

**CHARACTERIZATION OF ON-SITE
CONTAMINATION**

Vacant Former Firestone Complete Auto Care
351 Rainier Avenue South
Renton, Washington 98057

TOULA PROPERTIES LLC

ENVIRONMENTAL ASSOCIATES, INC.

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April 12, 2019

JN-40139-2

Mr. Curt Kruse
Toula Properties LLC
3801 92nd Avenue Northeast
Bellevue, Washington 98004

Subject: **CHARACTERIZATION OF ON-SITE CONTAMINATION**
 Vacant Former Firestone Complete Auto Care
 351 Rainier Avenue South
 Renton, Washington 98057

Dear Mr. Kruse:

Environmental Associates, Inc. (EAI) has performed additional sampling and testing of subsurface soils and groundwater at selected localities on the subject property. The purpose of this work was to attempt to define the extent of chlorinated solvent and petroleum impacted soils and/or groundwater previously detected by EAI at the site in February 2021. This report, prepared in accordance with the terms of our proposal dated March 1, 2021, summarizes our approach to the project along with results and conclusions.

The contents of this report are confidential and are intended solely for your use and the use of your representatives. No other distribution or discussion of this report will take place without your prior approval in writing.




Toula Properties LLC
April 12, 2021

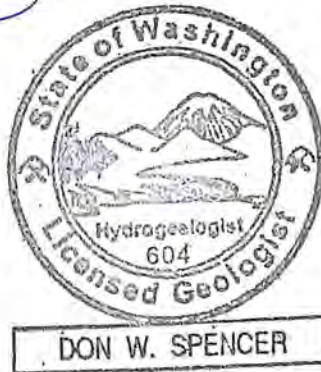
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We appreciate the opportunity to be of service on this assignment. If you have any questions or if we may be of additional service, please do not hesitate to contact us.

Respectfully submitted,
ENVIRONMENTAL ASSOCIATES, INC.


Don W. Spencer, M.Sc., P.G.
Principal

License: 604	(Washington)
License: 11464	(Oregon)
License: 876	(California)
License: 5195	(Illinois)
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REPA: 418290	



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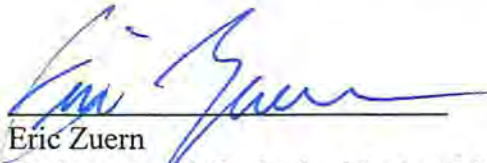
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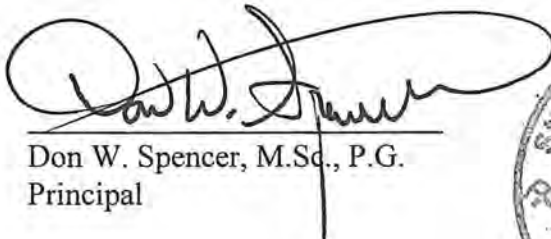
Prepared for:

Toula Properties LLC
3801 92nd Avenue Northeast
Bellevue, Washington 98004

Questions regarding this investigation, the conclusions reached and the recommendations given should be addressed to one of the following undersigned.



Eric Zuern
Environmental Geologist / Project Manager



Don W. Spencer, M.Sc., P.G.
Principal



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REPA: 418290	

Reference Job Number: JN 40139-2

April 12, 2021

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INTRODUCTION/SCOPE OF WORK

SITE/PROJECT DESCRIPTION

The subject property is a roughly rectangular - shaped parcel (tax parcel number 000720-0126) covering approximately 15,578 square feet of land or approximately 0.36 acres. Existing improvements consist principally of a single-story building of masonry design enclosing approximately 8,750 square feet of space which was reportedly constructed in 1960. Additional improvements include an asphalt paved parking lot and untended landscaping. The property was occupied by Firestone from construction in 1960 until roughly 2020. Firestone was the only occupant of the building, which is currently unoccupied. Firestone used the property for approximately 60 years for automotive service and repair. Firestone's operations included the use of multiple in-ground hydraulic hoists, an underground storage tank (reportedly in the 100 to 1000-gallon capacity range) that contained used/waste oil that was removed at an unknown time, and an above-ground waste oil storage tank (AST) that was removed from the western margin of the site. The approximate location of the site is shown on the Vicinity/Topographic Map, Plate 1, appended herewith.

Background

In December 2020, Environmental Associates, Inc. (EAI) completed a Phase I Environmental Site Assessment for the subject. That report identified the following environmental conditions associated with the site:

- Long-term on-site automotive service and repair by Firestone which utilized in-ground hoists.
- An underground waste oil storage tank (UST) had previously been utilized by Firestone on the property and reportedly removed at some time in the past. No documentation regarding subsurface environmental conditions at the time of UST removal was discovered in the readily available public record.

EAI recommended that if the client and/or other involved parties desired knowledge of current environmental conditions beneath the site, subsurface sampling and testing could be employed to assess whether impacts were present.

On February 25, 2021, EAI presented a report titled Limited Subsurface Sampling and Testing to Kidder Mathews relating to the subject site. That report documented the results of soil and groundwater sampling and testing at ten (10) locations (B1 through B10 on the attached Site Plan, Plate 2) as well as soil-vapor sampling and testing at three (3) locations (B5, B9, and B10) across the site. Soil and groundwater samples were analyzed for gasoline, diesel, heavy oil total petroleum hydrocarbons (TPH) as well as volatile organic compounds (VOCs). Select soil and groundwater samples proximal to a former waste oil storage area (B2) were also analyzed for polychlorinated

biphenyls (PCBs), polyaromatic hydrocarbons (PAHs), and MTCA-5 metals including arsenic, cadmium, chromium, lead, and mercury. Soil-vapor samples were tested for aliphatic/aromatic petroleum hydrocarbons (APHs), BTEX, naphthalene, and chlorinated solvents. Laboratory analysis revealed diesel TPH was identified in soils (B7) and groundwater (B6 and B7) above its applicable MTCA Method-A compliance limit around the central portion of the shop while tetrachloroethene (PCE) in soils above applicable compliance limits were also identified in the central portion of the shop (B6). Naphthalene and PCE were detected in soil-vapor above their applicable MTCA Method-B screening limits at select locations.

Acknowledging that the full extent of impacted media was not defined during that preliminary investigation, additional subsurface sampling and testing was recommended in the event that the client and/or other involved parties wished to quantify the extent of the contamination so that suitable management alternatives could be evaluated along with a reliable projection of costs which might be associated with implementation of such alternatives.

The reader is referred to the above reports for further details.

Current Study

Your expressed interests to conduct additional evaluation of subsurface conditions to attempt to assess the vertical and areal extent of petroleum and chlorinated solvent impacted soils and/or groundwater as memorialized in EAI's proposal dated March 1, 2021, formed the basis for the following scope of work:

- Drilled and sampled eleven (11) borings in accessible locations throughout the subject site and surrounding the previously discovered contamination. Soil and groundwater samples were obtained from each boring and a log of subsurface conditions encountered was prepared for each boring by the EAI project geologist. In addition, EAI drilled directly to the water table and re-sampled groundwater at boring B7 for further characterization.
- Laboratory analysis of selected soil and groundwater samples for diesel and oil TPH and chlorinated volatile organic compounds (cVOCs). Two (2) "worst case" samples were submitted for analysis of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and MTCA-5 metals including arsenic, cadmium, chromium, lead, and mercury. The client authorized additional testing of soil samples for arsenic as well as gasoline TPH and associated fuel constituents based upon olfactory observations during drilling. Further testing was also performed on a single soil sample for hexavalent chromium.
- Preparation of this summary report documenting the methodology and results of the investigation.

FINDINGS

SUBSURFACE INVESTIGATION

Soil Boring Sampling

Between March 17th, 2021 and March 19th, 2021, eleven (11) borings were made at the approximate locations identified as B6A and B11 through B20 on the attached Site Plan (Plate 2). Borings B11 and B12 were placed along the western margin of the shop where compliant detections of PCE had been reported during prior explorations in that area. Borings B13 through B19 were installed surrounding prior explorations B6 and B7 where non-compliant detections of diesel TPH and PCE had previously been found. Boring B6A was installed proximal to the prior B6 exploration in an effort to reach greater depths than the original iteration of that boring. Finally, B20 was placed to the south of B7 in an area where heavily stained concrete was observed. In an effort to resample groundwater from the prior B7 locality, a stainless-steel screen was extended directly into the water table at that locality for sample retrieval.

The borings were installed to depths of approximately 20 to 30 feet below ground surface (bgs) except for B20 which could only reach a depth of eighteen (18) feet bgs before subsurface soil density precluded further exploration with the drilling equipment employed for this study.

Soil and Groundwater Sampling Procedure

Under the observation of the EAI field geologist, a truck-mounted push probe drill rig or limited access push probe drill rig were brought into position over each boring location. Following set-up preparations, the push-probe boring/sampling technique consisted of advancing a 2 to 5-foot plastic lined sampler into the ground. The sampler was then withdrawn and the liner was removed and cut open for examination and transfer of the soil sample to laboratory prepared glassware by EPA Method 5035 as well as 4 ounce glass jars. New liners were inserted into the sampler at each interval, extending to the lowest extent of the boring.

After soil sampling within the borings had been completed, a temporary well screen was installed within the borings in an attempt to collect groundwater from moist or wet soil zones. Small diameter plastic tubing was extended from a peristaltic pump into that temporary screen to recover groundwater samples.

Soil and groundwater samples were transferred from sampling apparatus directly to sterilized laboratory prepared glassware which were then stored in an iced chest maintained at approximately 4 degrees centigrade at the site and taken to the laboratory in this condition in an effort to preserve sample integrity.

Each sample container was clearly labeled as to boring and sample number/depth, date, time, project, etc. EPA-recommended sample-management protocol was observed at each stage of the project.

During drilling, a field log was made by EAI for each boring. Information recorded versus corresponding depth included soil classification (Unified Soil Classification System), color, texture, relative moisture, odors (if present), etc. Final form logs appear as plates 4 through 14. Boring logs relating to B1 through B10 are found in EAI's February 25, 2021-dated report.

Subsurface Conditions

Referring to boring logs (Plates 4 to 14), soils encountered within the borings generally consisted of silts, sands, and gravels, with grey sands or silty sands becoming prominent below a depth of 10 feet below ground surface (bgs). Groundwater was generally encountered at depths between 9 to 10 feet bgs. Petroleum odors were noticed in soils collected from boring B6 within a narrow zone at a depth of approximately 10 feet bgs which also corresponded to an elevated reading on EAI's photo-ionization detector (PID) utilized for field screening. Materials below 20 feet transitioned to gravels or sandy gravels. Throughout the sampling process, EAI's PID began showing detections of vapors between 0 to 12 ppm when field screening, even when no other evidence of potential contaminants was present. After checking various field parameters, EAI deduced that the plastic bags used to hold soils for field screening were emitting vapors which were being detected by the PID. As such, PID concentrations between 0 to 12 ppm annotated on the attached boring logs are not likely representative of true vapor concentrations.

LABORATORY ANALYSIS

Laboratory analysis of soil and groundwater samples during this current phase of work was conducted by Friedman & Bruya, Inc., Seattle, Washington and Fremont Analytical, Seattle, Washington, both being WDOE-accredited analytical laboratories. Selected soil and groundwater samples were submitted for analysis of diesel and oil TPH and chlorinated volatile organic compounds (cVOCs). Two (2) "worst case" samples were submitted for analysis of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and MTCA-5 metals including arsenic, cadmium, chromium, lead, and mercury. The client authorized additional testing of soil samples for arsenic as well as gasoline TPH and associated fuel constituents based upon olfactory observations during drilling. Further testing was also performed on a single soil sample for hexavalent chromium

As documented in Table 1 of this report, laboratory analysis of soils sampled during March 2021 revealed no detections of petroleum or associated BTEX constituents except for gasoline and diesel TPH along with ethylbenzene and xylenes at B6A at a depth of 10 feet bgs. The detection of gasoline TPH (at 160 parts per million (ppm)) is above the MTCA Method-A compliance limit for that analyte (100 ppm). As shown in the attached laboratory data, further analysis of that sample did not reveal the presence of additional fuel constituents hexane, methyl t-butyl ether (MTBE), 1,2-dibromoethane (EDB), or 1,2-dichloroethane (EDC) above the minimum laboratory reporting limits. The results of testing from surrounding soils indicate that the non-compliant gasoline TPH contamination is limited to depths shallower than 15 feet bgs and was not present at similar depths in the surrounding borings.

While the detection of “diesel” TPH in the B6A-10 soil sample was below the applicable action level for that compound, that detection was flagged by the project laboratory as not matching the standard “diesel” chemistry chromatogram. EAI inquired with the project lab as to whether any other compounds were suspected in that sample or what the detection was suspected to be. After further review of the chemistry chromatogram, laboratory staff advised that the “diesel” detection appeared to be some “carry-over” from the gasoline detection as well as a trace of oil. Similar to the gasoline contamination noted above, diesel and oil testing from borings surrounding the prior non-compliant concentration of diesel at B7 (at a depth of 9 to 10 feet bgs) indicate that the non-compliant diesel TPH contamination is limited to the immediate B7 vicinity at depths shallower than 16 feet bgs and was not present in the surrounding borings. Both non-compliant petroleum detections are co-located with in-ground hoist mechanisms left by Firestone.

The ethylbenzene and xylenes detections were both well under their published MTCA Method-A compliance limits for unrestricted land use.

As depicted in Table 2, attached to this report, laboratory testing of groundwater sampled in March 2021 from borings B13, B15, B16, B17, and B18 reported diesel TPH at levels below (i.e. compliant with) the applicable MTCA Method-A compliance limit for that analyte. Each of those detections were “flagged” by the project laboratory as not matching a standard diesel pattern on the chemistry chromatogram. Again EAI inquired with the project lab as to whether any other compounds were suspected in that sample or what the detection was presumed to be. After further review of the chemistry chromatogram, laboratory staff advised that the “diesel” detections appeared to be possible “fuel metabolite” (i.e. fuel breakdown) or simply organic material interfering in the sample as opposed to some other type of fuel product. The non-compliant diesel TPH in groundwater appears to be limited to the vicinity of B6 and B7 at the time of this writing.

