

Phase II

Limited Subsurface Investigation

Powered by
CREtelligent

Project Number:
20J27-58963A

Date Engaged:
November 6, 2020

Report Date:
December 4, 2020

Engaged by:

Edgar Monroy

Subject Site:

Commercial Property
2286 Sunrise Blvd.
Gold River, CA 95670

Date: December 4, 2020

Dear Edgar Monroy,

CREtelligent was contracted by you (herein referred to as "Client") to conduct a Phase II Limited Subsurface Investigation (herein referred to as "LSI") on a Commercial Property located at 2286 Sunrise Blvd., Gold River, CA 95670 (herein referred to as "subject site" or "subject site property"). CREtelligent received written authorization from Client on November 6, 2020 to perform the LSI Report. This LSI Report was performed in general accordance with established Environmental Protection Agency (EPA)/ASTM standards and the Engagement Agreement for Services Proposal 20J27-58963A executed by the Client. Exceptions to or deletions from this protocol are discussed in this report.

We appreciate your business. If you have any questions regarding the attached report, or if we can be of any further service to you, please do not hesitate to contact us at (866) 901-7201.

Sincerely,



Kara Kessler, Senior Client Success Manager
Direct Line: (916) 836-5761
k.kessler@CREtelligent.com

Table of Contents

1.0 Purpose	1
2.0 Background Information	1
3.0 Geology and Groundwater	3
4.0 Pre-field Work	3
5.0 Health and Safety Plan	3
6.0 Work Plan	3
7.0 Investigation	3
8.0 Sampling and Analytical Methods	4
9.0 Findings	5
10.0 Conclusions & Recommendations	6
11.0 Standard of Care and Limitations	7
12.0 Reliance	8
Appendix A: Maps	
Appendix B: Tables	
Appendix C: Field Notes and Supporting Documentation	
Appendix D: Accredited Laboratory Results	
Appendix E: Consultant Resumes	

1.0 PURPOSE

The purpose of this LSI was to identify the possible presence of Volatile Organic Compounds (VOCs) also referred to as chemicals of concern (COCs) related to historical dry cleaning operations with documented halogenated solvent use identified at the subject site. The information provided in this report describes the scope of work performed on the subject site and the interpretation of the data obtained during the investigation.

This LSI is not intended to define or delineate any contamination plume but rather intended to identify the possible presence of COCs and the magnitude of the potential risk to human health and the environment. This LSI is limited in scope and is not intended to satisfy the level of assessment necessary to provide remedial solutions, determine migration pathways related to a release of COCs, investigate other areas or contaminants other than those specified in the scope of work, provide complete site characterization, and/or other reporting requirements necessary meet any specific state program.

2.0 BACKGROUND INFORMATION

A previous Phase I Environmental Site Assessment (ESA), Project #20J27-58963 was conducted for the subject site by eScreenLogic on November 4, 2020. According to the ESA, the subject site consists of an irregular-shaped tract of land with an area totaling approximately +/- 0.65 acres. The subject site structure is a single-story, multi-tenant commercial building consisting of approximately 4,913 square feet in size with associated paved parking lots and driveways. The subject site structure was reportedly constructed in 1989 and was occupied by V-Cleaners, Lifted Smoke Shop, and Massage Angels at the time of the ESA.

The eSL ESA report concluded and cited the following environmental concerns as a Recognized Environmental Condition (REC):

"From Section 3.3.2, Subject Site Regulatory Database Review:

SITE NAME: RIVER CLEANERS, V CLEANERS, V MAX CLEANERS, VMAX CLEANERS, KIM'S PHOTO, KIM'S 1 HR PHOTO, CALIFORNIA BACK & NECK PAIN SPEC, MAX PRATICE CLINIC MGMT INC. DBA CBNPS

ADDRESS: 2286 Sunrise Boulevard, Suites 1, 2, and 3

FINDINGS: The regulatory database identified this site with the following information (the following information are summarized excerpts from the regulatory data:

The subject site was identified with a multi-tenant retail building with a dry-cleaning facility (Suite 1), 1-hour photo printing facility (Suite 2), and a chiropractor (Suite 3).

According to the available historical resources, outlined in Section 3.2.1 Historical Use of Subject Site, a dry-cleaning facility has operated on the subject site since at least 1990, the 1-hour photo lab operated from at least 1995 to 2009, and the chiropractic office operated from at least 1995 to 2009.

Suite 1

- The regulatory database report identified the subject site as being occupied by a dry-cleaning facility from 1990 to present in Suite 1, the northernmost unit. See Figure 1.
- Additionally, dry-cleaning facilities, such as this, have been known to use hazardous materials in their daily operations (i.e. underground storage tanks, solvents for cleaning clothes, etc.).
- Solvents are carcinogenic, permeate easily through hard surfaces, and readily migrate in groundwater media.
- An active Sacramento County Hazardous Waste permit was identified for this facility.
- Additionally, HAZNET registrations from 1992 to present (no end date) for hazardous waste manifests of "solids or sludges with halogenated organic compounds $\geq 1,000$ Mg./L" (0.28 tons in 2012; 0.08 tons in 2013; 0.20 tons in 2014).
- Dry-cleaning facilities have been known to use hazardous materials in their daily operations (i.e. aboveground or underground storage tanks, solvents for cleaning clothes, etc.). Halogenated dry cleaning agents including but not limited to PCE/TCE/Carbon Tetrachloride are persistent in the environment, do not readily degrade under aerobic conditions, and are carcinogenic – and thus a risk to human health and the environment.
- According to the attendant, who was interviewed at the time of the on-site inspection, perchloroethylene (PERC) is not presently used in V Cleaners, and has not been used since they've been the tenant (for the last 7 years, based on city directories).

At the time of the on-site inspection, Suite 1 is still being occupied by a dry-cleaning facility; however, Suites 2 and 3 are now being occupied by a Lifted Smoke & Vape Shop and Massage Angel, respectively.

Therefore, based on the above information, it is the EP's opinion that the previous use of halogenated solvents at the dry cleaner (Suite 1) represents a potential vapor intrusion concern and is considered a **REC** to the subject site at this time."

The findings of the ESA described above led to the following recommendations:

"A limited subsurface investigation (LSI) in the form of a sub-slab soil vapor sampling event is recommended to determine whether historic PERC use at the on-site dry cleaner (Suite 1) has impacted the subject site."

The recommendations identified in the ESA Report resulted in the completion of this LSI by CREtelligent. The scope of this LSI was specifically devised around the RECs identified in the ESA report related to the dry cleaners and thus limited to Suite 1. The ESA report additionally recommended the empty naphtha drums be removed from the site or clearly labeled as "EMPTY". This was not included in the scope of work of this LSI. The owner/operator is responsible for implementing these recommendations.

3.0 GEOLOGY AND GROUNDWATER

The subject site lies in Sacramento County within the The Greater Sacramento area. According to the ESA (eScreenLogic, 2020), geology beneath the site consists of "Quaternary alluvium and marine deposits, dating from the Pliocene to Holocene: alluvium, lake, playa, and terrace deposits; unconsolidated and semiconsolidated. Mostly nonmarine, but includes marine deposits near the coast" mapped as "Q". The subject site reportedly lies approximately 99-feet above mean sea level with regional topography sloping toward the north-northwest. The closest water body is identified as Buffalo Creek which reportedly lies approximately 615 feet east of the subject site at its closest point. Site-specific groundwater depth and gradient were not determined during this investigation; however, a review of a Q2, 1999 monitoring event during the previous ESA for the east adjacent property identified groundwater about 60-feet below ground surface (BGS). According to a Case Closure Summary for 2295 Sunrise Blvd. groundwater flow was identified to the west.

4.0 PRE-FIELD WORK

Since this LSI involved sub-slab soil vapor sampling with no additional depth needed below the existing concrete slab, no utility clearance or Underground Service Alert (USA North) were required as part of this investigation.

5.0 HEALTH AND SAFETY PLAN

A site-specific Health and Safety Plan was not required as part of this LSI; however, CREtelligent utilizes Occupational Health and Safety protocol under Hazardous Waste Operations & Emergency Response 29 CFR 1910.120 when performing LSIs. This protocol is designed to reduce the risk of physical or chemical exposures that may affect on-site workers within the work area. The Health and Safety protocols include information about anticipated COCs on the subject property, health and safety procedures for working on-site, and emergency response procedures.

6.0 WORK PLAN

A work plan was not prepared for this LSI; however, a scope was prepared pursuant to CREtelligent's Proposal #20J27-58963A. The scope of work for this LSI included the following:

- Advancement of four sub-slab soil vapor probes for the collection of subsurface vapor targeted for laboratory analysis;
- Analysis of samples by a certified laboratory for the potential presence of chemicals of concern using EPA Method TO-15;
- Preparation of a written report authored and signed by a California-licensed engineer citing the findings of the investigation and recommendations (if applicable).

