January 30, 2019

Nor Properties LLC 2603 43rd Street Southeast Puyallup, Washington 98374

Attention: Mr. Ron Klein

Re: Supplemental Vapor Intrusion Investigation

2301 Lincoln Avenue, Tacoma, Washington

Mr. Klein:

Pursuant to your recent request, EcoCon, Inc. (ECI) completed a Supplemental Vapor Intrusion Investigation (SVI) for the property located at 2301 Lincoln Avenue, Tacoma, Washington (Subject Site). This SVI Investigation was conducted to evaluate the potential for adverse impacts to indoor air quality due to previously identified Volatile Organic Compounds (VOCs), specifically, Perchloroethylene (PCE) and Trichloroethylene (TCE) in the soil and groundwater underlying the southern corner of the Subject Site.

This report details site activities and observations, sampling activities, chemical analysis, and provides conclusions and recommendations.

Attached to this report are the following:

- Attachment A: Project Figures,
- Attachment B: Sample Analytical Results and Regulatory Cleanup & Screening Guidance.

Scope of Work

The scope of work for this Supplemental Vapor Intrusion Investigation included:

- Development of a site work plan;
- Preparation of a site-specific Health and Safety Plan (HASP)
- Collection and laboratory analysis of Indoor, Exterior and Crawl Space air samples; and
- Preparation of a detailed report.

Site Location & Description

The Subject Site is located in the City of Tacoma, Pierce County, Washington. The Property is located on the northwest side of Lincoln Avenue approximately 800 feet northeast of the Thorne Road and Lincoln Avenue intersection. The Subject Site consists of one parcel (Pierce County Parcel 6965000470) which is occupied by three warehouse buildings and a wood framed office building. The entire Property is asphalt paved.

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ECI Project Number: 0686-01-02

2301 Lincoln Avenue, Tacoma, Washington

Limited Legal Description:

Parcel No.: 6965000470

Address: 2301 Lincoln Avenue, Tacoma, WA

• Abbreviated legal description: Section 34, Township 21, Range 03 Quarter Section 44

Port of Tac. Industrial Dev. Dist. 1-L 11 & 12 B 14

The Subject Property is currently occupied by Sunbelt Rentals, which maintains and rents out construction equipment. Fueling, lubrication and cleaning of that equipment takes place on site. An above-ground storage tank (AST) containing diesel fuel, with a capacity of approximately 500-gallons, is situated inside a concrete secondary containment structure within the western-most building on site. The wash area is located adjacent to the southeastern end of that building, and its associated drains are connected to an oil/water separator unit that drains to the municipal sanitary sewer system.

Physical Setting

Physical setting information for the Subject Site obtained from ECI's site reconnaissance and other sources are summarized below. Geological and hydrogeological conditions can often affect, to some extent, the environmental integrity of a property. Underlying soil and bedrock formations may facilitate or impede the migration of chemical contaminants in groundwater and may even be the source of contaminants such as radon and metals. This section of the report summarizes geologic factors that may affect the Subject Property with regard to environmental concerns.

Topography

The United States Geological Survey (USGS) Tacoma South, WA Quadrangle 7.5-Minute series topographic map was reviewed for this SVI. This map was published by the USGS in 1980. According to the contour lines on the topographic map, the Property elevation is at approximately 10 feet above mean sea level (MSL). The topography of the Property is relatively flat.

Geology & Soils

The Puget Sound Lowland is a broad trough located between the Cascade Range and Olympic Mountains. Continental ice sheets up to 3,000 feet thick covered portions of the Puget Lowland several times during the Quaternary period. Retreating ice carved new landscapes (kames, kettles and hummocks), recessional channels, drained or formed lakes, and deposited Vashon glacial drift including till and outwash (WA DNR, 2002). According to the Geologic Map of Tacoma (Booth, Troost & Wisher, 2004); the vicinity of the Subject Property resides over artificial fill, (Tacoma South DMU, 2006). The artificial fill is characterized as variously consisting of gravel, sand, silt, concrete, garbage, slag and other materials; variable grain size with compaction ranging from loose to dense, depending on degree of compaction required during placement and regrading. These units' range in thickness from three to twenty-five feet.