As shown in Table 3 and supporting laboratory data attached to this report, the soil samples analyzed in March 2021 reportedly did not contain detectable concentrations of chlorinated volatile organic compounds (cVOCs) including PCE. That includes soils sampled from B6A (installed proximal to previous boring B6) at a depth of 15 feet bgs. Prior testing in February 2016 detected PCE at that locality /depth slightly above published cleanup limits. In an effort to identify any discrepancy between the lab results, the sample from B6A at 15 feet bgs was re-run (i.e. re-extracted). No detections of PCE continued to be reported in the re-analyzed sample indicating that PCE was not currently present at that depth/location. The March 2021 testing indicates that PCE does not extend below depths of 10 to 15 feet bgs at B6/B6A and is not present in surrounding soils at similar depths.

As summarized in Table 4 as well as the appended laboratory data, groundwater samples collected in March 2021 did not contain concentrations of cVOCs above the project lab's minimum reporting limits.

As depicted in Table 5, attached to this report, arsenic, chromium, and lead were reported in soils sampled at B6A at a depth of 10 feet bgs with arsenic being detected above its MTCA Method-A action level. Based on that arsenic detection soils at shallower and deeper depths from that boring as well as from similar depths in surrounding borings (B13 through B16). Based on these results, the non-compliant arsenic detection appears limited to soils in the vicinity of B6/B6A at a depth of 10 feet bgs.

Chromium was detected in soils at B6A at a depth of 10 feet bgs at 26.6 ppm. There are two (2) species of chromium (Chromium III and Chromium VI) with each having different cleanup levels (2,000 ppm and 19 ppm respectively). Given that the detected concentrations in the soil samples analyzed in February and March 2021 are between the two cleanup levels, follow-up testing would need to be conducted to discern what type of chromium is present. With that said, according to the referenced Natural Background Soil Metals Concentrations in Washington State document by WDOE, the "background" levels for chromium in the Puget Sound region in the 90th percentile for soil samples is 48.15 ppm, a value well above the detected concentrations in question. Based upon the WDOE data, it would appear that the results of the completed testing would fall into the realm of normal background levels for this area.

In an effort to determine which species of chromium is present on the property, the sample with the highest level of chromium (B6A-10) was analyzed for hexavalent chromium. As depicted in the attached laboratory data results, that test revealed no hexavalent chromium above the minimum laboratory reporting limits. Based on that result, the chromium species present at the site appears to be chromium III and would therefore be considered compliant.

As shown in Table 6, appended to this report, dissolved arsenic was detected in groundwater at boring B7A at 1.89 parts per billion (ppb) which is well below (i.e. compliant with) its applicable MTCA Method-A compliance limit of 5 ppb. No other metals were reported in the groundwater sampled from that location.

As summarized in Tables 7 and 8, attached to this report, no PCBs were detected in the soil or groundwater samples analyzed during either the February or March 2021 sampling events.

As depicted in Tables 9 and 10 appended to this report, no carcinogenic or non-carcinogenic PAHs were detected in soils sampled from B6A at a depth of 10 feet bgs (where petroleum hydrocarbons had previously been identified) except for the non-carcinogenic compound phenanthrene (detected at 0.015 ppm) which does not currently have a published MTCA compliance limit in the State of Washington.

Table 11, attached to this report, depicts test results for groundwater sampled from B7A (vicinity where previous detections of diesel TPH had been encountered). The carcinogenic PAH chrysene was detected at a concentration of 0.61 ppb however when calculating the total carcinogenic PAHs in the sample which includes multiplying compounds by their toxicity equivalent fractions, the total carcinogenic PAH value in the groundwater sample was 0.07 ppb which is below (i.e. compliant with) the MTCA Method-A compliance limit of 0.1 ppb.

Finally, Table 12 appended to this report depicts the results of testing groundwater sampled from B7A during the March 2021 sampling event for non-carcinogenic PAHs. Fluorene, and pyrene were detected at various concentrations below their published applicable MTCA compliance limits while phenanthrene was also reported at a trace detection however that analyte does not currently have a published cleanup level with the State of Washington.

CONCLUSIONS / RECOMMENDATIONS

Relying upon the results of limited sampling and laboratory testing documented in this report, soils impacted by PCE, gasoline TPH, arsenic, and diesel TPH appear limited to isolated vertical and horizontal “zones” in the vicinity of in-ground hoists at B6 or B7. Similarly, diesel impacted groundwater appears limited to the B6 and B7 localities. Consistent with earlier investigations, these findings are believed to be the result of historic automotive service operations by Firestone at the property.

In analyzing the test results documented above, two (2) “zones” of impacted soils have been identified and are noted as Zone B6 and Zone B7. The zones of impacted soils are depicted on the attached **Plate 3 “Southwest to Northeast Cross Section”**. The following observations are made:

- Acknowledging that non-compliant concentrations of arsenic and gasoline TPH in “Zone B6” were not detected at a depth of 15 feet bgs, soils impacted by those compounds appear to be limited to depths between 10 to 15 feet bgs. Based on retesting of soils from the 15 foot depth at the B6 location for PCE, it appears that non-compliant PCE in soils may be limited to similar depths. Additionally, as those contaminants of concern were not detected in surrounding borings at similar depths, it appears reasonable to presume that impacted soils are horizontally limited to a potential 10 foot by 10 foot area around boring B6. That contaminated zone is further identified as Zone B6.

- Similar to the conditions described above, soils previously identified as adversely impacted by diesel TPH at depths of 9 to 10 feet below grade appear limited both in vertical and horizontal extent as soils sampled from shallower and deeper intervals from the B7 boring as well as from similar depths in surrounding borings did not detect diesel TPH above compliance limits. This contaminated soil zone is identified as Zone B7.
- Groundwater previously identified as impacted by diesel TPH in borings B6 and B7 appear to be limited to those areas as groundwater sampled and tested from surrounding borings did not reveal elevated (i.e. non-compliant) concentrations of TPH.

At the request of the client and their representatives, EAI has included a tentative scope of work to address/remediate the contaminants identified above along with approximate costs for completing such work. The following “cleanup action plan” (CAP) includes the following tasks:

- 1) **Limited excavation of impacted soils along with remaining hoist features at the B6 and B7 zones.** Each excavation may have dimensions of 10 feet long by 10 feet wide by approximately 10 feet deep (corresponding to the top of the perched groundwater table). Prior to excavation, applicable permits would be obtained by the excavation contractor and acknowledging the detection of PCE and arsenic in soils, EAI would request a “contained-in/out” letter from the WDOE so that soils may be classified as “non-dangerous waste” for handling and disposal purposes. Acknowledging the depth that contaminants were present (approximately 10 feet below grade), depending upon the depths reachable through excavation, some impacted soils may not be able to be removed through this method. Upon completion of excavation activities, soil samples would be collected from the base, sidewalls, and stockpiled material and submitted for laboratory analysis to confirm conditions at the limits of hole. A mobile laboratory may be brought to the site to analyze samples as they are collected from the dig areas for the sake of expedience and efficiency in defining the limits of the excavation.
- 2) **Application of remedial compound to the base of the excavation(s) and backfilling.** Upon reaching the accessible depths of the soil excavations, the contractor would apply remedial compounds supplied by Regenesi Environmental Remediation Research (Regenesi) to the base of the excavation and mix it into the upper water table in an attempt to treat remaining soils as well as groundwater at the impacted locations. After application of the remedial compound(s), the excavation would be backfilled with engineering grade backfill materials/gravels. During backfilling, effort may be made to install perforated PVC injection piping so that additional remedial compounds may be re-applied if needed at a later date.

As work items 1 and 2 above would be performed together, an estimated cost for completing both items as provided by local vendors may be on the order of approximately \$84,500 (see Limitations section).

- 3) **Monitoring well installation and groundwater sampling/testing.** Upon completion of backfilling activities, contractors would install a series of monitoring wells at and around the B6 and B7 zones of impact. The wells would allow for periodic sampling and testing of groundwater to verify the effectiveness of the remedial products. In an effort to achieve regulatory closure for the subject site, four (4) consecutive quarters of compliant groundwater results would need to be achieved. This work would also tentatively occur after demolition of the current structure and redevelopment as a parking lot.

Estimated costs for the initial well installation are based upon only performing evaluation of groundwater samples for diesel/oil range petroleum hydrocarbons (as previously shown to be the only contaminant in groundwater above compliance limits). Approximate costs for the initial well installation, sampling and testing, and report finalization of the above work items may be on the order of \$24,000. Additionally, costs for four quarters of monitoring (i.e. sampling and testing) from the wells may be estimated at \$13,500 (approximately 3,375 per each sampling event).

- 4) **Regulatory data submittal.** In an effort to work with the Washington Department of Ecology towards gaining a status of “no further action” (NFA) for the identified subject site release, EAI would provide confirmation sampling reports, remedial action reports, and groundwater monitoring data (including electronic testing spreadsheets) to the WDOE, documenting remedial progress. The site would also be required to enroll in Ecology’s Voluntary Cleanup Program (VCP) and submit a “Remedial Investigation/Feasibility Study” (RIFS) report. Ecology may request additional data (i.e. testing activities) upon review of the submitted data. In an effort to provide Ecology an opportunity to provide commentary on proposed cleanup actions, the client may elect to apply to the VCP prior to commencement of excavation and sampling/testing activities. The estimated costs for completing entry into the VCP as well as drafting RIFS documents and electronic data uploads may be approximately \$8,600.

In summary, after totaling the above costs and adding an approximate 20% contingency, the total estimated costs for the above work items may be on the order of approximately \$160,200 or more. It should be noted that the approximate costs provided above are preliminary estimates and should not be used as a sole informational resource for final budgeting. Exact quantities of impacted subsurface materials can only be known at the time of excavation. EAI would be pleased to meet with the client to discuss potential remedial options in further detail prior to finalization of a remedial action strategy.

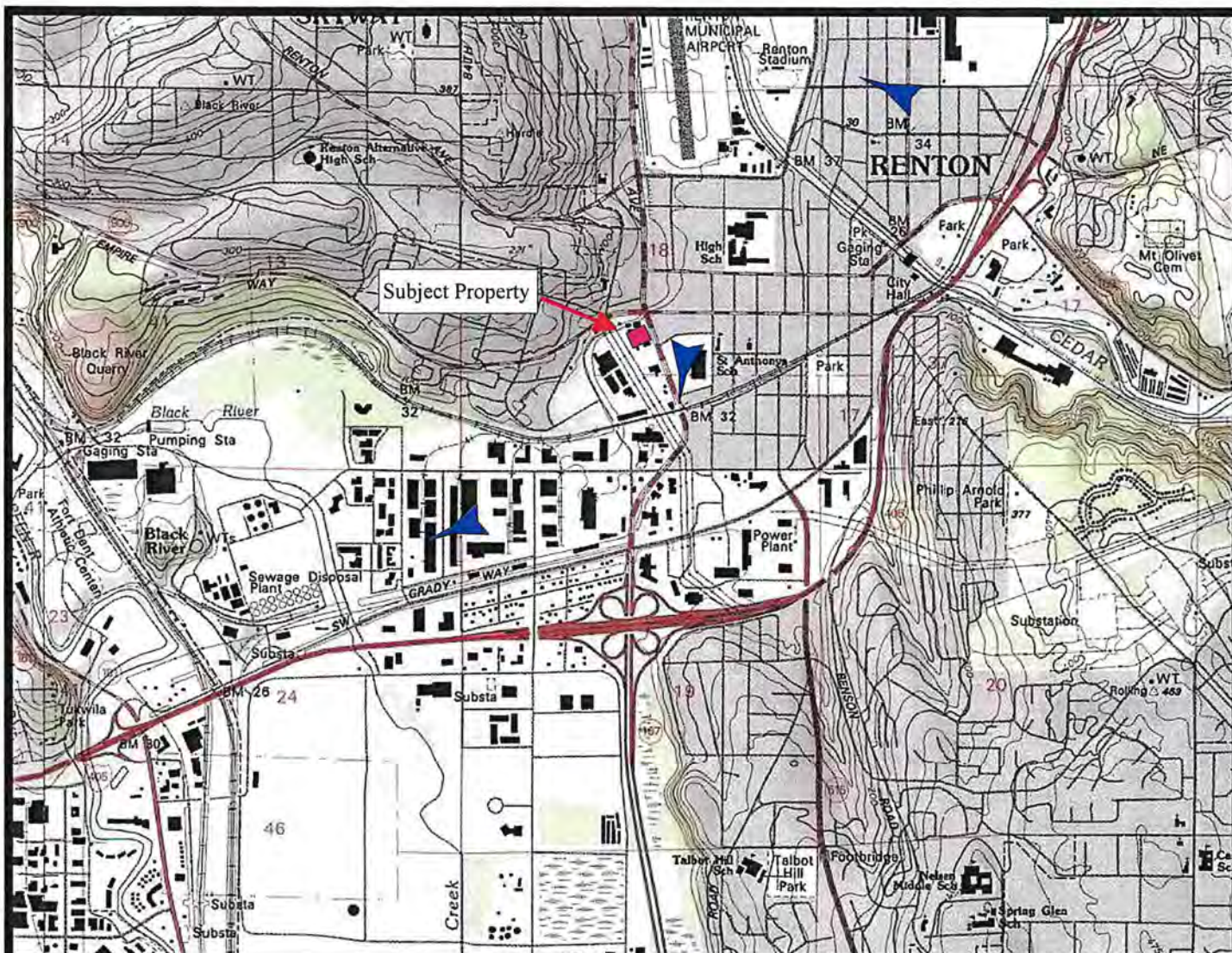
As a footnote, to achieve lawful compliance with Chapter 173-340-300, WAC, copies of this report along with any future reports regarding the environmental conditions encountered be forwarded to the Northwest Regional Office of the Department of Ecology (Bellevue, Washington) by the property owner.

LIMITATIONS

This report has been prepared for the exclusive use of Toula Properties LLC and their several representatives for specific application to this site. Our work for this project was conducted in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area, and in accordance with the terms and conditions set forth in our proposal dated March 1, 2021. The findings and conclusions of this study are based upon the results of laboratory testing of selected samples obtained from separated boring localities and conditions may vary between those locations or at other locations, media, depths, or date. To reiterate, costs for various stages of work discussed herein are approximate and preliminary being based upon experience on similar past projects and approximations provided by potential vendors. As such, actual costs may only be known upon completion of remedial work. No other warranty, expressed or implied is made. If new information is developed in future site work which may include excavations, borings, studies, etc., Environmental Associates, Inc., must be retained to reevaluate the conclusions of this report and to provide amendments as required.