7.0 INVESTIGATION

November 16, 2020

- CREtelligent mobilized to the subject site to strategically install four sub-slab soil vapor points within the subject site to address the REC identified in the previous ESA (see Figure 2);
- Specific sub-slab soil vapor sample locations were determined by targeting areas most likely to have been potentially impacted while providing sufficient spatial distribution for representative conditions throughout the Suite;
- The first sub-slab soil vapor sample (SSV1) was collected behind a dry cleaning machine in the vicinity of the waste storage area;
- A second sub-slab soil vapor sample (SSV2) was collected between previous exhaust vents;
- Due to limited accessibility within the boiler room, the third sub-slab soil vapor sample (SSV3) was collected beneath a competent concrete walk from on the exterior of the eastern facing wall of the building immediately adjacent to the boiler room.
- The fourth sub-slab soil vapor sample (SSV4) was collected from the northwest portion of the building, in order to gather data representing conditions in non-working areas.
- At each sub-slab soil vapor sample location, a roto-hammer drill was used to drill through the concrete slab. The drill bit was advanced slightly into the aggregate layer, just beneath the slab. The slab was observed to range from approximately four to six-inches thick at each sample location.
- A screened soil vapor port was installed into the aggregate base and bedded with a clean sand. Hydrated bentonite was used at the surface to provide an air-tight seal with the slab;
- The sample points were allowed to equilibrate for approximately 30-minutes or greater prior to sample collection;
- Based on the minimal length of tubing, samples were collected without purging;
- All four samples (SSV1 through SSV4) were collected within a leak-check shroud using isopropyl alcohol (2-propanol) as the leak check chemical;
- The samples were collected within 1-L evacuated summa canisters equipped with flow restrictors to allow for approximate 5-minute sampling events;
- Upon completion of the sample collection, the probe locations were backfilled with a quick setting concrete patch.
- Samples were logged onto the chain of custody until they could be relinquished to the custody of the analytical laboratory.

8.0 SAMPLING AND ANALYTICAL METHODS

Four sub-slab soil vapor samples were strategically collected from areas on the subject site (within the building) to investigate the potential presence of COCs. The sub-slab soil vapor samples were collected within evacuated, pre-cleaned, batch-certified 1-Liter summa canisters provided by the analytical laboratory Pace Analytical of Minneapolis, Minnesota. Flow controllers were used to restrict the flow into each evacuated canister and prevent stripping of COCs from the sub-slab media and collect the samples over an approximate 5-minute sample interval. Isopropyl alcohol (2-propanol) was used as the leak-check chemical.

Upon sample collection, the samples were logged onto chain of custody and shipped to the laboratory for analysis using EPA Method TO-15 for VOCs. The samples were collected according to standard industry practices and in compliance with established State of California, Environmental Protection Agency (EPA) and/or ASTM standards using a methodology based on the Department of Toxic Substances Control (DTSC) Advisory for Active Soil Gas investigations (DTSC, 2012, updated and finalized July 2015).

9.0 FINDINGS

The following findings are based on the results of the LSI performed at the subject site in accordance with CREtelligent's Proposal #20J27-58963A. This investigation was conducted to evaluate the possible presence of COCs and was performed in general conformance with ASTM and DTSC standards. It is not intended to satisfy the level of assessment necessary to propose remedial solutions, assess migration pathways related to a release of COCs and/or to investigate other areas or contaminants other than those specified in the scope of work. Sampling procedures and analytical methods are based on State of California standard practices and regulatory guidelines; however, are not meant to provide site characterization and/or other reporting requirements necessary to meet any specific state program. Testing results and professional evaluation of this LSI are for the use of the client only.

The identified chemicals presented in the laboratory analysis (Appendix - [Accredited Laboratory Results](#).) were compared against Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2019) specific to commercial/industrial land use. These ESLs are not intended to constitute clean up levels but rather provide conservative estimates of the potential risk to human health as recommended by the State of California. Summaries of the reported detections of COCs in sub-slab soil vapor in comparison to the ESLs are provided in Table 1 of Appendix [Tables](#).

The analytical results of the sub-slab soil vapor samples identified low-level to trace detections of petroleum-related, oxygenated, and some halogenated VOCs (refer to Table 1 in Appendix - [Tables](#).). Tetrachloroethene (PCE), a halogenated VOC solvent historically used in dry cleaners is the predominant chemical of concern, and was detected in all four of sub-slab soil vapor samples. The highest PCE concentration reported is 57.9 $\mu\text{g}/\text{m}^3$ detected in SSV1; collected behind a dry cleaning machine in the vicinity of the waste storage area. This detection came close to but did not exceed the PCE ESL of 67 $\mu\text{g}/\text{m}^3$. Additional PCE degradation products including cis-1,2-Dichloroethene, trans-1,2-Dichloroethene and trichloroethene (TCE) were also detected at concentrations below their respective ESLs. Chloroform was not expected to be present in the soil vapor; however, it was detected in two samples, SSV3 and SSV4. The Chloroform concentration reported in the SSV3 sample; collected beneath a competent concrete walk from on the exterior of the eastern facing wall of the building immediately adjacent to the boiler room, is 74.7 $\mu\text{g}/\text{m}^3$. This exceeds the ESL of 18 $\mu\text{g}/\text{m}^3$. None of the other detected COCs exceeded their respective ESLs for commercial use.

The leak check chemical, 2-propanol, was reported in all four soil vapor samples. The leak check is performed to evaluate if there are leaks within the sample train of the sampling apparatus during the vapor collection process. Due to the sensitivity of air and soil vapor sampling and analysis, it is not unexpected to see detections of the leak check compound in vapor samples. In a worst-case scenario, if the concentration of the leak check exceeds 0.005 % volume (50 parts per million) the sample integrity is considered compromised and sample results should not be used. 50 PPMV of 2-propanol equates to a vapor concentration of 122,883 $\mu\text{g}/\text{m}^3$ which is above the greatest concentration detected (211 $\mu\text{g}/\text{m}^3$) in SSV4. Based on the minimal detections of 2-propanol reported, the sample integrity of the sub-slab soil vapor samples is considered “excellent” and representative of vapor conditions immediately beneath the slab at the locations tested.

10.0 CONCLUSIONS & RECOMMENDATIONS

Conclusions

As is evidenced by the reportable concentrations of COCs in the sub-slab soil vapor samples collected from beneath the subject site, the subsurface has been impacted as a result of the historic on-site dry cleaning activities. The reported PCE concentrations in the sub-slab vapor samples are not indicative of a "gross" or "blatant" release, rather are likely attributed to small spills and leaks over time. PCE and its degradation products were all detected at concentrations below their respective ESLs. Chloroform is also a halogenated solvent and was detected above its ESL in one of the four samples analyzed. Chloroform has historically been used as a "spotting agent" in the dry cleaner industry and commonly associated with the chlorination of water. Based on the elevated chloroform concentration being detected in the exterior sample and not being observed at comparable concentrations in the other samples indicating it's not widespread concern; it's CREtelligent's Environmental Professional's opinion the documented impacts are thus considered De Minimis to the current land use.

Recommendations

Based on the above conclusions from our field investigation, the following recommendations are provided:

- No additional assessment is recommended at this time.
- California Proposition 65 signage should be posted at the entrances of the suite to warn tenants and/or customers of the potential health risks.
- In the event of subject site redevelopment, subsurface activities/excavation, changes to the building foundation/slab integrity and/or land-use changes to a more restrictive use (i.e. residential, childcare, etc.) then additional assessment may be required at that time

11.0 STANDARD OF CARE AND LIMITATIONS

This LSI investigation was performed in general accordance with CREtelligent's Proposal #20J27-58963A. No other warranties, either expressed or implied, apply to the services herein.

To accurately represent the services performed, CREtelligent notes that it does not and cannot represent that the subject site contains no hazardous material, products, underground storage tanks (USTs), and/or other latent conditions beyond the Scope of Work for this LSI.

CREtelligent cannot warrant the accuracy of prior reports and/or services performed by other firms at the subject site. Findings and Conclusions conveyed herein are based upon the limited and included data obtained on a specific date; such conditions are subject to change.

CREtelligent's liability, if any, for any claim, costs, loss or damage resulting from CREtelligent's negligence, if any, relating to this agreement or the work performed pursuant hereto shall not exceed the amount of the payment(s) actually received by CREtelligent hereunder; provided, however, CREtelligent's liability, if any, for claims involving "professional liability", "general liability" or "pollution liability" shall not exceed the amount of insurance maintained by CREtelligent. CREtelligent currently maintains (i) professional liability insurance, general liability insurance, and pollution liability insurance in the amount of \$1,000,000 and an umbrella liability policy in the amount of \$2,000,000.

CREtelligent and Edgar Monroy agree to make good-faith efforts to settle any dispute or claim that arises under this Agreement or the work performed under its conditions through discussion and negotiation. The dispute resolution process will be initiated by either party giving the other party written notice that a dispute exists ("Notice of Dispute"), setting forth the facts and circumstances surrounding the dispute. Within 15 days of the delivery of the Notice of Dispute, the Parties shall meet at a mutually acceptable date, time, and place, attempting to informally resolve the dispute. If the dispute has not been resolved through these negotiations, the Parties agree that any claim or action relating in any way to this Agreement or the work performed pursuant hereto, shall be resolved through binding arbitration pursuant to the rules of the American Arbitration Association. The site of any arbitration proceedings shall be at CREtelligent, 11344 Coloma Road #850, Gold River, CA 95670 unless otherwise agreed to by the Parties.

Our Client Services Agreement embodies the entire agreement and understanding between CREtelligent and Edgar Monroy, and supersedes any prior agreements and understandings relating to its subject matter. This agreement shall be governed by and construed in accordance with the laws of Sacramento County, California (without regard to its conflict of laws provisions). The parties hereto hereby agree that the venue of any action under this agreement shall be exclusively in Sacramento County, California and that this agreement is performable in part in California.

12.0 RELIANCE

This LSI report has been prepared for the exclusive use and reliance of the Client. Use or reliance by any other party is prohibited without the written authorization of CREtelligent. Reliance on the LSI by the Client shall be subject to the engagement agreement/scope of work executed by the Client.

If you have any questions about the report, or if we can be of any further service to you please do not hesitate to contact us at (866) 901-7201 or www.cretelligent.com.