The United States Department of Agriculture published the Pierce County Soil Survey in 1955. This report describes the soils of the Property as "made land." Made land is composed of artificial fill. The Port of Tacoma area was formed as marshy alluvial outwash land. When the area was developed in the 1950's,

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2301 Lincoln Avenue, Tacoma, Washington

coarse-grained dredged soil material from the harbor, municipal refuse and other materials from undocumented sources were used to fill in the marshy alluvial outwash areas.

Hydrogeologic Environment

The primary aquifers are typically overlain by relatively impermeable glacial till deposits that are present at or near the ground surface over much of the Puget Sound region. Within these till deposits are localized areas or lenses of water-bearing sands and gravels that may result in a shallow, perched water table. Lateral and vertical migration of shallow groundwater may be impeded by the relatively impermeable nature of the till and by the sometimes-discontinuous nature of the perched water-bearing sands and gravel. Perched and discontinuous zones of shallow groundwater may be seasonally or perennially present, depending on site-specific conditions. The primary water supply for the Tacoma vicinity is obtained from the Green River. Tacoma Water also owns 24 water wells that contribute 15 percent of the annual water supply. The general regional flow of groundwater is toward the west to the Puget Sound. Shallow groundwater flow in the vicinity of the Property appears to be to the northeast towards the Blair Waterway.

According to the Preliminary Environmental Assessment for the Port Business Park, prepared by Hart Crowser in April 1993, there are two water-bearing zones beneath the Subject Property. The two zones are separated by an aquitard. The shallow or upper zone is unconfined and is approximately two to five feet thick. The water thickness of the lower zone varies with the tidally influenced water table. The aquitard zone is approximately eight to eleven feet thick and this zone acts to inhibit vertical migration of ground water. Beneath the aquitard zone is the lower alluvial water-bearing zone, which is confined and is over thirty feet thick.

Flood Plain Information

A review of the Flood Insurance Rate Maps (FIRM), published by the Federal Emergency Management Agency (FEMA), was performed. According to Panel Number 5301480025B, dated December 1, 1983, the Property is located in Flood Zone C. Flood Zone C regions consist of those areas of minimal flooding.

Previous Investigations

PBS - Phase II Environmental Site Assessment - 2018

PBS of Seattle, Washington prepared two reports detailing work completed at 2301 Lincoln Avenue, Tacoma, Washington (Subject Property). The reports are titled Phase II Environmental Site Assessment and Supplemental Phase II Environmental Site Assessment dated February 22, 2018 and May 16, 2018 respectively. These reports detail a series of borings placed throughout the Subject Property at suspect locations as part of a Due Diligence investigation conducted by others. The locations where contaminants were reported exceeding applicable cleanup levels were located near the southwest corner of the Property along the western property boundary and extending to the south off the property boundary into the right-of-way of Lincoln Avenue.

According to the reports, chlorinated volatile organic compounds (cVOCs) were identified in soil samples PB8, PB9 (onsite) and PB13 (offsite), and groundwater sample B2, PB8 (onsite) and PB13 (offsite)

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2301 Lincoln Avenue, Tacoma, Washington

underlying and along the southern property boundary of the Subject Property and adjacent property to the south. Trichloroethylene (TCE) was reported in PBS samples PB8-5' (0.151 µg/L), PB8-6' (0.146 µg/L) and PB13-7' (0.143 µg/L) exceeding the 0.03 µg/L Method A Cleanup Level (CUL). Arsenic was also reported in PBS Sample PB4-1' (24.5 µg/L) exceeding the 20 µg/L Method A CUL. Groundwater sample B2 was reported containing Vinyl Chloride (VC) and TCE at 2.24 μg/L and 9.38 μg/L respectively, exceeding the 0.2 μg/L and 5 μg/L Method A CUL. Groundwater in sample PB8 was reported containing TCE at 6.91 μ g/L exceeding the CUL and cis-1,2-Dichloroethlene at 162 μ g/L, exceeding the 35 μ g/L Method C CUL.

