NOW ENVIRONMENTAL SERVICES, INC.
Environmental Consulting & Compliance

May 7, 2018

Executive Summary

NOW Project No. N18-0156

Tahni Madden
Franciscan Health
1149 Market Street
Tacoma, Washington 98402

RE: Indoor Air Quality Concern
Confirmation Screening Assessment
4550 Fauntleroy Way SW, Suite 100 - Seattle

Dear Ms. Madden,

Updated testing at the subject site, which two sets of testing occurred May 3, 2018 are discussed below:

Discussion

1. Evacuated canisters were utilized in two locations (same locations as the screening that was conducted on April 26, 2018). The canisters were submitted to a laboratory for subsequent analysis via Mass Spectroscopy. The analytical method (USEPA Method TO-15) included analysis of a broad spectrum of volatile organic vapor analytes. Some chemicals were detected in the parts per billion (ppbv) and micrograms per cubic meter of air ($\mu g/m^3$) and included gasoline that was reported at 6,430 parts per billion and **26,300 $\mu g/m^3$**. During our observations the sample was collected in locations with no ventilation and with doors closed. The potential of these and other chemicals escaping into the work stations and common can be considered. Because of the levels reported, this information can be used as a warning that potential exposures may occur and can include increase of leaks from the UST (if existing) and increase of volatilization. The Washington State Department of Ecology provides a generic indoor air cleanup level and soil gas screening levels for the for total petroleum hydrocarbons (TPH) indoor air cleanup of **140 $\mu g/m^3$.** Please note that without soil gas screening is usually involved in the process and was not conducted at this time. Because of the levels reported, the information can be used as a warning that potential exposures may occur and can include increase of leaks from the UST (if existing) and increase of volatilization.

2. Passive Badges (used to represent work locations) were collected in 4 locations (3 work stations and one patient area). Laboratory results indicates no volatile organics were reported above their perspective limits of detection. However, this does not rule out potential future exposures based on work operations, door openings, increased volatilization during warmer weather, etc. (see

vapor intrusion discussion above). More information and recommendations will be provided in the full report.

Additional Information will be provided in a full report which you should receive tomorrow. Currently I am having the laboratory re-analyze the passive monitors for gasoline as part of quality assurance, which is a standard process for finalized reporting.

Recommendations

Considerations should be given to:

1. Soil gas testing in the areas of the underground storage belonging to ARCO.
2. Review updated Leaking Underground Storage Tank (LUST) list to see if any changes or work is planned in the near future.
3. Examine current ventilation system to determine if changes can be made to circumvent current vapor intrusion.

Again, a full report should be completed by May 8, 2018.

Professionally Yours

Donna McNeal, Industrial Hygienist
President

2 Enclosures

- Vapor Intrusion Laboratory Results
- Passive Monitoring Badge Results

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Seattle, WA 98103
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Orion Environmental Services
Nelson Miles
34004 9th Ave S
Federal Way, WA 98003

RE: 4550 Fauntleroy Health Clinic
Work Order Number: 1805051

May 04, 2018

Attention Nelson Miles:

Fremont Analytical, Inc. received 2 sample(s) on 5/4/2018 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

Fremont Analytical

Date: *05/04/2018*

CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic
Work Order: 1805051

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1805051-001	Exam Room #3	05/03/2018 11:19 AM	05/04/2018 8:00 AM
1805051-002	Storage Room	05/03/2018 11:20 AM	05/04/2018 8:00 AM

CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Note: Gasoline reported in ug/m3 should be considered an estimate. The estimated molecular weight of gasoline used in the equation = 100

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Exam Room #3
Lab ID: 1805051-001A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.400	<2.18	0.400	2.18		EPA-TO-15	05/04/2018	BT
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06	I	EPA-TO-15	05/04/2018	BT
CFC-113	<0.400	<3.07	0.400	3.07	I	EPA-TO-15	05/04/2018	BT
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73	I	EPA-TO-15	05/04/2018	BT
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	05/04/2018	BT
1,1-Dichloroethene (DCE)	<0.400	<1.59	0.400	1.59		EPA-TO-15	05/04/2018	BT
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23	I	EPA-TO-15	05/04/2018	BT
1,2,4-Trimethylbenzene	0.876	4.31	0.300	1.47	I	EPA-TO-15	05/04/2018	BT
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54	I	EPA-TO-15	05/04/2018	BT
1,2-Dichlorobenzene	<0.400	<2.40	0.400	2.40	I	EPA-TO-15	05/04/2018	BT
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	05/04/2018	BT
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31	I	EPA-TO-15	05/04/2018	BT
1,3,5-Trimethylbenzene	2.24	11.0	0.300	1.47	I	EPA-TO-15	05/04/2018	BT
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	05/04/2018	BT
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80	I	EPA-TO-15	05/04/2018	BT
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80	I	EPA-TO-15	05/04/2018	BT
1,4-Dioxane	<0.400	<1.44	0.400	1.44	I	EPA-TO-15	05/04/2018	BT
(MEK) 2-Butanone	1.97	5.80	1.00	2.95	*	EPA-TO-15	05/04/2018	BT
2-Hexanone	<1.00	<4.10	1.00	4.10	I	EPA-TO-15	05/04/2018	BT
Isopropyl Alcohol	97.9	241	10.0	24.6	*	EPA-TO-15	05/04/2018	BT
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10	I	EPA-TO-15	05/04/2018	BT
Acetone	8.57	20.4	1.00	2.38		EPA-TO-15	05/04/2018	BT
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	05/04/2018	BT
Benzene	0.282	0.902	0.0895	0.286		EPA-TO-15	05/04/2018	BT
Benzyl chloride	<0.500	<2.59	0.500	2.59	I	EPA-TO-15	05/04/2018	BT
Dichlorobromomethane	<0.300	<2.01	0.300	2.01	I	EPA-TO-15	05/04/2018	BT
Bromoform	<0.200	<2.07	0.200	2.07	I	EPA-TO-15	05/04/2018	BT
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	05/04/2018	BT
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	05/04/2018	BT
Carbon tetrachloride	0.113	0.712	0.0657	0.413		EPA-TO-15	05/04/2018	BT