Abraham Serrato

Project Manager



Tim Musson

Project Manager/Environmental Professional



Robert S. Fagerness, PE (Lic #C053220)

Senior Project Manager/Senior Engineer

Maps

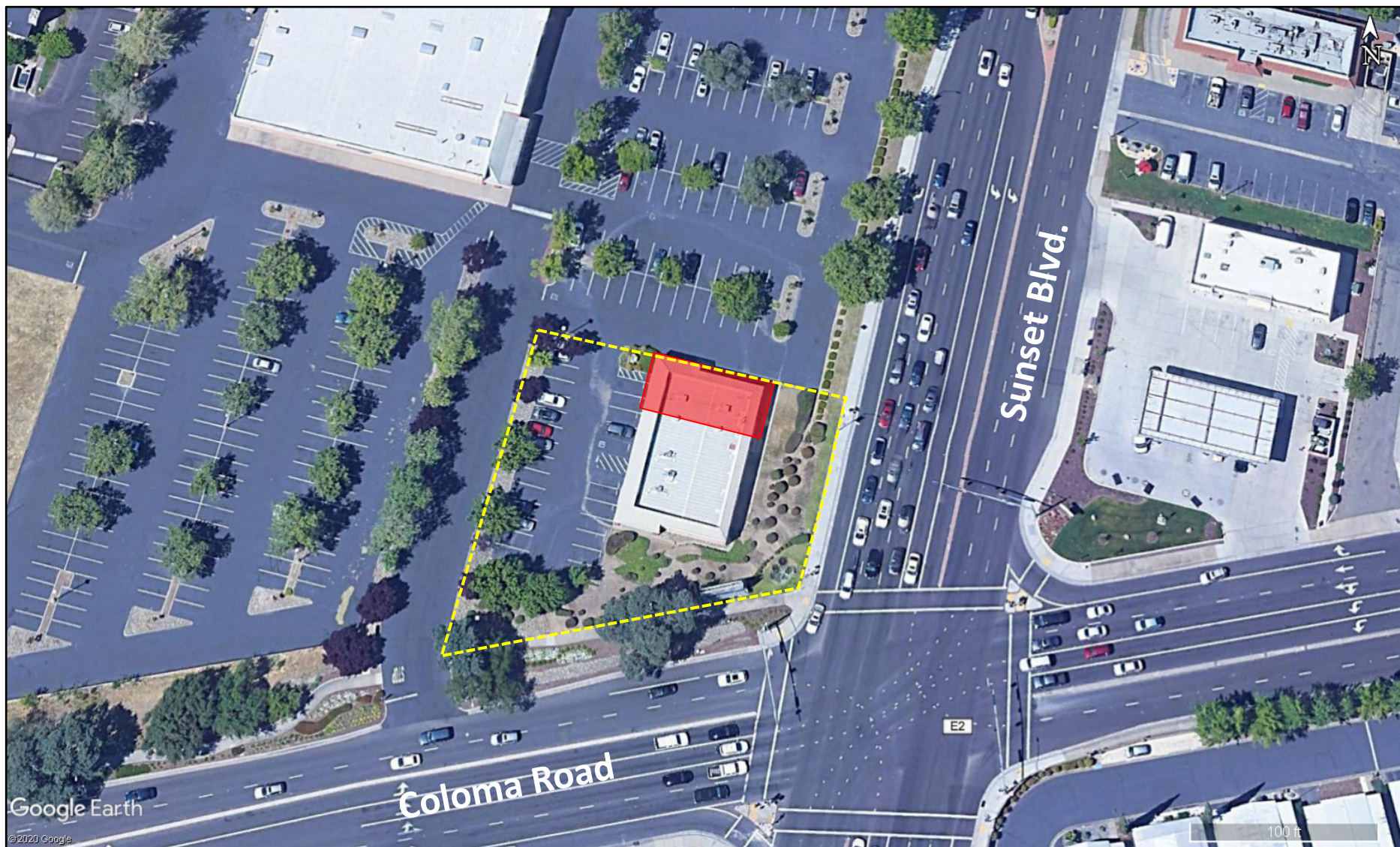
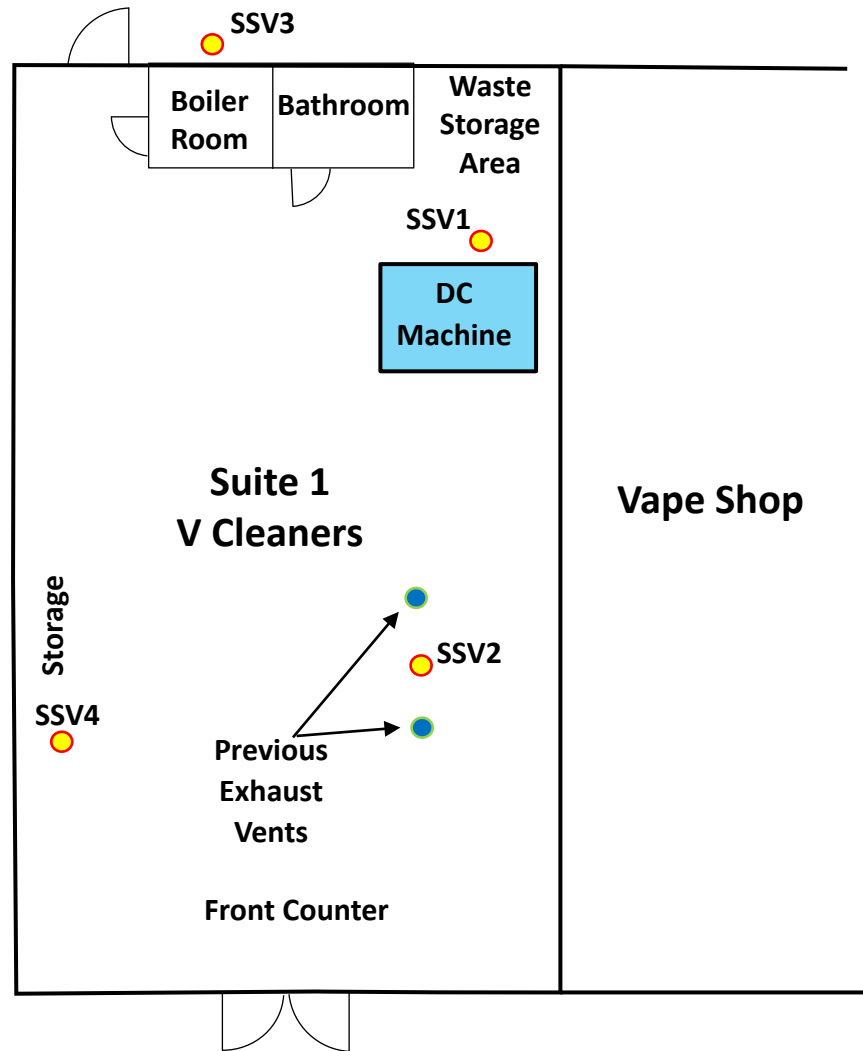


FIGURE 1: Site Map
2286 Sunrise Blvd.,
Gold River, CA 95670

Adapted from Google Earth 2018

Parking



Tables

Table 1: Sub-Slab Soil Vapor Results

Soil Vapor ($\mu\text{g}/\text{m}^3$)					
ANALYTE	SFBRWQCB ESL	SSV1	SSV2	SSV3	SSV4
	Soil Vapor				
Acetone	4,500,000	61.4	36.6	96.7	22.3
2-Butanone (MEK)	730,000	10.0	19.5	7.4	11.2
Carbon disulfide	NE	8.9	1.8	5.0	2.3
Chloroform	18	<0.94	<0.94	74.7	1.9
Chloromethane	13,000	<0.80	2.0	<0.73	<0.81
Dichlorodifluoromethane	NE	<1.9	2.8	2.5	2.5
cis-1,2-Dichloroethene	1,200	<1.5	<1.5	12.7	<1.6
trans-1,2-Dichloroethene	12,000	<1.5	<1.5	1.5	<1.6
Ethanol	NE	14.7	18.5	39.5	17.5
Ethylbenzene	160	<1.7	<1.7	4.1	22.4
n-Hexane	NE	<1.4	<1.4	5.2	<1.4
Methylene Chloride	410	<6.7	<6.7	7.3	<6.8
2-Propanol (isopropyl alcohol)*	NE	77.9	8.3	12.3	211
Tetrachloroethene (PCE)	67	57.9	24.3	21.7	6.3
Tetrahydrofuran	NE	1.4 C8	<1.1	<1.0	<1.2
Toluene	44,000	2.4	<1.5	22.3	<1.5
Trichloroethene (TCE)	100	1.5	<1.0	9.2	1.2
1,2,4-Trimethylbenzene	NE	<1.9	<1.9	3.0	<1.9
m&p-Xylene	15,000	<3.4	3.7	18.1	17.2
o-Xylene	15,000	<1.7	2.2	5.2	12.5
Sample Date		11/17/2020	11/17/2020	11/17/2020	11/17/2020
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board					
ESL = Environmental Screening Level (Commercial/Industrial Human Health Risk Levels for Subslab/Soil Gas Vapor Intrusion to Indoor Air); Revised January 2019 (more stringent cancer risk level depicted if available)					
C8 = Result may be biased high due to carryover from previously analyzed sample.					
Bolded = Analyte detected above reporting limits.					
Highlighted = analyte concentration exceeds established ESL.					
Analytes excluded from the table were not detected above method detection limits in any of the samples.					
*Note: Leak check isopropanol (2-propanol) detected. If 2-propanol concentrations exceed $122,883 \mu\text{g}/\text{m}^3$, the sample result should be considered qualitative in nature and used with caution.					