Following the soil and groundwater sampling, PBS completed a Soil Gas sample collection event. PBS sample SB-2 was collected at 4.5 feet below ground surface and reportedly contained TCE at 5,100 micrograms per cubic meter (µg/m³), exceeding the Method C Sub-Slab Soil Gas Screening level of 67 $\mu g/m^3$.

ECI – Vapor Intrusion Investigation - 2018

Five Vapor Intrusion samples were collected during this investigation. One interior, two crawl space, one exterior (ambient), and one sub-slab. The sample locations were chosen based on proximity to the PBS April 2018 Soil-Gas sample location.

On August 14, 2018, ECI environmental professionals collected three vapor samples. The first was collected from the interior northwest corner of the building within an office (Interior). The second sample was collected near the exterior northwest corner of the building just upwind from the structure (Exterior-Ambient). Wind direction at the time of sampling was to the southwest. The third sample was collected from the crawl space near the northwest corner of the building (Crawl Space 1). The crawl space sample was collected through foundation vents. These locations were selected due to their close proximity to PBS soil gas sample SB2, located approximately 10 feet north of the northwest corner of the building.

The analytical results of the three air samples collected on August 14, 2018, were reported either below their respective laboratory method detection limits or below their respective MTCA Method C Cleanup Levels.

Contaminants of Concern (COCs)

Contaminants of concern (COCs) for soil vapor have been identified based on the previous PBS (April 2018) soil gas sampling event and includes select cVOCs Tetrachloroethylene (PCE) and Trichloroethylene (TCE). Because the Subject Property is listed by the Pierce County Auditor as Industrial, the use of MTCA Method C Cleanup Levels have been derived from the Model Toxics Control Act's (MTCA) MTCA Method C Indoor Air Cleanup and Sub-Slab Soil Gas Screening Levels (Ecology Vapor Intrusion: 2015 changes to toxicity values and screening levels).

2301 Lincoln Avenue, Tacoma, Washington

Table 1: Contaminates of Concern & Applicable Cleanup Levels – Air

Primary Contaminant of Concern	Analytical Method	Screening Levels (CUL) Air - μg/m³
Tetrachloroethylene (PCE)	TO-15	1330
Trichloroethylene (TCE)	TO-15	67

μg/m³ = microgram per cubic meter

Vapor Intrusion Sampling Activities

Four Vapor Intrusion samples were collected during this investigation. Two interior, one crawl space and one exterior (ambient). The sample locations were chosen based on proximity to the PBS April 2018 Soil-Gas sample location.

On January 14, 2019, ECI environmental professionals collected four vapor samples. The first and second was collected from the interior northwest corner of the building within the northwestern office (Interior Office) and breakroom (Interior Breakroom). The third sample was collected near the exterior northwest corner of the building just upwind from the structure (Exterior-Upwind). Wind direction at the time of samples was to the southeast. The third sample was collected from the crawl space near the northwest corner of the building (Exterior Under Structure). The crawl space sample was collected through foundation vents. These locations were selected due to their close proximity to PBS soil gas sample SB2, located approximately 10 feet north of the northwest corner of the building.

Indoor & Exterior Air Sample Collection

The indoor, exterior and crawl space air samples were collected utilizing 6-liter Summa canisters supplied and certified clean by the laboratory, Friedman & Bruya, Inc. The canisters were fitted with flow regulators (chokes) calibrated to a flow rate to allow sample collection over an eight-hour period. The canisters were placed, and the regulators opened per laboratory provided guidance at the start of the day and monitored for eight hours. Following the 8-hour sampling event, each canister was closed, inspected and logged.

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Table 2: Collection Parameters for the Indoor and Ambient Air Samples

Sample ID	Indoor (Break Room)	Indoor (Office)	Crawl Space	Exterior
Collection Date	1/14/2019	1/14/2019	1/14/2019	1/14/2019
Start Time	08:24	08:24	08:24	08:24
Finish Time	16:25	16:25	16:26	16:25
Ambient Temperature	70°	70°	31°	31°
Sample Canister Volume	6 Liters	6 Liters	6 Liters	6 Liters
Pre-Sample Canister Vacuum	30"Hg	29"Hg	28"Hg	28"Hg
Post-Sample Canister Vacuum	6"Hg	6"Hg	7"Hg	6"Hg
Canisters Serial Number	#20556	#21453	#21493	#20550
Flow Regulator Number	#05354	#07854	#05350	#07848

Analytical Results

Four air samples were submitted to Friedman & Bruya, Inc., Seattle, Washington for analysis of BTEX and VOCs by EPA Method TO-15.