REFERENCES

- Environmental Associates, Inc., December 18, 2020, Phase I Environmental Site Assessment. Vacant Former Firestone Complete Auto Care, 351 Rainier Avenue South, Renton, Washington 98057.
- Environmental Associates, Inc., September 1, 2017, Phase 2 - Limited Subsurface Sampling and Testing, Firestone Master Care Service Facility - 1145 Northwest Market Street, Seattle, Washington.
- Washington State Department of Ecology. Model Toxics Control Act Cleanup Regulation (MTCA), Chapter 173-340 WAC. Publication #94-06, et seq.
- Washington State Department of Ecology, October 1994, Natural Background Soil Metals Concentrations in Washington State. Publication #94-115.



0 5 1 MILE
0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



Approximate Site Location



Inferred Approximate Direction of Groundwater Flow



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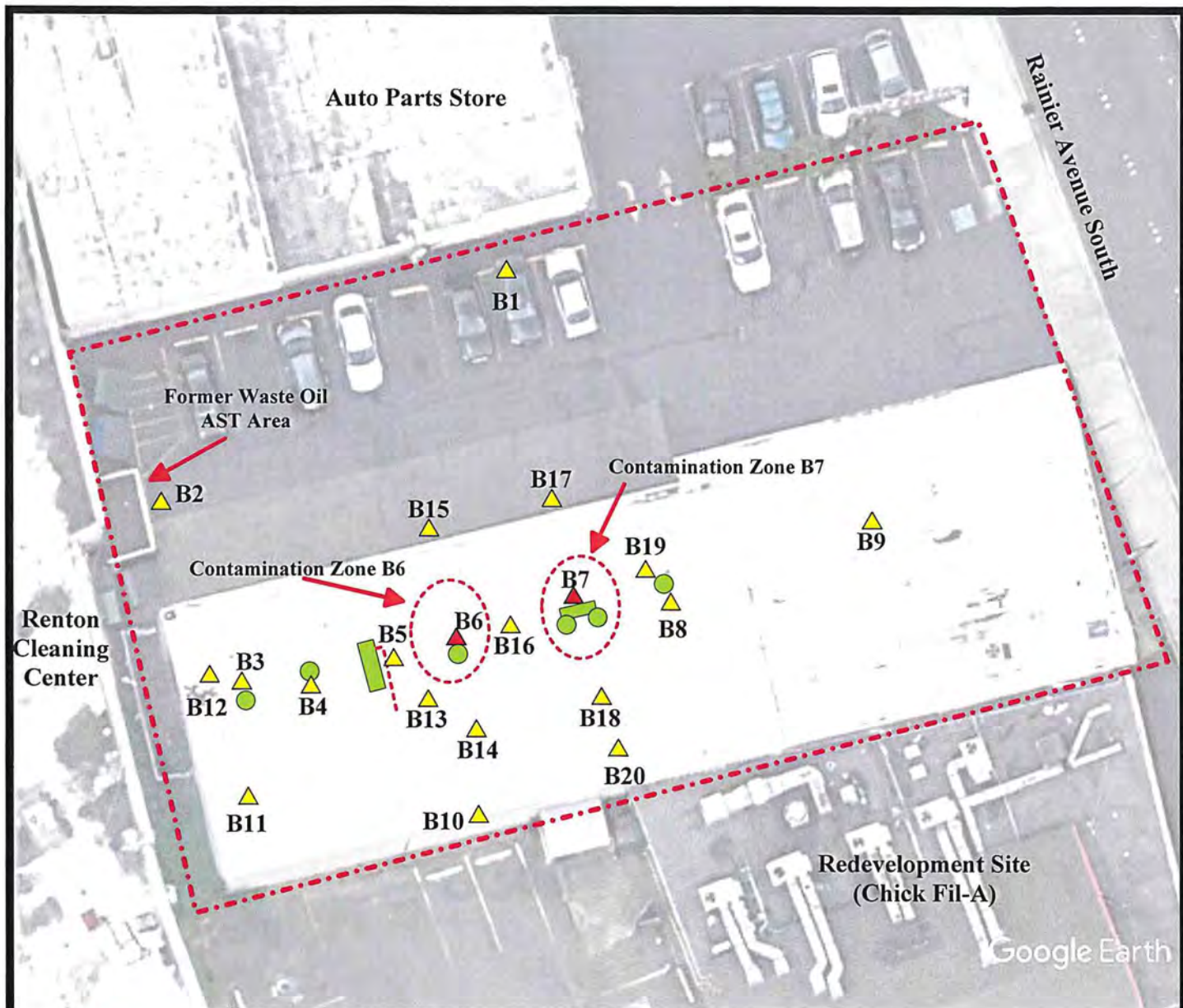
VICINITY/TOPOGRAPHIC MAP

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:
JN 40139-1

Date:
February 2021

Plate:
1



Approximate Site Boundary



Approximate Boring Location (yellow=compliant, red=non-compliant)



Approximate Hoist Mechanism Features



Inferred Approximate Direction of Groundwater Flow



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ASSOCIATES, INC.**

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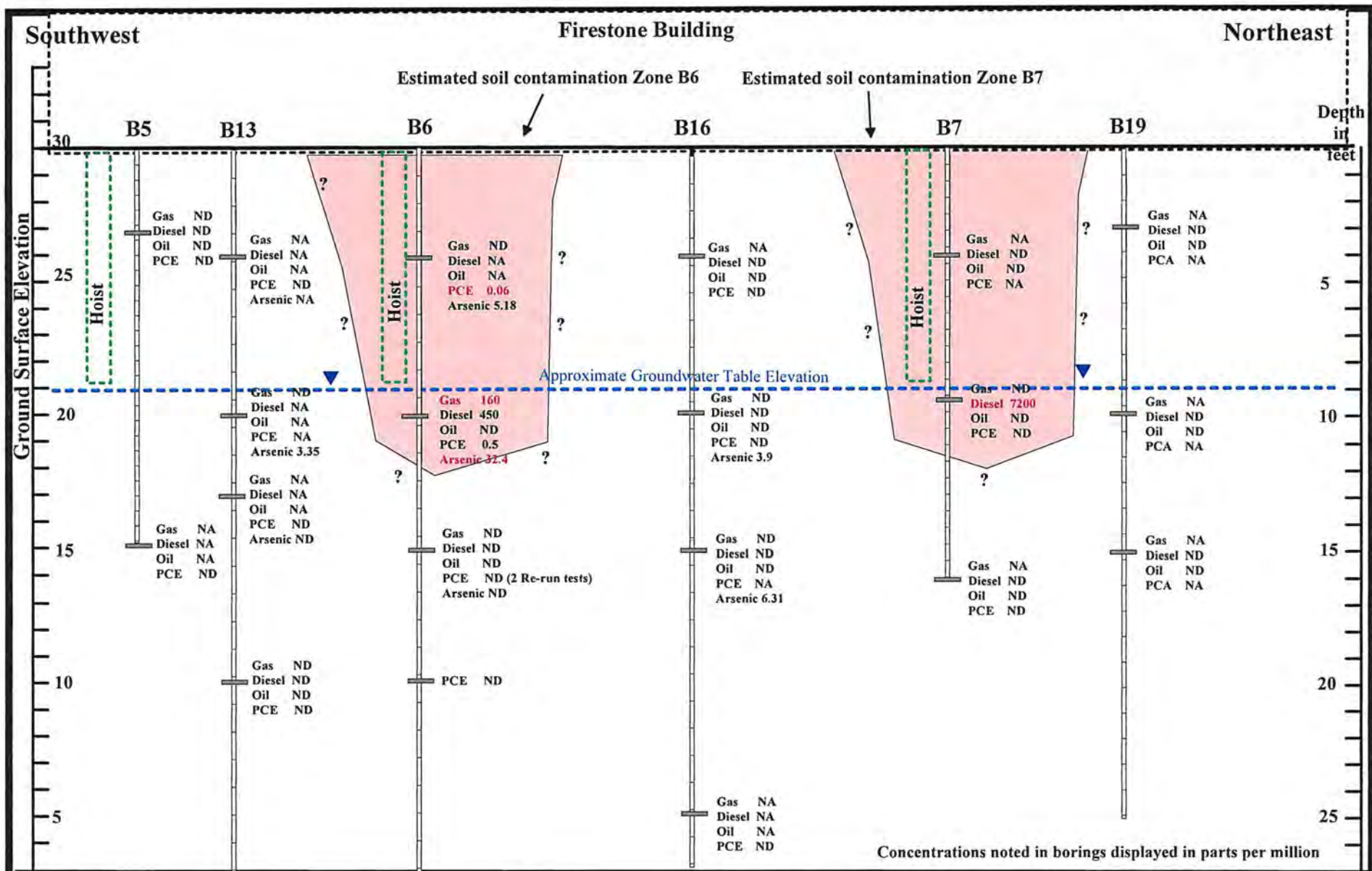
SITE PLAN

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:
JN 40139-2

Date:
March 2021

Plate:
2



**ENVIRONMENTAL
ASSOCIATES, INC.**

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SOUTHWEST-NORTHEAST CROSS-SECTION

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Scale:

Horizontal Not to Scale unless noted

Plate:

3

BORING B6A

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=3.4
10		Moist		ML	Grey/brown silt, moist, petroleum odor, PID=39
15		Wet		SP	Grey sands, wet, no odors or discolorations, PID=3.2
20		Wet		SP	Grey sand, organic material, wet, no odors or discolorations, PID=3.3
25		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=4.1
30		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=2.2
35					Boring terminated at 30 feet below grade on March 17, 2021.
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B6A

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

4

BORING B11

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
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Temporary screen 8- to 18'

Moist

GM

Brown silt and gravels, dry,
no odors or discoloration, PID=0

SM

brown silts and sand

SM

Grey silt and sand, moist,
no odors or discolorations, PID=0

SP

Grey/brown sands, wet,
no odors or discolorations, PID=0

SP/
GW

Brown sands and gravels, wet,
no odors or discolorations, PID=0

Boring terminated at 20 feet below grade on March 17, 2021.



**ENVIRONMENTAL
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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B11

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

5

BORING B12

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
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BORING B13

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=0
10		Moist		SM	Brown silt and sand, moist, no odors or discolorations, PID=0
15		Wet		SP	Grey sands, wet, no odors or discolorations, PID=0
20		Wet		SP	Grey sand, wet, no odors or discolorations, PID=0
25		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=0
30		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=0
35					Boring terminated at 30 feet below grade on March 17, 2021.
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B13

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

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BORING B14

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=0
10		Moist		SP	Brown sand, moist, no odors or discolorations, PID=0
15		Wet		SM SP	Transition from brown silts/sands to grey sand organic odor, PID=0.6
20		Wet		SP	Grey sands, wet, no odors or discolorations, PID=0
25		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=0.4
30		Wet		SP/ GW	Brown gravels and sands, wet, no odors or discolorations, PID=1.5
35					Boring terminated at 30 feet below grade on March 17, 2021.
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B14

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

8

BORING B15

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		SM	Brown silt and sand, dry, no odors or discoloration, PID=0
10		Moist		SP	Brown sand, moist, petroleum odor, PID=0
15		Wet		SP	Transition from brown silts/sands to grey sand no odors
20		Wet		SP	Grey sands, wet, no odors or discolorations, PID=0
25		Wet		GW	Grey sand, wet, no odors or discolorations, PID=1.2
30		Wet		GW	Brown gravels, wet, no odors or discolorations, PID=3.6
35					Boring terminated at 30 feet below grade on March 18, 2021.
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B15

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

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BORING B16

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=5.5
10		Moist		SP	Grey sand, moist, no odors or discoloration, PID=5
15		Wet		SP/ GW	Grey sand and gravels, wet, no odors or discolorations, PID=4.4
20		Wet		SP	Grey sand, wet, no odors or discolorations, PID=3.3
25		Wet		GW	Gravels, wet, no odors or discolorations, PID=5.5
30		Wet		GW	Gravels, wet, no odors or discolorations, PID=5.4
35					Boring terminated at 30 feet below grade on March 18, 2021.
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B16

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

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EAZ

Plate:

10

BORING B17

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=5.1
10		Moist		ML	Brown/grey silt, moist, no odors or discoloration, PID=4.9
15		Wet		SP	Grey sand, wet, no odors or discolorations, PID=4.8
20		Wet		SP/ GW	Sand and gravels, wet, no odors or discolorations, PID=4.2
25		Wet		SP/ GW	Sand and gravels, wet, no odors or discolorations, PID=4.8
Boring terminated at 25 feet below grade on March 18, 2021.					
30					
35					
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B17

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

11

BORING B18

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0	Temporary screen 11' to 15'	Dry		ML	Brown silt, dry, no odors or discoloration, PID=3.8
5					
10		Moist		SM	Brown silt and sand, moist, no odors or discoloration, PID=3.4
15		Wet		SP	Grey sand, wet, no odors or discolorations, PID=7.3
20		Wet		SP/ GW	Brown sand and gravels, wet, no odors or discolorations, PID=11
25		Wet		SP/ GW	Brown sand and gravels, wet, no odors or discolorations, PID=11.3
30					Boring terminated at 25 feet below grade on March 18, 2021.
35					
40					



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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B18

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

12

BORING B19

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0					
5		Dry		ML	Brown silt, dry, no odors or discoloration, PID=5.7
10		Moist		SM	Brown silt and sand, moist, no odors or discoloration, PID=8.3
15		Wet		SP	Transition from brown silts/sands to grey sand no odors
20		Wet		SP/ GW	Grey sand, wet, no odors or discolorations, PID=10
25		Wet		SP/ GW	Sand and gravels, wet, no odors or discolorations, PID=9.3
30					Brown sand and gravels, wet, no odors or discolorations, PID=8.5
35					
40					

Boring terminated at 25 feet below grade on March 18, 2021.