Fremont Analytical

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Exam Room #3
Lab ID: 1805051-001A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Chlorobenzene	<0.200	<0.921	0.200	0.921	I	EPA-TO-15	05/04/2018	BT
Dibromochloromethane	<0.500	<4.26	0.500	4.26	I	EPA-TO-15	05/04/2018	BT
Chloroethane	<0.400	<1.06	0.400	1.06		EPA-TO-15	05/04/2018	BT
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	05/04/2018	BT
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	05/04/2018	BT
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	05/04/2018	BT
cis-1,3-dichloropropene	<0.400	<1.82	0.400	1.82	I	EPA-TO-15	05/04/2018	BT
Cyclohexane	120	412	4.00	13.8	I	EPA-TO-15	05/04/2018	BT
Dichlorodifluoromethane (CFC-12)	0.655	3.24	0.400	1.98		EPA-TO-15	05/04/2018	BT
Dichlorotetrafluoroethane (CFC-114)	<0.400	<2.80	0.400	2.80		EPA-TO-15	05/04/2018	BT
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	05/04/2018	BT
Ethylbenzene	0.977	4.24	0.400	1.74	*I	EPA-TO-15	05/04/2018	BT
Gasoline Range Organics	6,430	26,300	10.0	40.9	*	EPA-TO-15	05/04/2018	BT
Heptane	143	574	4.00	16.1	I	EPA-TO-15	05/04/2018	BT
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7	I	EPA-TO-15	05/04/2018	BT
m,p-Xylene	3.47	15.1	0.800	3.47	I	EPA-TO-15	05/04/2018	BT
Methyl methacrylate	<0.400	<1.64	0.400	1.64	I	EPA-TO-15	05/04/2018	BT
Methylene chloride	<2.00	<6.95	2.00	6.95		EPA-TO-15	05/04/2018	BT
Naphthalene	<0.100	<0.524	0.100	0.524	I	EPA-TO-15	05/04/2018	BT
n-Hexane	63.2	223	4.00	14.1		EPA-TO-15	05/04/2018	BT
o-Xylene	1.12	4.86	0.400	1.74	I	EPA-TO-15	05/04/2018	BT
4-Ethyltoluene	1.19	5.85	0.400	1.97	I	EPA-TO-15	05/04/2018	BT
Propylene	<0.400	<0.688	0.400	0.688		EPA-TO-15	05/04/2018	BT
Styrene	<0.400	<1.70	0.400	1.70	I	EPA-TO-15	05/04/2018	BT
Methyl tert-butyl ether (MTBE)	<0.400	<1.44	0.400	1.44		EPA-TO-15	05/04/2018	BT
Tetrachloroethene (PCE)	<0.200	<1.36	0.200	1.36	I	EPA-TO-15	05/04/2018	BT
Tetrahydrofuran	<0.400	<1.18	0.400	1.18		EPA-TO-15	05/04/2018	BT
Toluene	2.47	9.32	0.400	1.51	*I	EPA-TO-15	05/04/2018	BT
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	05/04/2018	BT
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27	I	EPA-TO-15	05/04/2018	BT

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Exam Room #3
Lab ID: 1805051-001A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichloroethene (TCE)	<0.0649	<0.349	0.0649	0.349	I	EPA-TO-15	05/04/2018	BT
Trichlorofluoromethane (CFC-11)	<0.400	<2.25	0.400	2.25		EPA-TO-15	05/04/2018	BT
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	05/04/2018	BT
Vinyl chloride	<0.107	<0.274	0.107	0.274		EPA-TO-15	05/04/2018	BT
Surr: 4-Bromofluorobenzene	185 %Rec	--	70-130	--	S	EPA-TO-15	05/04/2018	BT

NOTES:
I - Internal standards were outside of established acceptance criteria. Re-analysis yielded the same result indicating a possible matrix effect.
* - Flagged value is not within established control limits.
S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Storage Room
Lab ID: 1805051-002A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.400	<2.18	0.400	2.18		EPA-TO-15	05/04/2018	BT
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06	I	EPA-TO-15	05/04/2018	BT
CFC-113	<0.400	<3.07	0.400	3.07	I	EPA-TO-15	05/04/2018	BT
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73	I	EPA-TO-15	05/04/2018	BT
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	05/04/2018	BT
1,1-Dichloroethene (DCE)	<0.400	<1.59	0.400	1.59		EPA-TO-15	05/04/2018	BT
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23	I	EPA-TO-15	05/04/2018	BT
1,2,4-Trimethylbenzene	1.36	6.67	0.300	1.47	I	EPA-TO-15	05/04/2018	BT
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54	I	EPA-TO-15	05/04/2018	BT
1,2-Dichlorobenzene	<0.400	<2.40	0.400	2.40	I	EPA-TO-15	05/04/2018	BT
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	05/04/2018	BT
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31	I	EPA-TO-15	05/04/2018	BT
1,3,5-Trimethylbenzene	2.25	11.0	0.300	1.47	I	EPA-TO-15	05/04/2018	BT
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	05/04/2018	BT
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80	I	EPA-TO-15	05/04/2018	BT
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80	I	EPA-TO-15	05/04/2018	BT
1,4-Dioxane	<0.400	<1.44	0.400	1.44	I	EPA-TO-15	05/04/2018	BT
(MEK) 2-Butanone	2.69	7.94	1.00	2.95	*	EPA-TO-15	05/04/2018	BT
2-Hexanone	<1.00	<4.10	1.00	4.10	I	EPA-TO-15	05/04/2018	BT
Isopropyl Alcohol	137	336	10.0	24.6	*	EPA-TO-15	05/04/2018	BT
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10	I	EPA-TO-15	05/04/2018	BT
Acetone	12.4	29.5	1.00	2.38		EPA-TO-15	05/04/2018	BT
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	05/04/2018	BT
Benzene	0.305	0.974	0.0895	0.286		EPA-TO-15	05/04/2018	BT
Benzyl chloride	<0.500	<2.59	0.500	2.59	I	EPA-TO-15	05/04/2018	BT
Dichlorobromomethane	<0.300	<2.01	0.300	2.01	I	EPA-TO-15	05/04/2018	BT
Bromoform	<0.200	<2.07	0.200	2.07	I	EPA-TO-15	05/04/2018	BT
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	05/04/2018	BT
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	05/04/2018	BT
Carbon tetrachloride	0.0909	0.572	0.0657	0.413		EPA-TO-15	05/04/2018	BT