Four Vapor Intrusion Air samples were collected, two indoor air (Interior Office and Interior Breakroom) and two exterior air (Crawl Space Vented and Exterior Ambient).

Table 3 below provides a summary of the sample analytical results. The laboratory report is included with this report as Attachment B.

Table 3: Summary of Indoor Ambient Air Analytical Results

Sample ID	Trichloroethylene (TCE)	Tetrachloroethylene (PCE)		
Sample 10	Method EPA TO-15 (Sample Results in μg/m³)			
Indoor (Breakroom)	<0.27	<6.8		
Indoor (Office)	<0.27	<6.8		
Crawl Space (Vented)	0.56	<6.8		
Exterior (Ambient)	<0.27	<6.8		
MTCA Method C-Indoor Air-Non-Cancer	2	40		
MTCA Method C-Indoor Air-Cancer	6.3	96.15		

BOLD: Sample reported exceeding laboratory method reporting limits (MRL) 2015 Guidance, toxicity values, and screening levels-Department of Ecology

2301 Lincoln Avenue, Tacoma, Washington

Summary and Conclusions

At the request of the property owner, ECI competed a Supplemental Vapor Intrusion Investigation for the Property located at 2301 Lincoln Avenue, Tacoma, WA. Four SVI samples were collected, two indoor air

and two exterior air. Of the four SVI samples, two were from the working space within the office building,

one on the building exterior up wind and one from below the building within the crawl space (vented).

The analytical results for the indoor office, indoor breakroom and exterior ambient samples were reported

below the laboratory method reporting limits (MRL) or non-detect for both TCE and PCE. Sample Crawlspace was reported containing TCE at $0.56 \,\mu\text{g/m}^3$, above the $0.27 \,\mu\text{g/m}^3$ MRL but below the most

conservative Method-C CUL of 2.0 µg/m³.

Based on these results and the results from previous investigations, ECI concludes the following:

Soil-gas beneath the asphalt tarmac is impacted due to the presence of select volatile organic

compounds, specifically TCE and PCE confirmed in soil and/or groundwater.

• The ventilated crawl space, while having elevated concentration of TCE, was reported below both

the non-cancer and cancer CUL for both of the air sampling events (Summer 2018, Winter 2019)

conducted by ECI.

Additional interior and crawl space indoor air sampling will be required on an ongoing basis to

monitor TCE concentrations.

These findings are representative of current site conditions, any modifications to the Subject Property such as underground utility work or ventilation alternations could potentially change indoor air quality

values. Continued monitoring of indoor air quality should be conducted to verify that concentrations

remain below the appropriate regulatory thresholds.

ECI appreciates the opportunity to provide environmental consulting services on this project. Should you

have any questions, please contact our office at (253) 238-9270.

Respectfully submitted,

Stephen M. Spencer

Principal

Direct: (253) 921-7059

ECI Project Number: 0686-01-02

2301 Lincoln Avenue, Tacoma, Washington

Qualifications of This Report

Although this Vapor Intrusion Investigation has been a reasonably thorough attempt to investigate the potential presence of contamination, there is always the possibility that additional sources of contamination have escaped detection due to the limitations of this Study, the inaccuracy of governmental records, and the presence of undetected and unreported environmental incidents.

Limitations

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. ECI includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with ECI if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or Site.

Use of this Report by Others

Our report was prepared for the exclusive use of Mr. Ron Klein (Client) and / or his designated parties. This report may be provided to regulatory agencies for review if requested or required with consent from the Client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

This report has been prepared for subsurface investigation/remediation activities at the Subject Property. ECI considered a number of unique, project-specific factors when establishing the scope of services for this project and report. No one except our Client should rely on this environmental report without first conferring with ECI. This report should not be applied for any purpose or project except the one originally contemplated.