Field Notes and Supporting Documentation



November 6th, 2020

**PROPERTY OWNER/AUTHORIZED REPRESENTATIVE
AUTHORIZATION FOR SERVICES**

Re: Commercial Property
2286 Sunrise Blvd.,
Gold River, CA 95670

Project #20J27-58963A

I hereby authorize and attest by my signature below, that I have the authority to authorize eScreenLogic and/or its designated affiliates to perform the following services on the property located at 2286 Sunrise Blvd., Gold River, CA 95670.

Phase II/Limited Subsurface Investigation (LSI) including but not limited to the following:

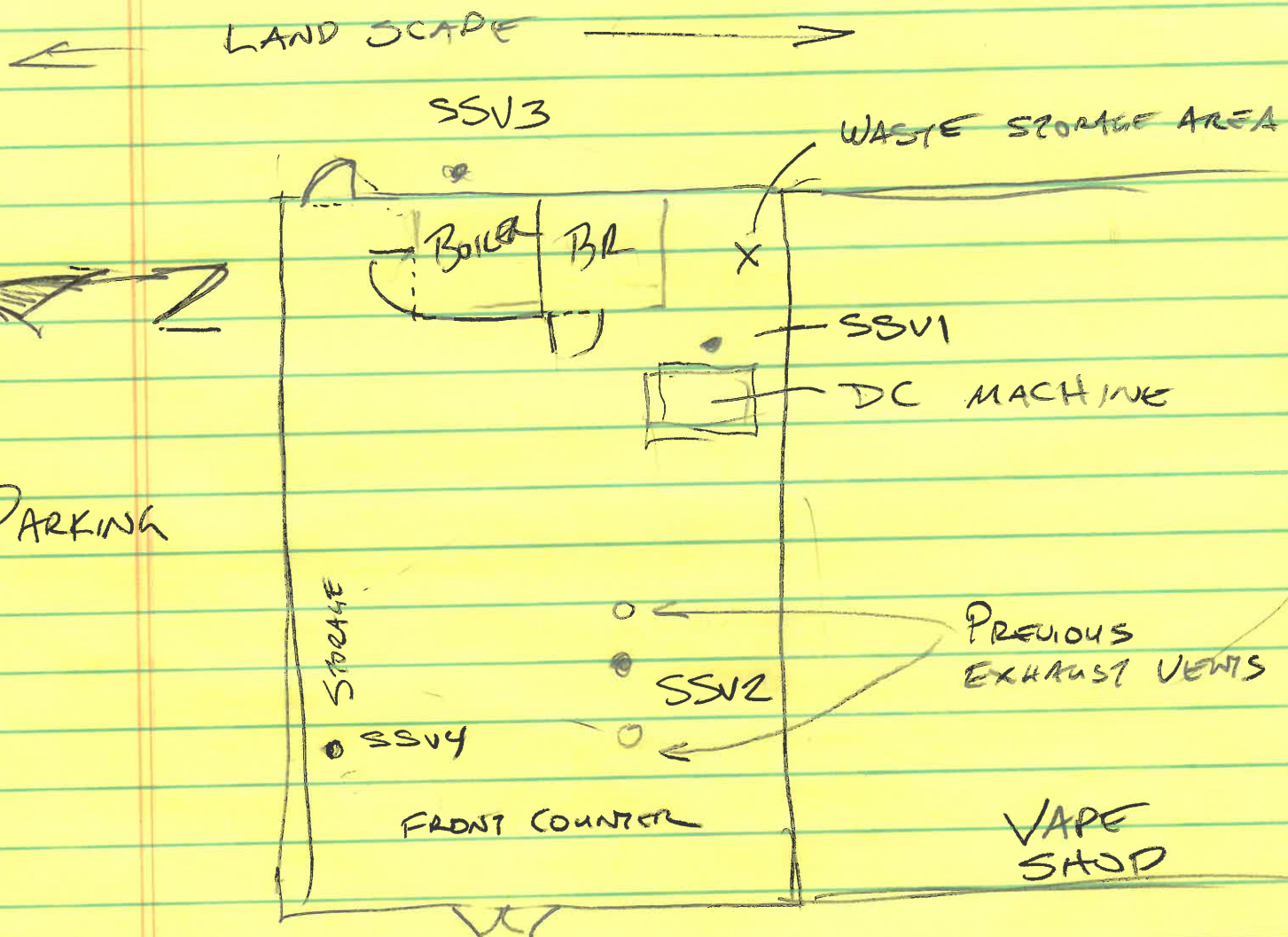
- Drilling to obtain subsurface media for laboratory analysis
- Collection of up to four sub-slab soil vapor samples

This letter serves as authorization to allow eScreenLogic and/or its designated affiliates to proceed with this engagement in an expeditious manner, procure any permits necessary to complete this transaction, proceed without fear of prosecution of trespass onto said property and remain free from any form of harassment while on the said property and within the scope of the engagement.

In the absence and/or unavailability of the Property Owner, I certify I have been authorized by the Property Owner to sign off on this letter in their behalf in order to proceed with this transaction.

DocuSigned by:  Signature / Print Name	Property Owner	11/10/2020 Date
---	----------------	--------------------

Signature / Print Name (authorized party if property owner is not able to sign)	Title	Date
--	-------	------



<u>SAMP #</u>	<u>DESC</u>
SSV1	BEHIND DC MACHINE
SSV2	SITUATED BETWEEN VENTS/EXHAUST
SSV3	EXTERIOR SLAB ADS. BOILER ROOM
SSV4	REP. OF NON-WORK AREA

PROJECT # 20527-58963A LSI
 2286 SUNRISE BLVD
 GOLD RIVER, CA 95670

SAMPLE PLAT PLAN / LOCATION MAP

11/17/2020
 RSE

Accredited Laboratory Results

December 03, 2020

Robert Fagerness
CREtelligent
11344 Coloma Rd
#850
Gold River, CA 95670

RE: Project: 20J27-58963A SUNRISE
Pace Project No.: 10539771

Dear Robert Fagerness:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Krista Carlson
krista.carlson@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Abraham Serrato, CREtelligent



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10539771001	SSV1	Air	11/17/20 10:58	11/18/20 09:45
10539771002	SSV2	Air	11/17/20 11:05	11/18/20 09:45
10539771003	SSV3	Air	11/17/20 11:12	11/18/20 09:45
10539771004	SSV4	Air	11/17/20 11:19	11/18/20 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10539771001	SSV1	TO-15	EMC	61
10539771002	SSV2	TO-15	EMC	61
10539771003	SSV3	TO-15	EMC	61
10539771004	SSV4	TO-15	EMC	61

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Sample: SSV1		Lab ID: 10539771001		Collected: 11/17/20 10:58		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
Acetone	61.4	ug/m3	11.5	1.9		12/02/20 20:17	67-64-1		
Benzene	ND	ug/m3	1.2	1.9		12/02/20 20:17	71-43-2		
Benzyl chloride	ND	ug/m3	5.0	1.9		12/02/20 20:17	100-44-7		
Bromodichloromethane	ND	ug/m3	2.6	1.9		12/02/20 20:17	75-27-4		
Bromoform	ND	ug/m3	10	1.9		12/02/20 20:17	75-25-2		
Bromomethane	ND	ug/m3	1.5	1.9		12/02/20 20:17	74-83-9		
1,3-Butadiene	ND	ug/m3	0.86	1.9		12/02/20 20:17	106-99-0		
2-Butanone (MEK)	10.0	ug/m3	5.7	1.9		12/02/20 20:17	78-93-3		
Carbon disulfide	8.9	ug/m3	1.2	1.9		12/02/20 20:17	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.4	1.9		12/02/20 20:17	56-23-5		
Chlorobenzene	ND	ug/m3	1.8	1.9		12/02/20 20:17	108-90-7		
Chloroethane	ND	ug/m3	1.0	1.9		12/02/20 20:17	75-00-3		
Chloroform	ND	ug/m3	0.94	1.9		12/02/20 20:17	67-66-3		
Chloromethane	ND	ug/m3	0.80	1.9		12/02/20 20:17	74-87-3		
Cyclohexane	ND	ug/m3	3.3	1.9		12/02/20 20:17	110-82-7		
Dibromochloromethane	ND	ug/m3	3.3	1.9		12/02/20 20:17	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	1.5	1.9		12/02/20 20:17	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 20:17	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 20:17	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 20:17	106-46-7		
Dichlorodifluoromethane	ND	ug/m3	1.9	1.9		12/02/20 20:17	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.6	1.9		12/02/20 20:17	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.78	1.9		12/02/20 20:17	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 20:17	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 20:17	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 20:17	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.8	1.9		12/02/20 20:17	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.8	1.9		12/02/20 20:17	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.8	1.9		12/02/20 20:17	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.7	1.9		12/02/20 20:17	76-14-2		
Ethanol	14.7	ug/m3	3.6	1.9		12/02/20 20:17	64-17-5		
Ethyl acetate	ND	ug/m3	1.4	1.9		12/02/20 20:17	141-78-6		
Ethylbenzene	ND	ug/m3	1.7	1.9		12/02/20 20:17	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.8	1.9		12/02/20 20:17	622-96-8		
n-Heptane	ND	ug/m3	1.6	1.9		12/02/20 20:17	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	10.3	1.9		12/02/20 20:17	87-68-3		
n-Hexane	ND	ug/m3	1.4	1.9		12/02/20 20:17	110-54-3		
2-Hexanone	ND	ug/m3	7.9	1.9		12/02/20 20:17	591-78-6		
Methylene Chloride	ND	ug/m3	6.7	1.9		12/02/20 20:17	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.9	1.9		12/02/20 20:17	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	7.0	1.9		12/02/20 20:17	1634-04-4		
Naphthalene	ND	ug/m3	5.1	1.9		12/02/20 20:17	91-20-3		
2-Propanol	77.9	ug/m3	4.8	1.9		12/02/20 20:17	67-63-0		
Propylene	ND	ug/m3	0.66	1.9		12/02/20 20:17	115-07-1		
Styrene	ND	ug/m3	1.6	1.9		12/02/20 20:17	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	1.9		12/02/20 20:17	79-34-5		