**ENVIRONMENTAL
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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B19

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

13

BORING B20

Depth/ Sample	Well Design	Moisture/ Water Table	Blows / Foot	USCS	DESCRIPTION
0	Temporary screen 11- to 15'	Dry		ML	Brown silt and gravels, dry, no odors or discoloration, PID=12
5		Moist		SM	Brown silt and sand, moist, no odors or discoloration, PID=7
10		Moist		ML	Brown to grey silts, moist, no odors or discolorations, PID=9.5
15		Wet		SM	Grey sand, wet, no odors or discolorations, PID=9.9
18		Wet		GW	Brown gravels, wet, no odors or discolorations, PID=11
20					Boring refusal at 18 feet below grade on March 19, 2021.
25					
30					
35					
40					



**ENVIRONMENTAL
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1380 - 112th Avenue N.E., Ste. 300
Bellevue, Washington 98004

Boring: B20

Vacant Former Firestone Auto Care Property
351 Rainier Avenue South
Renton, Washington

Job Number:

JN 40139-2

Date:

April 2021

Logged by:

EAZ

Plate:

14

TABLE 1 - Petroleum Hydrocarbons and BTEX - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample Date	Sample & Depth	Gasoline (TPH)	Diesel	Heavy Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
Feb-21	B1-10 @ 10' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B2-2.5 BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B3-10 @ 10' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B4-4 @ 4' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B5-3 @ 3' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B6A-4 @ 4' BGS	ND	NA	NA	ND	ND	ND	ND
Feb-21	B6-10 @ 10' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B6A-10 @ 10' BGS	160	450x	ND	ND	ND	0.18	0.29
Feb-21	B6-15 @ 15' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B7-4 @ 4' BGS	NA	ND	ND	NA	NA	NA	NA
Feb-21	B7-9-10 @ 9' TO 10' BGS	ND	7,200	ND	ND	ND	ND	ND
Feb-21	B7-16 @ 16' BGS	NA	ND	ND	NA	NA	NA	NA
Feb-21	B8-8 @ 8' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B8-8 @ 8' BGS DUPLICATE	ND	NA	NA	NA	NA	NA	NA
Feb-21	B9-2 @ 2' BGS	ND	ND	ND	ND	ND	ND	ND
Feb-21	B10-8 @ 8' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B13-10 @ 10' BGS	ND	NA	NA	ND	ND	ND	ND
Mar-21	B13-20 @ 20' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B14-10 @ 10' BGS	ND	NA	NA	ND	ND	ND	ND
Mar-21	B14-12 @ 12' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B14-15 @ 15' BGS	ND	NA	NA	ND	ND	ND	ND
Mar-21	B15-10 @ 10' BGS	ND	NA	NA	ND	ND	ND	ND
Mar-21	B15-15 @ 15' BGS	ND	NA	NA	ND	ND	ND	ND
Mar-21	B16-4 @ 4' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B16-10 @ 10' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B16-15 @ 15' BGS	ND	ND	ND	ND	ND	ND	ND
Mar-21	B17-3 @ 3' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B17-9-10 @ 9'-10' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B17-15 @ 15' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B18-3 @ 3' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B18-10 @ 10' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B18-15 @ 15' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B19-3 @ 3' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B19-10 @ 10' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B19-15 @ 15' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B20-6 @ 6' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B20-9-10 @ 9' TO 10' BGS	NA	ND	ND	NA	NA	NA	NA
Mar-21	B20-14 @ 14' BGS	NA	ND	ND	NA	NA	NA	NA
Reporting Limit ³		5 to 10	50	100 to 250	0.02	0.05/.02	0.05/.02	0.15/.06
WDOE Target Compliance Level ⁴		30 or 100 ⁵	2000	2000	0.03	7	6	9

Notes:

- 1- "ND" denotes analyte not detected at or above listed Reporting Limit.
 - 2- "NA" denotes sample not analyzed for specific analyte.
 - 3- "Reporting Limit" represents the laboratory lower quantitation limit.
 - 4- Soil samples were field screened using a GasTech combustible gas meter to measure the concentration of combustible gas, such as petroleum VOCs. Headspace VOC concentrations were measured after placing the soil sample in a sealed plastic bag and allowing soil and air inside the bag to equilibrate.
 - 5- The MTCA gasoline TPH cleanup level is 30 ppm for soils with benzene or toluene, ethylbenzene, and xylenes = more than 1% of gas detections otherwise it is 100 ppm.
- x- The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Bold and Italics denotes concentrations above MTCA Method A soil cleanup levels.

BGS - Below ground surface.

TABLE 2- Petroleum Hydrocarbons and BTEX- Groundwater Sampling Results
All results and limits in parts per billion (ppb)

Sample Date	Sample	Gasoline (TPH)	Diesel (TPH)	Heavy Oil (TPH)	Benzene	Toluene	thylbenzer	Total Xylenes
Feb-21	B1	ND	ND	ND	ND	ND	ND	ND
Feb-21	B2	ND	ND	ND	ND	ND	ND	ND
Feb-21	B3	ND	ND	ND	ND	ND	ND	ND
Feb-21	B4	ND	ND	ND	ND	ND	ND	ND
Feb-21	B5	ND	ND	ND	ND	ND	ND	ND
Feb-21	B6	240	<i>2,400</i>	ND	ND	ND	ND	ND
Feb-21	B7	ND	<i>16,000</i>	ND	ND	2.3	ND	ND
Feb-21	B8	ND	ND	ND	ND	2.1	1.0	ND
Feb-21	B9	ND	ND	ND	ND	1.3	ND	ND
Feb-21	B10	ND	ND	ND	ND	ND	ND	ND
Mar-21	B13	NA	81 x	ND	NA	NA	NA	NA
Mar-21	B14	NA	ND	ND	NA	NA	NA	NA
Mar-21	B15	NA	130 x	ND	NA	NA	NA	NA
Mar-21	B16	NA	79x	ND	NA	NA	NA	NA
Mar-21	B17	NA	86 x	ND	NA	NA	NA	NA
Mar-21	B18	NA	62 x	ND	NA	NA	NA	NA
Mar-21	B19	NA	ND	ND	NA	NA	NA	NA
Mar-21	B20	NA	ND	ND	NA	NA	NA	NA
Reporting Limit ³		100	50 to 53	100	1	1	1	3
MTCA-Method-A Cleanup Levels ⁴		800 or 1000 ⁵	500	500	5	1000	700	1000

Notes:

1 - "ND" denotes analyte not detected at or above listed Reporting Limit.

2- "NA" denotes sample not analyzed for specific analyte.

3- "Reporting Limit" represents the laboratory lower quantitation limit.

4- Method A groundwater cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC.

5- The MTCA gasoline TPH cleanup level is 800 ppb for groundwater with benzene. Otherwise, the cleanup level is 1000 ppb.

x- The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Bold and Italics denotes concentrations above existing or proposed MTCA Method A groundwater cleanup levels.

TABLE 3- Select VOCs - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample Date	Sample	Tetrachloroethene (PCE)	Trichloroethene (TCE)	(cis) 1,2 Dichloroethene	(trans) 1,2 Dichloroethene	Vinyl Chloride
Feb-21	B1-10	ND	ND	ND	ND	ND
Feb-21	B2-2.5	ND	ND	ND	ND	ND
Feb-21	B3-10	0.05	ND	ND	ND	ND
Feb-21	B4-4	ND	ND	ND	ND	ND
Feb-21	B5-3	ND	ND	ND	ND	ND
Feb-21	B5-15	ND	ND	ND	ND	ND
Feb-21	B6-4	<i>0.06</i>	ND	ND	ND	ND
Feb-21	B6-10	0.05	ND	ND	ND	ND
Feb-21	B6-15	<i>0.08</i>	ND	ND	ND	ND
Mar-21	B6A-15	ND	ND	ND	ND	ND
Mar-21	B6A-15 (RE-EXTRACT)	ND	ND	ND	ND	ND
Mar-21	B6A-20	ND	ND	ND	ND	ND
Mar-21	B6A-30	ND	ND	ND	ND	ND
Feb-21	B7-9-10	ND	ND	ND	ND	ND
Feb-21	B7-16	ND	ND	ND	ND	ND
Feb-21	B8-8	ND	ND	ND	ND	ND
Feb-21	B9-2	ND	ND	ND	ND	ND
Feb-21	B10-8	ND	ND	ND	ND	ND
Mar-21	B11-2.5	ND	ND	ND	ND	ND
Mar-21	B11-10	ND	ND	ND	ND	ND
Mar-21	B11-20	ND	ND	ND	ND	ND
Mar-21	B12-3	ND	ND	ND	ND	ND
Mar-21	B12-10	ND	ND	ND	ND	ND
Mar-21	B12-30	ND	ND	ND	ND	ND
Mar-21	B13-4	ND	ND	ND	ND	ND
Mar-21	B13-13	ND	ND	ND	ND	ND
Mar-21	B13-20	ND	ND	ND	ND	ND
Mar-21	B14-4	ND	ND	ND	ND	ND
Mar-21	B14-10	ND	ND	ND	ND	ND
Mar-21	B14-12	ND	ND	ND	ND	ND
Mar-21	B14-20	ND	ND	ND	ND	ND
Mar-21	B15-4	ND	ND	ND	ND	ND
Mar-21	B15-10	ND	ND	ND	ND	ND
Mar-21	B15-25	ND	ND	ND	ND	ND
Mar-21	B16-4	ND	ND	ND	ND	ND
Mar-21	B16-10	ND	ND	ND	ND	ND
Mar-21	B16-25	ND	ND	ND	ND	ND
Reporting Limit ³		0.02/.025	0.02	0.05	0.05	0.05
Cleanup Level for Unrestricted Land Use (Method-A) ⁴		0.05	0.03	---	---	---
Cleanup Level - (Method-B) ⁵		480	12	160	1600.0	0.667

Notes:

- 1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
- 2 - "NA" denotes sample not analyzed for specific analyte.
- 3 - "Reporting Limit" represents the laboratory lower quantitation limit.
- 4 - Method A soil cleanup levels for unrestricted land use as published in the Model Toxics Control Act (MTCA) 173-340-WAC, Table 740-1.
- 5 - Method-B soil cleanup levels for the "direct contact pathway", as published in Ecology's CLARC database.

Bold and Italics denotes concentrations above existing MTCA Method A or B soil cleanup levels.

TABLE 4- Select VOCs - Groundwater Sampling Results
All results and limits in parts per billion (ppb)

Sample Date	Boring	Tetrachloroethene (PCE)	Trichloroethene (TCE)	(cis) 1,2 Dichloroethene	(trans) 1,2 Dichloroethene	Vinyl Chloride
Feb-21	B1	ND	ND	ND	ND	ND
Feb-21	B2	1.2	ND	ND	ND	ND
Feb-21	B3	ND	ND	ND	ND	ND
Feb-21	B4	ND	ND	ND	ND	ND
Feb-21	B5	ND	ND	ND	ND	ND
Feb-21	B6	ND	ND	ND	ND	ND
Feb-21	B7	ND	ND	ND	ND	ND
Feb-21	B8	ND	ND	ND	ND	ND
Feb-21	B9	ND	ND	ND	ND	ND
Feb-21	B10	ND	ND	ND	ND	ND
Mar-21	B11	ND	ND	ND	ND	ND
Mar-21	B12	ND	ND	ND	ND	ND
Reporting Limit ³		1	1	1	1	0.2
Existing Cleanup Level ⁴		5 (A)	5 (A)	16 (B)	160 (B)	0.2 (A)

Notes:

- 1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
- 2- "NA" denotes sample not analyzed for specific analyte.
- 3- "Reporting Limit" represents the laboratory lower quantitation limit.
- 4- Method A or B groundwater cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC.

Bold and Italics denotes concentrations above existing MTCA Method A groundwater cleanup levels.

TABLE 5 - MTCA-5 Metals - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample Name & Sample Date	Arsenic	Cadmium	Chromium	Lead	Mercury
B2-2.5 (February 2021)	4	ND	23.9	9.5	ND
B6A-4 (March 2021)	5.18	NA	NA	NA	NA
B6A-10 (March 2021)	32.4	ND	26.6	7.14	ND
B6A-15 (March 2021)	ND	NA	NA	NA	NA
B13-10 (March 2021)	3.35	NA	NA	NA	NA
B13-20 (March 2021)	ND	NA	NA	NA	NA
B14-10 (March 2021)	2.85	NA	NA	NA	NA
B14-15 (March 2021)	1.08	NA	NA	NA	NA
B15-10 (March 2021)	2.82	NA	NA	NA	NA
B15-15 (March 2021)	4.03	NA	NA	NA	NA
B16-10 (March 2021)	3.9	NA	NA	NA	NA
B16-15 (March 2021)	6.31	NA	NA	NA	NA
Reporting Limit ³	1	1	1	1	1
WDOE-Method-A Cleanup Level (unrestricted land use)	20	2	19 / 2000 ⁽⁵⁾	250	2

Notes:

- 1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
- 2 - "NA" denotes sample not analyzed for specific analyte.
- 3 - "Reporting Limit" represents the laboratory lower quantitation limit.
- 4 - Method A or B cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC.
- 5 - Results reported as total chromium. The Method A target compliance level for chromium III is 2,000 ppm, while the Method-A compliance level for chromium VI is 19 ppm. Additional testing of sample B6A-10 revealed no detections of chromium VI (hexavalent chromium) .

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

**TABLE 6 - Dissolved MTCA-5 Metals -
Groundwater Sampling Results
All results and limits in parts per billion (ppb)**

Sample Location (and sample date)	Arsenic	Cadmium	Chromium	Lead	Mercury
B2 (February 2021)	ND	ND	ND	ND	ND
B7A f (March 2021)	1.89	ND	ND J	ND	ND
Reporting Limit ³	1	0.5-1	0.5-10	0.25-1	0.25-1
Existing Cleanup Level ⁴	5 (A)	5 (A)	50 (A)	15 (A)	2 (A)

Notes:

- 1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
2- "NA" denotes sample not analyzed for specific analyte.
3- "Reporting Limit" represents the laboratory lower quantitation limit.
4- Method A or B cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC.
f - The sample was laboratory filtered prior to analysis.
J- The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 7 - PCBs - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample (and date)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
B2-2.5 (February 2021)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6A-10 (March 2021)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reporting Limit ³	0.2-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005	0.02-0.005
Existing Cleanup Level ⁴	---	---	---	---	---	---	---	---	---	1 (A)

Notes:

1 - "ND" denotes analyte not detected at or above listed Reporting Limit.

2 - "NA" denotes sample not analyzed for specific analyte.

3 - "Reporting Limit" represents the laboratory lower quantitation limit.