Unless ECI specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important site changes were made.

If important changes are made after the date of this report, ECI should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

2301 Lincoln Avenue, Tacoma, Washington

Uncertainty May Remain after Completion of Site Investigation and Remedial Activities

The investigation and remediation activities completed in a portion of a property cannot wholly eliminate uncertainty regarding the potential for contamination in connection with the entire property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from the locations sampled. It is always possible that contamination exists in areas that were not explored, sampled, or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the Site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact ECI before applying this report to determine if it is still applicable.

Soil and Groundwater End Use

The cleanup levels referenced in this report are Site- and situation-specific and could change with time due to regulatory or Site changes. The cleanup levels may not be applicable for other sites or for other onsite uses of the affected media (soil and/or groundwater).

Note that hazardous substances may be present in some of the Site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. Because these cleanup levels can change, ECI should be contacted to evaluate the potential for associated environmental liabilities prior to the export of soil or groundwater from the Subject Site or reuse of the affected media on the Site. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the Subject Site to another location or its reuse on the Site in instances that we were not aware of or could not control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from the locations sampled at the Site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. ECI Inc. reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the Site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

List of Appendices

Appendix A: Project Figures

Figure 1: Subject Property Vicinity Map Figure 2: Subject Property Topographic Map Figure 3: SVI Sample Location Map

Appendix B: Project Analytical Results

Sample Analytical Results
Regulatory Cleanup & Screening Guidance

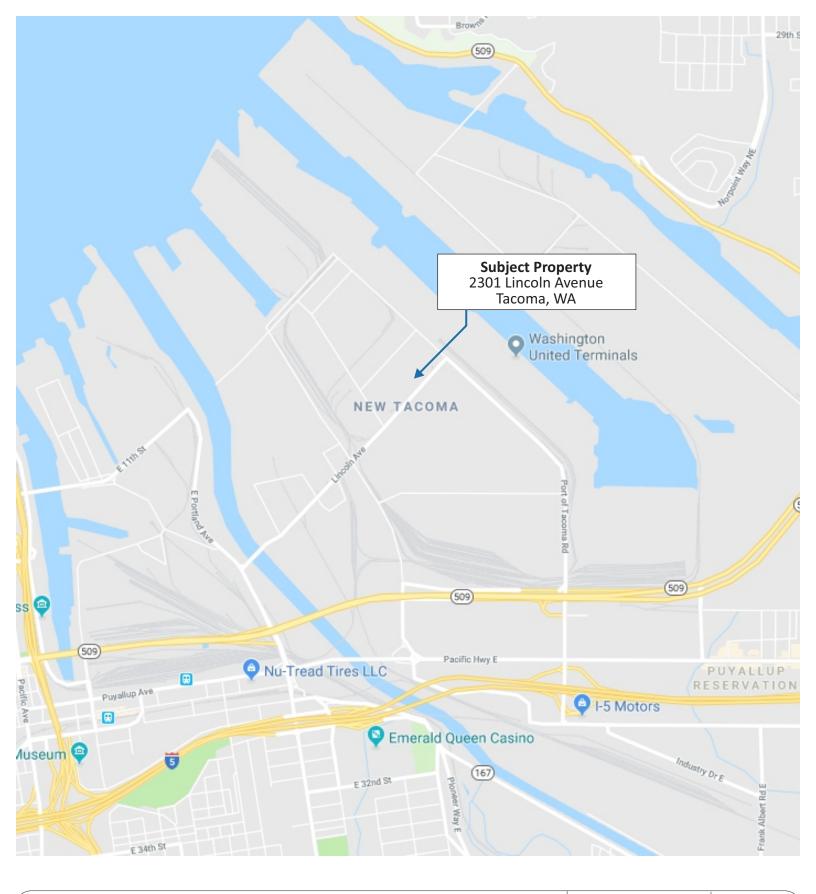


Appendix A

Appendix A: Project Figures

Figure 1: Subject Property Vicinity Map Figure 2: Subject Property Topographic Map