Fremont Analytical

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Storage Room
Lab ID: 1805051-002A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Chlorobenzene	<0.200	<0.921	0.200	0.921	I	EPA-TO-15	05/04/2018	BT
Dibromochloromethane	<0.500	<4.26	0.500	4.26	I	EPA-TO-15	05/04/2018	BT
Chloroethane	<0.400	<1.06	0.400	1.06		EPA-TO-15	05/04/2018	BT
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	05/04/2018	BT
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	05/04/2018	BT
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	05/04/2018	BT
cis-1,3-dichloropropene	<0.400	<1.82	0.400	1.82	I	EPA-TO-15	05/04/2018	BT
Cyclohexane	305	1,050	4.00	13.8	I	EPA-TO-15	05/04/2018	BT
Dichlorodifluoromethane (CFC-12)	0.553	2.73	0.400	1.98		EPA-TO-15	05/04/2018	BT
Dichlorotetrafluoroethane (CFC-114)	<0.400	<2.80	0.400	2.80		EPA-TO-15	05/04/2018	BT
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	05/04/2018	BT
Ethylbenzene	2.07	8.98	0.400	1.74	*I	EPA-TO-15	05/04/2018	BT
Gasoline Range Organics	7,920	32,400	10.0	40.9	*	EPA-TO-15	05/04/2018	BT
Heptane	234	938	4.00	16.1	I	EPA-TO-15	05/04/2018	BT
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7	I	EPA-TO-15	05/04/2018	BT
m,p-Xylene	8.42	36.6	0.800	3.47	I	EPA-TO-15	05/04/2018	BT
Methyl methacrylate	<0.400	<1.64	0.400	1.64	I	EPA-TO-15	05/04/2018	BT
Methylene chloride	<2.00	<6.95	2.00	6.95		EPA-TO-15	05/04/2018	BT
Naphthalene	<0.100	<0.524	0.100	0.524	I	EPA-TO-15	05/04/2018	BT
n-Hexane	132	466	4.00	14.1		EPA-TO-15	05/04/2018	BT
o-Xylene	3.80	16.5	0.400	1.74	I	EPA-TO-15	05/04/2018	BT
4-Ethyltoluene	1.29	6.36	0.400	1.97	I	EPA-TO-15	05/04/2018	BT
Propylene	<0.400	<0.688	0.400	0.688		EPA-TO-15	05/04/2018	BT
Styrene	<0.400	<1.70	0.400	1.70	I	EPA-TO-15	05/04/2018	BT
Methyl tert-butyl ether (MTBE)	<0.400	<1.44	0.400	1.44		EPA-TO-15	05/04/2018	BT
Tetrachloroethene (PCE)	<0.200	<1.36	0.200	1.36	I	EPA-TO-15	05/04/2018	BT
Tetrahydrofuran	<0.400	<1.18	0.400	1.18		EPA-TO-15	05/04/2018	BT
Toluene	5.25	19.8	0.400	1.51	*I	EPA-TO-15	05/04/2018	BT
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	05/04/2018	BT
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27	I	EPA-TO-15	05/04/2018	BT

Client: Orion Environmental Services
WorkOrder: 1805051
Project: 4550 Fauntleroy Health Clinic

Client Sample ID: Storage Room
Lab ID: 1805051-002A
Sample Type: Summa Canister

Date Sampled: 5/3/2018
Date Received 5/4/2018

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichloroethene (TCE)	<0.0649	<0.349	0.0649	0.349	I	EPA-TO-15	05/04/2018	BT
Trichlorofluoromethane (CFC-11)	<0.400	<2.25	0.400	2.25		EPA-TO-15	05/04/2018	BT
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	05/04/2018	BT
Vinyl chloride	<0.107	<0.274	0.107	0.274		EPA-TO-15	05/04/2018	BT
Surr: 4-Bromofluorobenzene	182 %Rec	--	70-130	--	S	EPA-TO-15	05/04/2018	BT

NOTES:
I - Internal standards were outside of established acceptance criteria. Re-analysis yielded the same result indicating a possible matrix effect.
* - Flagged value is not within established control limits.
S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **VOC LCS-R43289** SampType: **LCS** Units: **ppbv** Prep Date: **5/3/2018** RunNo: **43289**
Client ID: **LCSW** Batch ID: **R43289** Analysis Date: **5/3/2018** SeqNo: **836723**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	96.9	1.00	72.00	0	135	70	130				S
Propylene	3.14	0.400	2.000	0	157	70	130				S
Dichlorodifluoromethane (CFC-12)	2.24	0.400	2.000	0	112	70	130				
Chloromethane	2.02	0.500	2.000	0	101	70	130				
Dichlorotetrafluoroethane (CFC-114)	2.10	0.400	2.000	0	105	70	130				
Vinyl chloride	1.69	0.107	2.000	0	84.5	70	130				
1,3-Butadiene	1.59	0.500	2.000	0	79.4	70	130				
Bromomethane	1.90	0.500	2.000	0	95.0	70	130				
Trichlorofluoromethane (CFC-11)	2.28	0.400	2.000	0	114	70	130				
Chloroethane	2.12	0.400	2.000	0	106	70	130				
Acrolein	2.27	0.500	2.000	0	113	70	130				
1,1-Dichloroethene (DCE)	2.26	0.400	2.000	0	113	70	130				
Acetone	2.41	1.00	2.000	0	121	70	130				
Isopropyl Alcohol	3.18	1.00	2.000	0	159	70	130				S
Methylene chloride	2.55	2.00	2.000	0	127	70	130				
Carbon disulfide	2.27	1.50	2.000	0	114	70	130				
trans-1,2-Dichloroethene	2.25	0.200	2.000	0	113	70	130				
Methyl tert-butyl ether (MTBE)	2.43	0.400	2.000	0	122	70	130				
n-Hexane	2.14	0.400	2.000	0	107	70	130				
1,1-Dichloroethane	2.23	0.200	2.000	0	111	70	130				
Vinyl acetate	2.32	1.00	2.000	0	116	70	130				
cis-1,2-Dichloroethene	2.38	0.200	2.000	0	119	70	130				
(MEK) 2-Butanone	3.49	1.00	2.000	0	175	70	130				S
Ethyl acetate	2.24	1.00	2.000	0	112	70	130				
Chloroform	2.24	0.200	2.000	0	112	70	130				
Tetrahydrofuran	2.21	0.400	2.000	0	111	70	130				
1,1,1-Trichloroethane	2.19	0.400	2.000	0	110	70	130				
Carbon tetrachloride	2.27	0.0657	2.000	0	114	70	130				
1,2-Dichloroethane	2.21	0.200	2.000	0	110	70	130				
Benzene	2.29	0.0895	2.000	0	115	70	130				
Cyclohexane	2.27	0.400	2.000	0	113	70	130				