4 - Method A soil cleanup level for total PCB mixtures as published in the Model Toxics Control Act (MTCA) 173-340-WAC.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 8 - PCBs - Groundwater Sampling Results
All results and limits in parts per billion (ppb)

Sample Name (and Date)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
B2 (February 2021)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B7A (March 2021)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reporting Limit ³	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	---
Existing Cleanup Level ⁴	---	---	---	---	---	---	---	---	---	0.1 (A)

Notes:

- 1 - "ND" denotes analyte not detected at or above listed Reporting Limit.
 2 - "NA" denotes sample not analyzed for specific analyte.
 3 - "Reporting Limit" represents the laboratory lower quantitation limit.
 4 - Method A soil cleanup level for total PCB mixtures as published in the Model Toxics Control Act (MTCA) 173-340-WAC.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 9 - Carcinogenic PAHs - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample Name (and date)	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Benzo(k)fluoranthene	Benzo(a)anthracene	Benzo(b)fluoranthene	Total Carcinogenic PAHs ⁽⁵⁾
B2.-2.5* (February 2021)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
B6A-10* (March 2021)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01
cPAH Toxicity Equivilant Fraction ⁽⁴⁾	1.0	0.01	0.1	0.1	0.1	0.1	0.1	
Reporting Limit ²	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	
MTCA-Method-A Residential ⁽³⁾	---	---	---	---	---	---	---	0.1
MTCA-Method-A Industrial ⁽³⁾	---	---	---	---	---	---	---	2

Notes:

- 1- "NA" denotes sample not analyzed for specific analyte.
- 2- "Reporting Limit" represents the laboratory lower quantitation limit.
- 3- Method A soil cleanup level for total carcinogenic PAHs as published in the Model Toxics Control Act (MTCA) 173-340-WAC.
- 4- Total carcinogenic PAHs are calculated by summing the product of each cPAH multiplied by its toxicity equivalency fraction per WAC 173-340-708(8).
- *- Sample results were "non detected" with a reporting limit of 0.1 ppb however values above were reported at half the reporting limit so value could be entered.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 10 - Other PAHs - Soil Sampling Results
All results and limits in parts per million (ppm)

Sample Name	Naphthalene	Acenaphthene	Phenanthrene	Anthracene	Fluoranthene	Pyrene
B2-2.5	ND	ND	ND	ND	ND	ND
B6A-10	ND	ND	0.015	ND	ND	ND
Reporting Limit ³	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02	0.01-0.02
Cleanup Level for Unrestricted Land Use (Method-A) ⁴	5	---	---	---	---	---
Cleanup Level - Direct Contact (Method-B) ⁵	1600	4800	---	24000	3200	2400

Notes:

1 - "ND" denotes analyte not detected at or above listed Reporting Limit.

2- "NA" denotes sample not analyzed for specific analyte.

3- "Reporting Limit" represents the laboratory lower quantitation limit.

4- Method A soil cleanup levels for unrestricted land use as published in the Model Toxics Control Act (MTCA) 173-340-WAC.

5- Method-B soil cleanup levels for the "direct contact pathway", as published in Ecology's CLARC database.

6- Method-B soil cleanup level for the protection of groundwater based upon the Method-B groundwater cleanup levels. Values as published in Ecology's CLARC database.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 11 - Carcinogenic PAHs - Groundwater Sampling Results
All results and limits in parts per billion (ppb)

Sample Name (and date)	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3,-cd)pyrene	Benzo(k)fluoranthene	Benzo(a)anthracene	Benzo(b)fluoranthene	Total Carcinogenic PAHs ⁽³⁾
B2* (February 2021)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.08
B7A (March 2021)	0.04	0.61	0.04	0.04	0.04	0.04	0.04	0.07
cPAH Toxicity Equivilant Fraction ⁽⁴⁾	1.0	0.01	0.1	0.1	0.1	0.1	0.1	
Reporting Limit ²	0.02-0.1	0.02-0.1	0.02-0.1	0.02-0.1	0.02-0.1	0.02-0.1	0.02-0.1	---
Existing Cleanup Level ³	---	---	---	---	---	---	---	0.1

Notes:

- 1- "NA" denotes sample not analyzed for specific analyte.
2- "Reporting Limit" represents the laboratory lower quantitation limit.
3- Method-A Groundwater cleanup level for total carcinogenic PAHs as published in the Model Toxics Control Act (MTCA) 173-340-WAC.
4- Total carcinogenic PAHs are calculated by summing the product of each cPAH multiplied by its toxicity equivalency fraction per WAC 173-340-708(8).
*- Sample results were "non detected" with a reporting limit of 0.1 ppb however values above were reported at half the reporting limit so value could be entered.

Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.

TABLE 12 - Other PAHs - Groundwater Sampling Results All results and limits in parts per billion (ppb)				
Sample Name (and Date)	Naphthalene	Phenanthrene	Fluorene	Pyrene
B2 (February 2021)	ND	ND	ND	ND
B7A (March 2021)	ND	2.9	1.40	1.90
Reporting Limit ³	0.1-0.4	0.1-0.2	0.1-0.04	0.1-0.02
Existing Cleanup Level ⁴	160	---	640	480
Notes: 1 - "ND" denotes analyte not detected at or above listed Reporting Limit. 2- "NA" denotes sample not analyzed for specific analyte. 3- "Reporting Limit" represents the laboratory lower quantitation limit. 4- Method B groundwater cleanup levels as published in the Model Toxics Control Act (MTCA) 173-340-WAC. Bold and Italics denotes concentrations above existing MTCA Method A soil cleanup levels.				

APPENDIX A

Laboratory Reports

FRIEDMAN & BRUYA, INC.

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

April 1, 2021

Eric Zuern, Project Manager
Environmental Associates, Inc.
1380 112th Ave. NE, 300
Bellevue, WA 98004


Dear Mr Zuern:

Included are the results from the additional testing of material submitted on March 18, 2021 from the Renton Firestone 40139-2, F&BI 103364 project. There are 10 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
EAI0401R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 18, 2020 by Friedman & Bruya, Inc. from the Environmental Associates Renton Firestone 40139-2, F&BI 103364 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Associates</u>
103364 -01	B15-4
103364 -02	B15-10
103364 -03	B15-15
103364 -04	B15-20
103364 -05	B15-25
103364 -06	B15-30
103364 -07	B15
103364 -08	B16-4
103364 -09	B16-10
103364 -10	B16-15
103364 -11	B16-20
103364 -12	B16-25
103364 -13	B16-30
103364 -14	B16
103364 -15	B17-3
103364 -16	B17-9-10
103364 -17	B17-15
103364 -18	B17-20
103364 -19	B17-25
103364 -20	B17
103364 -21	B18-3
103364 -22	B18-10
103364 -23	B18-15
103364 -24	B18-20
103364 -25	B18-25
103364 -26	B18
103364 -27	B19-3
103364 -28	B19-10
103364 -29	B19-15
103364 -30	B19-20
103364 -31	B19-25
103364 -32	B19

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

Date Extracted: 03/29/21

Date Analyzed: 03/30/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
B15-10 103364-02	<0.02	<0.02	<0.02	<0.06	<5	77
B15-15 103364-03	<0.02	<0.02	<0.02	<0.06	<5	87
B16-10 103364-09	<0.02	<0.02	<0.02	<0.06	<5	89
B16-15 103364-10	<0.02	<0.02	<0.02	<0.06	<5	82
Method Blank 01-591 MB	<0.02	<0.02	<0.02	<0.06	<5	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B15-10	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2, F&BI 103364
Date Extracted:	03/26/21	Lab ID:	103364-02
Date Analyzed:	03/26/21	Data File:	103364-02.121
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

	Concentration
Analyte:	mg/kg (ppm)

Arsenic	2.82
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B15-15	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2, F&BI 103364
Date Extracted:	03/26/21	Lab ID:	103364-03
Date Analyzed:	03/26/21	Data File:	103364-03.122
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

	Concentration
Analyte:	mg/kg (ppm)

Arsenic	4.03
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B16-10	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2, F&BI 103364
Date Extracted:	03/26/21	Lab ID:	103364-09
Date Analyzed:	03/26/21	Data File:	103364-09.123
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.90
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B16-15	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2, F&BI 103364
Date Extracted:	03/26/21	Lab ID:	103364-10
Date Analyzed:	03/26/21	Data File:	103364-10.124
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.31
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Environmental Associates
Date Received:	NA	Project:	Renton Firestone 40139-2, F&BI 103364
Date Extracted:	03/26/21	Lab ID:	I1-195 mb
Date Analyzed:	03/26/21	Data File:	I1-195 mb.039
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 103509-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	96	70-117
Ethylbenzene	mg/kg (ppm)	0.5	96	65-123
Xylenes	mg/kg (ppm)	1.5	100	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 103463-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	5.68	66 b	66 b	75-125	0 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	80-120

FRIEDMAN & BRUYA, INC.

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.

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.

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.

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.

103364

SAMPLE CHAIN OF CUSTODY

0318-21

V33/E04/B03/A23/VW1

Report To Eric ZiemCompany Environmental Associates Inc.Address 1380 112th ave NE #300City, State, ZIP Bellevue, WA 98004Phone 425-455-9025 Email info@environmentalassociatesinc.comSAMPLERS (signature) [Signature]

PROJECT NAME

Penton Firestone

PO #

40139-2

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

Toula Pappas
- same as prev. sub.
under PO#

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Cx	BTEX EPA 8021	NWTPH-HCID	CHLORIDE EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic			
B15-4	01A-C	3-18-21	8:52	Soil	3					X						● -pe EZ
B15-10	02		8:56		3		●	●		X			●			3/24/21 ME
B15-15	03		9:00		3		●	●					●			
B15-20	04		9:18		3											
B15-25	05		9:30		3					X						
B15-30	06		9:45	↓	3											
B15	07A-D		9:08	Water	4	X										
B16-4	08AY		10:04	Soil	3	X				X						
B16-10	09		10:08	↓	3	X	●	●		X			●			
B16-15	10		10:15	↓	3	X	●	●					●			

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Eric Ziem</u>	<u>EAC</u>	<u>3-18-21</u>	<u>13:45</u>
Received by: <u>[Signature]</u>	<u>HONG NGUYEN</u>	<u>FBI</u>		
Relinquished by:				
Received by:				
Samples received at <u>4</u> °C				

103364
 Report to ERIC ZUER
 Company EAI
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3 / E04 / B03 / A13 / VW1
 Page # 2 of 4

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME <u>Renton Firestone</u>	PO # <u>4039-2</u>
REMARKS Project specific RLs? - Yes / No	INVOICE TO

TURNAROUND TIME <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	Chlorinated VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic			
B16-20	11 A-C	3-18-21	10:40	Soil	3											
B16-25	12		10:53		3					X						
B16-30	13		11:07		3											
B16	14 A-F		10:25	Water	6	X										
B17-3	15 A-C		11:31	Soil	3	X										
B17-9-10	16		11:35		3	X										
B17-15	17		11:40		3	X										
B17-20	18		12:04		3											
B17-25	19		12:18		3											
B17	20 A-E		11:50	Water	5	X										

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>ERIC ZUER</u>	<u>EAI</u>	<u>3-18-21</u>	<u>3:45</u>
Received by: <u>[Signature]</u>	<u>HONG NGUYEN</u>	<u>FR</u>		
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

103364
 Report To Eric Ziem
 Company EAT
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3 / E04 / 803 / AI3 / VNI
 Page # 5 of 1

SAMPLERS (signature) <u>Eric Ziem</u>	
PROJECT NAME <u>Renton Firestone</u>	PO # <u>40139-2</u>
REMARKS Project specific RLs? - Yes / No	INVOICE TO

TURNAROUND TIME <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic			
B18-3	21 AC	3-18-21	12:33	Soil	3	X										
B18-10	22		12:37		3	X										
B18-15	23		12:42		3	X										
B18-20	24		1:08		3											
B18-25	25 ✓		1:24	↓	3											
B18	26 A-F		12:50	Water	6	X										
B19-3	27 AC		1:35	Soil	3	X										
B19-10	28		1:40	↑	3	X										
B19-15	29		1:44	↓	3	X										
B19-20	30	✓	2:10	↓	3											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Eric Ziem</u>	<u>Eric Ziem</u>	<u>EAT</u>	<u>3-18-21</u>	<u>3:45</u>
Received by: <u>HONG NGUYEN</u>	<u>HONG NGUYEN</u>	<u>FMT</u>	✓	✓
Relinquished by: _____				
Received by: _____		Samples received at <u>4</u> °C		

103364
 Report To Eric Zuen
 Company EAT
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3/E04/4 B03/1453/1453
 Page # 4 of 1

SAMPLERS (signature) <u>Eric Zuen</u>	
PROJECT NAME <u>Penton Firestone</u>	PO # <u>4039-2</u>
REMARKS	INVOICE TO
Project specific RLs? - Yes / No	

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard turnaround	
<input type="checkbox"/> RUSH	
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Archive samples	
<input type="checkbox"/> Other	
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic				
B19-25	31A-C	3-18-21	2:24	Soil	3												
B19	32A-E	↓	1:50	Water	5	X											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Eric Zuen</u>	<u>Eric Zuen</u>	<u>EAT</u>	<u>3-18-21</u>	<u>5:45</u>
Received by: <u>HONG NGUYEN</u>	<u>HONG NGUYEN</u>	<u>FBI</u>	<u>✓</u>	<u>✓</u>
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

FRIEDMAN & BRUYA, INC.