Figure 3: SVI Sample Location Map





Subject Property Vicinity Map

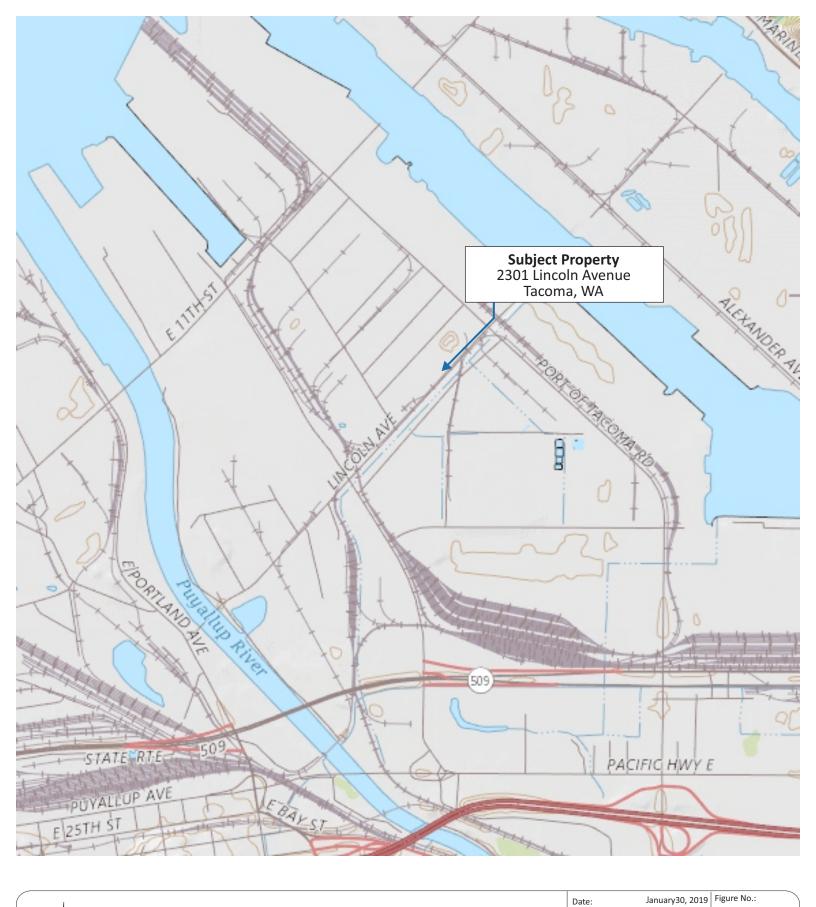
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0686-01-02 Sheet