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE
Pace Project No.: 10539771

Sample: SSV1		Lab ID: 10539771001		Collected: 11/17/20 10:58		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Tetrachloroethene	57.9	ug/m3	1.3	1.9		12/02/20 20:17	127-18-4	C8	
Tetrahydrofuran	1.4	ug/m3	1.1	1.9		12/02/20 20:17	109-99-9		
Toluene	2.4	ug/m3	1.5	1.9		12/02/20 20:17	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	14.3	1.9		12/02/20 20:17	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	2.1	1.9		12/02/20 20:17	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	1.1	1.9		12/02/20 20:17	79-00-5		
Trichloroethene	1.5	ug/m3	1.0	1.9		12/02/20 20:17	79-01-6		
Trichlorofluoromethane	ND	ug/m3	2.2	1.9		12/02/20 20:17	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.0	1.9		12/02/20 20:17	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	1.9	1.9		12/02/20 20:17	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	1.9		12/02/20 20:17	108-67-8		
Vinyl acetate	ND	ug/m3	1.4	1.9		12/02/20 20:17	108-05-4		
Vinyl chloride	ND	ug/m3	0.49	1.9		12/02/20 20:17	75-01-4		
m&p-Xylene	ND	ug/m3	3.4	1.9		12/02/20 20:17	179601-23-1		
o-Xylene	ND	ug/m3	1.7	1.9		12/02/20 20:17	95-47-6		

Sample: SSV2		Lab ID: 10539771002		Collected: 11/17/20 11:05		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Acetone	36.6	ug/m3	11.5	1.9		12/02/20 21:11	67-64-1		
Benzene	ND	ug/m3	1.2	1.9		12/02/20 21:11	71-43-2		
Benzyl chloride	ND	ug/m3	5.0	1.9		12/02/20 21:11	100-44-7		
Bromodichloromethane	ND	ug/m3	2.6	1.9		12/02/20 21:11	75-27-4		
Bromoform	ND	ug/m3	10	1.9		12/02/20 21:11	75-25-2		
Bromomethane	ND	ug/m3	1.5	1.9		12/02/20 21:11	74-83-9		
1,3-Butadiene	ND	ug/m3	0.86	1.9		12/02/20 21:11	106-99-0		
2-Butanone (MEK)	19.5	ug/m3	5.7	1.9		12/02/20 21:11	78-93-3		
Carbon disulfide	1.8	ug/m3	1.2	1.9		12/02/20 21:11	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.4	1.9		12/02/20 21:11	56-23-5		
Chlorobenzene	ND	ug/m3	1.8	1.9		12/02/20 21:11	108-90-7		
Chloroethane	ND	ug/m3	1.0	1.9		12/02/20 21:11	75-00-3		
Chloroform	ND	ug/m3	0.94	1.9		12/02/20 21:11	67-66-3		
Chloromethane	2.0	ug/m3	0.80	1.9		12/02/20 21:11	74-87-3		
Cyclohexane	ND	ug/m3	3.3	1.9		12/02/20 21:11	110-82-7		
Dibromochloromethane	ND	ug/m3	3.3	1.9		12/02/20 21:11	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	1.5	1.9		12/02/20 21:11	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 21:11	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 21:11	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	5.8	1.9		12/02/20 21:11	106-46-7		
Dichlorodifluoromethane	2.8	ug/m3	1.9	1.9		12/02/20 21:11	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.6	1.9		12/02/20 21:11	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.78	1.9		12/02/20 21:11	107-06-2		

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Sample: SSV2		Lab ID: 10539771002		Collected: 11/17/20 11:05		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
		Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 21:11	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 21:11	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.9		12/02/20 21:11	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.8	1.9		12/02/20 21:11	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.8	1.9		12/02/20 21:11	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.8	1.9		12/02/20 21:11	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.7	1.9		12/02/20 21:11	76-14-2		
Ethanol	18.5	ug/m3	3.6	1.9		12/02/20 21:11	64-17-5		
Ethyl acetate	ND	ug/m3	1.4	1.9		12/02/20 21:11	141-78-6		
Ethylbenzene	ND	ug/m3	1.7	1.9		12/02/20 21:11	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.8	1.9		12/02/20 21:11	622-96-8		
n-Heptane	ND	ug/m3	1.6	1.9		12/02/20 21:11	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	10.3	1.9		12/02/20 21:11	87-68-3		
n-Hexane	ND	ug/m3	1.4	1.9		12/02/20 21:11	110-54-3		
2-Hexanone	ND	ug/m3	7.9	1.9		12/02/20 21:11	591-78-6		
Methylene Chloride	ND	ug/m3	6.7	1.9		12/02/20 21:11	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.9	1.9		12/02/20 21:11	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	7.0	1.9		12/02/20 21:11	1634-04-4		
Naphthalene	ND	ug/m3	5.1	1.9		12/02/20 21:11	91-20-3		
2-Propanol	8.3	ug/m3	4.8	1.9		12/02/20 21:11	67-63-0		
Propylene	ND	ug/m3	0.66	1.9		12/02/20 21:11	115-07-1		
Styrene	ND	ug/m3	1.6	1.9		12/02/20 21:11	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.3	1.9		12/02/20 21:11	79-34-5		
Tetrachloroethene	24.3	ug/m3	1.3	1.9		12/02/20 21:11	127-18-4		
Tetrahydrofuran	ND	ug/m3	1.1	1.9		12/02/20 21:11	109-99-9		
Toluene	ND	ug/m3	1.5	1.9		12/02/20 21:11	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	14.3	1.9		12/02/20 21:11	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	2.1	1.9		12/02/20 21:11	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	1.1	1.9		12/02/20 21:11	79-00-5		
Trichloroethene	ND	ug/m3	1.0	1.9		12/02/20 21:11	79-01-6		
Trichlorofluoromethane	ND	ug/m3	2.2	1.9		12/02/20 21:11	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.0	1.9		12/02/20 21:11	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	1.9	1.9		12/02/20 21:11	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	1.9		12/02/20 21:11	108-67-8		
Vinyl acetate	ND	ug/m3	1.4	1.9		12/02/20 21:11	108-05-4		
Vinyl chloride	ND	ug/m3	0.49	1.9		12/02/20 21:11	75-01-4		
m&p-Xylene	3.7	ug/m3	3.4	1.9		12/02/20 21:11	179601-23-1		
o-Xylene	2.2	ug/m3	1.7	1.9		12/02/20 21:11	95-47-6		

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Sample: SSV3		Lab ID: 10539771003		Collected: 11/17/20 11:12		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Acetone	96.7	ug/m3	10.5	1.74		12/02/20 21:41	67-64-1		
Benzene	ND	ug/m3	1.1	1.74		12/02/20 21:41	71-43-2		
Benzyl chloride	ND	ug/m3	4.6	1.74		12/02/20 21:41	100-44-7		
Bromodichloromethane	ND	ug/m3	2.4	1.74		12/02/20 21:41	75-27-4		
Bromoform	ND	ug/m3	9.1	1.74		12/02/20 21:41	75-25-2		
Bromomethane	ND	ug/m3	1.4	1.74		12/02/20 21:41	74-83-9		
1,3-Butadiene	ND	ug/m3	0.78	1.74		12/02/20 21:41	106-99-0		
2-Butanone (MEK)	7.4	ug/m3	5.2	1.74		12/02/20 21:41	78-93-3		
Carbon disulfide	5.0	ug/m3	1.1	1.74		12/02/20 21:41	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.2	1.74		12/02/20 21:41	56-23-5		
Chlorobenzene	ND	ug/m3	1.6	1.74		12/02/20 21:41	108-90-7		
Chloroethane	ND	ug/m3	0.93	1.74		12/02/20 21:41	75-00-3		
Chloroform	74.7	ug/m3	0.86	1.74		12/02/20 21:41	67-66-3		
Chloromethane	ND	ug/m3	0.73	1.74		12/02/20 21:41	74-87-3		
Cyclohexane	ND	ug/m3	3.0	1.74		12/02/20 21:41	110-82-7		
Dibromochloromethane	ND	ug/m3	3.0	1.74		12/02/20 21:41	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	1.4	1.74		12/02/20 21:41	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	5.3	1.74		12/02/20 21:41	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	5.3	1.74		12/02/20 21:41	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	5.3	1.74		12/02/20 21:41	106-46-7		
Dichlorodifluoromethane	2.5	ug/m3	1.8	1.74		12/02/20 21:41	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		12/02/20 21:41	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.72	1.74		12/02/20 21:41	107-06-2		
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		12/02/20 21:41	75-35-4		
cis-1,2-Dichloroethene	12.7	ug/m3	1.4	1.74		12/02/20 21:41	156-59-2		
trans-1,2-Dichloroethene	1.5	ug/m3	1.4	1.74		12/02/20 21:41	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.6	1.74		12/02/20 21:41	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.6	1.74		12/02/20 21:41	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.6	1.74		12/02/20 21:41	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.5	1.74		12/02/20 21:41	76-14-2		
Ethanol	39.5	ug/m3	3.3	1.74		12/02/20 21:41	64-17-5		
Ethyl acetate	ND	ug/m3	1.3	1.74		12/02/20 21:41	141-78-6		
Ethylbenzene	4.1	ug/m3	1.5	1.74		12/02/20 21:41	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.4	1.74		12/02/20 21:41	622-96-8		
n-Heptane	ND	ug/m3	1.4	1.74		12/02/20 21:41	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	9.4	1.74		12/02/20 21:41	87-68-3		
n-Hexane	5.2	ug/m3	1.2	1.74		12/02/20 21:41	110-54-3		
2-Hexanone	ND	ug/m3	7.2	1.74		12/02/20 21:41	591-78-6		
Methylene Chloride	7.3	ug/m3	6.1	1.74		12/02/20 21:41	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7.2	1.74		12/02/20 21:41	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	6.4	1.74		12/02/20 21:41	1634-04-4		
Naphthalene	ND	ug/m3	4.6	1.74		12/02/20 21:41	91-20-3		
2-Propanol	12.3	ug/m3	4.4	1.74		12/02/20 21:41	67-63-0		
Propylene	ND	ug/m3	0.61	1.74		12/02/20 21:41	115-07-1		
Styrene	ND	ug/m3	1.5	1.74		12/02/20 21:41	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.2	1.74		12/02/20 21:41	79-34-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE
Pace Project No.: 10539771