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **VOC LCS-R43289** SampType: **LCS** Units: **ppbv** Prep Date: **5/3/2018** RunNo: **43289**
Client ID: **LCSW** Batch ID: **R43289** Analysis Date: **5/3/2018** SeqNo: **836723**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	2.32	0.0649	2.000	0	116	70	130				
1,2-Dichloropropane	2.33	0.500	2.000	0	117	70	130				
Methyl methacrylate	2.26	0.400	2.000	0	113	70	130				
Dichlorobromomethane	2.26	0.300	2.000	0	113	70	130				
1,4-Dioxane	2.27	0.400	2.000	0	114	70	130				
cis-1,3-dichloropropene	2.34	0.400	2.000	0	117	70	130				
Toluene	3.09	0.400	2.000	0	154	70	130				S
trans-1,3-dichloropropene	2.36	0.500	2.000	0	118	70	130				
1,1,2-Trichloroethane (TCA)	2.21	0.500	2.000	0	110	70	130				
Tetrachloroethene (PCE)	2.42	0.200	2.000	0	121	70	130				
Dibromochloromethane	2.38	0.500	2.000	0	119	70	130				
1,2-Dibromoethane (EDB)	2.34	0.200	2.000	0	117	70	130				
Chlorobenzene	2.46	0.200	2.000	0	123	70	130				
Ethylbenzene	2.63	0.400	2.000	0	131	70	130				S
m,p-Xylene	5.20	0.800	4.000	0	130	70	130				
o-Xylene	2.56	0.400	2.000	0	128	70	130				
Styrene	2.56	0.400	2.000	0	128	70	130				
Bromoform	2.50	0.200	2.000	0	125	70	130				
1,1,2,2-Tetrachloroethane	2.36	0.300	2.000	0	118	70	130				
1,3,5-Trimethylbenzene	2.52	0.300	2.000	0	126	70	130				
1,2,4-Trimethylbenzene	2.32	0.300	2.000	0	116	70	130				
Benzyl chloride	1.64	0.500	2.000	0	82.0	70	130				
4-Ethyltoluene	2.56	0.400	2.000	0	128	70	130				
1,3-Dichlorobenzene	2.36	0.300	2.000	0	118	70	130				
1,4-Dichlorobenzene	2.30	0.300	2.000	0	115	70	130				
1,2-Dichlorobenzene	2.33	0.400	2.000	0	116	70	130				
1,2,4-Trichlorobenzene	1.86	0.300	2.000	0	93.1	70	130				
Hexachlorobutadiene	2.20	1.00	2.000	0	110	70	130				
Naphthalene	1.76	0.100	2.000	0	87.8	70	130				
2-Hexanone	2.25	1.00	2.000	0	113	70	130				
4-Methyl-2-pentanone (MIBK)	2.39	1.00	2.000	0	120	70	130				

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **VOC LCS-R43289** SampType: **LCS** Units: **ppbv** Prep Date: **5/3/2018** RunNo: **43289**
Client ID: **LCSW** Batch ID: **R43289** Analysis Date: **5/3/2018** SeqNo: **836723**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
CFC-113	2.36	0.400	2.000	0	118	70	130				
Heptane	2.50	0.400	2.000	0	125	70	130				
Surr: 4-Bromofluorobenzene	3.93		4.000		98.3	70	130				

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

Sample ID **MBLK-R43289** SampType: **MBLK** Units: **ppbv** Prep Date: **5/4/2018** RunNo: **43289**
Client ID: **MBLKW** Batch ID: **R43289** Analysis Date: **5/4/2018** SeqNo: **836724**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	1.00									
Propylene	ND	0.400									
Dichlorodifluoromethane (CFC-12)	ND	0.400									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.400									
Vinyl chloride	ND	0.107									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.400									
Chloroethane	ND	0.400									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.400									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	2.00									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.400									
n-Hexane	ND	0.400									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MBLK-R43289**	SampType: **MBLK**	Units: **ppbv**	Prep Date: **5/4/2018**	RunNo: **43289**	
Client ID: **MBLKW**	Batch ID: **R43289**		Analysis Date: **5/4/2018**	SeqNo: **836724**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	1.00									
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.400									
1,1,1-Trichloroethane	ND	0.400									
Carbon tetrachloride	ND	0.0657									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.0895									
Cyclohexane	ND	0.400									
Trichloroethene (TCE)	ND	0.0649									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.400									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	0.400									
cis-1,3-dichloropropene	ND	0.400									
Toluene	ND	0.400									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.200									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	0.800									
o-Xylene	ND	0.400									
Styrene	ND	0.400									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MBLK-R43289** SampType: **MBLK** Units: **ppbv** Prep Date: **5/4/2018** RunNo: **43289**
Client ID: **MBLKW** Batch ID: **R43289** Analysis Date: **5/4/2018** SeqNo: **836724**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.400									
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.400									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.100									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.400									
Heptane	ND	0.400									
Surr: 4-Bromofluorobenzene	3.78		4.000		94.6	70	130				

Sample ID **1805051-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **5/4/2018** RunNo: **43289**
Client ID: **Exam Room #3** Batch ID: **R43289** Analysis Date: **5/4/2018** SeqNo: **836726**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	2,690	1.00						2,655	1.18	30	E*
Propylene	ND	0.400						0		30	
Dichlorodifluoromethane (CFC-12)	0.573	0.400						0.6550	13.4	30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.400						0		30	
Vinyl chloride	ND	0.107						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.400						0		30	
Chloroethane	ND	0.400						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.400						0		30	

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1805051-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **5/4/2018** RunNo: **43289**
Client ID: **Exam Room #3** Batch ID: **R43289** Analysis Date: **5/4/2018** SeqNo: **836726**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	7.40	1.00						8.571	14.7	30	
Isopropyl Alcohol	90.3	1.00						102.4	12.6	30	E*
Methylene chloride	ND	2.00						0		30	
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.400						0		30	
n-Hexane	63.9	0.400						74.64	15.5	30	E
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	0.200						0		30	
(MEK) 2-Butanone	1.76	1.00						1.966	10.9	30	*
Ethyl acetate	ND	1.00						0		30	
Chloroform	ND	0.200						0		30	
Tetrahydrofuran	ND	0.400						0		30	
1,1,1-Trichloroethane	ND	0.400						0		30	
Carbon tetrachloride	0.0982	0.0657						0.1131	14.1	30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	0.250	0.0895						0.2825	12.3	30	
Cyclohexane	84.2	0.400						122.0	36.7	30	REI
Trichloroethene (TCE)	ND	0.0649						0		30	I
1,2-Dichloropropane	ND	0.500						0		30	I
Methyl methacrylate	ND	0.400						0		30	I
Dichlorobromomethane	ND	0.300						0		30	I
1,4-Dioxane	ND	0.400						0		30	I
cis-1,3-dichloropropene	ND	0.400						0		30	I
Toluene	1.83	0.400						2.474	29.8	30	*I
trans-1,3-dichloropropene	ND	0.500						0		30	I
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	I
Tetrachloroethene (PCE)	ND	0.200						0		30	I
Dibromochloromethane	ND	0.500						0		30	I
1,2-Dibromoethane (EDB)	ND	0.200						0		30	I

Work Order: 1805051
CLIENT: Orion Environmental Services
Project: 4550 Fauntleroy Health Clinic