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

April 1, 2021

Eric Zuern, Project Manager
Environmental Associates, Inc.
1380 112th Ave. NE, 300
Bellevue, WA 98004

Dear Mr Zuern:

Included are the results from the testing of material submitted on March 17, 2021 from the Renton Firestone 40139-2, F&BI 103339 project. There are 53 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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
EAI0401R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 17, 2020 by Friedman & Bruya, Inc. from the Environmental Associates Renton Firestone 40139-2, F&BI 103339 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Associates</u>
103339 -01	B11-2.5
103339 -02	B11-10
103339 -03	B11-15
103339 -04	B11-20
103339 -05	B11
103339 -06	B12-3
103339 -07	B12-10
103339 -08	B12-15
103339 -09	B12-20
103339 -10	B12-25
103339 -11	B12-30
103339 -12	B12
103339 -13	B13-4
103339 -14	B13-10
103339 -15	B13-13
103339 -16	B13-20
103339 -17	B13-25
103339 -18	B13-30
103339 -19	B13
103339 -20	B14-4
103339 -21	B14-10
103339 -22	B14-12
103339 -23	B14-15
103339 -24	B14-20
103339 -25	B14-25
103339 -26	B14-30
103339 -27	B14
103339 -28	B6A-4
103339 -29	B6A-10
103339 -30	B6A-15
103339 -31	B6A-20
103339 -32	B6A-25
103339 -33	B6A-30
103339 -34	B6A

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

Date Extracted: 03/22/21 and 03/29/21

Date Analyzed: 03/23/21 and 03/30/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
B13-10 103339-14	<0.02	<0.02	<0.02	<0.06	<5	93
B13-20 103339-16	<0.02	<0.02	<0.02	<0.06	<5	94
B14-10 103339-21	<0.02	<0.02	<0.02	<0.06	<5	92
B14-12 103339-22	<0.02	<0.02	<0.02	<0.06	<5	80
B14-15 103339-23	<0.02	<0.02	<0.02	<0.06	<5	90
B6A-4 103339-28	<0.02	<0.02	<0.02	<0.06	<5	89
B6A-10 103339-29	<0.02	<0.02	0.18	0.29	160	95
Method Blank 01-583 MB	<0.02	<0.02	<0.02	<0.06	<5	78
Method Blank 01-591 MB	<0.02	<0.02	<0.02	<0.06	<5	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

Date Extracted: 03/18/21 and 03/25/21

Date Analyzed: 03/18/21 and 03/25/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
B13-20 103339-16	<50	<250	86
B14-12 103339-22	<50	<250	84
B6A-10 103339-29	450 x	<250	96
Method Blank 01-695 MB	<50	<250	101
Method Blank 01-725 MB	<50	<250	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

Date Extracted: 03/18/21

Date Analyzed: 03/18/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
B13 103339-19	81 x	<250	106
B14 103339-27	<50	<250	73
Method Blank 01-693 MB	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B13-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-14
Date Analyzed:	03/25/21	Data File:	103339-14.131
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	3.35
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B13-20	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-16
Date Analyzed:	03/25/21	Data File:	103339-16.132
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B14-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-21
Date Analyzed:	03/25/21	Data File:	103339-21.133
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

	Concentration
Analyte:	mg/kg (ppm)

Arsenic	2.85
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B14-15	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-23
Date Analyzed:	03/25/21	Data File:	103339-23.147
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	1.08
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B6A-4	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-28
Date Analyzed:	03/25/21	Data File:	103339-28.154
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.18
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B6A-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/22/21	Lab ID:	103339-29
Date Analyzed:	03/22/21	Data File:	103339-29.106
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	32.4
Cadmium	<1
Lead	7.14
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B6A-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/22/21	Lab ID:	103339-29 x5
Date Analyzed:	03/23/21	Data File:	103339-29 x5.095
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	26.6
----------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B6A-15	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	103339-30
Date Analyzed:	03/25/21	Data File:	103339-30.155
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Environmental Associates
Date Received:	NA	Project:	Renton Firestone 40139-2
Date Extracted:	03/22/21	Lab ID:	I1-182 mb
Date Analyzed:	03/22/21	Data File:	I1-182 mb.090
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Environmental Associates
Date Received:	NA	Project:	Renton Firestone 40139-2
Date Extracted:	03/25/21	Lab ID:	I1-189 mb2
Date Analyzed:	03/25/21	Data File:	I1-189 mb2.038
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B11-2.5	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-01
Date Analyzed:	03/18/21	Data File:	031810.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B11-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-02
Date Analyzed:	03/18/21	Data File:	031811.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B11-20	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-04
Date Analyzed:	03/18/21	Data File:	031812.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B12-3	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-06
Date Analyzed:	03/18/21	Data File:	031813.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B12-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-07
Date Analyzed:	03/18/21	Data File:	031814.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B12-30	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-11
Date Analyzed:	03/18/21	Data File:	031815.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B13-4	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-13
Date Analyzed:	03/18/21	Data File:	031816.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B13-13	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-15
Date Analyzed:	03/18/21	Data File:	031817.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B13-20	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-16
Date Analyzed:	03/18/21	Data File:	031818.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B14-4	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-20
Date Analyzed:	03/18/21	Data File:	031819.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B14-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-21
Date Analyzed:	03/18/21	Data File:	031820.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B14-12	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-22
Date Analyzed:	03/18/21	Data File:	031821.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B14-20	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-24
Date Analyzed:	03/18/21	Data File:	031822.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B6A-15	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-30
Date Analyzed:	03/18/21	Data File:	031823.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B6A-15 REEXTRACT	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/26/21	Lab ID:	103339-30
Date Analyzed:	03/26/21	Data File:	032613.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B6A-20	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-31
Date Analyzed:	03/18/21	Data File:	031824.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B6A-30	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	103339-33
Date Analyzed:	03/18/21	Data File:	031825.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/18/21	Lab ID:	01-639 mb
Date Analyzed:	03/18/21	Data File:	031809.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/26/21	Lab ID:	01-665 mb
Date Analyzed:	03/26/21	Data File:	032609.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B11	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/30/21	Lab ID:	103339-05
Date Analyzed:	03/30/21	Data File:	033010.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	85	117
Toluene-d8	93	88	112
4-Bromofluorobenzene	114 vo	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B12	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/30/21	Lab ID:	103339-12
Date Analyzed:	03/30/21	Data File:	033011.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	91	88	112
4-Bromofluorobenzene	109	90	111

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/30/21	Lab ID:	01-673 mb
Date Analyzed:	03/30/21	Data File:	033008.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	96	88	114
4-Bromofluorobenzene	102	88	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID: B6A-10	Client: Environmental Associates
Date Received: 03/17/21	Project: Renton Firestone 40139-2
Date Extracted: 03/23/21	Lab ID: 103339-29 1/5
Date Analyzed: 03/23/21	Data File: 032314.D
Matrix: Soil	Instrument: GCMS9
Units: mg/kg (ppm) Dry Weight	Operator: VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	73	32	100
Phenol-d6	82	46	107
Nitrobenzene-d5	93	24	127
2-Fluorobiphenyl	87	46	108
2,4,6-Tribromophenol	87	25	127
Terphenyl-d14	85	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.015
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/23/21	Lab ID:	01-715 mb 1/5
Date Analyzed:	03/23/21	Data File:	032310.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	88	32	100
Phenol-d6	97	46	107
Nitrobenzene-d5	104	24	127
2-Fluorobiphenyl	106	46	108
2,4,6-Tribromophenol	89	25	127
Terphenyl-d14	106	50	150

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
2-Methylnaphthalene	<0.01
1-Methylnaphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B6A-10	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/24/21	Lab ID:	103339-29 1/6
Date Analyzed:	03/24/21	Data File:	032419.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower	Upper
TCMX	66	Limit:	Limit:
		23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/24/21	Lab ID:	01-720 mb 1/6
Date Analyzed:	03/24/21	Data File:	032414.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower	Upper
TCMX	76	Limit:	Limit:
		23	120

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 103348-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	0.042	<0.02	nm
Ethylbenzene	mg/kg (ppm)	0.61	0.47	26 hr
Xylenes	mg/kg (ppm)	0.52	0.40	26 hr
Gasoline	mg/kg (ppm)	85	66	25 hr

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	88	69-120
Toluene	mg/kg (ppm)	0.5	91	70-117
Ethylbenzene	mg/kg (ppm)	0.5	89	65-123
Xylenes	mg/kg (ppm)	1.5	92	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 103509-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	94	69-120
Toluene	mg/kg (ppm)	0.5	96	70-117
Ethylbenzene	mg/kg (ppm)	0.5	96	65-123
Xylenes	mg/kg (ppm)	1.5	100	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 103339-16 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	80	82	64-133	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 103427-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	210	91	94	64-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	86	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	100	63-142	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 103386-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	11.3	111	116	75-125	4
Cadmium	mg/kg (ppm)	10	<5	101	102	75-125	1
Chromium	mg/kg (ppm)	50	14.7	100	101	75-125	1
Lead	mg/kg (ppm)	50	8.72	103	104	75-125	1
Mercury	mg/kg (ppm)	5	<5	106	110	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	109	80-120
Cadmium	mg/kg (ppm)	10	99	80-120
Chromium	mg/kg (ppm)	50	104	80-120
Lead	mg/kg (ppm)	50	103	80-120
Mercury	mg/kg (ppm)	5	104	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 103407-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	2.07	102	109	75-125	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	98	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 103339-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	33	31	10-138	6
Chloroethane	mg/kg (ppm)	1	<0.5	44	42	10-176	5
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	57	54	10-160	5
Methylene chloride	mg/kg (ppm)	1	<0.5	74	71	10-156	4
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	62	62	14-137	0
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	67	64	19-140	5
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	71	70	25-135	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	76	73	12-160	4
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	67	64	10-156	5
Trichloroethene	mg/kg (ppm)	1	<0.02	78	75	21-139	4
Tetrachloroethene	mg/kg (ppm)	1	<0.025	76	74	20-133	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	69	22-139
Chloroethane	mg/kg (ppm)	1	58	9-163
1,1-Dichloroethene	mg/kg (ppm)	1	95	47-128
Methylene chloride	mg/kg (ppm)	1	100	10-184
trans-1,2-Dichloroethene	mg/kg (ppm)	1	94	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	92	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	1	93	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	97	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	89	62-131
Trichloroethene	mg/kg (ppm)	1	97	63-121
Tetrachloroethene	mg/kg (ppm)	1	105	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 103339-30 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	28	31	10-138	10
Chloroethane	mg/kg (ppm)	1	<0.5	41	44	10-176	7
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	48	54	10-160	12
Methylene chloride	mg/kg (ppm)	1	<0.5	59	70	10-156	17
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	53	61	14-137	14
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	55	63	19-140	14
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	58	67	25-135	14
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	62	71	12-160	14
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	55	62	10-156	12
Trichloroethene	mg/kg (ppm)	1	<0.02	60	67	21-139	11
Tetrachloroethene	mg/kg (ppm)	1	<0.025	59	70	20-133	17

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	64	22-139
Chloroethane	mg/kg (ppm)	1	71	9-163
1,1-Dichloroethene	mg/kg (ppm)	1	85	47-128
Methylene chloride	mg/kg (ppm)	1	97	10-184
trans-1,2-Dichloroethene	mg/kg (ppm)	1	83	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	84	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	1	87	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	89	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	86	62-131
Trichloroethene	mg/kg (ppm)	1	88	63-121
Tetrachloroethene	mg/kg (ppm)	1	87	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 103462-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	<0.2	65	67	36-166	3
Chloroethane	ug/L (ppb)	10	<1	65	69	46-160	6
1,1-Dichloroethene	ug/L (ppb)	10	<1	79	81	58-142	2
Methylene chloride	ug/L (ppb)	10	<5	94	104	50-145	10
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	77	79	61-136	3
1,1-Dichloroethane	ug/L (ppb)	10	<1	80	80	63-135	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	83	86	63-134	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<1	91	92	48-149	1
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	85	87	60-146	2
Trichloroethene	ug/L (ppb)	10	<1	88	91	66-135	3
Tetrachloroethene	ug/L (ppb)	10	<1	105	105	10-226	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	88	87	50-154	1
Chloroethane	ug/L (ppb)	10	88	85	58-146	3
1,1-Dichloroethene	ug/L (ppb)	10	99	96	67-136	3
Methylene chloride	ug/L (ppb)	10	97	96	19-178	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	94	92	68-128	2
1,1-Dichloroethane	ug/L (ppb)	10	90	89	74-135	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	92	74-136	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	94	94	66-129	0
1,1,1-Trichloroethane	ug/L (ppb)	10	95	94	74-142	1
Trichloroethene	ug/L (ppb)	10	92	93	67-133	1
Tetrachloroethene	ug/L (ppb)	10	108	104	76-121	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 103407-03 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.83	<0.01	84	86	50-150	2
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	85	85	50-150	0
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.01	84	85	50-150	1
Acenaphthylene	mg/kg (ppm)	0.83	<0.01	100	99	50-150	1
Acenaphthene	mg/kg (ppm)	0.83	<0.01	92	92	50-150	0
Fluorene	mg/kg (ppm)	0.83	<0.01	96	96	50-150	0
Phenanthrene	mg/kg (ppm)	0.83	0.029	87	88	50-150	1
Anthracene	mg/kg (ppm)	0.83	<0.01	90	94	50-150	4
Fluoranthene	mg/kg (ppm)	0.83	0.046	94	95	50-150	1
Pyrene	mg/kg (ppm)	0.83	0.054	95	94	50-150	1
Benz(a)anthracene	mg/kg (ppm)	0.83	0.025	97	98	50-150	1
Chrysene	mg/kg (ppm)	0.83	0.026	90	92	50-150	2
Benzo(a)pyrene	mg/kg (ppm)	0.83	0.031	99	102	50-150	3
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	0.028	94	95	50-150	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	0.011	94	98	50-150	4
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	0.021	127	114	50-150	11
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.01	101	111	50-150	9
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	0.019	97	106	50-150	9

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.83	87	58-108
2-Methylnaphthalene	mg/kg (ppm)	0.83	87	70-130
1-Methylnaphthalene	mg/kg (ppm)	0.83	87	70-130
Acenaphthylene	mg/kg (ppm)	0.83	101	70-130
Acenaphthene	mg/kg (ppm)	0.83	93	70-130
Fluorene	mg/kg (ppm)	0.83	99	70-130
Phenanthrene	mg/kg (ppm)	0.83	94	70-130
Anthracene	mg/kg (ppm)	0.83	96	70-130
Fluoranthene	mg/kg (ppm)	0.83	100	70-130
Pyrene	mg/kg (ppm)	0.83	99	70-130
Benz(a)anthracene	mg/kg (ppm)	0.83	101	70-130
Chrysene	mg/kg (ppm)	0.83	97	70-130
Benzo(a)pyrene	mg/kg (ppm)	0.83	103	70-130
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	103	70-130
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	96	70-130
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	104	70-130
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	99	70-130
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	98	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/01/21

Date Received: 03/17/21

Project: Renton Firestone 40139-2, F&BI 103339

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 103407-06 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	90	92	44-107	2
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	93	92	38-124	1

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	96	47-158
Aroclor 1260	mg/kg (ppm)	0.25	100	69-147

FRIEDMAN & BRUYA, INC.

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.

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.

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.

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.

103337

Report To

Eric Ziem

Company

Environmental Associates Inc.