Sample: SSV3		Lab ID: 10539771003		Collected: 11/17/20 11:12		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Tetrachloroethene	21.7	ug/m3	1.2	1.74		12/02/20 21:41	127-18-4		
Tetrahydrofuran	ND	ug/m3	1.0	1.74		12/02/20 21:41	109-99-9		
Toluene	22.3	ug/m3	1.3	1.74		12/02/20 21:41	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	13.1	1.74		12/02/20 21:41	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		12/02/20 21:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	0.97	1.74		12/02/20 21:41	79-00-5		
Trichloroethene	9.2	ug/m3	0.95	1.74		12/02/20 21:41	79-01-6		
Trichlorofluoromethane	ND	ug/m3	2.0	1.74		12/02/20 21:41	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.7	1.74		12/02/20 21:41	76-13-1		
1,2,4-Trimethylbenzene	3.0	ug/m3	1.7	1.74		12/02/20 21:41	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.7	1.74		12/02/20 21:41	108-67-8		
Vinyl acetate	ND	ug/m3	1.2	1.74		12/02/20 21:41	108-05-4		
Vinyl chloride	ND	ug/m3	0.45	1.74		12/02/20 21:41	75-01-4		
m&p-Xylene	18.1	ug/m3	3.1	1.74		12/02/20 21:41	179601-23-1		
o-Xylene	5.2	ug/m3	1.5	1.74		12/02/20 21:41	95-47-6		

Sample: SSV4		Lab ID: 10539771004		Collected: 11/17/20 11:19		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15 Pace Analytical Services - Minneapolis							
Acetone	22.3	ug/m3	11.7	1.94		12/02/20 20:44	67-64-1		
Benzene	ND	ug/m3	1.3	1.94		12/02/20 20:44	71-43-2		
Benzyl chloride	ND	ug/m3	5.1	1.94		12/02/20 20:44	100-44-7		
Bromodichloromethane	ND	ug/m3	2.6	1.94		12/02/20 20:44	75-27-4		
Bromoform	ND	ug/m3	10.2	1.94		12/02/20 20:44	75-25-2		
Bromomethane	ND	ug/m3	1.5	1.94		12/02/20 20:44	74-83-9		
1,3-Butadiene	ND	ug/m3	0.87	1.94		12/02/20 20:44	106-99-0		
2-Butanone (MEK)	11.2	ug/m3	5.8	1.94		12/02/20 20:44	78-93-3		
Carbon disulfide	2.3	ug/m3	1.2	1.94		12/02/20 20:44	75-15-0		
Carbon tetrachloride	ND	ug/m3	2.5	1.94		12/02/20 20:44	56-23-5		
Chlorobenzene	ND	ug/m3	1.8	1.94		12/02/20 20:44	108-90-7		
Chloroethane	ND	ug/m3	1.0	1.94		12/02/20 20:44	75-00-3		
Chloroform	1.9	ug/m3	0.96	1.94		12/02/20 20:44	67-66-3		
Chloromethane	ND	ug/m3	0.81	1.94		12/02/20 20:44	74-87-3		
Cyclohexane	ND	ug/m3	3.4	1.94		12/02/20 20:44	110-82-7		
Dibromochloromethane	ND	ug/m3	3.4	1.94		12/02/20 20:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/m3	1.5	1.94		12/02/20 20:44	106-93-4		
1,2-Dichlorobenzene	ND	ug/m3	5.9	1.94		12/02/20 20:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/m3	5.9	1.94		12/02/20 20:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/m3	5.9	1.94		12/02/20 20:44	106-46-7		
Dichlorodifluoromethane	2.5	ug/m3	2.0	1.94		12/02/20 20:44	75-71-8		
1,1-Dichloroethane	ND	ug/m3	1.6	1.94		12/02/20 20:44	75-34-3		
1,2-Dichloroethane	ND	ug/m3	0.80	1.94		12/02/20 20:44	107-06-2		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Sample: SSV4		Lab ID: 10539771004		Collected: 11/17/20 11:19		Received: 11/18/20 09:45		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
		Pace Analytical Services - Minneapolis							
1,1-Dichloroethene	ND	ug/m3	1.6	1.94		12/02/20 20:44	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.6	1.94		12/02/20 20:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.94		12/02/20 20:44	156-60-5		
1,2-Dichloropropane	ND	ug/m3	1.8	1.94		12/02/20 20:44	78-87-5		
cis-1,3-Dichloropropene	ND	ug/m3	1.8	1.94		12/02/20 20:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/m3	1.8	1.94		12/02/20 20:44	10061-02-6		
Dichlorotetrafluoroethane	ND	ug/m3	2.8	1.94		12/02/20 20:44	76-14-2		
Ethanol	17.5	ug/m3	3.7	1.94		12/02/20 20:44	64-17-5		
Ethyl acetate	ND	ug/m3	1.4	1.94		12/02/20 20:44	141-78-6		
Ethylbenzene	22.4	ug/m3	1.7	1.94		12/02/20 20:44	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.8	1.94		12/02/20 20:44	622-96-8		
n-Heptane	ND	ug/m3	1.6	1.94		12/02/20 20:44	142-82-5		
Hexachloro-1,3-butadiene	ND	ug/m3	10.5	1.94		12/02/20 20:44	87-68-3		
n-Hexane	ND	ug/m3	1.4	1.94		12/02/20 20:44	110-54-3		
2-Hexanone	ND	ug/m3	8.1	1.94		12/02/20 20:44	591-78-6		
Methylene Chloride	ND	ug/m3	6.8	1.94		12/02/20 20:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	8.1	1.94		12/02/20 20:44	108-10-1		
Methyl-tert-butyl ether	ND	ug/m3	7.1	1.94		12/02/20 20:44	1634-04-4		
Naphthalene	ND	ug/m3	5.2	1.94		12/02/20 20:44	91-20-3		
2-Propanol	211	ug/m3	4.8	1.94		12/02/20 20:44	67-63-0		
Propylene	ND	ug/m3	0.68	1.94		12/02/20 20:44	115-07-1		
Styrene	ND	ug/m3	1.7	1.94		12/02/20 20:44	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.4	1.94		12/02/20 20:44	79-34-5		
Tetrachloroethene	6.3	ug/m3	1.3	1.94		12/02/20 20:44	127-18-4		
Tetrahydrofuran	ND	ug/m3	1.2	1.94		12/02/20 20:44	109-99-9		
Toluene	ND	ug/m3	1.5	1.94		12/02/20 20:44	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/m3	14.6	1.94		12/02/20 20:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/m3	2.2	1.94		12/02/20 20:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/m3	1.1	1.94		12/02/20 20:44	79-00-5		
Trichloroethene	1.2	ug/m3	1.1	1.94		12/02/20 20:44	79-01-6		
Trichlorofluoromethane	ND	ug/m3	2.2	1.94		12/02/20 20:44	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.0	1.94		12/02/20 20:44	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/m3	1.9	1.94		12/02/20 20:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.9	1.94		12/02/20 20:44	108-67-8		
Vinyl acetate	ND	ug/m3	1.4	1.94		12/02/20 20:44	108-05-4		
Vinyl chloride	ND	ug/m3	0.50	1.94		12/02/20 20:44	75-01-4		
m&p-Xylene	17.2	ug/m3	3.4	1.94		12/02/20 20:44	179601-23-1		
o-Xylene	12.5	ug/m3	1.7	1.94		12/02/20 20:44	95-47-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

QC Batch: 713919

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10539771001, 10539771002, 10539771003, 10539771004