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1805051-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **5/4/2018** RunNo: **43289**
Client ID: **Exam Room #3** Batch ID: **R43289** Analysis Date: **5/4/2018** SeqNo: **836726**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.200						0		30	I
Ethylbenzene	1.06	0.400						0.9767	8.01	30	*I
m,p-Xylene	3.62	0.800						3.472	4.10	30	I
o-Xylene	1.17	0.400						1.118	4.75	30	I
Styrene	ND	0.400						0		30	I
Bromoform	ND	0.200						0		30	I
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	I
1,3,5-Trimethylbenzene	2.24	0.300						2.239	0.0433	30	I
1,2,4-Trimethylbenzene	0.887	0.300						0.8758	1.27	30	I
Benzyl chloride	ND	0.500						0		30	I
4-Ethyltoluene	1.22	0.400						1.191	2.18	30	I
1,3-Dichlorobenzene	ND	0.300						0		30	I
1,4-Dichlorobenzene	ND	0.300						0		30	I
1,2-Dichlorobenzene	ND	0.400						0		30	I
1,2,4-Trichlorobenzene	ND	0.300						0		30	I
Hexachlorobutadiene	ND	1.00						0		30	I
Naphthalene	ND	0.100						0		30	I
2-Hexanone	ND	1.00						0		30	I
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	I
CFC-113	ND	0.400						0		30	I
Heptane	114	0.400						112.4	1.35	30	EI
Surr: 4-Bromofluorobenzene	21.7		4.000		544	70	130		0		S

NOTES:
S - Outlying surrogate recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
R - High RPD observed.
I - Internal standards were outside of established acceptance criteria. Re-analysis yielded the same result indicating a possible matrix effect.
E - Estimated value. The amount exceeds the linear working range of the instrument.
* - Flagged value is not within established control limits.

Sample Log-In Check List

Client Name:	**ORIONES**	Work Order Number:	**1805051**
Logged by:	**Clare Griggs**	Date Received:	**5/4/2018 8:00:00 AM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Samples		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C *	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☐	No ☑	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☑	No ☐	NA ☐

Person Notified:	Nelson Miles	Date	5/4/2018
By Whom:	Clare Griggs	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Project name? Confirming analysis.		
Client Instructions:	Add Gasoline. See revised COC.		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/4/18 Page: 1 of: 1

Laboratory Project No (Internal): 1805051

Special Remarks:

Project Name:

Project No:

Client: Orion Environmental

Address: 34004 9th Ave S

Location:

City, State, Zip: Federal Way, WA

Collected by: Barry Brown

Telephone: 253) 952-6717

Reports to (PM): Nelson Miles

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

Fax:

Email (PM): nmiles@oronet.net

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Fill Time / Flow Rate	Internal: Initial Evacuation Pressure (mtorr)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis: VOCs TO15 SCAN	VOCs TO15 SCAN LL	VOCs TO15 SIM	Siloxanes TO15	Sulfur TO15	Sulfur Ext TO15	APH TO15	Helium	Major Gases 3C		Comments	Internal: Final Pressure ("Hg)
1	EXAM ROOM #3	13968	05-03-18 11:19AM		6L	8hr	10 mtorr		6/7												7 "Hg
		FR8-09	05-03-18 2:19 pm				4/25/2018														
2	STORAGE ROOM	17648	05-03-18 11:20AM		6L	8hr	10 mtorr		8/2												8 "Hg
		FR8-25	05-03-18 2:20 pm				4/25/2018														
3																					
4																					
5																					

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x Michael McKay	5/4/18 08:00	x	~~05/04/18~~ 05/04/2018
Relinquished	Date/Time	Received	Date/Time
x		x	

Turn-Around Time:

- ☐ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- Same Day ASAP (specify)

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 5/4/18 Page: 1 of: 1

Project Name: ~~1550~~ Fauntleroy Health Clinic

Laboratory Project No (Internal): 1805051

Special Remarks: edit per N.M. 5/4/18 cg

Client: **Orion Environmental**

Address: 34004 9th Ave S

City, State, Zip: Federal Way, WA

Telephone: 253) 952-6717

Fax:

Project No:

Location:

Collected by: Barry Brown

Reports to (PM): Nelson Miles

Email (PM): nmiles@onones.net

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☐ OK to Dispose ☐ Hold (fees may apply)

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Fill Time / Flow Rate	Internal: Initial Evacuation Pressure (mtorr)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis: VOCs TO15 SCAN	VOCs TO15 SCAN LL	VOCs TO15 SIM	Siloxanes TO15	Sulfur TO15	Sulfur Ext. TO15	APH TO15	Helium	Major Gases 3C		Comments	Internal: Final Pressure ("Hg)
1	Exam Room #3	13968	05-03-18 11:19AM		6L	8hr	10 mtorr		6/7	✓										+Gasoline	7 "Hg
		FR8-09	05-03-18 719 PM				4/25/2018														
2	Storage Room	17648	05-03-18 11:20AM		6L	8hr	10 mtorr		8/2	✓										↓	9 "Hg
		FR8-25	05-03-18 720 PM				4/25/2018														
3																					
4																					
5																					

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x Michael McKay	5/4/18 08:00	x	~~04~~05/04/2018
Relinquished	Date/Time	Received	Date/Time
x		x	

Turn-Around Time:

- ☐ Standard
- ☐ 3 Day
- ☐ 2 Day
- ☐ Next Day
- ☐ Same Day ASAP (specify)

SGS GALSON

Mr. Nelson Miles
OES, Inc.
34004 9th Avenue South A5
Federal Way, WA 98003

May 07, 2018

DOH ELAP #11626
AIHA-LAP #100324

Account# 28931

Login# L442118

Dear Mr. Miles:

Enclosed are the analytical results for the samples received by our laboratory on May 07, 2018. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Please note the ID discrepancy recorded on the attached chain of custody. The ID from the actual sample has been used for this report.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. When possible, non-IOM samples will be retained for 14 days following the date of this report (unless an extension is specifically requested). IOM samples are retained for 7 days.

Current Scopes of Accreditation can be viewed at www.sgsgalson.com in the accreditations section of the "About" page.

