Industrial Hygiene Assessment Report

Client:
City of Portland - Portland Parks & Recreation
1120 SW Fifth Avenue, Suite 1302
Portland, Oregon 97204

Project:
Portland International Raceway
1940 North Victory Boulevard
Portland, Oregon 97217

G2 Project #: 10159-38

October 5, 2017

Prepared By:
G2 Consultants, Inc.
16869 SW 65th Avenue, #15
Lake Oswego, Oregon 97035
www.g2ci.com
CCB #188682
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1.0 SUMMARY

G2 Consultants, Inc. (G2) conducted industrial hygiene sampling at the Portland International Raceway (PIR) located at 1940 North Victory Boulevard in Portland, Oregon. Matt Harper and Bob Rouse of G2 conducted the site work on July 28 and August 11, 2017 at the direction of Eileen Argentina, Recreation Services Division Manager with City of Portland, Portland Parks & Recreation (PP&R). The purpose of the industrial hygiene assessment was to determine ambient airborne concentrations of lead during two automotive events held at PIR. A summary of the results are as follows:

Industrial Hygiene Assessment Summary

- Sampling indicated that concentrations of airborne lead were detected in multiple locations during both automotive events. The highest concentration of lead was detected at the track’s SW grandstand during the second event (SCCA Track Night in America). Lead was detected at the pre-grid area and at the PIR office roof patio during both events held on July 28 and August 11, 2017. No lead was observed at turn 11 or the south perimeter of the PIR property during either event.

- Results of the sampling were all below the Oregon Occupational Safety and Health Division (OR-OSHA) regulatory Action Level (AL) (30 µg/m$^3$) and Permissible Exposure Limit (PEL) (50 µg/m$^3$), as well as the American Conference of Governmental Industrial Hygienists (ACGIH) recommended Threshold Limit Value (TLV) (50 µg/m$^3$). These limits and values correlate to 8-hour time-weighted average (TWA) personal occupational exposures, not ambient airborne concentrations, but are provided for reference because no short-term ambient thresholds are available that can be applied in this sampling scenario.

2.0 BACKGROUND INFORMATION AND OBSERVATIONS

PP&R retained G2 to conduct two industrial hygiene assessments that included area monitoring for lead during events held at PIR. PIR is situated in North Portland, approximately a half mile north of the Kenton neighborhood. Approximately 550 event days are held annually at PIR, many of which are automotive events, but the site also hosts numerous running events, swap meets, bicycle and motocross racing competitions.

The purpose of G2’s assessments was to assist PP&R with determining airborne lead concentrations in multiple locations around PIR during an event where participates might use leaded fuel or additives in their vehicles. Sampling during the SVRA Portland Vintage Racing Festival on July 28, 2017 was conducted because many of the older vehicles participating in this four day festival require leaded additives or fuel to function properly. The United States Environmental Protection Agency (EPA) banned leaded fuel for on-road vehicles in 1996 as part of the Clean Air Act. However, lead can still be found legally in high octane racing, diesel and aviation fuels. Some high performance and/or vintage vehicle engines require small amounts of lead in the fuel to function at optimal conditions. PP&R signage regarding leaded gas usage at the track were observed in multiple locations throughout the PIR property.
Based on conversations with the PIR manager, there are typically only one or two vintage car events that are held at PIR during a three month period. The track closed for the winter around Thanksgiving and reopens again in mid Spring.

G2 also conducted air sampling for lead on August 11, 2017 during a SCCA Track Night in America event, which members of the public are allowed to bring any street legal vehicle to PIR to race around the track. Sampling was performed to determine the difference in airborne lead concentrations between an event where leaded fuel was likely to be present versus not. Many of the vehicles that commonly participate in the SCCA Track Night in America events are generally new and do not require leaded fuel, nor can they be classified as race cars, a limitation that was not in place for the SVRA Portland Vintage Racing Festival.

Area sampling during both events was conducted at the PIR office roof patio, the pre-grid area, south property line and turn 11. Turn 7 was evaluated during the vintage car festival, however this area was not accessible during the second site visit because a fun run event was scheduled to use the west side of PIR the following morning, and the event crew was setting up the area while G2 was onsite. Given this situation, the turn 7 sample was relocated to the SW grandstand, near the track's chicane during the second sampling event.