METHOD BLANK: 3811196

Matrix: Air

Associated Lab Samples: 10539771001, 10539771002, 10539771003, 10539771004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/02/20 13:05	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	12/02/20 13:05	
1,1,2-Trichloroethane	ug/m3	ND	0.56	12/02/20 13:05	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	12/02/20 13:05	
1,1-Dichloroethane	ug/m3	ND	0.82	12/02/20 13:05	
1,1-Dichloroethene	ug/m3	ND	0.81	12/02/20 13:05	
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	12/02/20 13:05	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	12/02/20 13:05	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	12/02/20 13:05	
1,2-Dichlorobenzene	ug/m3	ND	3.1	12/02/20 13:05	
1,2-Dichloroethane	ug/m3	ND	0.41	12/02/20 13:05	
1,2-Dichloropropane	ug/m3	ND	0.94	12/02/20 13:05	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	12/02/20 13:05	
1,3-Butadiene	ug/m3	ND	0.45	12/02/20 13:05	
1,3-Dichlorobenzene	ug/m3	ND	3.1	12/02/20 13:05	
1,4-Dichlorobenzene	ug/m3	ND	3.1	12/02/20 13:05	
2-Butanone (MEK)	ug/m3	ND	3.0	12/02/20 13:05	
2-Hexanone	ug/m3	ND	4.2	12/02/20 13:05	
2-Propanol	ug/m3	ND	2.5	12/02/20 13:05	
4-Ethyltoluene	ug/m3	ND	2.5	12/02/20 13:05	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	12/02/20 13:05	
Acetone	ug/m3	ND	6.0	12/02/20 13:05	
Benzene	ug/m3	ND	0.65	12/02/20 13:05	
Benzyl chloride	ug/m3	ND	2.6	12/02/20 13:05	
Bromodichloromethane	ug/m3	ND	1.4	12/02/20 13:05	
Bromoform	ug/m3	ND	5.2	12/02/20 13:05	
Bromomethane	ug/m3	ND	0.79	12/02/20 13:05	
Carbon disulfide	ug/m3	ND	0.63	12/02/20 13:05	
Carbon tetrachloride	ug/m3	ND	1.3	12/02/20 13:05	
Chlorobenzene	ug/m3	ND	0.94	12/02/20 13:05	
Chloroethane	ug/m3	ND	0.54	12/02/20 13:05	
Chloroform	ug/m3	ND	0.50	12/02/20 13:05	
Chloromethane	ug/m3	ND	0.42	12/02/20 13:05	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/02/20 13:05	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	12/02/20 13:05	
Cyclohexane	ug/m3	ND	1.8	12/02/20 13:05	
Dibromochloromethane	ug/m3	ND	1.7	12/02/20 13:05	
Dichlorodifluoromethane	ug/m3	ND	1.0	12/02/20 13:05	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	12/02/20 13:05	
Ethanol	ug/m3	ND	1.9	12/02/20 13:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

METHOD BLANK: 3811196

Matrix: Air

Associated Lab Samples: 10539771001, 10539771002, 10539771003, 10539771004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	ND	0.73	12/02/20 13:05	
Ethylbenzene	ug/m3	ND	0.88	12/02/20 13:05	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	12/02/20 13:05	
m&p-Xylene	ug/m3	ND	1.8	12/02/20 13:05	
Methyl-tert-butyl ether	ug/m3	ND	3.7	12/02/20 13:05	
Methylene Chloride	ug/m3	ND	3.5	12/02/20 13:05	
n-Heptane	ug/m3	ND	0.83	12/02/20 13:05	
n-Hexane	ug/m3	ND	0.72	12/02/20 13:05	
Naphthalene	ug/m3	ND	2.7	12/02/20 13:05	
o-Xylene	ug/m3	ND	0.88	12/02/20 13:05	
Propylene	ug/m3	ND	0.35	12/02/20 13:05	
Styrene	ug/m3	ND	0.87	12/02/20 13:05	
Tetrachloroethene	ug/m3	ND	0.69	12/02/20 13:05	
Tetrahydrofuran	ug/m3	ND	0.60	12/02/20 13:05	
Toluene	ug/m3	ND	0.77	12/02/20 13:05	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/02/20 13:05	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	12/02/20 13:05	
Trichloroethene	ug/m3	ND	0.55	12/02/20 13:05	
Trichlorofluoromethane	ug/m3	ND	1.1	12/02/20 13:05	
Vinyl acetate	ug/m3	ND	0.72	12/02/20 13:05	
Vinyl chloride	ug/m3	ND	0.26	12/02/20 13:05	

LABORATORY CONTROL SAMPLE: 3811197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	59.3	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	83.5	116	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	65.7	115	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	83.1	103	70-130	
1,1-Dichloroethane	ug/m3	42.7	44.8	105	70-130	
1,1-Dichloroethene	ug/m3	41.4	44.0	106	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	139	89	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	63.8	124	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	91.0	113	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	62.4	99	70-136	
1,2-Dichloroethane	ug/m3	42.4	45.2	107	70-130	
1,2-Dichloropropane	ug/m3	48.6	57.9	119	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	61.7	120	70-136	
1,3-Butadiene	ug/m3	23.3	25.6	110	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	62.1	98	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	60.8	96	70-145	
2-Butanone (MEK)	ug/m3	31.4	38.7	123	61-130	
2-Hexanone	ug/m3	42.8	46.8	109	70-138	
2-Propanol	ug/m3	119	119	100	70-136	

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QUALITY CONTROL DATA

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

LABORATORY CONTROL SAMPLE: 3811197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	64.6	123	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	51.9	119	70-134	
Acetone	ug/m3	126	120	95	59-137	
Benzene	ug/m3	33.5	36.3	108	70-133	
Benzyl chloride	ug/m3	55.1	52.3	95	70-139	
Bromodichloromethane	ug/m3	71.5	78.9	110	70-130	
Bromoform	ug/m3	110	124	112	60-140	
Bromomethane	ug/m3	41.3	42.1	102	70-131	
Carbon disulfide	ug/m3	33.3	35.8	107	70-130	
Carbon tetrachloride	ug/m3	66.2	69.2	105	70-133	
Chlorobenzene	ug/m3	48.3	52.9	110	70-131	
Chloroethane	ug/m3	28.1	33.4	119	70-141	
Chloroform	ug/m3	51.1	53.2	104	70-130	
Chloromethane	ug/m3	21.9	23.1	105	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	45.1	108	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	56.2	118	70-138	
Cyclohexane	ug/m3	36.7	44.2	120	70-133	
Dibromochloromethane	ug/m3	90.7	105	116	70-139	
Dichlorodifluoromethane	ug/m3	51.6	52.1	101	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	71.8	99	65-133	
Ethanol	ug/m3	103	108	105	65-135	
Ethyl acetate	ug/m3	38.6	43.1	112	70-135	
Ethylbenzene	ug/m3	45.6	52.5	115	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	112	100	70-134	
m&p-Xylene	ug/m3	91.2	105	115	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	41.9	109	70-131	
Methylene Chloride	ug/m3	182	184	101	69-130	
n-Heptane	ug/m3	43.6	51.8	119	70-130	
n-Hexane	ug/m3	37.6	41.9	111	70-131	
Naphthalene	ug/m3	57.7	54.3	94	63-130	
o-Xylene	ug/m3	45.5	52.4	115	70-135	
Propylene	ug/m3	18.2	20.8	115	63-139	
Styrene	ug/m3	44.9	56.4	126	70-143	
Tetrachloroethene	ug/m3	71	73.3	103	70-136	
Tetrahydrofuran	ug/m3	31.5	38.5	122	70-137	
Toluene	ug/m3	39.5	38.5	97	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.7	104	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	59.0	124	70-139	
Trichloroethene	ug/m3	56.3	60.1	107	70-132	
Trichlorofluoromethane	ug/m3	59.7	57.2	96	65-136	
Vinyl acetate	ug/m3	34.5	40.6	118	66-140	
Vinyl chloride	ug/m3	26.7	29.0	109	68-141	

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QUALIFIERS

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20J27-58963A SUNRISE

Pace Project No.: 10539771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10539771001	SSV1	TO-15	713919		
10539771002	SSV2	TO-15	713919		
10539771003	SSV3	TO-15	713919		
10539771004	SSV4	TO-15	713919		

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ORIGINAL



Document Name:
Sample Condition Upon Receipt (SCUR) - Air
Document No.:
ENV-FRM-MIN4-0113 Rev.00

Document Revised: 24Mar2020
Page 1 of 1
Pace Analytical Services -
Minneapolis

Air Sample Condition
Upon Receipt

Client Name:

ESCREENING

Project #:

WO#: 10539771

PM: KAC

Due Date: 11/25/20

CLIENT: eScreenLogic

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Pace ☐ Speedee ☐ Commercial See Exception

Tracking Number: 1723 2547 3684

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X

Thermometer Used: ☐ G87A9170600254

☐ G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X

Date & Initials of Person Examining Contents: 11-19-20 CMY

Type of ice Received ☐ Blue ☐ Wet ☒ None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # ☐ 10AIR26 ☒ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SSV 1	3084	1894	-3.5	no					
SSV 2	3024	1601	-3.5	no					
SSV 3	1176	2007	-1	no					
SSV 4	1329	1690	-4	no					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: H. C. C.

Date: 11/19/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Consultant Resumes

Education

M.S., Civil Engineering, California State University Sacramento,
Sacramento, CA, 1995
B.S., Environmental Resources Engineering, California State University
Humboldt, Arcata, CA, 1989

Project Experience

Due Diligence Environmental Site Assessments - Working with investors, and lending institutions, Mr. Fagerness has completed thousands of Phase I ESAs for property transactions as part of the due diligence process across the nation. This work was performed as part of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. Property types assessed include commercial, industrial, multi-family residential, self-storage facilities, gas stations, automotive service, dry cleaners, day cares and hotels.

Construction Manager, Groundwater Extraction Wells, Conveyance Pipeline, and Remediation Treatment Systems, Aerojet-General Western Groundwater Operable Unit, Rancho Cordova, CA

2010-2014. - The Mr. Fagerness assisted Aerojet-General with construction management services needed for the installation of large-scale groundwater extraction wells, conveyance pipelines, and groundwater treatment facilities. Challenging project requiring installation of remediation system within built-out residential neighborhoods. This work required assistance and cooperation from local, state, and federal agencies. This work also required special use permitting for the installation of a groundwater treatment facility at a site which was zoned residential. Mr. Fagerness was responsible for all permitting, public participation, and field documentation associated with this project. The project was successfully implemented within portions of Rancho Cordova, Gold River, and Eastern Sacramento County.

