	Ass	uming Nor	nal Distribution	
29	95% Normal UCL		95% UCLs (Adjusted for Skewness)	
30	95% Student's-t UCL	6.021	95% Adjusted-CLT UCL (Chen-1995) 6	.087
31			95% Modified-t UCL (Johnson-1978) 6	.04
32				
33		Gamma (GOF Test	
34	A-D Test Statistic	0.208	Anderson-Darling Gamma GOF Test	
35	5% A-D Critical Value	0.749	Detected data appear Gamma Distributed at 5% Significance Lo	evel
36	K-S Test Statistic	0.128	Kolmogorov-Smirnov Gamma GOF Test	
37	5% K-S Critical Value	0.195	Detected data appear Gamma Distributed at 5% Significance Le	evel
38	Detected data appear	Gamma Dis	stributed at 5% Significance Level	
39				
40		Gamma	Statistics	
41	k hat (MLE)	2.775	k star (bias corrected MLE) 2.	.392
42	Theta hat (MLE)	1.757	Theta star (bias corrected MLE) 2.	.038
43	nu hat (MLE)	111	nu star (bias corrected) 95	6.69
44	MLE Mean (bias corrected)	4.877	MLE Sd (bias corrected) 3.	153
45			Approximate Chi Square Value (0.05) 74	.13
46	Adjusted Level of Significance	0.038	Adjusted Chi Square Value 72	.63
47				
48	Assu	iming Gam	ma Distribution	
49	95% Approximate Gamma UCL (use when n>=50))	6.295	95% Adjusted Gamma UCL (use when n<50) 6.	425
50			 J. Same can expect a contract prosterity of balance Proc. 20 States and R. 	
51		Lognormal	GOF Test	
52	Shapiro Wilk Test Statistic	0.974	Shapiro Wilk Lognormal GOF Test	

4	А	В	С	D	E	F	G	н	I	J	К	L
53			5% Sha	piro Wilk C	ritical Value	0.905		Data appear	Lognorm	nal at 5% Signif	ficance Leve	
54				Lilliefors T	est Statistic	0.119		Lilli	iefors Log	normal GOF	Test	
55			5%	Lilliefors C	ritical Value	0.192		Data appear	Lognorm	nal at 5% Signit	ficance Leve	1
56				C	ata appear l	Lognormal a	t 5% Sign	ificance Lev	el			
57												
58						Lognormal	Statistics					1.1.1.1
59			М	inimum of L	ogged Data	-0.0294				Mean of I	ogged Data	1.394
60			Ma	aximum of L	ogged Data	2.442				SD of I	ogged Data	0.662
61												
62					Assu	ming Lognor	mal Distri	bution				
63				3	95% H-UCL	6.997			90%	6 Chebyshev (I	MVUE) UCL	7.284
64			95% C	hebyshev (I	VVUE) UCL	8.34			97.5%	6 Chebyshev (I	MVUE) UCL	9.807
65			99% C	hebyshev (I	WVUE) UCL	12.69						
66												
67					Nonparamet	tric Distribut	ion Free L	ICL Statistic	s			
68			D	ata appear	to follow a D	Discernible D	Distribution	n at 5% Sigr	ificance	Level		
69												
70					Nonpara	ametric Dist	ribution Fr	ee UCLs				
71				95	% CLT UCL	5.965				95% Ja	ckknife UCL	6.021
72			95% 5	Standard Bo	otstrap UCL	5.954				95% Boo	tstrap-t UCL	6.173
73			95	% Hall's Bo	otstrap UCL	6.138			95%	6 Percentile Bo	otstrap UCL	5.985
74			9	5% BCA Bo	otstrap UCL	6.071						
75			90% Che	ebyshev(Me	an, Sd) UCL	6.861			95% (Chebyshev(Me	an, Sd) UCL	7.76
76			97.5% Che	ebyshev(Me	an, Sd) UCL	9.008			99% (Chebyshev(Me	an, Sd) UCL	11.46
77												
78						Suggested	UCL to Us	e				
79				95% Stu	dent's-t UCL	6.021						
80												
81	Note	: Suggestic	ons regarding	g the select	on of a 95%	UCL are pro	ovided to h	nelp the user	to select	the most appr	opriate 95%	UCL.
82			Re	commenda	tions are bas	ed upon data	a size, dat	a distribution	n, and ske	ewness.		
83	The	se recomm	nendations a	re based up	oon the resul	ts of the sim	ulation stu	idies summa	arized in S	Singh, Maichle,	, and Lee (20	006).
84	Howev	er, simulati	ions results v	will not cove	er all Real W	orld data set	ts; for addi	tional insigh	t the user	may want to c	consult a stat	tistician.
85												

	A B	С	D	E	F	G	н	1	J	K	L	М
1			General S	tatistics on	Uncensore	d Log-Trans	formed Data					
2	Date/Time of C	omputation	ProUCL 5.	16/24/2020	2:37:11 PM	D.						
3	User Sele	cted Options	6									
4	1	From File	WorkShee	t.xls								
5	Fu	I Precision	OFF									
6												
7	From File: WorkShee	t.xls										
8												
9			G	General Stat	tistics for U	ncensored L	.og-Transform	ned Datas	et			
10												
11	Variable	NumObs	# Missing	Minimum	Maximum	Mean	Variance	SD	MAD/0.675	Skewness	Kurtosis	cv
12	Arsenio	20	0	-0.0294	2.442	1.394	0.438	0.662	0.759	-0.329	-0.474	0.475
13												
14			Per	centiles for	Uncensore	d Log-Trans	formed Data	set				
15												
10	Variable	NumObs	# Missing	10%ile	20%ile	25%ile(Q1)	50%ile(Q2)7	5%ile(Q3)	80%ile	90%ile	95%ile	99%ile
16						0.005	1 10	1 000	1 000			










Appendix F

Site Photos

Appendix F PEA Photographic Log – Los Altos High School Expansion



Grading North of the 500 Building



Southern Side of Custodial Building



BP-2 Sampling Location



New Foundation in the area of former 600 Building



Concrete Coring of Sampling Location BP-7



Coring Location for AG-4 Sampling