### 3.0 CONCLUSIONS

#### Lead Area Monitoring Results

The results of the two sampling assessments indicated that lead was present in the samples collected from the PIR office roof patio and pre-grid area during both events. Additionally, lead was detected on the sample collected from the SW grandstands during the SCCA Track Night in America event.

Based on the data collected, a definitive source(s) of the observed airborne lead can not be determined since lead was present during both the vintage car festival and the track night event. Other potential sources of lead beyond leaded fuel from vehicles on the track could potentially be contributing to the observed concentrations of airborne lead at this site. Other factors include, but may not be limited to the adjacent freeway located east of PIR, nearby industrial sources and/or re-entrainment from previous contamination events on the site. Further air quality modeling and source analysis activities would need to be performed to more accurately determine the source(s) of observed airborne lead.

The results of the monitoring are shown on the following page in Tables One - Two. Additional details regarding the sampling methodology can be found in Section 5.0 of this report.
Table One
Air Monitoring Results for Lead - July 28, 2017

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Location</th>
<th>Sample Duration (Mins)</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>072817-Pb1</td>
<td>PIR Office Roof Patio</td>
<td>441</td>
<td>0.64</td>
</tr>
<tr>
<td>072817-Pb2</td>
<td>Pre-Grid</td>
<td>412</td>
<td>0.73</td>
</tr>
<tr>
<td>072817-Pb3</td>
<td>Turn 11</td>
<td>400</td>
<td>&lt;0.47</td>
</tr>
<tr>
<td>072817-Pb4</td>
<td>South Property Line</td>
<td>370</td>
<td>&lt;0.51</td>
</tr>
<tr>
<td>072817-Pb5</td>
<td>Turn 7</td>
<td>349</td>
<td>&lt;0.54</td>
</tr>
</tbody>
</table>

OR-OSHA PEL - 50 µg/m³
OR-OSHA AL - 30 µg/m³
ACGIH TLV - 50 µg/m³

µg/m³ - micrograms per cubic meter
PEL - Permissible Exposure Limit
AL - Action Level
TLV - Threshold Limit Value
< - Less than the laboratory’s level of detection

Table Two
Air Monitoring Results for Lead - August 11, 2017

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Location</th>
<th>Sample Duration (Mins)</th>
<th>Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>081117-Pb1</td>
<td>PIR Office Roof Patio</td>
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</tr>
<tr>
<td>081117-Pb2</td>
<td>Pre-Grid</td>
<td>215</td>
<td>0.22</td>
</tr>
<tr>
<td>081117-Pb3</td>
<td>Turn 11</td>
<td>199</td>
<td>&lt;0.19</td>
</tr>
<tr>
<td>081117-Pb4</td>
<td>South Property Line</td>
<td>240</td>
<td>&lt;0.16</td>
</tr>
<tr>
<td>081117-Pb5</td>
<td>SW Grandstands</td>
<td>239</td>
<td>0.97</td>
</tr>
</tbody>
</table>

OR-OSHA PEL - 50 µg/m³
OR-OSHA AL - 30 µg/m³
ACGIH TLV - 50 µg/m³

µg/m³ - micrograms per cubic meter
PEL - Permissible Exposure Limit
AL - Action Level
TLV - Threshold Limit Value
< - Less than the laboratory’s level of detection

Results of this industrial hygiene assessment are compared to regulated and recommended occupational standards established by the OR-OSHA and the ACGIH, which are based on 8-hour TWAs.

The scope of this assessment was to determine airborne lead concentrations at multiple areas during these two events. Additional personal monitoring would need to be performed to determine precise occupational lead exposures to PP&R employees. However, the OR-OSHA and ACGIH
occupational exposure limits are provided for reference purposes because there is no ambient airborne limit for lead in the occupational environment. The highest lead concentration, 0.97 µg/m$^3$, was observed at the SW Grandstands during the August 11, 2017 event. For comparison purposes, the OR-OSHA AL and PEL for lead is 30 µg/m$^3$ and 50 µg/m$^3$. The ACGIH TLV for lead is also 50 µg/m$^3$.

Multiple samples had non-detectable levels of lead, meaning the actual results were below the laboratory’s level of detection. The method detection limit is the minimum concentration that an analyte, that in a given matrix and with an specific analytical method can be identified or measured and reported to be greater than zero.