Address

1380 112th ave NE #300

City, State, ZIP

Bellevue, WA 98004

Phone

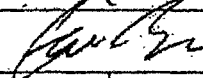
425-453-9025

Email info@environmentalassociatesinc.com

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

SAMPLERS (signature)



Page #

of

4 VS3
805

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

PROJECT NAME

Renton Firestar

PO #

40139-2

REMARKS

3261 92nd ave NE
Bellevue 98004

INVOICE TO

Curt Kruse
Toula Properties LLC

Project specific RIs? - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTFH-Dx	NWTFH-Gx	BTEX EPA 8021	NWTFH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
B11-2.5	01A-C	3-17-21	9:19	Soil	3					X			● - per EZ 3/24/21 ME
B11-10	02		9:24		3					X			
B11-15	03		9:28		3								
B11-20	04		9:38		3					X			
B11	05A-D		10:14	Water	4								● - per EZ 11/15/21 ME
B12-3	06A-C		10:36	Soil	3					X			
B12-10	07		10:34		3					X			
B12-15	08		10:38		3								
B12-20	09		10:57		3								
B12-25	10		11:23		3								

SIGNATURE

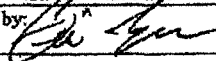
PRINT NAME

COMPANY

DATE

TIME

Relinquished by:



Eric Ziem

EHI

3-17-21

4:50

Received by:



Khoi Hoang

FBI

3-17-21

16:50

Relinquished by:

Received by:

Samples received at

4 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

103339

Report To

Eric Ziem

Company

EAI

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page # 2 of 4 V53

SAMPLERS (signature)

Eric Ziem

PROJECT NAME

Pentou Firestone

PO #

40139-2

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

805

ED 4

W 3

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTFH-Dx	NWTFH-Gx	BTEX EPA 8021	NWTFH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic			
B12-30	11 A-C	3-17-21	11:23	Soil	3					X						
B12	12 A-B		10:45	Water	4											Water
B13-4	13 A-C		11:41	Soil						X						
B13-10	14		11:45													
B13-13	15		11:50							X						
B13-20	16		12:16			X			X							
B13-25	17		12:29													
B13-30	18		12:43													
B13	19 A-D		12:00	Water		X			(X)							Hold per EZ B3 3/18/21 no VOCs
B14-4	20 A-C		1:00	Soil						X						

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Eric Ziem	Eric Ziem	EAI	3-17-21	4:50
Received by: Khai Hoang	Khai Hoang	FBI	3-17-21	16:50
Relinquished by:				
Received by:				

103339

Report To

Eric Zucchi

Company

EAT

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page #

3

of

4 VS3

105

SAMPLERS (signature)

Eric Zucchi

PROJECT NAME

Benton Firestone

PO #

40139-2

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

E 04
VW 3

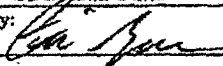

						ANALYSES REQUESTED													
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5	CVol Petroleum	Arsenic	Hydrene	EDS EPA 8210	CRIL	Notes
B14-10	21	3-17-21	1:04	Soil	3		●	●		X					●				✓ - per E2 3/19
B14-12	22		1:13		3	●	●	●		X									ef
B14-15	23		1:10		3		●	●							●				
B14-20	24		1:32		3					X									■ - per E2 4/1/2
B14-25	25		1:44		3														
B14-30	26		2:00		3														
B14	27		1:20	Water	4	X				⊗									Hold volume on B14 per E2 2/10/21 M.C.
B6A-4	28		2:22	Soil	3		●	●							●				
B6A-10	29		2:26		3	X	X	X			✓	✓	✓						
B6A-15	30		2:34		3					X				●	●				

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Eric Zucchi	EAT	3-17-21	4:58
Received by: 	Khoi Hoang	FBI	3-17-21	16:30
Relinquished by:				
Received by:				

103339

Report To

Company

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page #

4 of 4 US3

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B6A-20	31A-C	3-17-21	3:08	Soil	3					X						
B6A-25	32	↓	3:13	↓	3											
B6A-30	33	↓	3:28	↓	3					X						
B6A	34	↓	2:40	Water	4											

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Eric Ziem

Khoi Hoang

EAI

FBI

3-17-21

3-17-21

4:58

16:50

FRIEDMAN & BRUYA, INC.

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

March 24, 2021

Eric Zuern, Project Manager
Environmental Associates, Inc.
1380 112th Ave. NE, 300
Bellevue, WA 98004

Dear Mr Zuern:

Included are the results from the testing of material submitted on March 18, 2021 from the Renton Firestone 40139-2, F&BI 103364 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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
EAI0324R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 18, 2020 by Friedman & Bruya, Inc. from the Environmental Associates Renton Firestone 40139-2, F&BI 103364 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Associates</u>
103364 -01	B15-4
103364 -02	B15-10
103364 -03	B15-15
103364 -04	B15-20
103364 -05	B15-25
103364 -06	B15-30
103364 -07	B15
103364 -08	B16-4
103364 -09	B16-10
103364 -10	B16-15
103364 -11	B16-20
103364 -12	B16-25
103364 -13	B16-30
103364 -14	B16
103364 -15	B17-3
103364 -16	B17-9-10
103364 -17	B17-15
103364 -18	B17-20
103364 -19	B17-25
103364 -20	B17
103364 -21	B18-3
103364 -22	B18-10
103364 -23	B18-15
103364 -24	B18-20
103364 -25	B18-25
103364 -26	B18
103364 -27	B19-3
103364 -28	B19-10
103364 -29	B19-15
103364 -30	B19-20
103364 -31	B19-25
103364 -32	B19

The 8260D matrix spike and matrix spike duplicate exceeded the relative percent difference for methylene chloride. The analyte was not detected in the samples therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

Date Extracted: 03/22/21

Date Analyzed: 03/22/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
B16-4 103364-08	<50	<250	86
B16-10 103364-09	<50	<250	92
B16-15 103364-10	<50	<250	92
B17-3 103364-15	<50	<250	84
B17-9-10 103364-16	<50	<250	82
B17-15 103364-17	<50	<250	92
B18-3 103364-21	<50	<250	83
B18-10 103364-22	<50	<250	81
B18-15 103364-23	<50	<250	92
B19-3 103364-27	<50	<250	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

Date Extracted: 03/22/21

Date Analyzed: 03/22/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
B19-10 103364-28	<50	<250	83
B19-15 103364-29	<50	<250	90
Method Blank 01-703 MB	<50	<250	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

Date Extracted: 03/19/21

Date Analyzed: 03/19/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
B15 103364-07	130 x	<250	81
B16 103364-14	79 x	<250	39
B17 103364-20	86 x	<250	90
B18 103364-26	62 x	<250	106
B19 103364-32	<53	<260	46
Method Blank 01-702 MB	<50	<250	105

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B15-4	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-01
Date Analyzed:	03/19/21	Data File:	031914.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B15-10	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-02
Date Analyzed:	03/19/21	Data File:	031915.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B15-25	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-05
Date Analyzed:	03/19/21	Data File:	031916.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B16-4	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-08
Date Analyzed:	03/19/21	Data File:	031917.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B16-10	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-09
Date Analyzed:	03/19/21	Data File:	031918.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B16-25	Client:	Environmental Associates
Date Received:	03/18/21	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	103364-12
Date Analyzed:	03/19/21	Data File:	031919.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2
Date Extracted:	03/19/21	Lab ID:	01-643 mb
Date Analyzed:	03/19/21	Data File:	031909.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109 vo	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.05
Chloroethane	<0.5
1,1-Dichloroethene	<0.05
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.05
1,1-Dichloroethane	<0.05
cis-1,2-Dichloroethene	<0.05
1,2-Dichloroethane (EDC)	<0.05
1,1,1-Trichloroethane	<0.05
Trichloroethene	<0.02
Tetrachloroethene	<0.025

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 103364-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	94	73-135	14

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	112	124	63-142	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/24/21

Date Received: 03/18/21

Project: Renton Firestone 40139-2, F&BI 103364

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 103364-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	24	27	10-138	12
Chloroethane	mg/kg (ppm)	1	<0.5	34	40	10-176	16
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	41	46	10-160	11
Methylene chloride	mg/kg (ppm)	1	<0.5	53	70	10-156	28 vo
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	45	51	14-137	12
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	48	57	19-140	17
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	51	61	25-135	18
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	55	66	12-160	18
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	47	56	10-156	17
Trichloroethene	mg/kg (ppm)	1	<0.02	83	88	21-139	6
Tetrachloroethene	mg/kg (ppm)	1	<0.025	52	61	20-133	16

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	63	22-139
Chloroethane	mg/kg (ppm)	1	70	9-163
1,1-Dichloroethene	mg/kg (ppm)	1	89	47-128
Methylene chloride	mg/kg (ppm)	1	102	10-184
trans-1,2-Dichloroethene	mg/kg (ppm)	1	89	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	90	68-115
cis-1,2-Dichloroethene	mg/kg (ppm)	1	91	72-127
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	98	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	91	62-131
Trichloroethene	mg/kg (ppm)	1	93	63-121
Tetrachloroethene	mg/kg (ppm)	1	101	72-114

FRIEDMAN & BRUYA, INC.

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.
- 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.
- 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.
- 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.

103364

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3/E04/B03/AL3/VW1
Page # 1 of 1

Report To

Eric Ziem

Company

Environmental Associates Inc.

Address

1380 112th ave NE #300

City, State, ZIP

Bellevue, WA 98004

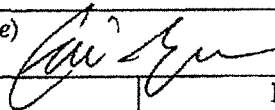
Phone

425-455-9025

Email

info@environmental-associates.com

SAMPLERS (signature)



PROJECT NAME

Penton Firestone

PO #

4039-2

REMARKS

INVOICE TO

Tola p 300
- same as prev. sub.
under P011

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days


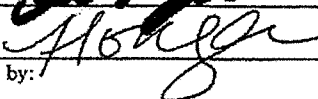
						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	CHLORIDES EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B15-4	01A-C	3-18-21	8:52	Soil	3					X						
B15-10	02		8:56		3					X						
B15-15	03		9:00		3											
B15-20	04		9:18		3											
B15-25	05		9:30		3					X						
B15-30	06		9:45		3											
B15	07A-D		9:08	Water	4	X										
B16-4	08A-C		10:04	Soil	3	X				X						
B16-10	09		10:08		3	X				X						
B16-15	10		10:15		3	X										

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Eric Ziem	EAC	3-18-21	3:45
Received by: 	HONG NGUYEN	FBI		
Relinquished by:				
Received by:				
Samples received at 4 °C				

Report to 103364 Eric Zuern
 Company EAI
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3 / E04 / B03 / A13 / Vw1
 Page # 2 of 4

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME <u>Renton Firestone</u>	PO # <u>4039-2</u>
REMARKS	INVOICE TO
Project specific RLs? - Yes / No	

TURNAROUND TIME <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by:
SAMPLE DISPOSAL <input type="checkbox"/> Archive samples <input type="checkbox"/> Other Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	Chlorinated VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B16-20	11 A-C	3-18-21	10:46	Soil	3											
B16-25	12		10:53		3					X						
B16-30	13		11:07		3											
B16	14 A-F		10:25	Water	6	X										
B17-3	15 A-C		11:31	Soil	3	X										
B17-9-10	16		11:35		3	X										
B17-15	17		11:40		3	X										
B17-20	18		12:04		3											
B17-25	19		12:18		3											
B17	20 A-E		11:50	Water	5	X										

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Eric Zuern</u>	<u>EAI</u>	<u>3-18-21</u>	<u>3:45</u>
Received by: <u>[Signature]</u>	<u>HONG NGUYEN</u>	<u>FBI</u>		
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

103364
 Report To ERIC ZUEN
 Company EAT
 Address _____
 City, State, ZIP _____
 Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

03-18-21

V53 / E04 / B03 / A13 / VV1
 Page # 1 of 1

SAMPLERS (signature) <u>Eric Zuen</u>	
PROJECT NAME <u>Renton Firestone</u>	PO # <u>40139-2</u>
REMARKS	INVOICE TO
Project specific RLs? - Yes / No	

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard turnaround	
<input type="checkbox"/> RUSH	
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Archive samples	
<input type="checkbox"/> Other _____	
Default: Dispose after 30 days	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B18-3	21 AC	3-18-21	12:33	Soil	3	X										
B18-10	22		12:37		3	X										
B18-15	23		12:42		3	X										
B18-20	24		1:08		3											
B18-25	25 ✓		1:24	↓	3											
B18	26 A-F		12:50	Water	6	X										
B19-3	27 AC		1:35	Soil	3	X										
B19-10	28		1:40	↓	3	X										
B19-15	29		1:44	↓	3	X										
B19-20	30		2:10	↓	3											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Eric Zuen</u>	<u>Eric Zuen</u>	<u>EAT</u>	<u>3-18-21</u>	<u>3:45</u>
Received by: <u>HONG NGUYEN</u>	<u>HONG NGUYEN</u>	<u>FMT</u>	<u>✓</u>	<u>✓</u>
Relinquished by: _____				
Received by: _____				
Samples received at <u>4</u> °C				

103364

SAMPLE CHAIN OF CUSTODY

03-18-21

VS3/EO4/4 BOS/AL53/1/1W2
Page # of

Report To

Eric Zuern

Company

EAI

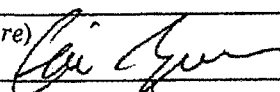
Address

City, State, ZIP

Phone

Email

SAMPLERS (signature)



PROJECT NAME

Penton Firestone

PO #

4039-2

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days



Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082					
B19-25	31AC	3-18-21	2:24	Soil	3												
B19	32A-E	↓	1:50	Water	5	X											

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	ERIC ZUERN	EAI	3-18-21	3:45
Received by: 	HONG NGUYEN	FBI	✓	✓
Relinquished by:				
Received by:		Samples received at	4 °C	

FRIEDMAN & BRUYA, INC.