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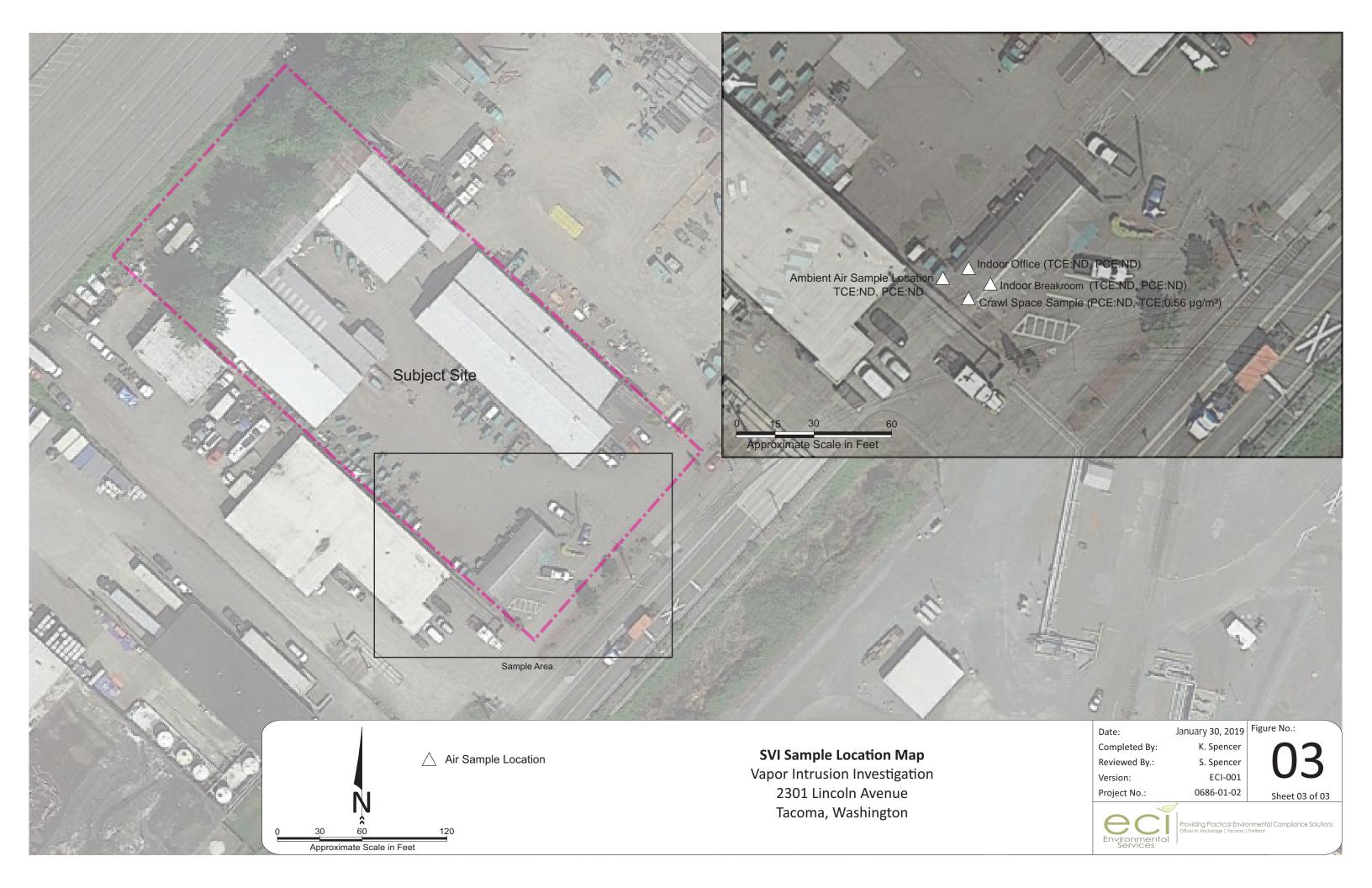
Subject Property Topographic Map

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Reviewed By.:
Version:
Project No.:

K. Spencer S. Spencer ECI-001 0686-01-02 02 Sheet 02 of 03



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Appendix B

Project Analytical Results

Sample Analytical Results Regulatory Cleanup & Screening Guidance



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 23, 2019

Kaden Reed, Project Manager EcoCon, Inc. P.O. Box 153 Fox Island, WA 98333

Dear Mr Reed:

Included are the results from the testing of material submitted on January 15, 2019 from the Sunbelt Rentals 0686-01-02, F&BI 901158 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Steve Spencer EMS0123R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 15, 2019 by Friedman & Bruya, Inc. from the EcoCon Sunbelt Rentals 0686-01-02 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>EcoCon</u>
901158 -01	Interior Break Room
901158 -02	Interior Office
901158 -03	Exterior Under Structure
901158 -04	Exterior Upwind

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: Interior Break Room Client: EcoCon

Date Received: 01/15/19 Project: Sunbelt Rentals 0686-01-02, F&BI 901158

Date Collected: Lab ID: 01/14/19 901158-01 Date Analyzed: 01/18/19 Data File: 011726.D Matrix: GCMS7 Air Instrument: Units: Operator: MS/bat ug/m3

% Lower Upper Surrogates: Recovery: Limit: Limit: 4-Bromofluorobenzene 107 70 130

Concentration

Compounds: ug/m3 ppbv

Trichloroethene <0.27 <0.05 Tetrachloroethene <6.8 <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: Interior Office Client: EcoCon