Multiple LUST Case Closures City of Vallejo Public Works

Department, Vallejo CA 2003-2006- While with his previous firm, Mr. Fagerness was the project manager responsible for the investigation and closure of LUST Case files associated with multiple City of Vallejo properties under the management of the Public Works Department including:

- Vallejo Police Department Main Yard
- Vallejo Fire Satation 25
- Vallejo Fire Stateion 23

Industry Tenure

ENV: 1989
Construction Management: 2010

Related Experience

Phase I Environmental Site Assessments (ESAs)
Phase II LSIs
Limited ESAs
Site Remediations

Industry Experience

Soil, groundwater, soil vapor sample collection and data interpretation.
Government Liaison
Environmental Compliance
Human Health Risk Evaluation
Permitting (construction)
NPDES and Discharge Permits
SPCC Plans
Hazardous Waste Tank Assessments

Active Licences

California Civil Engineer (LIC #C058220)

Special Skills & Training

Qualified SWPPP Developer (QSD) adn
Practitioner (QSP) - (CA Cert #01194)
40-Hr HAZWOPER H&S Training

Regional Location

Sacramento, California

LUST Case Closure, Vallejo Sanitation and Flood Control District, Vallejo, CA - Mr. Fagerness was the project manager responsible for the investigation and closure of leaking underground storage tank (LUST) case file of the Vallejo Sanitation and Flood Control District (VSFCD). Mr. Fagerness successfully conducted additional subsurface investigations allowing a site conceptual model that sufficiently demonstrated there was minimal to no risk leaving residual contamination in place. Based on the model, Mr. Fagerness successfully negotiated LUST case closure with Solano County Local Oversight Program and the Regional Water Quality Control Board (Region 2). The closure saved the VSFCD tens of thousands of dollars with minimal disruption to its active wastewater treatment facility.

Investigation, Remediation, and Closure of Lead and Dioxin/Furan Contaminated Soil, Aerojet-General Site, Rancho Cordova, CA - Mr. Fagerness managed the site characterization, remediation, and confirmation sampling project associated with Aerojet-General Superfund Site in Rancho Cordova California. This work was required by the US EPA with additional oversight by the Regional Water Quality Control Board (Region 5) and Department of Toxic Substances Control (collectively, the Agencies). The work was necessary to allow this portion of the Aerojet Superfund (NPL) Site to be carved out of the contaminated land and cleaned to a level sufficient for future residential development. The remediation involved the removal of contaminated surface soils with disposal to designated TSD facility in southern California. Confirmation Sampling utilized an innovative Incremental Sample Methodology (IMS) which allowed for fewer analytical tests to be needed over the relatively large area remediated. Mr. Fagerness prepared the closure documentation required by the Agencies and was successful at helping Aerojet to carve out this site from the other Superfund properties.

Local Oversight Program, Project Engineer, Solano County, CA - Mr. Fagerness was the Project Engineer overseeing the Solano County Leaking Underground Storage Tank (LUST) Program. This work included the review of consultant's calculations and proposed work plan for the installation and operation of soil and groundwater remediation systems used to remove petroleum and other contaminants from the subsurface environment. Used engineering experience and calculations to verify the accuracy and thoroughness of consultant's groundwater monitoring reports. I provided approval or recommendations for revision based on my engineering review. Worked directly with Department Management, County Supervisors, State Regulatory program officials, and general public (RPs) to ensure prompt response and accuracy within the LOP.

Local Oversight Program, Project Engineer, Environmental Site Assessment and Remediation, Abandoned Agricultural Sites, Central and San Joaquin Valleys, CA - Mr. Fagerness was responsible for the project management, site investigation and remediation of fourteen (14) separate abandoned farm sites located in the Central and San Joaquin Valleys. This work was completed for the Rural Economic and Community Development Division through the US Department of Agriculture (USDA) and the US Army Corp of Engineers (Sacramento Division). This work included the removal of underground and aboveground storage tanks (USTs/ASTs). The work additionally involved regulatory permitting for UST/AAT removals. Involved coordinating subcontractors, analytical laboratories and site contact to ensure project goals and objectives were met successfully and within budget. Responsible for coordinating staff to write the results of the field investigations including (data review and qualification, interpretation and summation of the analytical data, field documentation, and project narrative.

NPDES Program, Water Resources Control Engineer, Discharge projects in the San Joaquin Valley, CA - Mr. Fagerness was responsible for managing National Pollutant Discharge Elimination System (NPDES) sites in San Joaquin County, California. Used engineering skills and experience to assist with review of appropriateness of NPDES treatment systems. Verified calculations submitted by engineering firms on behalf of NPDES dischargers. Performed annual compliance inspections of NPDES facilities. Performed joint inspections with local and EPA officials specific to Industrial Discharge Users of municipal sewer systems. Responsible for review and interpretation of dischargers including the cities of Stockton, Lodi, Lathrop as wells as the Manteca Landfill, and CalAmco ammonia discharges.

Education

B.S., Civil Engineering, University of Wisconsin Platteville, Platteville, WI, 2004

Project Experience

Due Diligence Environmental Site Assessments and Investigations, Corrective Action Leaking Underground Storage Tank (LUST), Midwest - Throughout the states of Minnesota, Iowa, Wisconsin, North Dakota, and South Dakota; Mr. Musson has completed several Phase I Environmental Site Assessments and Phase II Investigation field work for both petroleum and non-petroleum impacted sites / properties. Property types assessed include commercial, industrial, multi-family residential, self-storage facilities, gas stations, automotive service, dry cleaners, day cares and hotels. He has experience managing petroleum underground storage tank (UST) removals and associated Leaking Underground Storage Tank (LUST) investigations in Minnesota and Wisconsin.

Indoor Air Residential - Radon Testing and Radon Mitigation, Minnesota - Working with buyers, sellers, real estate agents; and private owners of residential single-family homes, Mr. Musson has professionally tested numerous houses for the presence of radon gas, and has, installed over one hundred radon mitigation systems - all of which were successful in reducing indoor radon concentrations to below the EPA targeted action level of 4.0 pCi/L. He has installed mitigation systems, with post-mitigation testing showing indoor concentrations reductions all the way down to 0.1 pCi/L.

Petroleum Brownfields / Corrective Action Sites, MN - Working on environmental sites, Mr. Musson has completed regulatory work, permitting, and field sampling protocol in accordance with state petroleum brownfield guidelines.

- Solhaus/Gopher Oil-Delaware/Huron Flats Site – Mr. Musson was in charge of implementing Minnesota Pollution Control (MPCA) / Petroleum Brownfields (PB) Voluntary Investigation (VIC) field sampling and quality control protocol for excavation of contaminated soils; and, acted as on-site environmental representative for company and MPCA. Worked closely with construction contractor and developer and attended daily safety meetings to ensure all established environmental protocol was being implemented by all parties on the site. Environmental accomplishments for the project include a twenty-foot excavation depth, resulting in the removal of approximately 17 tons PCB-impacted soil and almost 20 tons of petroleum impacted soils – excavated to facilitate a six-story, 75-unit downtown Minneapolis apartment building, adjacent the University.

Related Experience

Phase I Environmental Site Assessments (ESAs)
Phase II LSIs
Site Remediations / Corrective action
Regulatory Oversight

Industry Experience

Soil, groundwater, soil vapor sample collection and data interpretation.
Environmental Compliance
Permitting (construction)
NPDES and Discharge Permits
SPCC Plans
Hazardous Waste Tank Assessments

Regional Location

Sacramento & Bay Area, California

Environmental Protection Agency (EPA) Superfund, Region IV / Florida Department of Transportation (FDOT) - Throughout the southeast United States; most notably Florida, Mr. Musson has completed oversight responsibilities on behalf of EPA to facilitate Superfund work – including design, implementation of remedy / corrective action, and post-remediation phases of project. Mr. Musson provided oversight and management of on-site contractors, and drillers, in connection with subsurface soil and groundwater investigation to support EPA Superfund. Strict reporting, and adherence to strict quality control programs and soil / groundwater sampling analysis plans, were day-to-day operations working on the Superfund Sites.

Education

BS, Chemistry, University of California Davis, 2016

Project Experience

Due Diligence Environmental Site Assessments

- Working with developers, investors, and lending institutions, Mr. Serrato has assisted in completing more than 1,000 Phase I environmental site assessments for property transactions as part of the due diligence process required by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. Property types assessed include commercial, industrial, multi-family residential, self-storage facilities, gas stations/automotive service, dry cleaners and hotels.

Property Condition Assessments (PCA) - Working with senior PCA project managers, Mr. Serrato reviews the condition of building structures and mechanical systems to assist with the completion of PCA projects. Property types assessed include commercial, industrial, multi-family residential, and assisted living. He has additionally performed numerous PCA inspections.

Field Technician – Working under the guidance and direction of a senior environmental engineer, Mr. Serrato has performed numerous Phase II data collection investigations throughout California. He is proficient in the Unified Soil Classification System (USCS) and has completed numerous subsurface investigations requiring the collection of soil, groundwater, soil vapor, and air samples. He is proficient in the selection of appropriate analytical test methods required to accurately assess chemicals of concern specific to the identified due diligence risks. He has cultivated numerous vendor and subcontractor relationship necessary to quickly meet client's tight timelines.

Industry Tenure

ENV: 2015

Related Experience

Phase I Environmental Site Assessments (ESAs)

Property Condition Assessments (PCAs)

Phase II ESAs

Industry Experience

Soil, groundwater, soil vapor sampling and analysis

Environmental permit preparation

Financial institutions

Local and regional municipalities

Commercial

Residential

Retail/Wholesale

Certifications

OSHA 40-Hour HAZWOPER

8-Hour Refresher

AHERA Building Inspector

Special Skills & Training

Fluent in Spanish

Regional Location

Los Angeles, California