Please contact Nicole Tormey at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab
Laboratory Director

Enclosure(s)

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20777 #1 **Lab ID : L442118-1** **Time : 470 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Methyl Chloroform	5	<5	<5	<1	<0.3
1,1,2-Trichloroethane	5	<5	<5	<1	<0.3
1,1-Dichloroethane	5	<5	<6	<1	<0.3
1,2-Dichloroethane	5	<5	<5	<1	<0.3
Acetone	50	<50	<50	<9	<4
Benzene	2	<2	<2	<0.4	<0.1
Chlorobenzene	5	<5	<5	<1	<0.3
Chloroform	5	<5	<5	<1	<0.3
Cumene	5	<5	<5	<1	<0.3
Cyclohexane	5	<5	<5	<1	<0.4
Cyclohexanone	5	<5	<5	<1	<0.3
Cyclohexene	5	<5	<5	<1	<0.3
Ethyl Alcohol	5	<5	<6	<0.9	<0.5
Ethylbenzene	5	<5	<5	<1	<0.3
Isopropyl Alcohol	5	<5	<5	<1	<0.4

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20777 #1 **Lab ID : L442118-1** **Time : 470 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
m-Dichlorobenzene	5	<5	<5	<1	<0.2
Methyl Ethyl Ketone	5	<5	<5	<1	<0.3
Methyl Isobutyl Ketone	5	<5	<5	<1	<0.3
Methyl n-Propyl Ketone	5	<5	<5	<1	<0.3
Methylene Chloride	5	<5	<5	<1	<0.3
n-Butyl Acetate	5	<5	<5	<1	<0.3
n-Hexane	5	<5	<5	<1	<0.3
n-Propyl Acetate	5	<5	<5	<1	<0.3
o-Dichlorobenzene	5	<5	<5	<1	<0.2
p-Dichlorobenzene	5	<5	<5	<1	<0.2
n-Pentane	5	<5	<5	<1	<0.3
Tetrachloroethylene	5	<5	<5	<2	<0.2
Tetrahydrofuran	5	<5	<5	<1	<0.3
Toluene	5	<5	<5	<1	<0.3
Trichloroethylene	5	<5	<5	<1	<0.3

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20777 #1 **Lab ID : L442118-1** **Time : 470 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Xylene	15.	<15	<15	<4.4	<1.0

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20609 #2 **Lab ID : L442118-2** **Time : 473 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Methyl Chloroform	5	<5	<5	<1	<0.3
1,1,2-Trichloroethane	5	<5	<5	<1	<0.3
1,1-Dichloroethane	5	<5	<6	<1	<0.3
1,2-Dichloroethane	5	<5	<5	<1	<0.3
Acetone	50	<50	<50	<8	<4
Benzene	2	<2	<2	<0.4	<0.1
Chlorobenzene	5	<5	<5	<1	<0.3
Chloroform	5	<5	<5	<1	<0.3
Cumene	5	<5	<5	<1	<0.3
Cyclohexane	5	<5	<5	<1	<0.4
Cyclohexanone	5	<5	<5	<1	<0.3
Cyclohexene	5	<5	<5	<1	<0.3
Ethyl Alcohol	5	<5	<6	<0.9	<0.5
Ethylbenzene	5	<5	<5	<1	<0.3
Isopropyl Alcohol	5	<5	<5	<1	<0.4

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20609 #2 **Lab ID : L442118-2** **Time : 473 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
m-Dichlorobenzene	5	<5	<5	<1	<0.2
Methyl Ethyl Ketone	5	<5	<5	<1	<0.3
Methyl Isobutyl Ketone	5	<5	<5	<1	<0.3
Methyl n-Propyl Ketone	5	<5	<5	<1	<0.3
Methylene Chloride	5	<5	<5	<1	<0.3
n-Butyl Acetate	5	<5	<5	<1	<0.3
n-Hexane	5	<5	<5	<1	<0.3
n-Propyl Acetate	5	<5	<5	<1	<0.3
o-Dichlorobenzene	5	<5	<5	<1	<0.2
p-Dichlorobenzene	5	<5	<5	<1	<0.2
n-Pentane	5	<5	<5	<1	<0.3
Tetrachloroethylene	5	<5	<5	<2	<0.2
Tetrahydrofuran	5	<5	<5	<1	<0.3
Toluene	5	<5	<5	<1	<0.3
Trichloroethylene	5	<5	<5	<1	<0.2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20609 #2 **Lab ID : L442118-2** **Time : 473 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Xylene	15.	<15	<15	<4.3	<1.0

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20620 #3 **Lab ID : L442118-3** **Time : 475 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Methyl Chloroform	5	<5	<5	<1	<0.3
1,1,2-Trichloroethane	5	<5	<5	<1	<0.3
1,1-Dichloroethane	5	<5	<6	<1	<0.3
1,2-Dichloroethane	5	<5	<5	<1	<0.3
Acetone	50	<50	<50	<8	<4
Benzene	2	<2	<2	<0.4	<0.1
Chlorobenzene	5	<5	<5	<1	<0.3
Chloroform	5	<5	<5	<1	<0.3
Cumene	5	<5	<5	<1	<0.3
Cyclohexane	5	<5	<5	<1	<0.4
Cyclohexanone	5	<5	<5	<1	<0.3
Cyclohexene	5	<5	<5	<1	<0.3
Ethyl Alcohol	5	9.5	11	1.7	0.89
Ethylbenzene	5	<5	<5	<1	<0.3
Isopropyl Alcohol	5	<5	<5	<1	<0.4

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20620 #3 **Lab ID : L442118-3** **Time : 475 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
m-Dichlorobenzene	5	<5	<5	<1	<0.2
Methyl Ethyl Ketone	5	<5	<5	<1	<0.3
Methyl Isobutyl Ketone	5	<5	<5	<1	<0.3
Methyl n-Propyl Ketone	5	<5	<5	<1	<0.3
Methylene Chloride	5	<5	<5	<1	<0.3
n-Butyl Acetate	5	<5	<5	<1	<0.3
n-Hexane	5	<5	<5	<1	<0.3
n-Propyl Acetate	5	<5	<5	<1	<0.3
o-Dichlorobenzene	5	<5	<5	<1	<0.2
p-Dichlorobenzene	5	<5	<5	<1	<0.2
n-Pentane	5	<5	<5	<1	<0.3
Tetrachloroethylene	5	<5	<5	<2	<0.2
Tetrahydrofuran	5	<5	<5	<1	<0.3
Toluene	5	<5	<5	<1	<0.3
Trichloroethylene	5	<5	<5	<1	<0.2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20620 #3 **Lab ID : L442118-3** **Time : 475 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Xylene	15.	<15	<15	<4.3	<1.0

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20310 #4 **Lab ID : L442118-4** **Time : 480 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Methyl Chloroform	5	<5	<5	<1	<0.3
1,1,2-Trichloroethane	5	<5	<5	<1	<0.3
1,1-Dichloroethane	5	<5	<6	<1	<0.3
1,2-Dichloroethane	5	<5	<5	<1	<0.3
Acetone	50	<50	<50	<8	<4
Benzene	2	<2	<2	<0.4	<0.1
Chlorobenzene	5	<5	<5	<1	<0.3
Chloroform	5	<5	<5	<1	<0.3
Cumene	5	<5	<5	<1	<0.3
Cyclohexane	5	<5	<5	<1	<0.4
Cyclohexanone	5	<5	<5	<1	<0.3
Cyclohexene	5	<5	<5	<1	<0.3
Ethyl Alcohol	5	<5	<6	<0.9	<0.5
Ethylbenzene	5	<5	<5	<1	<0.3
Isopropyl Alcohol	5	<5	<5	<0.9	<0.4