Date Received: 01/15/19 Project: Sunbelt Rentals 0686-01-02, F&BI 901158

Date Collected: Lab ID: 01/14/19 901158-02 Date Analyzed: 01/18/19 Data File: 011727.D Matrix: GCMS7 Air Instrument: Units: Operator: MS/bat ug/m3

% Lower Upper Surrogates: Recovery: Limit: Limit: 4-Bromofluorobenzene 98 70 130

Concentration

Compounds: ug/m3 ppbv

Trichloroethene <0.27 <0.05 Tetrachloroethene <0.8 <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: Exterior Under Structure Client: EcoCon

Date Received: 01/15/19 Project: Sunbelt Rentals 0686-01-02, F&BI 901158

Date Collected: 01/14/19 Lab ID: 901158-03 Date Analyzed: 01/18/19 Data File: 011728.D Matrix: GCMS7 Air Instrument: Units: Operator: MS/bat ug/m3

% Lower Upper Surrogates: Recovery: Limit: Limit: 4-Bromofluorobenzene 98 70 130

Concentration

Compounds: ug/m3 ppbv

Trichloroethene 0.56 0.10
Tetrachloroethene <6.8 <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: Exterior Upwind Client: EcoCon

Date Received: 01/15/19 Project: Sunbelt Rentals 0686-01-02, F&BI 901158

Date Collected: Lab ID: 01/14/19 901158-04 Date Analyzed: 01/18/19 Data File: 011729.D Matrix: GCMS7 Air Instrument: Units: Operator: MS/bat ug/m3

% Lower Upper Surrogates: Recovery: Limit: Limit: 4-Bromofluorobenzene 98 70 130

Concentration

Compounds: ug/m3 ppbv

Trichloroethene <0.27 <0.05 Tetrachloroethene <6.8 <1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: Method Blank Client: EcoCon

Date Received: Not Applicable Project: Sunbelt Rentals 0686-01-02, F&BI 901158

Lab ID: Date Collected: Not Applicable 09-0036 mb 01/17/19 Date Analyzed: Data File: 011708.D Matrix: GCMS7 Air Instrument: Operator: MS/bat Units: ug/m3

% Lower Upper Surrogates: Recovery: Limit: Limit: 4-Bromofluorobenzene 99 70 130

Concentration

Compounds: ug/m3 ppbv

Trichloroethene <0.27 <0.05 Tetrachloroethene <6.8 <1

ENVIRONMENTAL CHEMISTS

Date of Report: 01/23/19 Date Received: 01/15/19

Project: Sunbelt Rentals 0686-01-02, F&BI 901158

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

		Percent			
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Trichloroethene	ppbv	5	98	70-130	
Tetrachloroethene	ppbv	5	98	70-130	

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The analyte is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits due to sample matrix effects.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- \boldsymbol{L} The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- \mbox{pc} The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. Exterior inder Structure 03 21493 05350 Phone_ Exterior you're Address PO City, State, ZIP FOX Island Company_ Report To_ Interior Brak Room 01 Lateriar office Sample Name BOX 153 Email Relinquished by: Received to Received by: Relinquished Deal + Stephen Spenes SAMPLERS (signature) 20 02 Lab ID Killeed & ecoconius 120550 07848 2453 Canister ID 12052P 0232H SIGNATURE Contr. D2850 Flow 1/14/18 Sampled SAMPLE CHAIN OF CUSTODY Date XIndoor Air Sub Slab/Soil Gas PROJECT NAME REPORTING LEVEL Sunbell Kenfuls Initial Press. (Hg) 28 78 29 Field 12:8 4:24 h2:8 h2:8 Initial Time Field 727 □ Deep Soil Gas□ SVE/Grab Press. Field Final (Hg)D 9 4 Final S2: h 4:26 52:4 52:h Time Field ANALYSIS REQUESTED TO-15 Full Scan 0686-01-02 TO-15 BTEXN INVOICE TO イイス PO# COMPANY ME 01-15-Samples received at PCE+TCEonly De SS 1/16/19 Standard ☐ Archive Samples ☐ Dispose after 30 days EY □ Other Rush charges authorized by: Page# TURNAROUND TIME SAMPLE DISPOSAL 115/14 Notes DATE8 600 TIME

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