The EPA does have a National Ambient Air Quality Standard (NAAQS) for lead, but it is a three month, not-to-exceed, rolling average value. Data collected during these two short-term events (approximately 4-6.5 hours) can not be extrapolated and compared to this three month threshold value. Additional long-term ambient lead modeling and data collection would need to be performed to compare results to this NAAQS.

### 4.0 RESULTS & RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Recommendation #</th>
<th>Results Summary and Associated Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10159-38-1</td>
<td>The results of this assessment indicate that detectable concentrations of lead were observed at the PIR roof office patio and pre-grid area during both sampling events, as well as SW grandstand during the second event. Non-detectable concentrations of lead were observed at turn 11 and the south property line during both events, and turn 7 during the first event. Regardless, all results were well below the regulatory exposure limits established by OR-OSHA and recommended by the ACGIH. Further ambient air quality studies would be necessary to evaluate the lead concentrations at PIR compared to the EPA NAAQS.</td>
</tr>
<tr>
<td>10159-38-2</td>
<td>Share the findings on this assessment with PP&amp;R employees, members of the public or anyone else that may have a vested interest in the findings from these sampling events. Continue to provide PP&amp;R employees and PIR visitors with educational resources, signage and information pertaining to the use of leaded fuel at racetracks.</td>
</tr>
</tbody>
</table>

### 5.0 METHODS

**Lead Area Monitoring**

The collection of airborne lead samples was performed using unweighted mixed cellulose ester (MCE) 37 millimeter (mm) filters. The sampling trains were attached to personal sampling pumps, and were pre and post calibrated to 2.0 liters per minute (LPM) to ensure accurate flow rates and sample volumes. Laboratory analysis was performed using modified NIOSH 7300/modified OSHA ID-125G; Inductively Coupled Plasma (ICP) or ICP/Mass Spectrometry (MS) methods. The ICP/MS method has
a slightly lower limit of detection compared to the standalone ICP method, but both will accurately provide results well below the occupational exposure limits listed in Section 3.0.

All samples were submitted to SGS Galson Laboratories in East Syracuse, New York. This laboratory is accredited by the American Industrial Hygiene Association (AIHA).

6.0 LIMITATIONS

The purpose of the environmental assessment is to identify potentially hazardous conditions, and assist with general compliance with applicable safety and health standards. Hazardous conditions which are not visibly apparent or accessible during the assessment are beyond the scope of this investigation.

This report is created to assist the client with administering their company policies and procedures and provide general direction and assistance with OR-OSHA compliance, industry best practices, or a combination of both. If exposures are measured and identified in this report, it is the express responsibility of the client to communicate those hazards and respond appropriately. It is not G2’s responsibility to ensure that the client is in compliance with all applicable local, state, and federal regulations. This report has been created at the express request of City of Portland, PP&R.

G2 conducted this industrial hygiene exposure assessment following industry best practices. The protocols used are consistent with those exercised by other reputable industrial hygiene consultants and based on current industry standards on projects of similar scope. No warranty, representation, or guarantee, express or implied, is included or intended in this report.

Respectfully Submitted and Reviewed By:

Matt Harper, CIH, CSP
Sr. Project Manager
G2 Consultants, Inc.

Dan Rouse, CMC, CIEC
Principal
G2 Consultants, Inc.
Appendix A:

Analytical Lab Reports & Chain of Custody
Mr. Matt Harper
G2 Consultants Inc.
16869 SW 65th Ave., #15
Lake Oswego, OR 97035

August 08, 2017

DOH ELAP #11626  Account# 22232  Login# L414441
AIHA-LAP #100324

Dear Mr. Harper:

Enclosed are the analytical results for the samples received by our laboratory on August 02, 2017. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

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

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

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

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world’s leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.
**LABORATORY ANALYSIS REPORT**

Client : G2 Consultants Inc.  
Account No.: 22232  
Login No. : L414441

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

**Lead**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Air Vol</th>
<th>Total</th>
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<td>L414441-1</td>
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**COMMENTS:** Please see attached lab footnote report for any applicable footnotes.