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20310 #4 **Lab ID : L442118-4** **Time : 480 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
m-Dichlorobenzene	5	<5	<5	<1	<0.2
Methyl Ethyl Ketone	5	<5	<5	<1	<0.3
Methyl Isobutyl Ketone	5	<5	<5	<1	<0.3
Methyl n-Propyl Ketone	5	<5	<5	<1	<0.3
Methylene Chloride	5	<5	<5	<1	<0.3
n-Butyl Acetate	5	<5	<5	<1	<0.3
n-Hexane	5	<5	<5	<1	<0.3
n-Propyl Acetate	5	<5	<5	<1	<0.3
o-Dichlorobenzene	5	<5	<5	<1	<0.2
p-Dichlorobenzene	5	<5	<5	<1	<0.2
n-Pentane	5	<5	<5	<1	<0.3
Tetrachloroethylene	5	<5	<5	<2	<0.2
Tetrahydrofuran	5	<5	<5	<1	<0.3
Toluene	5	<5	<5	<1	<0.3
Trichloroethylene	5	<5	<5	<1	<0.2

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY ANALYSIS REPORT

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Client : OES, Inc.
Site : NS

Date Sampled : 03-MAY-18
Date Received : 07-MAY-18

Account No.: 28931
Login No. : L442118

Date Analyzed : 07-MAY-18
Report ID : 1063424

Client ID : M20310 #4 **Lab ID : L442118-4** **Time : 480 minutes**
Date Sampled : 05/03/18 **Date Analyzed : 05/07/18**

Parameter	LOQ ug	Raw ug	Total ug	Conc mg/m3	ppm
Xylene	15.	<15	<15	<4.3	<0.99

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Collection Media: Assay 566-A
Date : 07-MAY-18

Submitted by: BDK
NYS DOH # : 11626

Approved by: NKP
Supervisor: KAG QC by: NKP

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million LOQ-Limit of Quantitation

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LABORATORY FOOTNOTE REPORT

Client Name : OES, Inc.
Site :

Date Sampled : 03-MAY-18
Date Received: 07-MAY-18
Date Analyzed: 07-MAY-18

Account No.: 28931
Login No. : L442118

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L442118 (Report ID: 1063424):
1,1,2-Trichloroethane - Total ug corrected for a desorption efficiency of 96%.
1,1-Dichloroethane - Total ug corrected for a desorption efficiency of 89%.
1,2-Dichloroethane - Total ug corrected for a desorption efficiency of 99%.
Acetone - Total ug corrected for a desorption efficiency of 97%.
Benzene - Total ug corrected for a desorption efficiency of 100%.
Chlorobenzene - Total ug corrected for a desorption efficiency of 99%.
Chloroform - Total ug corrected for a desorption efficiency of 94%.
Cumene - Total ug corrected for a desorption efficiency of 98%.
Cyclohexane - Total ug corrected for a desorption efficiency of 94%.
Cyclohexanone - Total ug corrected for a desorption efficiency of 96%.
Cyclohexene - Total ug corrected for a desorption efficiency of 95%.
Ethyl Alcohol - Total ug corrected for a desorption efficiency of 88%.
Ethylbenzene - Total ug corrected for a desorption efficiency of 98%.
Isopropyl Alcohol - Total ug corrected for a desorption efficiency of 93%.
Methyl Chloroform - Total ug corrected for a desorption efficiency of 95%.
Methyl Ethyl Ketone - Total ug corrected for a desorption efficiency of 96%.

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms	ppm -Parts per Million		
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified	ND -Not Detected	NA -Not Applicable	

GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client Name : OES, Inc.
Site :

Date Sampled : 03-MAY-18
Date Received: 07-MAY-18
Date Analyzed: 07-MAY-18

Account No.: 28931
Login No. : L442118

L442118 (Report ID: 1063424):
Methyl Isobutyl Ketone - Total ug corrected for a desorption efficiency of 97%.
Methyl n-Propyl Ketone - Total ug corrected for a desorption efficiency of 97%.
Methylene Chloride - Total ug corrected for a desorption efficiency of 100%.
Tetrachloroethylene - Total ug corrected for a desorption efficiency of 95%.
Tetrahydrofuran - Total ug corrected for a desorption efficiency of 97%.
Toluene - Total ug corrected for a desorption efficiency of 98%.
Trichloroethylene - Total ug corrected for a desorption efficiency of 92%.
Xylene - Total ug corrected for a desorption efficiency of 97%.
m-Dichlorobenzene - Total ug corrected for a desorption efficiency of 98%.
n-Butyl Acetate - Total ug corrected for a desorption efficiency of 97%.
n-Hexane - Total ug corrected for a desorption efficiency of 92%.
n-Pentane - Total ug corrected for a desorption efficiency of 99%.
n-Propyl Acetate - Total ug corrected for a desorption efficiency of 101%.
o-Dichlorobenzene - Total ug corrected for a desorption efficiency of 96%.
p-Dichlorobenzene - Total ug corrected for a desorption efficiency of 96%.
SOPs: GC-SOP-16(19), GC-SOP-12(14), GC-SOP-9(19)
Elevated Acetone limit of quantitation (LOQ) reported due to a temporary contamination/manufacturing issue with the return media pouches.

L442118 (Report ID: 1063424):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2-Trichloroethane	N/A	N/A
1,1-Dichloroethane	N/A	N/A
1,2-Dichloroethane	N/A	N/A
Acetone	+/-7.4%	94.8%
Benzene	N/A	N/A
Chlorobenzene	N/A	N/A
Chloroform	N/A	N/A

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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Client Name : OES, Inc.
Site :

Date Sampled : 03-MAY-18
Date Received: 07-MAY-18
Date Analyzed: 07-MAY-18

Account No.: 28931
Login No. : L442118

Cumene	N/A	N/A
Cyclohexane	N/A	N/A
Cyclohexanone	N/A	N/A
Cyclohexene	N/A	N/A
Ethyl Alcohol	N/A	N/A
Ethylbenzene	N/A	N/A
Isopropyl Alcohol	N/A	N/A
Methyl Chloroform	N/A	N/A
Methyl Ethyl Ketone	N/A	N/A
Methyl Isobutyl Ketone	N/A	N/A
Methyl n-Propyl Ketone	N/A	N/A
Methylene Chloride	N/A	N/A
Tetrachloroethylene	N/A	N/A
Tetrahydrofuran	N/A	N/A
Toluene	+/-3.9%	99.2%
Trichloroethylene	N/A	N/A
Xylene	+/-4.1%	98.8%
m-Dichlorobenzene	N/A	N/A
n-Butyl Acetate	N/A	N/A
n-Hexane	+/-5.6%	104%
n-Pentane	N/A	N/A
n-Propyl Acetate	N/A	N/A
o-Dichlorobenzene	N/A	N/A
p-Dichlorobenzene	N/A	N/A