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

March 29, 2021

Eric Zuern, Project Manager
Environmental Associates, Inc.
1380 112th Ave. NE, 300
Bellevue, WA 98004

Dear Mr Zuern:

Included are the results from the testing of material submitted on March 19, 2021 from the Renton Firestone 40139-2, F&BI 103389 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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
EAI0329R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 19, 2021 by Friedman & Bruya, Inc. from the Environmental Associates Renton Firestone 40139-2, F&BI 103389 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Environmental Associates</u>
103389 -01	B7A
103389 -02	B20-2
103389 -03	B20-6
103389 -04	B20-9-10
103389 -05	B20-14
103389 -06	B20-18
103389 -07	B20

A 6020B internal standard failed the acceptance criteria for sample B7A. The sample was diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

Date Extracted: 03/22/21

Date Analyzed: 03/22/21

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
B20-6 103389-03	<50	<250	94
B20-9-10 103389-04	<50	<250	96
B20-14 103389-05	<50	<250	93
Method Blank 01-710 MB	<50	<250	95

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

Date Extracted: 03/22/21

Date Analyzed: 03/22/21

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx
Results Reported as ug/L (ppb)**

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
B20	<50	<250	81
103389-07			
Method Blank	<50	<250	115
01-706 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B7A f	Client:	Environmental Associates
Date Received:	03/19/21	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/25/21	Lab ID:	103389-01
Date Analyzed:	03/25/21	Data File:	103389-01.108
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.89
Cadmium	<1
Chromium	<1 J
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B7A f	Client:	Environmental Associates
Date Received:	03/19/21	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/25/21	Lab ID:	103389-01 x10
Date Analyzed:	03/26/21	Data File:	103389-01 x10.053
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Chromium	<10
----------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank f	Client:	Environmental Associates
Date Received:	NA	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/25/21	Lab ID:	I1-191 mb
Date Analyzed:	03/25/21	Data File:	I1-191 mb.106
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	B7A	Client:	Environmental Associates
Date Received:	03/19/21	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/22/21	Lab ID:	103389-01 1/2
Date Analyzed:	03/22/21	Data File:	032214.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	36	15	99
Phenol-d6	30	11	65
Nitrobenzene-d5	95	10	145
2-Fluorobiphenyl	96	16	138
2,4,6-Tribromophenol	90	12	132
Terphenyl-d14	94	35	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
1-Methylnaphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	1.4 <i>646</i>
Phenanthrene	2.9 <i>NA</i>
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	1.9 <i>180</i>
Benz(a)anthracene	<0.04
Chrysene	0.61
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.08

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/22/21	Lab ID:	01-709 mb
Date Analyzed:	03/22/21	Data File:	032207.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	23	15	99
Phenol-d6	16	11	65
Nitrobenzene-d5	101	10	145
2-Fluorobiphenyl	93	16	138
2,4,6-Tribromophenol	62	12	132
Terphenyl-d14	97	35	138

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
2-Methylnaphthalene	<0.2
1-Methylnaphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B7A	Client:	Environmental Associates
Date Received:	03/19/21	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/23/21	Lab ID:	103389-01
Date Analyzed:	03/24/21	Data File:	032411.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower	Upper
TCMX	40	Limit:	Limit:
		25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2, F&BI 103389
Date Extracted:	03/23/21	Lab ID:	01-714 mb
Date Analyzed:	03/24/21	Data File:	032408.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower	Upper
TCMX	43	Limit:	Limit:
		25	160

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 103390-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	88	64-133	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	58-147

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	116	112	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 103389-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<10	91	92	75-125	1
Cadmium	ug/L (ppb)	5	<10	99	97	75-125	2
Chromium	ug/L (ppb)	20	<10	89	90	75-125	1
Lead	ug/L (ppb)	10	<10	93	92	75-125	1
Mercury	ug/L (ppb)	5	<10	91	92	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	91	80-120
Cadmium	ug/L (ppb)	5	99	80-120
Chromium	ug/L (ppb)	20	97	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	99	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	5	79	78	56-100	1
2-Methylnaphthalene	ug/L (ppb)	5	81	81	60-104	0
1-Methylnaphthalene	ug/L (ppb)	5	80	81	60-104	1
Acenaphthylene	ug/L (ppb)	5	100	99	70-130	1
Acenaphthene	ug/L (ppb)	5	91	90	65-122	1
Fluorene	ug/L (ppb)	5	86	87	70-130	1
Phenanthrene	ug/L (ppb)	5	89	89	70-130	0
Anthracene	ug/L (ppb)	5	93	93	70-130	0
Fluoranthene	ug/L (ppb)	5	103	104	70-130	1
Pyrene	ug/L (ppb)	5	102	99	70-130	3
Benz(a)anthracene	ug/L (ppb)	5	98	97	70-130	1
Chrysene	ug/L (ppb)	5	93	93	70-130	0
Benzo(a)pyrene	ug/L (ppb)	5	91	92	70-130	1
Benzo(b)fluoranthene	ug/L (ppb)	5	97	99	70-130	2
Benzo(k)fluoranthene	ug/L (ppb)	5	96	96	70-130	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	5	101	99	57-141	2
Dibenz(a,h)anthracene	ug/L (ppb)	5	98	95	57-137	3
Benzo(g,h,i)perylene	ug/L (ppb)	5	96	92	50-143	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/29/21

Date Received: 03/19/21

Project: Renton Firestone 40139-2, F&BI 103389

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	65	62	25-165	5
Aroclor 1260	ug/L (ppb)	0.25	82	76	25-163	8

FRIEDMAN & BRUYA, INC.

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.

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.

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.

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.

Phone 475-455-9025 Email info@environmental
associatesinc.com

ME 03-19-21

 yw^2

Project specific RLs? - Yes / No

40139-2



Toula Prop
same as prev submitter
under PO #

Rush charges authorized by:

Default: Dispose after 30 days

Samples received at 4 °C

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Eric Zorn	EAE	3-19-21	3:33
Received by: 	Eric Zorn	F.B	3/19/21	1533
Relinquished by:				
Received by:				

DRAFT

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B6A-10 ht	Client:	Environmental Associates
Date Received:	03/17/21	Project:	Renton Firestone 40139-2, F&BI 103339
Date Extracted:	04/01/21	Lab ID:	103339-29
Date Analyzed:	04/01/21 12:37	Data File:	040113.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Hexane	<0.25
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dibromoethane (EDB)	<0.05
1,2-Dichloroethane (EDC)	<0.05

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Environmental Associates
Date Received:	Not Applicable	Project:	Renton Firestone 40139-2, F&BI 103339
Date Extracted:	04/01/21	Lab ID:	01-679 mb
Date Analyzed:	04/01/21	Data File:	040110.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Hexane	<0.25
Methyl t-butyl ether (MTBE)	<0.05
1,2-Dibromoethane (EDB)	<0.05
1,2-Dichloroethane (EDC)	<0.05

103337

Report To

Eric Ziem

Company

Environmental Associates Inc.

Address

1386 112th ave NE #300

City, State, ZIP

Bellevue, WA 98004

Phone

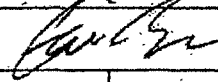
425-453-9025

Email: eric@environmentalassociatesinc.com

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

SAMPLERS (signature)



Page # 1 of 4

J53
BDS

PROJECT NAME

Repton Firestone

PO #

40139-2

REMARKS

3861 92nd ave NE
Bellevue 98004

INVOICE TO

Cort Kruse
Toula Properties LLC

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTFH-Dx	NWTFH-Gx	BTEX EPA 8021	NWTFH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B11-2.5	01 A-C	3-17-21	9:19	Soil	3					X						• - per EZ 3/24/21 ME
B11-10	02		9:24		3					X						
B11-15	03		9:28		3											
B11-20	04		9:38		3					X						
B11	05 A-D		10:14	Water	4											11/11/21 3/24/21 ME
B12-3	06 A-C		10:36	Soil	3					X						
B12-10	07		10:34		3					X						
B12-15	08		10:38		3											
B12-20	09		10:57		3											
B12-25	10		11:23		3											

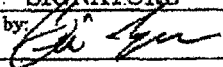

K^P

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Eric Ziem	EA	3-17-21	4:50
Received by: 	Khoi Hoang	FBI	3-17-21	16:50
Relinquished by:		Samples received at	4	00
Received by:				

103339

Report To

Eric Ziem

Company

EAI

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page # 2 of 4 VS3

SAMPLERS (signature)

Eric Ziem

PROJECT NAME

Pentou Firestone

PO #

40139-2

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTFH-Dx	NWTFH-Gx	BTEX EPA 8021	NWTFH-HCID	Chlorinated VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic			
B12-30	11 A-X	3-17-21	11:23	Soil	3					X						
B12	12 A-B		10:45	Water	4											Hold per E2 B3 3/18/21 ac VOCs
B13-4	13 A-X		11:41	Soil						X						
B13-16	14		11:45													
B13-13	15		11:50							X						
B13-20	16		12:16			X				X						
B13-25	17		12:29													
B13-30	18		12:43													
B13	19 A-D		12:00	Water		X				(X)						Hold per E2 B3 3/18/21 ac VOCs
B14-4	20 A-L		1:00	Soil						X						

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Eric Ziem	Eric Ziem	EAI	3-17-21	4:50
Received by: Khai Hoang	Khai Hoang	FBI	3-17-21	16:50
Relinquished by:				
Received by:				

103339

Report To

Company

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page #

3

of

4

VS3

105

E 04

VW3

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED												Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTGA	SV	Cvoc Permeth	Arsonic	Hgane	
B14-10	21	3-17-21	1:04	Soil	3		●	●		X						●		✓ per E2 3/19
B14-12	22		1:13		3	●	●	●		X								ef
B14-15	23		1:10		3		●	●								●		
B14-20	24		1:32		3					X								■ - per E2 4/1/21 ME
B14-25	25		1:44		3													
B14-30	26		2:00		3													
B14	27		1:20	Water	4	X			⊗									Hold vol on B14 per E2 3/18/21 ME
BGA-4	28		2:22	Soil	3		●	●								●		
BGA-10	29		2:26		3	X	X	X			✓	✓	✓			●	●	
BGA-15	30		2:34		3					X					●	●		

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Eric Ziem

Khoi Hoang

EAI

FBI

3-17-21

3-17-21

4:58

16:30

103339

Report To

Company

Address

City, State, ZIP

Phone

Email

SAMPLE CHAIN OF CUSTODY

ME 03-17-21

Page #

4 of 4 US3

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME

☒ Standard turnaround☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples☐ Other

Default: Dispose after 30 days

						ANALYSES REQUESTED										Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082				
B6A-20	31A-C	3-17-21	3:08	Soil	3					X						
B6A-25	32	↓	3:13	↓	3											
B6A-30	33	↓	3:28	↓	3					X						
B6A	34	↓	2:40	Water	4											

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Khoi Hoang

FBI

3-17-21

4:58

3-17-21

16:50



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 103339
Work Order Number: 2104013

April 08, 2021

Attention Michael Erdahl:

Fremont Analytical, Inc. received 1 sample(s) on 4/1/2021 for the analyses presented in the following report.

Hexavalent Chromium by EPA Method 7196
Sample Moisture (Percent Moisture)

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,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com



Fremont
Analytical

Date: 04/08/2021

CLIENT: Friedman & Bruya
Project: 103339
Work Order: 2104013

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2104013-001	B6A-10	03/17/2021 2:26 PM	04/01/2021 11:59 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



CLIENT: Friedman & Bruya
Project: 103339

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. 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 and the MS/MSD 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.

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
- 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
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Fremont
Analytical

Analytical Report

Work Order: 2104013
Date Reported: 4/8/2021

Client: Friedman & Bruya
Project: 103339
Lab ID: 2104013-001
Client Sample ID: B6A-10

Collection Date: 3/17/2021 2:26:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R66294	Analyst: CH	
Percent Moisture	25.7	0.500		wt%	1	4/1/2021 4:53:47 PM
<u>Hexavalent Chromium by EPA Method 7196</u>				Batch ID: 31887	Analyst: LB	
Chromium, Hexavalent	ND	0.663		mg/Kg-dry	1	4/6/2021 3:57:00 PM



Work Order: 2104013
 CLIENT: Friedman & Bruya
 Project: 103339

QC SUMMARY REPORT

Hexavalent Chromium by EPA Method 7196

Sample ID: MB-31887	SampType: MBLK	Units: mg/Kg	Prep Date: 4/6/2021	RunNo: 66436							
Client ID: MBLKS	Batch ID: 31887		Analysis Date: 4/6/2021	SeqNo: 1336765							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent ND 0.500

Sample ID: LCS-31887	SampType: LCS	Units: mg/Kg				Prep Date: 4/6/2021				RunNo: 66436		
Client ID: LCSS	Batch ID: 31887					Analysis Date: 4/6/2021				SeqNo: 1336766		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Chromium, Hexavalent ND 0.500 0.5000 0 97.6 86.5 114

Sample ID: 2104013-001ADUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 4/6/2021			RunNo: 66436			
Client ID: B6A-10	Batch ID: 31887	Analysis Date: 4/6/2021						SeqNo: 1336768			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent ND 0.670 0 30

Sample ID: 2104013-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 4/6/2021			RunNo: 66436		
Client ID: B6A-10	Batch ID: 31887	Analysis Date: 4/6/2021						SeqNo: 1336769			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent ND 0.673 0.6726 0.1327 -19.7 6.79 138 S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample ID: 2104013-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/6/2021	RunNo: 66436							
Client ID: B6A-10	Batch ID: 31887		Analysis Date: 4/6/2021	SeqNo: 1336770							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium, Hexavalent 0.389 0.673 0.6726 0.1327 38.1 6.79 138 0 30



Sample Log-In Check List

Client Name: **FB**
 Logged by: **Gabrielle Coeuille**

Work Order Number: **2104013**
 Date Received: **4/1/2021 11:59:00 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 ☐
No cooler present
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
 (Refer to comments for Custody Seals not intact)
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >2°C to 6°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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.9

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

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2104013

Page # 1 of 1

Send Report To Michael ErdahlCompany Friedman and Bruya, Inc.Address 3012 16th Ave WCity, State, ZIP Seattle, WA 98119Phone # (206) 285-8282 merdahl@friedmanandbruya.com


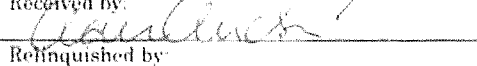
SUBCONTRACTER <u>Fremont</u>	
PROJECT NAME/NO. <u>103339</u>	PO # <u>B-203</u>
REMARKS <u>Please Email Results</u>	

TURNAROUND TIME	
<input checked="" type="checkbox"/> Standard TAT	
<input type="checkbox"/> RUSH	
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Dispose after 30 days	
<input type="checkbox"/> Return samples	
<input type="checkbox"/> Will call with instructions	

Page 8 of 8

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED										Notes
						Dioxins/Furans	EPH	VPH	C ₂ VI							
S6A-10		3/17/21	1426	Soil	1				⊗							

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	4/1/21	1100AM
Received by: 	Michael Erdahl	FBI	4/1/21	1150P
Relinquished by:				
Received by:				