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<td>Date: 08-AUG-17</td>
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<td>kg -Kilograms</td>
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<tr>
<td>m3 -Cubic Meters</td>
<td>NA -Not Applicable</td>
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<tr>
<td>kg -Kilograms</td>
<td>ND -Not Detected</td>
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<tr>
<td>l -Liters</td>
<td>NS -Not Specified</td>
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<tr>
<td>ppm -Parts per Million</td>
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< -Less Than  
> -Greater Than
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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

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

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

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

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

L414441 (Report ID: 1011626):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-9(32), im-mwvfilt(28)

L414441 (Report ID: 1011626):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

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<th>Parameter</th>
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<td>100%</td>
</tr>
</tbody>
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< - Less Than  
> - Greater Than

mg - Milligrams  
m3 - Cubic Meters  
kg - Kilograms  
ppm - Parts per Million
ug - Micrograms  
l - Liters  
NS - Not Specified  
ND - Not Detected  
NA - Not Applicable
**GALSON CHAIN OF CUSTODY**

**Turn Around Time (TAT):** [x] Standard 0%

- **4 Business Days** 35%
- **3 Business Days** 50%
- **2 Business Days** 75%
- **Next Day by 6pm** 100%
- **Next Day by Noon** 150%
- **Same Day** 200%

- **Client Acct No.** 22232
- **Company Name** G2 Consultants Inc.
- **Address 1** 16869 SW 65th Ave., #13
- **City, State Zip** Lake Oswego, OR 97035
- **Phone No.** 503 - 601 - 9545

- **Email reports to:** matth@g2ci.com, labresults@g2ci.com
- **Email EDD to:** matth@g2ci.com, labresults@g2ci.com

- **Invoice To:** Mr. Matt Harper
- **Company Name** G2 Consultants Inc.
- **Address 1** 16869 SW 65th Ave., #13
- **City, State Zip** Lake Oswego, OR 97035
- **Phone No.** 503 - 601 - 9545
- **Email Address** acctingun@comcast.net, matth@g2ci.com
- **Comments:**

**Comments:**

- **Sample submitted using the FreePumpLoan™ Program**
- **Samples submitted using the FreeSamplingBadges™ Program**

**Online COC No.:** 131576

**Site Name:** PR

**Site Sampled:** Please indicate which OEL(s) this data will be used for:
- OSHA PEL
- CGH TLV
- MSHA
- Cal OSHA
- IAQ
- Other

**Specify Limit(s):** Specify Other

**Project:** 10159-3B

**Sampled By:** Matt Harper

**List description of industry or process/interferences present in sampling area:**

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<th>Sample Time</th>
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<th>Minutes</th>
<th>Analysis Requested</th>
<th>Method Reference ^</th>
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<td>Lead (air)</td>
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<td></td>
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</tr>
<tr>
<td>072817-7b2</td>
<td>7/28/17</td>
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</tr>
</tbody>
</table>

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

**Chain of Custody:**

- **Relinquished By:** Matt Harper
- **Print Name / Signature:**
  - **Date:** 7/28/17
  - **Time:** 17:10
  - **Received By:** Kris Stone
  - **Print Name / Signature:**
  - **Date:** 8/20/17
  - **Time:** 10:50

**Online COC No.:** 131576

**Prep No.:** PCA435959

**Account No.:** 22232

**Graft:** 7/21/2017 5:42:12 PM

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

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

---

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<table>
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<tr>
<th>Sample ID * (Maximum of 20 Characters)</th>
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<th>Sample Volume Sample Time Sample Area *</th>
<th>Litters Minutes in³, cm³, ft³ *</th>
<th>Analysis Requested</th>
<th>Method Reference ^</th>
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<td>072817-Pb4</td>
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</tr>
<tr>
<td>072817-Pb5</td>
<td></td>
<td>37mm UW MCE, 3pc</td>
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</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

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

Chain of Custody

Relinquished By: [Signature]
Date: 7/28/17 15:10

Received By: Kris Stone [Signature]

Date: 8/1/17 10:50

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

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

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Mr. Matt Harper  
G2 Consultants Inc.  
16869 SW 65th Ave., #15  
Lake Oswego, OR 97035  

DOH ELAP #11626  
AIHA-LAP #100324  

Account# 22232  
Login# L415746

August 23, 2017

Dear Mr. Harper:

Enclosed are the analytical results for the samples received by our laboratory on August 16, 2017. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

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

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Sincerely,

SGS Galson Laboratories

Lisa Swab  
Laboratory Director

Enclosure(s)

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## Lead

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Lab ID</th>
<th>Air Vol (liter)</th>
<th>Total (ug)</th>
<th>Conc (mg/m3)</th>
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<td>L415746-1</td>
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<td>0.00041</td>
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<td>&lt;0.075</td>
<td>&lt;0.00019</td>
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<td>&lt;0.00016</td>
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<td>L415746-6</td>
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<td>&lt;0.075</td>
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</table>