Parameter	Method	PEL
1,1,2-Trichloroethane	mod. NIOSH 1003; GC/FID BADGE	10 ppm (TWA)
1,1-Dichloroethane	mod. NIOSH 1003; GC/FID BADGE	100 ppm (TWA)
1,2-Dichloroethane	mod. NIOSH 1003; GC/FID BADGE	50 ppm (TWA)
Acetone	mod. NIOSH 1300; GC/FID BADGE	1000 ppm (TWA)
Benzene	mod. NIOSH 1501; GC/FID BADGE	1 ppm (TWA)
Chlorobenzene	mod. NIOSH 1003; GC/FID BADGE	75 ppm (TWA)
Chloroform	mod. NIOSH 1003; GC/FID BADGE	50 ppm CEIL

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

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East Syracuse, NY 13057
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LABORATORY FOOTNOTE REPORT

Client Name : OES, Inc.
Site :

Date Sampled : 03-MAY-18
Date Received: 07-MAY-18
Date Analyzed: 07-MAY-18

Account No.: 28931
Login No. : L442118

L442118 (Report ID: 1063424):

Parameter	Method	PEL
Cumene	mod. NIOSH 1501; GC/FID BADGE	50 ppm (TWA)
Cyclohexane	mod. NIOSH 1500; GC/FID BADGE	300 ppm (TWA)
Cyclohexanone	mod. NIOSH 1300; GC/FID BADGE	50 ppm (TWA)
Cyclohexene	mod. NIOSH 1500; GC/FID BADGE	300 ppm (TWA)
Ethyl Alcohol	mod. NIOSH 1400; GC/FID BADGE	1000 ppm (TWA)
Ethylbenzene	mod. NIOSH 1501; GC/FID BADGE	100 ppm (TWA)
Isopropyl Alcohol	mod. NIOSH 1400; GC/FID BADGE	400 ppm (TWA)
Methyl Chloroform	mod. NIOSH 1003; GC/FID BADGE	350 ppm (TWA)
Methyl Ethyl Ketone	mod. NIOSH 1300; GC/FID BADGE	200 ppm (TWA)
Methyl Isobutyl Ketone	mod. NIOSH 1300; GC/FID BADGE	100 ppm (TWA)
Methyl n-Propyl Ketone	mod. NIOSH 1300; GC/FID BADGE	200 ppm (TWA)
Methylene Chloride	mod. NIOSH 1005; GC/FID BADGE	25 ppm (TWA)
Tetrachloroethylene	mod. NIOSH 1003; GC/FID BADGE	100 ppm (TWA)
Tetrahydrofuran	mod. NIOSH 1609; GC/FID BADGE	200 ppm (TWA)
Toluene	mod. NIOSH 1501/OSHA 111; GC/FID BADGE	200 ppm (TWA)
Trichloroethylene	mod. NIOSH 1022; GC/FID BADGE	100 ppm (TWA)
Xylene	mod. NIOSH 1501; GC/FID BADGE	100 ppm (TWA)
m-Dichlorobenzene	mod. NIOSH 1003; GC/FID BADGE	NA
n-Butyl Acetate	mod. NIOSH 1450; GC/FID BADGE	150 ppm (TWA)
n-Hexane	mod. NIOSH 1500; GC/FID BADGE	500 ppm (TWA)
n-Pentane	mod. NIOSH 1500; GC/FID BADGE	1000 ppm (TWA)
n-Propyl Acetate	mod. NIOSH 1450; GC/FID BADGE	200 ppm (TWA)
o-Dichlorobenzene	mod. NIOSH 1003; GC/FID BADGE	50 ppm CEIL
p-Dichlorobenzene	mod. NIOSH 1003; GC/FID BADGE	75 ppm (TWA)

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

1Z11YF590199315283
Date:05/07/18
Shipper:UPS
Initials:JLS
Prep:UNKNOWN

L442118

R 154

GALSON

CHAIN OF CUSTODY

Turn Around Time (TAT):	(surcharge)
☐ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☒ Same Day	200%

☐ Samples submitted using the FreePumpLoan™ Program

☑ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 28931

Original Prep No.: PCA477000

CS Rep: JWHITE

Online COC No.: 152542

Report To :	Mr. Nelson Miles
Company Name :	OES, Inc.
Address 1 :	34004 9th Avenue South A5
Address 2 :	
City, State Zip :	Federal Way, WA 98003
Phone No. :	253 - 952 - 6717
Cell No. :	253 - 632 - 5233
Email reports to :	nmiles@oriones.net
Email EDD to :	nmiles@oriones.net
Comments :	

Invoice To :	Ms. Rachel McPeak
Company Name :	OES, Inc.
Address 1 :	34004 9th Avenue South A5
Address 2 :	
City, State Zip :	Federal Way, WA 98003
Phone No. :	253 - 952 - 6717
Email Address :	nmiles@oriones.net, rmcpeak@oriones.net
Comments :	
P.O. No. :	
Payment info. :	☐ I will call SGS Galson to provide credit card info ☐ Card on File (enter the last five digits on the line below)

Comments : * Badge ID's listed twice. JLS 5/7/18

State Sampled :

Please indicate which OEL(s) this data will be used for :
☐ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ : _____ (Specify Limit(s)) ☐ Other : _____ (Specify Other)

Site Name :	Project :	Sampled By :	List description of industry or Process/interferences present in sampling area :

	Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
*	M20777	5/3/18	Assay N566-A		470 min	Volatile Organics Profile (31)	mod. Multiple NIOSH Methods; GC/FID	
	M20609	5/3/18 per badge @ JW 5/7/18	Assay N566-A		473 min	Volatile Organics Profile (31)	mod. Multiple NIOSH Methods; GC/FID	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature	Date	Time
Relinquished By :	N. Miles	MS Mult	5/4/18	1039hrs	Received By :	Jessica Sobaski	5/7/18	0947
Relinquished By :					Received By :			

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 152542
Prep No. : PCA477000
Account No. : 28931
Draft : 5/2/2018 8:25:46 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx

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CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
M20777	5/3/18	Assay N566-A		475 min	Volatile Organics Profile (31)	mod. Multiple NIOSH Methods; GC/FID	
M20310	5/3/18	Assay N566-A		480 min	Volatile Organics Profile (31)	mod. Multiple NIOSH Methods; GC/FID	
	per badges CW 5/7/18						

* Badge 3 written on pouch w/ ID M20620 JRS 5/7/18

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	N. Mistry	5/4/18	5/4/18	1039hrs	Received By :	Jessica Sukosd		5/7/18	0947
Relinquished By :					Received By :				

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 152542
Prep No. : PCA477000
Account No. : 28931
Draft : 5/2/2018 8:25:46 PM

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