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

- Level of quantitation: 0.075 ug
- Analytical Method: mod. NIOSH 7300/mod. OSHA ID-125G; ICP/MS
- OSHA PEL: 0.05 mg/m3 (TWA)
- Collection Media: MCE UW 37mm

---

< -Less Than  | mg -Milligrams  | m3 -Cubic Meters | kg -Kilograms | NA -Not Applicable | ND -Not Detected |
> -Greater Than| ug -Micrograms  | l -Liters        | NS -Not Specified | ppm -Parts per Million |
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Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

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

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

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

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

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<th>Parameter</th>
<th>Accuracy</th>
<th>Mean Recovery</th>
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<tr>
<td>Lead</td>
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<td>103%</td>
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L415746 (Report ID: 1014099):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: im-mwvfilt(28), MT-SOP-21(9)

L415746 (Report ID: 1014099):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

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

### Turn Around Time (TAT): [0%]

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<th>Option</th>
<th>TAT Percentage</th>
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<tr>
<td>4 Business Days</td>
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<tr>
<td>3 Business Days</td>
<td>50%</td>
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<td>2 Business Days</td>
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### Original Prep No.: [22232]

### Online COC No.: [132954]

### Sampled By: Matt Harper

### Project: 10159-38

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<th>Sample ID</th>
<th>Date Sampled</th>
<th>Collection Medium</th>
<th>Sample Volume</th>
<th>Liter Minutes</th>
<th>Analysis Requested</th>
<th>Method Reference</th>
<th>Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)</th>
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</thead>
<tbody>
<tr>
<td>081117-PB1</td>
<td>8/11/2017</td>
<td>37mm UW MCK, 3pc</td>
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<td>L</td>
<td>Lead (air)</td>
<td>NIOSH 7300/7150</td>
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<td>8/11/2017</td>
<td>37mm UW MCK, 3pc</td>
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<td>L</td>
<td>Lead (air)</td>
<td>NIOSH 7300/7150</td>
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### Comments:

- State Sampled: Please indicate which OEL(s) this data will be used for: OSHA PEL, ACGIH TLV, MSHA, Cal OSHA
- Specify Limit(s): Other

### Chain of Custody

<table>
<thead>
<tr>
<th>Relinquished By:</th>
<th>Signature</th>
<th>Date</th>
<th>Time</th>
<th>Received By:</th>
<th>Signature</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:matth@g2ci.com">matth@g2ci.com</a></td>
<td>SIGNED ELECTRONICALLY</td>
<td>8/14/2017</td>
<td>08:08</td>
<td>Emily Terry</td>
<td>8/30/17</td>
<td>11:10</td>
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Samples received after 3pm will be considered as next day's business.

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: [http://www.sgs.com/en/TermsAndConditions.aspx](http://www.sgs.com/en/TermsAndConditions.aspx)
# Chain of Custody

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<th>Sample ID</th>
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<th>Sample Time</th>
<th>Literature</th>
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<tr>
<td>081117-PB5</td>
<td>8/11/2017</td>
<td>37mm UW MCE, 3pc</td>
<td>478</td>
<td>L</td>
<td>Lead (air)</td>
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</tr>
</tbody>
</table>

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

**Chain of Custody**

<table>
<thead>
<tr>
<th>Chain of Custody</th>
<th>Print Name / Signature</th>
<th>Date</th>
<th>Time</th>
<th>Received By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relinquished By</td>
<td><a href="mailto:match@2ci.com">match@2ci.com</a></td>
<td>8/14/2017</td>
<td>08:08</td>
<td>Emily Terry</td>
</tr>
<tr>
<td>Relinquished By</td>
<td></td>
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</tr>
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</table>

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

Online COC No.: 132954
Prep No.: 22232
Account No.: 22232
Finalized: 8/14/2017 11:09:40 AM

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Page 5 of 5 Report Reference: 1 Generated: 23-AUG-17 07:43
Appendix B:

Sample Location Field Drawing
Appendix C:

Resources

EPA Timeline of Major Accomplishments in Transportation, Air Pollution, and Climate Change

EPA National Ambient Air Quality Standards

NIOSH Method 7300/Modified OSHA ID-125G; ICP Method for Lead Analysis